

# Eastern Green Link 4: Scottish Onshore Scheme

*Volume 2: Main Report*

*Chapter 14 Cumulative and In-Combination Effects*

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# **14. Cumulative and In- Combination Effects**

# 14. Cumulative and In-Combination Effects

## 14.1 Introduction

This chapter of the EIAR describes the assessment of cumulative and in-combination effects arising from the Scottish Onshore Scheme. This assessment of cumulative effects is a requirement of the EIA Regulations, which state that likely significant effects should cover cumulative effects of a Scottish Onshore Scheme, as well as the cumulation of effects with other existing and / or approved developments. The approach to the assessment of cumulative and in-combination effects broadly follows the guidance provided within Planning Circular 1/2017<sup>1</sup>.

Cumulative effects are those effects that would act in combination resulting in a greater significance than an individual effect on its own. As outlined in **Chapter 5: Environmental Effect Assessment Methodology (Volume 2: Main Report)**, two types of cumulative effects are considered in this assessment:

- **Intra-project effects:** The combined effects arising as a result of the Scottish Onshore Scheme upon a single receptor or resource. An example would be where a local resident is affected by dust, noise and a loss of visual amenity during the construction of the converter station, with the result being a greater nuisance than each individual effect alone.
- **Inter-project effects:** The combined effects of the Scottish Onshore Scheme with other relevant developments which may not, on an individual basis result in likely significant effects but, together (i.e. cumulatively), have a likely significant effect. This includes effects at construction and operational phases.

## 14.2 Approach to Cumulative Assessment

As set out above, the cumulative assessment considers effects between the different environmental topics (intra-project) as well as the effects from other projects (inter-project). The approach to each type of assessment is described below.

### Assessment of Intra-project Effects

There is no standard approach to the assessment of intra-project cumulative effects, therefore the assessment has been undertaken using professional judgement and the technical information provided in **Chapters 6 to 13**. This assessment is detailed in **Section 14.3 Intra-project Effects Assessment**.

### Assessment of Inter-project Effects

Projects included within the inter-project assessment were identified through consultation and a search of the Fife Council planning portal and the Energy Consents Unit (ECU) portal.

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<sup>1</sup> [Planning Circular 1/2017: Environmental Effect Assessment regulations - gov.scot](#)

This search was conducted on the 31st of July 2025 via the Energy Consents Unit (ECU) and Fife Council Planning Portal. As per standard practice, the list of developments was frozen from this date to allow sufficient time to compile the EIAR. A 2 km study area was applied to the search, which considered other development where planning applications have been submitted but not yet determined, or where applications have been granted but construction has not yet commenced at the time the search was conducted. Developments approved or under construction are considered as part of the baseline for this EIAR.

Inter-project cumulative effects have been considered against each of the environmental topics in **Chapters 6-13**. The cumulative developments identified are listed and assessed against these topics in **Table 14-1 Inter-project Effects Assessment**. Where effects have not been reduced or offset by embedded mitigation and additional mitigation is required, this is stated in the final column.

#### Scoping Opinion

No additional projects were identified in the Scoping Opinion for inclusion in the cumulative assessment. Fife Council requested that the list of cumulative developments be as up to date as possible at the time of writing this chapter.

### 14.3 Intra-project Effects Assessment

For an intra-project effect to occur a receptor must be affected by more than one type of effect. For the purpose of this assessment these are referred to as ‘shared receptors’. Shared receptors experiencing two or more types of effect with a significance of effect greater than negligible, have the potential to experience a significant intra-project effect.

This assessment identifies potential shared receptors as they relate to the main components of the Scottish Onshore Scheme, separating them into three categories: the converter station (including underground AC cable route); the underground DC cable route; and the landfall. Both the construction and operation phases are considered in the intra-project assessment.

Shared receptors identified for the assessment comprise:

- Residential receptors: this group comprises settlements and individual residential properties in the vicinity of the converter station, underground DC cable route and the landfall.
- Recreational receptors: this group comprises users of walking and cycling routes in the vicinity of the converter station, underground DC route and the landfall, such as core paths, the Fife Coastal Path and the National Cycle Network.

#### **Converter Station – Residential Receptors**

##### Construction

Residential receptors could be affected by a combination of visual, traffic, noise and vibration effects during the construction of the converter station.

**Chapter 6: Landscape and Visual Amenity** identifies residual effects on visual amenity during construction from viewpoints representative of residential properties ranging from minor adverse (not significant) to moderate adverse (significant). These include a residential property and farmstead on Torres Loan (southwest of the converter station), properties on the

eastern edges of Lochore and Ballingry and a cluster of properties on the northern edge of Auchterderran / Woodend where Woodend Road turns onto Kinglassie Road.

The assessment in **Chapter 11: Noise and Vibration** identifies one residual effect from construction noise on a property to the north of the converter station, at Capledrae known as NSR-A (noise-sensitive receptor). After mitigation measures in line with Best Practicable Means (BMP) to be secured through a Construction Environmental Management Plan (CEMP), the residual effect is assessed to be minor adverse (not significant). The property and farmstead on Torres Loan (The Ha'House) was included in the assessment, but it is noted that this property is unoccupied and in the control of the Applicant therefore the Applicant can therefore directly manage the construction programme to avoid any potential noise and vibration.

During construction of the converter station no shared residential receptors have been identified, therefore there will be no significant intra-project effects.

#### Operation

Residential receptors could be affected by a combination of visual and noise effects during operation of the converter station.

**Chapter 6: Landscape and Visual Amenity** identifies residual effects on visual amenity during operation from viewpoints representative of residential properties. One group of residential receptors on the eastern edges of the settlements of Lochore and Ballingry is identified to experience a minor adverse effect (not significant) during Operation Year 1, reducing to a negligible effect (not significant) by Operation Year 15. These properties would not be affected by noise due to the distance from the converter station. Operational noise effects are limited to two properties in the vicinity of the converter station.

The assessment in **Chapter 11: Noise and Vibration** identifies residual effects from day and nighttime operational noise on two properties in the vicinity of the converter station. The effects on these properties are identified as being minor adverse at worst (not significant).

Neither receptor overlaps with the receptors identified in the landscape and visual assessment, therefore there are no shared receptors and there will be no significant intra-project effects caused by the operation of the converter station.

#### **Converter Station – Recreational Receptors**

##### Construction

Recreational receptors could be affected by a combination of visual, noise and vibration effects during construction of the converter station.

**Chapter 6: Landscape and Visual Amenity** identifies residual effects on visual amenity during construction from viewpoints representative of recreational receptors, including the Fife Pilgrim Way and other core paths. These range from minor adverse (not significant) to moderate adverse (significant).

The assessment in **Chapter 11: Noise and Vibration** does not explicitly identify recreational receptors however in some instances it does identify residential receptors which are adjacent to recreational receptors such as core paths. As such it could be assumed that these recreational receptors would experience similar residual effects as the residential

receptor. During the construction of the converter station the noise assessment does not identify residual effects on any residential receptors which are close to recreational receptors, so in this case there are no shared receptors and therefore no significant intra-project effects.

#### Operation

Recreational receptors could be affected by a combination of visual and noise effects during operation of the converter station.

**Chapter 6: Landscape and Visual Amenity** identifies residual effects on visual amenity during operation from viewpoints representative of recreational receptors, including the Fife Pilgrim Way and core paths. These range from negligible adverse (not significant) to minor adverse (not significant). By Operation Year 15 only two viewpoints are expected to experience minor adverse effects, which are not significant. These viewpoints are Viewpoint 5 - Northern edge of Dunmore Fort, and Viewpoint 7 - Local core path network north of Scotlandwell, which are approximately 2.1 km northwest and 4.4 km north of the converter station respectively.

The assessment in **Chapter 11: Noise and Vibration** identifies residual effects from day and nighttime operational noise on two properties in the vicinity of the converter station. Neither receptor is adjacent to a recreational receptor which overlaps with the receptors identified in **Chapter 6: Landscape and Visual Amenity**, therefore there are no shared receptors and there will be no significant intra-project effects caused by the operation of the converter station.

#### **Underground DC Cable Route – Residential Receptors**

##### Construction

Residential receptors could be affected by a combination of visual, traffic, noise and vibration effects during installation of the underground DC cable route.

**Chapter 6: Landscape and Visual Amenity** identifies residual effects on visual amenity during construction from viewpoints representative of residential properties ranging from minor adverse (not significant) to moderate adverse (significant). From north to south along the cable route these include properties located on the eastern edges of Lochore and Ballingry, the northern and western edges of Auchterderran extending southwest towards Murray Place, a cluster of properties at Muirhead Cottages and South Dundonald, Kilrie Farm, Manorleys Cottage and Banchory House. For the more northern receptors at Lochore, Ballingry and Auchterderran it should be noted that the residual effects are also contributed to by the converter station, not just the cable route.

The assessment in **Chapter 11: Noise and Vibration** identifies residual effects from construction noise on several residential properties along the cable route. For receptors greater than 40 m from the cable route these effects will be negligible to minor adverse (not significant). For four receptors located within 40 m of the cable route these effects will be minor adverse (not significant) during daytime works and moderate adverse at worst (significant) during evening and weekend works. The residential receptors, from north to south, include properties at Pitcairn, the northern edge of Auchterderran, the western edge of

Auchterderran at Jamphlars road, Murray Place, Muirhead Cottages, Kilrie and Bank of Piteadie.

The presence of some shared residential receptors means there is potential for intra-project effects through a combination of visual, noise and vibration effects. In particular these are properties at the northern and western edges of Auchterderran, Murray Place, Muirhead Cottages and Kilrie. Horizontal Directional Drilling (HDD) operations will take place in the vicinity of these receptors where 24-hour working may be required. However, construction will generally take place in 1 km sections with main construction lasting between 3-6 months per section. As effects have already been reduced through embedded mitigation and will be temporary and short duration, no additional mitigation is proposed.

#### Operation

The buried nature of the underground DC cable route means that during operation there is no potential for intra-project effects on residential receptors.

### **Underground DC Cable Route – Recreational Receptors**

#### Construction

Recreational receptors could be affected by a combination of visual, noise and vibration effects during installation of the underground DC cable route. **Chapter 6: Landscape and Visual Amenity** identifies residual effects on visual amenity during construction from viewpoints representative of recreational receptors such as core paths and National Cycle Route 76. These effects range from minor adverse (not significant) to moderate adverse (significant).

As outlined above, the assessment in **Chapter 11: Noise and Vibration** does not explicitly identify recreational receptors however in some instances it does identify residential receptors which are adjacent to recreational receptors such as core paths. As such it could be assumed that these recreational receptors would experience the same or similar residual effects as the residential receptor. NSRs have been identified adjacent to core path P452/03 north of Auchterderran and core path P491/03 north of Auchtertool to the west of Knockbathy Wood. As the receptors are more than 40 m from the underground cable route the residual effects are negligible to minor adverse (not significant).

There is potential for users of the two recreational routes identified as shared receptors to experience effects greater than the individual effects described above. HDD operations will take place in the vicinity of these receptors where 24-hour working may be required, causing visual, noise and vibration effects to combine. However, construction will generally take place in 1 km sections with main construction lasting between 3-6 months per section. As effects have already been reduced through embedded mitigation and will be temporary and short duration, no additional mitigation is proposed.

#### Operation

The buried nature of the underground DC cable route means that during operation there is no potential for intra-project effects on recreational receptors.

## Landfall – Residential Receptors

### Construction

Residential receptors could be affected by a combination of visual, noise and vibration effects during installation of the landfall.

**Chapter 6: Landscape and Visual Amenity** identifies residual effects on visual amenity during construction from viewpoints representative of residential properties which are minor adverse (not significant). The two relevant viewpoints are representative of scattered properties northwest of the landfall such as Banchory house, and a group of properties on Long Craigs Terrace on the edge of Kinghorn.

The assessment in **Chapter 11: Noise and Vibration** identifies residual effects from construction noise on two groups of residential receptors – one at Linton Court more than 40 m from the works and the other at Long Craigs Terrace which is closer to the landfall. Residual effects range from minor adverse (not significant) at Linton Court to major adverse (significant) for properties on Long Craigs Terrace during nighttime works when 24-hour HDD is planned.

There is potential for residential receptors at Long Craigs Terrace on the edge of Kinghorn to experience a significant intra-project effect as a result of the landfall installation. However this would be temporary and limited to when HDD works are being undertaken, there for no additional mitigation is proposed.

### Operation

Due to the temporary nature of the works associated with the landfall, there would be no operational effects.

## Landfall – Recreational Receptors

### Construction

Recreational receptors could be affected by a combination of visual, noise and vibration effects during installation of the landfall.

**Chapter 6: Landscape and Visual Amenity** identifies residual effects on visual amenity during construction from viewpoints representative of recreational receptors which are minor adverse (not significant). The two relevant viewpoints are representative of core path P468/04, National Cycle Route 76 and the Fife Coastal Path.

The assessment in **Chapter 11: Noise and Vibration** identifies a group of NSRs at Long Craigs Terrace which is adjacent to the Fife Coastal Path. Residual effects at this receptor are predicted to be negligible (not significant) during the day and on Saturday mornings, minor or moderate adverse (not significant or significant) on evening and weekend periods and major adverse (significant) during nighttime works.

There is potential for recreational users of the Fife Coastal Path to experience effects greater than the individual effects described above through a combination of visual, noise and vibration works during the installation of the landfall. However on the assumption that the path is unlikely to be used at nighttime, receptors should avoid the most significant effects.

### Operation

Due to the temporary nature of the works associated with the landfall there would be no operational effects.

**Table 14-1 Inter-project Effects Assessment**

| Application Reference | Development name                | Description                                                                      | Development Phase      | Location in relation to the Scottish Onshore Scheme                                                               | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Additional Mitigation |
|-----------------------|---------------------------------|----------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>23/02598/F ULL</b> | <b>Glenniston Solar Project</b> | Installation of 39MW solar PV array with 10MW embedded battery storage facility. | Application (Approved) | Borders the Application Boundary at Powguild and Glenniston. Approximately 4.2 km south of the Converter Station. | Landscape and Visual Amenity   | <p>The Glenniston Solar Project would have direct effects on LCT 185: Pronounced Hills and Craggs, LCT 186: Lowland Hills and Valleys, LCT 191: Lowland Loch Basins - Fife and the Cullaloe Hills and Coast LLA. There are direct effects of the Scottish Onshore Scheme on LCTs 185 and 186 and indirect effects on LCT 191 and the LLA. Shared visual receptors are likely to include viewpoints 10, 11 and 12.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The works associated with the HVDC cable corridor would be in close proximity to the cumulative scheme; however, it is considered that the HVDC cable works would not be dissimilar from agricultural works within the rural landscape. This would also be in close proximity to existing energy infrastructure in the landscape, including the Glenniston substation, existing towers and OHL and Mossmorran Natural Gas Liquids Plant, and the A92 road corridor, which provides context for diminished perceptual qualities in the local landscape and therefore reduces effects on key characteristics. The works associated with the proposed converter station would be separated from the cumulative scheme by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in viewpoints 10, 11 and 12 in conjunction with the potential construction of Glenniston Solar Project. The additional construction plant and activity associated with the HVDC cable corridor would continue to not be dissimilar to existing agricultural practices across this landscape and would be of a short duration further urbanising context would be given to the view by the cumulative scheme, therefore reducing the cumulative magnitude</p> | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | <p>of change in the views lessening the degree of contrast. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the cumulative effect on the landscape and visual receptors (excluding Cullaloe Hills and Coast LLA) would be limited as the HVDC cable corridor would be reinstated and the works associated with the proposed converter station would be separated by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant. At operation year 15, there would be no effects arising from the Scottish Onshore Scheme on shared visual receptors and Cullaloe Hills and Coast LLA therefore the likely cumulative effect is assessed to be no change (not significant).</p> |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                    | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>DRO3, DRO4, DEN1, DEN2 and DEN3 are all potential receptors of surface runoff and chemical spillage from this development. DRO3, DRO4 and DEN3 have been scoped out as potential receptors for the Scottish Onshore Scheme and so cannot pose a cumulative effect.</p> <p>DEN2 has been assessed as Medium importance for surface water quality, but with mitigation measures the effects of pollution risks during construction are not significant. With similar standards of</p>                                                                                                                                                                                                                                                                                                                                 | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                | <p>mitigation for the construction of this development, this significance of effects should be maintained.</p> <p>This other development would appear to be right alongside both the Scottish Onshore Scheme and to be in close proximity to the Gelly Burn (the upper stretch of DEN1). DEN1 has a high importance for water quality. Potential significant impacts to DEN1 arise due to the potential crossing and culverting of Gelly Burn from access tracks upstream from the Scottish Onshore Scheme, in addition to an open trench crossing through the Burn associated with the Scottish Onshore Scheme. A review of the published environmental literature associated with this development indicates that surface water run-off will be filtered into drains and then be routed to soakaways adjacent to surrounding compounds. A Drainage &amp; Hydrology Assessment has been undertaken to ensure mitigation of potential impacts on the water environment. If this scheme drains in the long term into shared watercourses there could be cumulative impacts from urban runoff and risk of spillages (e.g. oils in transformers). However, through application of a suitable drainage system with treatment and mitigation measures the risk can be effectively managed.</p> <p>No increase in groundwater or flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this other development in association with those set out in <b>Chapter 8 Water Environment and Flood Risk</b> for the Scottish Onshore Scheme.</p> <p>It is possible that there will be a need for new access crossings or surface water outfalls to watercourses. However, these will be localised impacts, and the Scottish Onshore Scheme does not result in any permanent physical effects to the watercourse both might affect.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p> |                       |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Additional Mitigation                                                                                                                                                                       |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     | Cultural Heritage              | <p>This application covers a large area between Muirhead and Camilla Loch incorporating the A92 and part of the Scottish Onshore Scheme. There are no recorded historic environment assets within the area where the two developments overlap with one recorded within the boundaries of the solar project. This is a cist (CANMORE 52972) found in Powguild farm. It is considered of low value. This site has now been buried under made ground within the farm and will not be cumulatively effected by the two developments. There are a further nine non-designated historic environment assets within the surrounding area. These are farmsteads (CANMORE 139241, 139229), buildings (CANMORE 55490, 139287, 139294), cairn (CANMORE 52983), cinerary urns (CANMORE 52975), Powguild mill (CANMORE 139299), Glenniston quarry (CANMORE 139289). None of these will be affected by the Scottish Onshore Scheme in isolation. It is assessed that this cumulative effect to setting would represent a perceptible, temporary level of change that would slightly alter the visual outlook and setting by adding dust and noise. It would not affect the principal heritage value of these assets, which is derived from historic and aesthetic values. It is noted that this would be a temporary cumulative effect which would cease as soon as works associated with the Scottish Onshore Scheme move away from the location. The recorded historic environment assets are all considered of low value. The effect is therefore assessed to be slight, resulting in a minor temporary effect.</p> | None proposed as this will be a minor temporary effect restricted to the construction phase.                                                                                                |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | <p>Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of <b>moderate significance</b> are identified for five out six categories.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP |

| Application Reference | Development name                                           | Description                                                                                                                                                  | Development Phase     | Location in relation to the Scottish Onshore Scheme                                                                                | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Additional Mitigation                                                                                                                                       |
|-----------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                                                            |                                                                                                                                                              |                       |                                                                                                                                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                                                            |                                                                                                                                                              |                       |                                                                                                                                    | Noise                          | Should construction activities overlap there is the potential for cumulative noise effects, however, on the basis that both the Scottish Onshore Scheme and Glenniston Solar Farm have measures proposed to reduce construction noise as far as possible significant cumulative effects are not considered likely.                                                                                                                                                              | None                                                                                                                                                        |
|                       |                                                            |                                                                                                                                                              |                       |                                                                                                                                    | Geology and Ground Conditions  | Effects from the Scottish Onshore Scheme on geology and ground conditions are limited to within the application boundary. The proposed underground DC cable route is located to the east of Glenniston Solar Farm and would not result in significant cumulative effects given the intervening distance between them (typically >100m).                                                                                                                                         | None                                                                                                                                                        |
|                       |                                                            |                                                                                                                                                              |                       |                                                                                                                                    | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                     | None.                                                                                                                                                       |
| <b>24/01380/EI A</b>  | <b>Balbie Energy Crop and Landfill Restoration project</b> | Change of use of agricultural land and landfill restoration to form an energy crop facility, with provision of ancillary infrastructure (alterations to site | Application (Pending) | Approximately 1 km southwest of the Application Boundary, south of Auchtertool. Approximately 9 km south of the Converter Station. | Landscape and Visual Amenity   | The Balbie Energy Crop and Landfill Restoration project would have direct effects on LCT 185: Pronounced Hills and Craggs and the Cullaloe Hills and Coast LLA. There are direct effects of the Scottish Onshore Scheme on LCT 185 and indirect effects on the LLA. Shared visual receptors are likely to include viewpoints 11 and 12.<br><br>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of | None.                                                                                                                                                       |

| Application Reference | Development name | Description                               | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Additional Mitigation |
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|                       |                  | access and hardstanding) and landscaping. |                   |                                                     |                                | <p>the Scottish Onshore Scheme. The works associated with the HVDC cable corridor would be in close proximity to the cumulative scheme; however, it is considered that the HVDC cable works would not be dissimilar from agricultural works within the rural landscape. This would also be in close proximity to the existing quarry at Orrock and worked landscape with raised landform associated with former landfill which diminishes naturalness and scenic quality in the local landscape and therefore reduces effects on key characteristics. The works associated with the proposed converter station would be separated from the cumulative scheme by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in viewpoints 11 and 12 in conjunction with the construction works associated with the cumulative projects. The additional construction plant and activity associated with the HVDC cable corridor would not be dissimilar to existing agricultural practices across this landscape and would be of a short duration therefore reducing the cumulative magnitude of change in the views. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the cumulative effect on the landscape and visual receptors (excluding Cullaloe Hills and Coast LLA) would be limited as the HVDC cable corridor would be reinstated and the works associated with the proposed converter station would be separated by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant. At operation year 15, there would be no effects arising from the Scottish Onshore Scheme on shared visual receptors and Cullaloe Hills and Coast LLA therefore the</p> |                       |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | likely cumulative effect is assessed to be no change (not significant).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                                                                                                                                                                                            | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>Two channelised irrigation watercourses are potential receptors of surface runoff (including risk of chemical spillage) from this development. These do not clearly flow into larger watercourses but may connect underground to the Tyrie Burn some 1.9 km away. With a similar standard of mitigation for construction, the cumulative effects are minimal to none. A review of the published environmental literature associated with this development indicates that swales will be used to convey surface water away from the construction area and mitigate pollution or run-off impacts.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, if there is a pathway to a shared water receptor (i.e. Tyrie Burn) with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p> | None.                 |
|                       |                  |             |                   |                                                     | Cultural Heritage                | This application is located 1 km from the Application Boundary with the closest point of the Scottish Onshore Scheme being a mobilisation road leading from a local road to the west. Given this                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | distance, it is assessed that there will no cumulative effects arising from the two developments.                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                         |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories. | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | The proposed development at Balbie is not expected to result in any significant noise issues per its application documents. It is located to the west of the proposed underground DC cable route which may have temporary adverse noise effects during construction, however, these will not combine with noise effects from the proposed development at Balbie. There will be no cumulative effects with the Scottish Onshore Scheme.                                                                                      | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Geology and Ground Conditions  | The proposed development at Balbie is located on a former landfill and includes measures to remediate contamination if any is found. It is located more than 1.5km away from the proposed underground DC cable route. Due to the intervening distance                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                    |

| Application Reference | Development name                      | Description                                                                                                                                                            | Development Phase         | Location in relation to the Scottish Onshore Scheme                                                                                                                                                      | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Additional Mitigation                                             |
|-----------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|                       |                                       |                                                                                                                                                                        |                           |                                                                                                                                                                                                          |                                | between them and proposed mitigation measures no significant cumulative effects will occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                   |
|                       |                                       |                                                                                                                                                                        |                           |                                                                                                                                                                                                          |                                | Climate Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No cumulative effects identified in the climate assessment. None. |
| <b>24/01927/S CO</b>  | <b>Westfield substation extension</b> | Extension to existing substation comprising: 400 kV connection infrastructure, including a building to house the Gas Insulated Switchgear and associated transformers. | Pre-application (Scoping) | Westfield substation is located immediately to the west of the Converter Station. EGL4 will connect to the transmission network at the new 400 kV extension via the AC cable from the converter station. | Landscape and Visual Amenity   | <p>The Westfield substation extension would have direct effects on LCT 186: Lowland Hills and Valleys. There are direct effects of the Scottish Onshore Scheme on LCT 186. Shared visual receptors are likely to include viewpoints 2, 3, 5, 6 and 7.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The additional construction works from the Scottish Onshore Scheme in conjunction with the construction of Westfield substation extension would increase the concentration of construction activity within a localised part of the LCT, affecting some perceptual characteristics of the LCT, including views across the lowland and scenic quality. The physical changes to the LCT, including vegetation removal and landform change, would be increased by the Scottish Onshore Scheme but would be highly localised. The works associated with the HVDC and HVAC cable works would not be dissimilar from agricultural works within the rural landscape so are unlikely to give rise to significant cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in combination with the construction plant and activity at Westfield substation extension. Whilst this has the potential to intensify temporary construction plant and activity seen within a similar part of the view, it is not considered to result in cumulative visual effects any greater than the construction of the Scottish</p> | None.                                                             |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic  | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                 | <p>Onshore Scheme in isolation. Consequently, the likely cumulative effect is assessed to be not significant.</p> <p>At operation year 1, the converter station in combination with the cumulative development would concentrate infrastructure around the existing context of Westfield Biomass Plant and Westfield Substation. This would provide further context within this part of the LCT with existing industrial influence contained by landform, vegetation and built form. The Scottish Onshore Scheme would additionally result in localised direct alteration to landform and vegetation patterns. However, due to the existing varied landform across the LCT and proposed mitigation planting, the effects would be limited. The HVAC and HVDC cable corridors would be reinstated. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the Scottish Onshore Scheme would continue to read as an extension to existing industrial infrastructure in the local landscape with established proposed planting and separated from the wider landscape by the landform at Hare Law. The likely cumulative effect is assessed to be not significant.</p> <p>At operation, the addition of the converter station in combination with the cumulative development would appear within a similar part of the view as the existing Westfield substation (viewpoints 2,3,5,6 and 7). As a result, the cumulative visual effects are not considered to be any greater than the effects of the Scottish Onshore Scheme in isolation and would therefore not result in significant visual effects.</p> |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Additional Mitigation                                                                                  |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                  | at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                        |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | LOC8 and LOC9 are potential receptors of surface runoff and chemical spillage from this development. Both have been assessed as Medium surface water quality importance but with mitigation measures the effects are not significant. An Environmental Impact Assessment is being prepared but not yet published for this development. But assuming standard measures are applied during construction to mitigate risks to the water environment no cumulative effects are predicted.<br><br>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.<br><br>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted. | None.                                                                                                  |
|                       |                  |             |                   |                                                     | Cultural Heritage                | This application is located to the immediate west of the Scottish Onshore Scheme and, while there are no recorded historic environment assets within the boundaries of the application, the associated groundworks have the potential to combine with those of the Scottish Onshore Scheme to create a cumulative effect upon the settings of historic environment assets within the area. The majority of these are non-designated comprising findspots of artefacts or former industrial sites which no longer exist. As such, there will be no cumulative effect to these historic environment assets.                                                                                                                                                                                                  | None                                                                                                   |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport    | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                             | Additional Mitigation                                                                                                                                                                                                                            |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.                                                                                                                                                                                                                                                               | be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | The application is located to the west of the Scottish Onshore Scheme. There is the potential for cumulative effects from both the new substation and converter station during construction and operation, however, both include construction mitigation measures to reduce construction noise as far as possible as well as measures embedded in their design to attenuate and reduce noise emissions. Significant cumulative effects are not considered likely. | None                                                                                                                                                                                                                                             |
|                       |                  |             |                   |                                                     | Geology and Ground Conditions  | Effects from the Scottish Onshore Scheme on geology and ground conditions are limited to within the application boundary. The proposed converter station is located to the east of the new Westfield Substation. The proposed AC underground cable would connect the converter station to the new substation. With the mitigation measures proposed cumulative effects are considered to be unlikely to occur.                                                    | None                                                                                                                                                                                                                                             |
|                       |                  |             |                   |                                                     | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                       | None.                                                                                                                                                                                                                                            |

| Application Reference | Development name                | Description                                                                                                                                                            | Development Phase         | Location in relation to the Scottish Onshore Scheme                                                                       | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation |
|-----------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 24/01928/S<br>CO      | Mossmorran Substation extension | Extension to existing substation comprising: 400 kV connection infrastructure, including a building to house the Gas Insulated Switchgear and associated transformers. | Pre-application (Scoping) | Approximately 2 km west of the Application Boundary at Auchtertool and approximately 6 km south of the Converter Station. | Landscape and Visual Amenity     | This cumulative scheme has been scoped out of the landscape and visual cumulative assessment. The cumulative scheme is outwith the landscape and visual study area for the Scottish Onshore Scheme therefore reducing the potential for significant adverse cumulative effects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | None.                 |
|                       |                                 |                                                                                                                                                                        |                           |                                                                                                                           | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                         | None.                 |
|                       |                                 |                                                                                                                                                                        |                           |                                                                                                                           | Water Environment and Flood Risk | DRO1 and some small upstream tributaries are potential receptors of surface runoff and chemical spillage from this development. DRO1 has been assessed as High surface water quality importance but with mitigation measures the effects are not significant. An Environmental Impact Assessment is being prepared but not yet published for this development. But assuming similar standards of mitigation for this construction development, this significance should be maintained.<br><br>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.<br><br>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted. | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     | Cultural Heritage              | This application is located 2 km from the Application Boundary. Given this distance, it is assessed that there will be no cumulative effects arising from the two developments.                                                                                                                                                                                                                                                                                                                                             | None.                                                                                                                                                                                                                                                                                                                                                   |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories. | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | The Scottish Onshore Scheme lies between 2-3 km northwest of the proposed extension to the Mossmorran Substation. Given the intervening distance and mitigation measures to be implemented during construction cumulative effects are not likely.                                                                                                                                                                                                                                                                           | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Geology and Ground Conditions  | The proposed underground DC cable is located to the east of the proposed extension to Mossmorran Substation. The distance between the two developments is 2-3km. With mitigation measures in place no cumulative effects are likely to occur.                                                                                                                                                                                                                                                                               | None                                                                                                                                                                                                                                                                                                                                                    |

| Application Reference | Development name                             | Description                                                                                                                           | Development Phase                                | Location in relation to the Scottish Onshore Scheme                                                                               | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Additional Mitigation |
|-----------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                                              |                                                                                                                                       |                                                  |                                                                                                                                   | Climate Change                   | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | None.                 |
| 24/01809/S CR         | The Avenue residential development Lochgelly | Residential development located on approximately 6.59 ha of agricultural land, intended to be developed for approximately 190 houses. | Pre-application (Screening – considered non-EIA) | Located approximately 1 km west of the Application Boundary at Lochgelly and approximately 4.5 km south of the Converter Station. | Landscape and Visual Amenities   | This cumulative scheme has been scoped out of the landscape and visual cumulative assessment due to a lack of information at the screening stage to reasonably undertake a cumulative assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | None.                 |
|                       |                                              |                                                                                                                                       |                                                  |                                                                                                                                   | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                      | None.                 |
|                       |                                              |                                                                                                                                       |                                                  |                                                                                                                                   | Water Environment and Flood Risk | One channelised irrigation watercourse is identified here as a potential receptor of surface runoff (including the risk of chemical spillages) from this development, but this is scoped out as a potential receptor for the Scottish Onshore Scheme. Scottish Government deemed an Environmental Impact Assessment as unnecessary for this development and so no further published information on potential water impacts or mitigations is known.<br><br>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.<br><br>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted. | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     | Cultural Heritage              | Given the distance between this application and the Application Boundary, and the developed urban setting of this application, it is assessed that there will be no cumulative effects.                                                                                                                                                                                                                                                                                                                                     | None.                                                                                                                                                                                                                                                                                                                                                   |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories. | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | The proposed DC underground cable lies to the west of the application. Given the intervening distance and mitigation measures to be implemented during construction cumulative effects are not likely.                                                                                                                                                                                                                                                                                                                      | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                        | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None.                                                                                                                                                                                                                                                                                                                                                   |

| Application Reference | Development name                           | Description                                                                                                                                                                                    | Development Phase      | Location in relation to the Scottish Onshore Scheme                                                                                         | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Additional Mitigation |
|-----------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>22/02323/F ULL</b> | <b>Glenniston Battery Storage Facility</b> | Erection of battery storage facility comprising 39 banks of high-efficiency battery energy storage units, 20 transformers, 33 kV metering switchhouse and two HV switchgear and control rooms. | Application (Approved) | Forms part of the Glenniston Solar Project, directly west of the Application Boundary. Approximately 4.2 km south of the Converter Station. | Landscape and Visual Amenity   | <p>The Glenniston Battery Storage Facility would have direct effects on LCT 185: Pronounced Hills and Craggs. There are direct effects of the Scottish Onshore Scheme on LCT 186. Shared visual receptors are likely to include viewpoints 10, 11 and 12.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The works associated with the HVDC cable corridor would be in close proximity to the cumulative scheme; however, it is considered that the HVDC cable works would not be dissimilar from agricultural works within the rural landscape. This would also be in close proximity to existing energy infrastructure in the landscape, including the Glenniston substation, existing towers and OHL and Mossmorran Natural Gas Liquids Plant, and the A92 road corridor, which provides context for diminished perceptual qualities in the local landscape and therefore reduces effects on key characteristics. The works associated with the proposed converter station would be separated from the cumulative scheme by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in viewpoints 10,11 and 12 in conjunction with the potential construction of the cumulative development, The additional construction plant and activity associated with the HVDC cable corridor would continue to not be dissimilar to existing agricultural practices across this landscape and would be of a short duration therefore reducing the cumulative magnitude of change. further urbanising context would be given to the view by the cumulative scheme, therefore lessening the degree of contrast. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the cumulative effect on the landscape receptors would be limited as the HVDC cable corridor would be</p> |                       |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | <p>reinstated and the works associated with the proposed converter station would be separated by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, there would be no effects arising from the Scottish Onshore Scheme on shared visual receptors therefore the likely cumulative effect is assessed to be no change (not significant).</p>                                                                                                                                                                                                                                                                                                                                           |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | <p>As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b>, there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.</p>                                                                                                                                                                              | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>No watercourses are identified here as potential receptors for this development. No Environmental Impact Assessment has been prepared for this development specifically, but the associated Glenniston Solar Farm states that surface water run-off will be filtered into drains and then be routed to soakaways adjacent to surrounding compounds, and that a Drainage &amp; Hydrology Assessment has been undertaken to ensure mitigation of potential impacts on the water environment.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p> | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     | Cultural Heritage              | This application is located 603m from the entrance of the Scottish Onshore Scheme at the access track between Camilla Loch to the north and Auchtertool to the south. Given this distance, it is unlikely that the Scottish Onshore Scheme will combine with this application to create a cumulative effect. There will be no cumulative effect.                                                                                                                                                                            | None.                                                                                                                                                                                                                                                                                                                                                   |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories. | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | The battery energy storage facility is located to the west of the proposed underground DC cable route. The distance between the two developments is such that cumulative noise effects are not likely to occur.                                                                                                                                                                                                                                                                                                             | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                        | None                                                                                                                                                                                                                                                                                                                                                    |

| Application Reference | Development name                                                                     | Description                                                                                                         | Development Phase      | Location in relation to the Scottish Onshore Scheme                                                                | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Additional Mitigation |
|-----------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                                                                                      |                                                                                                                     |                        |                                                                                                                    | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | None.                 |
| 21/03531/F ULL        | Solar Farm and Battery Storage Development at Land at Strathruddie, Kinglassie, Fife | Proposed solar farm up to 25MW, battery storage and associated access and infrastructure. Site approximately 47 ha. | Application (Approved) | Located approximately 800m east of the Application Boundary, and approximately 1 km east of the Converter Station. | Landscape and Visual Amenities | <p>The Solar Farm and Battery Storage Development at Land at Strathruddie, Kinglassie, Fife would have direct effects on LCT 186: Lowland Hills and Valleys. There are direct effects of the Scottish Onshore Scheme on LCT 186. Shared visual receptors are likely to include viewpoints 2, 3, 5, 6 and 7.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The additional construction works from the Scottish Onshore Scheme would affect perceptual characteristics of the LCT, including views across the lowland and scenic quality. The physical changes to the LCT, including vegetation removal and landform change, would be increased by the Scottish Onshore Scheme but would be highly localised. The works associated with the HVDC and HVAC cable works would not be dissimilar from agricultural works within the rural landscape so are unlikely to give rise to significant cumulative effects. Overall the likely cumulative construction effect on LCT 186 is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in views from viewpoints 2,3,5,6 and 7 in either combination or in succession with the potential construction of the cumulative development. The additional construction plant and activity associated with the Scottish Onshore Scheme, primarily associated with the construction of the converter station is not considered to be any greater than the effects of the Scottish Onshore Scheme in isolation and would therefore not result in significant visual effects.</p> <p>At operation year 1, the cumulative effect on the landscape receptors would comprise the addition of localised direct</p> | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic  | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                 | <p>alteration to landform and vegetation patterns which would increase this type of change in the locality. Due to the existing varied landform across the LCT and proposed planting, the effects would be limited. The presence of the proposed converter station and the inclusion within views across the lowland landscape would continue to be within the context of the Westfield Biomass Plant and Westfield Substation in very close proximity as well as the cumulative scheme. This would provide further context within this part of the LCT with existing industrial influence contained by landform, vegetation and built form. The HVAC and HVDC cable corridors would be reinstated. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the Scottish Onshore Scheme would read as extension to existing industrial infrastructure in the local landscape with established proposed planting and separated from the wider landscape by the landform at Hare Law. The cumulative scheme would further reinforce this context in the local landscape. The likely cumulative effect is assessed to be not significant.</p> <p>At operation, the addition of the converter station in combination with the cumulative development would appear either in combination or in succession within views from viewpoints 2,3,5,6 and 7). In the majority of these views the converter station and the cumulative development would appear in different parts of the view and at varying distances. In all of the views the converter station would appear within the context of existing infrastructure thereby reducing the potential cumulative change. As a result, the cumulative visual effects are not considered to be any greater than the effects of the Scottish Onshore Scheme in isolation and would therefore not result in significant visual effects.</p> |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | Two channelised irrigation watercourses are identified as potential receptors of surface runoff and chemical spillage from this development, but these are scoped out as potential receptors for the Scottish Onshore Scheme and so cannot pose a cumulative effect. A Drainage and Flood Risk Assessment has been prepared for this development to mitigate impacts on the water environment.<br><br>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.<br><br>Overall, and based on the available data, it is considered that there are no shared water features, thus no potential for cumulative effects.                                                     | None.                 |
|                       |                  |             |                   |                                                     | Cultural Heritage                | This development is located to the north of the B9037 and there are no recorded historic environment assets within its boundaries. A Grade B listed building of medium value, Harestanes Farm (LB43659), is located to the immediate southeast of the development while other non-designated historic environment assets are located to the east. There are no historic environment assets located between this application and the Scottish Onshore Scheme. While the application will create an effect upon the setting of Harestanes Farm (LB43659), this asset is 1.5 km to the east of the Scottish Onshore Scheme with the B921 in between. Given this distance and existing noise and dust from the road which effect the setting of the listed building, it is assessed that | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | there will be no cumulative effect upon its setting from the application site and the Scottish Onshore Scheme.                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                         |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories. | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | The development lies to the east of the proposed converter station. Given the distance between the two developments and assuming implementation of mitigation measures, should construction periods overlap, no cumulative effects are likely to occur.                                                                                                                                                                                                                                                                     | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                        | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None.                                                                                                                                                                                                                                                                                                                                                   |

| Application Reference | Development name            | Description                                                                                             | Development Phase      | Location in relation to the Scottish Onshore Scheme                                                                                 | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Additional Mitigation                                                                        |
|-----------------------|-----------------------------|---------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 24/01095/A RC         | Erection of a dwellinghouse | Proposed 1.5 storey dwellinghouse on land at Muirhead Steading. Application site approximately 0.35 ha. | Application (Approved) | Located immediately next to the Application Boundary at Muirhead West Cottage. Approximately 4.3 km south of the Converter Station. | Landscape and Visual Amenity     | This cumulative scheme has been scoped out of the landscape and visual cumulative assessment. This is due to difference in the type and scale of development between this cumulative scheme and the Scottish Onshore Scheme reducing the potential for significant adverse cumulative effects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | None.                                                                                        |
|                       |                             |                                                                                                         |                        |                                                                                                                                     | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                          | None.                                                                                        |
|                       |                             |                                                                                                         |                        |                                                                                                                                     | Water Environment and Flood Risk | No watercourses are identified here as potential receptors for this construction development, which is of a very small scale and unlikely to have significant adverse effects on the water environment. Overall, no cumulative effects are predicted if construction coincided with construction of the Scottish Onshore Scheme.                                                                                                                                                                                                                                                                                                                                                                                                                                             | None.                                                                                        |
|                       |                             |                                                                                                         |                        |                                                                                                                                     | Cultural Heritage                | There are no recorded heritage assets within the boundaries of either this application or the Scottish Onshore Scheme with five undesignated heritage assets within the immediate vicinity. This are cist (CANMORE 52972 ), Powgild Mill (CANMORE 139299), building (CANMORE 139294), Lochgelly Raceway (CANMORE 341121) and the Lady Helen Colliery (CANMORE 131510). The Scottish Onshore Scheme, in isolation, will not affect these assets. There is the potential for groundworks associated with the two developments to combine to create a cumulative effect upon the settings of these non-designated assets. It is noted that this would be a temporary cumulative effect which would cease as soon as works associated with the Scottish Onshore Scheme move away | None proposed as this will be a minor temporary effect restricted to the construction phase. |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | from the location. It is also noted that the application is located adjacent to the A92 and will be subject to noise and dust from passing traffic which will lessen any effects. The value of the assets is low and the effect is therefore assessed to be slight, resulting in a minor temporary effect.                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                         |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories. | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | The scale of the proposed development is such that it is unlikely to generate significant noise during construction and therefore would not have significant cumulative effects with the Scottish Onshore Scheme.                                                                                                                                                                                                                                                                                                           | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                        | None                                                                                                                                                                                                                                                                                                                                                    |

| Application Reference             | Development name                                           | Description                                                                          | Development Phase                                | Location in relation to the Scottish Onshore Scheme                                                       | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Additional Mitigation |
|-----------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                   |                                                            |                                                                                      |                                                  |                                                                                                           | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None.                 |
| <b>23/02776/C ON ECU0000494 2</b> | <b>Kirklands Farm Battery Energy Storage System (BESS)</b> | Proposed 200MW battery storage system likely comprising approximately 80 containers. | Pre-application (Screening – considered non-EIA) | Approximately 1.4 km northwest of the Application Boundary and 1.5 km northwest of the Converter Station. | Landscape and Visual Amenities | <p>The Kirklands Farm Battery Energy Storage System would have direct effects on LCT 186: Lowland Hills and Valleys. There are direct effects of the Scottish Onshore Scheme on LCT 186. Shared visual receptors are likely to include viewpoints 2, 3, 5, 6 and 7.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The additional construction works from the Scottish Onshore Scheme in conjunction with the construction of Kirklands Farm BESS would increase the concentration of construction activity within a localised part of the LCT, affecting some of the perceptual characteristics of the LCT, including views across the lowland and scenic quality. The physical changes to the LCT, including vegetation removal and landform change, would be increased by the Scottish Onshore Scheme but would be highly localised. The works associated with the HVDC and HVAC cable works would not be dissimilar from agricultural works within the rural landscape so are unlikely to give rise to significant cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in combination with the construction plant and activity at Kirklands Farm BESS. Whilst this has the potential to intensify temporary construction plant and activity seen within a similar part of the view (other than from viewpoint 3 where it would appear in succession), it is not considered to result in cumulative visual effects any greater than the construction of the Scottish Onshore Scheme in isolation. Consequently, the likely cumulative effect is assessed to be not significant.</p> | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic  | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                 | <p>At operation year 1, the converter station in combination with the cumulative development would concentrate infrastructure around the existing context of Westfield Biomass Plant and Westfield Substation. This would provide further context within this part of the LCT with existing industrial influence contained by landform, vegetation and built form. The Scottish Onshore Scheme would additionally result in localised direct alteration to landform and vegetation patterns. However, due to the existing varied landform across the LCT and proposed mitigation planting, the effects would be limited. The HVAC and HVDC cable corridors would be reinstated. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the Scottish Onshore Scheme would continue to read as an extension to existing industrial infrastructure in the local landscape with established proposed planting and separated from the wider landscape by the landform at Hare Law. The likely cumulative effect is assessed to be not significant.</p> <p>At operation, the addition of the converter station in combination with the cumulative development would appear within a similar part of the view for viewpoints 2,5,6 and 7) and in succession for viewpoint 3. In all of the views the converter station would appear within the context of existing infrastructure thereby reducing the potential cumulative change. As a result, the cumulative visual effects are not considered to be any greater than the effects of the Scottish Onshore Scheme in isolation and would therefore not result in significant visual effects.</p> |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Additional Mitigation                                                                                                         |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                  | at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                               |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>LOC11 and a tributary are potential receptors of surface runoff and chemical spillage from this development. Both have been scoped out as potential receptors for the Scottish Onshore Scheme and so cannot pose a cumulative effect. No published environmental assessment is known for this development.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, and based on the available data, it is considered that there are no shared water features, thus no potential for cumulative effects.</p>                                                                      | None.                                                                                                                         |
|                       |                  |             |                   |                                                     | Cultural Heritage                | The historic environment assets within the area around this application comprise the non-designated findspots of artefacts or former industrial sites which no longer exist and there will be no cumulative effect to these. Ring-ditches (SM7604) are located to the northwest of the applications at Cumbrae House. These medium value, designated assets are located on the outskirts of Ballingry and, while the Application 23/02776/CON will likely create effects to their setting, the Scottish Onshore Scheme is located over 1 km away with intervening modern development including the Westfield substation which will screen it from the scheduled assets. Given this, there will be no cumulative effects. | No cumulative effect identified                                                                                               |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport    | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and                                                                                                                                                                                                                                                                                                                                      | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a |

| Application Reference                           | Development name       | Description                                                 | Development Phase      | Location in relation to the Scottish Onshore Scheme                                                                         | Environmental Assessment Topic  | Cumulative Assessment                                                                                                                                                                                                                                                                                                          | Additional Mitigation                                                                                                                                                                                                     |
|-------------------------------------------------|------------------------|-------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 |                        |                                                             |                        |                                                                                                                             |                                 | Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.                                                                                                                                                                                        | Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                                                 |                        |                                                             |                        |                                                                                                                             | Noise                           | The development is located 1.5km northwest of the converter station. Noise assessments for both developments do not identify any common noise sensitive receptors therefore no cumulative effects are likely to occur.                                                                                                         | None                                                                                                                                                                                                                      |
|                                                 |                        |                                                             |                        |                                                                                                                             | Geology and Ground Conditions   | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                           | None                                                                                                                                                                                                                      |
|                                                 |                        |                                                             |                        |                                                                                                                             | Climate Change                  | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                    | None.                                                                                                                                                                                                                     |
| <b>24/01866/C ON</b><br><br><b>ECU0000498 5</b> | <b>Mossmorran BESS</b> | Proposed 300MW BESS on 12 ha site comprising 256 batteries. | Application (Approved) | Approximately 1 km northwest of the Application Boundary at Auchtertool. Approximately 6 km south of the Converter Station. | Landscape and Visual Amenity    | This cumulative scheme has been scoped out of the landscape and visual cumulative assessment. The cumulative scheme is outwith the landscape and visual study area for the Scottish Onshore Scheme therefore reducing the potential for significant adverse cumulative effects.                                                | None.                                                                                                                                                                                                                     |
|                                                 |                        |                                                             |                        |                                                                                                                             | Ecology and Nature Conservation | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary | None.                                                                                                                                                                                                                     |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Additional Mitigation           |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                       |                  |             |                   |                                                     |                                  | Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>DRO1 and some small upstream tributaries are potential receptors of surface runoff and chemical spillage from this development. DRO1 has been assessed as High surface water quality importance but with mitigation measures the effects are not significant. No published environmental assessment is known, but assuming similar standards of mitigation for this construction development, this significance should be maintained.</p> <p>DRO1 and some small upstream tributaries are potential receptors of surface runoff (including the risk from chemical spillages) from this development. DRO1 has been assessed as having a high surface water quality importance, but with mitigation measures the effects of the Scottish Onshore Scheme are not significant. No published environmental assessment or Drainage Strategy is available for this development. However, assuming standard mitigation measures are applied as a minimum (as per the Scottish Onshore Scheme) no cumulative effects are predicted.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p> | None.                           |
|                       |                  |             |                   |                                                     | Cultural Heritage                | There are no recorded heritage assets located within the boundaries of this application although there are numerous historic environment assets located within the vicinity including Little Raith (LB43660) a Grade B listed building located 286m to the northeast. Groundworks from this application will likely create an effect to this setting of this medium value, designated asset. Given                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No cumulative effect identified |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | the intervening distance between this application and the Scottish Onshore Scheme, it is unlikely that groundworks associated with both developments will combine to create a cumulative effect upon Little Raith (LB43660). Several non-designated historic environment assets are located between the application and the Scottish Onshore Scheme. Given the distance between the Scottish Onshore Scheme and the Application, it is unlikely that the Scottish Onshore Scheme will combine with this application to create a cumulative effect. There will be no cumulative effect. |                                                                                                                                                                                                                                                                                                                                                         |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.                                                            | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | The development is located to the west of the proposed underground DC cable route. Due to intervening distance and proposed mitigation measures no cumulative effects are likely.                                                                                                                                                                                                                                                                                                                                                                                                      | None                                                                                                                                                                                                                                                                                                                                                    |

| Application Reference | Development name                              | Description                                                                                                 | Development Phase      | Location in relation to the Scottish Onshore Scheme                                                                        | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Additional Mitigation |
|-----------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                                               |                                                                                                             |                        |                                                                                                                            | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | None                  |
|                       |                                               |                                                                                                             |                        |                                                                                                                            | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | None.                 |
| <b>23/01697/EP N</b>  | <b>Muirhead Cardenden overhead power line</b> | Installation of an 11 kV single circuit OHL, approximately 325 metres in length, supported on wooden poles. | Application (Approved) | Located immediately south of the Application Boundary at Muirhead and approximately 4.3 km south of the Converter Station. | Landscape and Visual Amenity   | <p>The Muirhead Cardenden overhead power line would have direct effects on LCT 186: Lowland Hills and Valleys. There are direct effects of the Scottish Onshore Scheme on LCT 186. Shared visual receptors are likely to include viewpoints 10 and 11.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The works associated with the HVDC cable corridor would be in close proximity to the cumulative scheme; however, it is considered that the HVDC cable works would not be dissimilar from agricultural works within the rural landscape. This would also be in close proximity to existing energy infrastructure in the landscape, including the Glenniston substation, existing towers and OHL and Mossmorran Natural Gas Liquids Plant, and the A92 road corridor, which provides context for diminished perceptual qualities in the local landscape and therefore reduces effects on key characteristics. The works associated with the proposed converter station would be separated from the cumulative scheme by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in combination with the construction plant and activity of the Muirhead to Cardenden wood pole line. Whilst this has the potential to intensify temporary construction plant and activity seen within views, the works associated with the HVDC cable corridor would occupy a different part of the view, such that it is</p> | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | <p>not considered to result in cumulative visual effects any greater than the construction of the Scottish Onshore Scheme in isolation. Consequently, the likely cumulative effect is assessed to be not significant.</p> <p>At operation year 1 and 15, the cumulative effect on the landscape receptors would be limited as the HVDC cable corridor would be reinstated and the works associated with the proposed converter station would be separated by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, there would be no effects arising from the Scottish Onshore Scheme on shared visual receptors therefore the likely cumulative effect is assessed to be no change (not significant).</p> |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                                      | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | DEN1 is a potential receptor of surface runoff (including the risk from chemical spillages) from this development. DEN1 has been assessed as having high importance for water quality, but with mitigation measures the effects of the Scottish Onshore Scheme are not significant. No published environmental assessment for this other development is available. However, the risk for the construction of an 11kv overhead line is small and will be limited to the placement of small (likely wooded) pylons, potentially some                                                                                                                                                                                                                                                                                                       | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Additional Mitigation                                                                                                                                                                                                         |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | <p>temporary access works and general construction works but of a limited scale. Assuming standard pollution prevention measures are adopted (as is the case for the Scottish Onshore Scheme) the risk of cumulative effects during construction is very low.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p>                                                                                                     |                                                                                                                                                                                                                               |
|                       |                  |             |                   |                                                     | Cultural Heritage              | <p>There are no recorded historic environment assets within the boundaries of this application. However, the associated groundworks have the potential to combine with those of the Scottish Onshore Scheme to create a cumulative effect upon the settings of historic environment assets within the area. It is noted that these are all non-designated historic environment assets which will undergo a temporary cumulative effect which would cease as soon as works associated with the Scottish Onshore Scheme move away from the location. The assets are considered to be low value and the effect is therefore assessed to be slight, resulting in a minor temporary effect.</p> | None proposed as this will be a minor temporary effect restricted to the construction phase                                                                                                                                   |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | <p>Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.</p>                                                                                                                                                         | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development |

| Application Reference | Development name                      | Description                                                                                                                             | Development Phase              | Location in relation to the Scottish Onshore Scheme                                                                                            | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Additional Mitigation                                                                                                     |
|-----------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                       |                                       |                                                                                                                                         |                                |                                                                                                                                                |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                                       |                                                                                                                                         |                                |                                                                                                                                                | Noise                          | The proposed development comprises a small scale diversion of a wood pole line and is unlikely to combine with installation of the proposed underground DC cable route to result in cumulative effects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | None                                                                                                                      |
|                       |                                       |                                                                                                                                         |                                |                                                                                                                                                | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | None                                                                                                                      |
|                       |                                       |                                                                                                                                         |                                |                                                                                                                                                | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | None.                                                                                                                     |
| <b>25/00983/C ON</b>  | <b>Former Fife Power Station BESS</b> | Battery energy storage system and associated infrastructure with a generating capacity of up to 100MW at the Former Fife Power Station. | Pre-application (Consultation) | Approximately 330 m northwest of the Application Boundary to the east of Ballingry and approximately 530 m northwest of the Converter Station. | Landscape and Visual Amenity   | <p>The Former Fife Power Station BESS would have direct effects on LCT 186: Lowland Hills and Valleys. There are direct effects of the Scottish Onshore Scheme on LCT 186. Shared visual receptors are likely to include viewpoints 2, 3, 5, 6 and 7.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The additional construction works from the Scottish Onshore Scheme in conjunction with the construction of the Former Fife Power Station BESS would increase the concentration of construction activity within a localised part of the LCT, affecting some perceptual characteristics of the LCT, including views across the lowland and scenic quality. The physical changes to the LCT, including vegetation removal and landform change, would be increased by the Scottish Onshore Scheme but would be highly localised. The</p> | None.                                                                                                                     |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                | <p>works associated with the HVDC and HVAC cable works would not be dissimilar from agricultural works within the rural landscape so are unlikely to give rise to significant cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in combination with the construction plant and activity at the Former Fife Power Station BESS. Whilst this has the potential to intensify temporary construction plant and activity within a similar part of the view, it is not considered to result in cumulative visual effects any greater than the construction of the Scottish Onshore Scheme in isolation. Consequently, the r likely cumulative effect is assessed to be not significant.</p> <p>At operation year 1, the converter station in combination with the cumulative development would concentrate infrastructure around the existing context of Westfield Biomass Plant and Westfield Substation. This would provide further context within this part of the LCT with existing industrial influence contained by landform, vegetation and built form. The Scottish Onshore Scheme would additionally result in localised direct alteration to landform and vegetation patterns. However. due to the existing varied landform across the LCT and proposed mitigation planting, the effects would be limited. The HVAC and HVDC cable corridors would be reinstated. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the Scottish Onshore Scheme would continue to read as an extension to existing industrial infrastructure in the local landscape with established proposed planting and separated from the wider landscape by the landform at Hare Law. The likely cumulative effect is assessed to be not significant.</p> <p>At operation (year 1 and 15), the addition of the converter station in combination with the cumulative development would appear</p> |                       |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | <p>within a similar part of the view as existing infrastructure including Wesfield substation and Biomass Plant (viewpoints 2,3,5,6 and 7). As a result, the cumulative visual effects are not considered to be any greater than the effects of the Scottish Onshore Scheme in isolation and would therefore not result in significant visual effects.</p>                                                                                                                                                                                                                                                                                                          |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | <p>As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b>, there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.</p>                           | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>LOC11 is a potential receptor of surface runoff and chemical spillage from this development. LOC11 has been scoped out as a potential receptor for the Scottish Onshore Scheme and so cannot pose a cumulative effect. A drainage strategy for this development has been produced but is currently unavailable for access.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, and based on the available data, it is considered that there are no shared water features, thus no potential for cumulative effects.</p> | None.                 |
|                       |                  |             |                   |                                                     | Cultural Heritage                | <p>The historic environment assets within the area comprise the non-designated comprising findspots of artefacts or former industrial sites which no longer exist and there will be no cumulative effect to these. Ring-ditches (SM7604) are located to the northwest of the applications at Cumbræ House. These designated assets of high</p>                                                                                                                                                                                                                                                                                                                      | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | value are located on the outskirts of Ballingry and, while the Application (25/00983/CON) will likely create effects to their setting, the Scottish Onshore Scheme is located over 1 km away with intervening modern development including the Westfield substation which will screen it from the scheduled assets. Given this, there will be no cumulative effects.                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                         |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories. | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                  |             |                   |                                                     | Noise                          | Should construction of the application occur in parallel with construction of the converter station there is the potential for cumulative noise effects, however, with the implementation of mitigation cumulative effects are unlikely to be significant.                                                                                                                                                                                                                                                                  | None                                                                                                                                                                                                                                                                                                                                                    |
|                       |                  |             |                   |                                                     | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                        | None                                                                                                                                                                                                                                                                                                                                                    |

| Application Reference             | Development name       | Description                                                                                                                                                                                        | Development Phase           | Location in relation to the Scottish Onshore Scheme                                                                                            | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Additional Mitigation |
|-----------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                   |                        |                                                                                                                                                                                                    |                             |                                                                                                                                                | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | None.                 |
| <b>25/00409/C ON ECU0000605 0</b> | <b>Glenniston BESS</b> | Proposed battery energy storage system with a generating capacity of approximately up to 100 megawatts (MW), comprising of battery-based electricity storage containers and an on-site substation. | Pre-application (Screening) | Located immediately to the west of the Application Boundary at Little Glenniston Farm and approximately 5.4 km south of the Converter Station. | Landscape and Visual Amenities | <p>The Glenniston BESS would have direct effects on LCT 186: Lowland Hills and Valleys. There are direct effects of the Scottish Onshore Scheme on LCT 186. Shared visual receptors are likely to include viewpoints 10 and 11.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The works associated with the HVDC cable corridor would be in close proximity to the cumulative scheme; however, it is considered that the HVDC cable works would not be dissimilar from agricultural works within the rural landscape. This would also be in close proximity to existing energy infrastructure in the landscape, including the Glenniston substation, existing towers and OHL and Mossmorran Natural Gas Liquids Plant, and the A92 road corridor, which provides context for diminished perceptual qualities in the local landscape and therefore reduces effects on key characteristics. The works associated with the proposed converter station would be separated from the cumulative scheme by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in views from viewpoints 10 and 11 in combination with the potential construction of Glenniston BESS. The additional construction plant and activity associated with the HVDC cable corridor would continue to not be dissimilar to existing agricultural practices across this landscape and further urbanising context would be given to the view by the cumulative scheme and would be of a short duration therefore reducing the cumulative magnitude of change in the views, therefore lessening the degree</p> | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | <p>of contrast. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the cumulative effect on the landscape receptors would be limited as the HVDC cable corridor would be reinstated and the works associated with the proposed converter station would be separated by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, there would be no effects arising from the Scottish Onshore Scheme on shared visual receptors therefore the likely cumulative effect is assessed to be no change (not significant).</p> |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                          | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | DEN1 and DEN2 are potential receptors of surface runoff and chemical spillage from this development, as well as some small tributaries and smaller water features scoped out for assessment as unimpacted by the Scottish Onshore Scheme. DEN1 has been assessed as having high water quality importance and DEN2 has been assessed as medium water quality importance, but with mitigation measures the effects of the Scottish Onshore Scheme are not significant for both. Assuming standard measures to manage the risk of pollution of the water environment during construction are implemented for this other development as a                                                        | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Additional Mitigation                                                                        |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | <p>minimum, no cumulative effects are predicted. No Environmental Impact Assessment has been prepared for this development specifically, but the associated Glenniston Solar Farm states that surface water run-off will be filtered into drains and then be routed to soakaways adjacent to surrounding compounds, and that a Drainage &amp; Hydrology Assessment has been undertaken to ensure mitigation of potential impacts on the water environment.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p>                                                                                                                                                                                                                                                                                                                                                                 |                                                                                              |
|                       |                  |             |                   |                                                     | Cultural Heritage              | <p>This application incorporates part of the Scottish Onshore Scheme with the A92 included as part of the access. The access also includes the lane extending south to Little Glenniston. There are two non-designated historic environment assets recorded within the Glenniston BESS application boundary – building at Cowford (CANMORE 139294) and the Glenniston Limeworks (CANMORE 139289). Also within the vicinity of the Glenniston BESS and Scottish Onshore Scheme are three further non-designated historic environment assets – Powgild Mill (CANMORE 139299), building (CANMORE 139316), corn drying kiln (CANMORE 139317) and bridge (CANMORE 224100). There is the potential for groundworks associated with the two developments to combine to create cumulative effect upon the settings of these assets. It is noted that this would be a temporary cumulative effect which would cease as soon as works associated with the Scottish Onshore Scheme move away from the location. The historic environment assets are all low value so the effect is therefore assessed to be slight, resulting in a minor temporary effect.</p> | None proposed as this will be a minor temporary effect restricted to the construction phase. |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | <p>Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Any interaction of the Scottish Onshore Scheme construction                                  |

| Application Reference | Development name         | Description                                                       | Development Phase | Location in relation to the Scottish Onshore Scheme          | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                         | Additional Mitigation                                                                                                                                                                                                                                                                       |
|-----------------------|--------------------------|-------------------------------------------------------------------|-------------------|--------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                          |                                                                   |                   |                                                              |                                | Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories. | traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                          |                                                                   |                   |                                                              | Noise                          | Should construction of the application occur in parallel with installation of the proposed underground DC cable there is the potential for cumulative noise effects, however, with the implementation of mitigation cumulative effects are unlikely to be significant.                                                        | None                                                                                                                                                                                                                                                                                        |
|                       |                          |                                                                   |                   |                                                              | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                        |
|                       |                          |                                                                   |                   |                                                              | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                   | None.                                                                                                                                                                                                                                                                                       |
| <b>25/00615/C ON</b>  | <b>Glenniston 2 BESS</b> | Proposed BESS with a storage capacity of up to 300 megawatts (MW) |                   | Located immediately to the west of the Application Boundary, | Landscape and Visual Amenity   | The Glenniston 2 BESS would have direct effects on LCT 186: Lowland Hills and Valleys and LCT 191: Lowland Loch Basins - Fife. There are direct effects of the Scottish Onshore Scheme on LCT                                                                                                                                 | None.                                                                                                                                                                                                                                                                                       |

| Application Reference         | Development name | Description                                                                                                                                                                                                                                                                                   | Development Phase           | Location in relation to the Scottish Onshore Scheme                                                 | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Additional Mitigation |
|-------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>ECU0000608</b><br><b>1</b> |                  | and associated infrastructure. The development would be located on two areas of agricultural grazing land, divided by the A92 trunk road with an indicative cable route boundary stretching from these areas to the Mossmorran Substation. The site comprises approximately 64.48 ha of land. | Pre-application (Screening) | approximately 300 m northwest of Powgild Farm. Approximately 4.2 km south of the Converter Station. |                                | <p>186 and indirect effects on LCT 191. Shared visual receptors are likely to include viewpoints 10, 11 and 12.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The works associated with the HVDC cable corridor would be in close proximity to the cumulative scheme; however, it is considered that the HVDC cable works would not be dissimilar from agricultural works within the rural landscape. This would also be in close proximity to existing energy infrastructure in the landscape, including the Glenniston substation, existing towers and OHL and Mossmorran Natural Gas Liquids Plant, and the A92 road corridor, which provides context for diminished perceptual qualities in the local landscape and therefore reduces effects on key characteristics. The works associated with the proposed converter station would be separated from the cumulative scheme by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in succession from viewpoints 10, 11 and 12 in conjunction with the potential construction of Glenniston 2 BESS. The additional construction plant and activity associated with the HVDC cable corridor would not be dissimilar to existing agricultural practices across this landscape and would be of a short duration therefore reducing the cumulative magnitude of change in the views. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the cumulative effect on the landscape receptors would be limited as the HVDC cable corridor would be reinstated and the works associated with the proposed converter station would be separated by distance, landform and built form,</p> |                       |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | <p>which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, there would be no effects arising from the Scottish Onshore Scheme on shared visual receptors therefore the likely cumulative effect is assessed to be no change (not significant).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | <p>As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b>, there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.</p>                                                                                                                                                                                                                                                                                                                                                         | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>DRO1, DEN1 and DEN3 are potential receptors of surface runoff and chemical spillage from this development. DEN3 has been scoped out as a potential receptor for the Scottish Onshore Scheme. DRO1 and DEN1 have both been assessed as high surface water quality importance. but with mitigation measures the effects of the Scottish Onshore Scheme are not significant. Assuming standard measures to manage the risk of pollution of the water environment during construction are implemented for this other development as a minimum, no cumulative effects are predicted. No environmental impact assessment has been conducted for this development specifically, but the associated Glenniston Solar Farm states that surface water run-off will be filtered into drains and then be routed to soakaways adjacent to surrounding compounds, and that a Drainage &amp; Hydrology Assessment has been undertaken to ensure mitigation of potential impacts on the water environment.</p> |                       |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Additional Mitigation                                                                                                                                                                                                                                                                                                       |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p>                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                             |
|                       |                  |             |                   |                                                     | Cultural Heritage              | <p>While there are no recorded historic environment assets within the boundaries of this application, the associated groundworks have the potential to combine with those of the Scottish Onshore Scheme to create a cumulative effect upon the settings of historic environment assets within the area. It is noted that these are all non-designated historic environment assets of low value which will undergo a temporary cumulative effect which would cease as soon as works associated with the Scottish Onshore Scheme move away from the location. The effect is therefore assessed to be slight, resulting in a minor temporary effect.</p> | <p>None proposed as this will be a minor temporary effect restricted to the construction phase.</p>                                                                                                                                                                                                                         |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | <p>Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.</p>                                                                                                                     | <p>Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and</b></p> |

| Application Reference | Development name                                       | Description                                                                                                                                                                                                            | Development Phase     | Location in relation to the Scottish Onshore Scheme                                                                                        | Environmental Assessment Topic  | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Additional Mitigation                    |
|-----------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
|                       |                                                        |                                                                                                                                                                                                                        |                       |                                                                                                                                            |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Transport (Volume 4: Appendices).</b> |
|                       |                                                        |                                                                                                                                                                                                                        |                       |                                                                                                                                            | Noise                           | Should construction of the application occur in parallel with installation of the proposed underground DC cable there is the potential for cumulative noise effects, however, with the implementation of mitigation cumulative effects are unlikely to be significant.                                                                                                                                                                                                                                                                                                                                                              | None                                     |
|                       |                                                        |                                                                                                                                                                                                                        |                       |                                                                                                                                            | Geology and Ground Conditions   | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | None                                     |
|                       |                                                        |                                                                                                                                                                                                                        |                       |                                                                                                                                            | Climate Change                  | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | None.                                    |
| 25/01221/F ULL        | Erection of 4 no. dwellinghouses, and associated works | A total of 4 no. dwelling houses on residential plots varying in size from 974.1m <sup>2</sup> to 1313.2m <sup>2</sup> have been proposed. Two house types are being advanced, both of which are 1.5 storey in height. | Application (Pending) | Located immediately south of the Application Boundary on the south side of the A92 and approximately 4.3 km south of the Converter Station | Landscape and Visual Amenity    | This cumulative scheme has been scoped out of the landscape and visual cumulative assessment. This is due to difference in the type and scale of development between this cumulative scheme and the Scottish Onshore Scheme reducing the potential for significant adverse cumulative effects.                                                                                                                                                                                                                                                                                                                                      | None.                                    |
|                       |                                                        |                                                                                                                                                                                                                        |                       |                                                                                                                                            | Ecology and Nature Conservation | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified. | None.                                    |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                        |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>No watercourses are identified as potential receptors for this construction development, which is of a small scale and unlikely to have significant adverse effects on the water environment. No published environmental assessment is known for this development.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | None.                                                                                        |
|                       |                  |             |                   |                                                     | Cultural Heritage                | <p>There are no recorded heritage assets within the boundaries of this application or the Scottish Onshore Scheme with five non-designated heritage assets within the immediate vicinity. There is the potential for groundworks associated with the two developments to combine to create a cumulative effect upon the settings of these non-designated assets. It is assessed that this cumulative effect to setting would represent a perceptible, temporary level of change that would slightly alter the visual outlook and setting by adding dust and noise. It would not affect the principal heritage value of these assets, which is derived from historic and aesthetic values. It is noted that this would be a temporary cumulative effect which would cease as soon as works associated with the Scottish Onshore Scheme move away from the location. It is also noted that the application is located adjacent to the A92 and will be subject to noise and dust from passing traffic which will lessen any effects. The assets are all low value so the effect is therefore assessed to be slight, resulting in a minor temporary effect.</p> | None proposed as this will be a minor temporary effect restricted to the construction phase. |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport    | <p>Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative          |

| Application Reference | Development name                                        | Description                                                                                                                                                                        | Development Phase              | Location in relation to the Scottish Onshore Scheme                                                                                                                                           | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Additional Mitigation                                                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                                                         |                                                                                                                                                                                    |                                |                                                                                                                                                                                               |                                | Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.                                                                                                                                                                                                                                                                                                                                  | developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                                                         |                                                                                                                                                                                    |                                |                                                                                                                                                                                               | Noise                          | The scale of the application means that cumulative noise effects in combination with the Scottish Onshore Scheme are unlikely to occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | None                                                                                                                                                                                                                                                                |
|                       |                                                         |                                                                                                                                                                                    |                                |                                                                                                                                                                                               | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                            | None                                                                                                                                                                                                                                                                |
|                       |                                                         |                                                                                                                                                                                    |                                |                                                                                                                                                                                               | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | None.                                                                                                                                                                                                                                                               |
| <b>25/00552/P AN</b>  | <b>Data centre on land to the north of Camilla Road</b> | Data complex of data halls, cooling plant, electricity substations, emergency plant, gatehouse, access roads, parking, fencing, pond and associated landscaping and infrastructure | Pre-application (Consultation) | Located immediately west of the Application Boundary at the access track between Camilla Loch to the north and Auchtertool to the south. Approximately 6.2 km south of the Converter Station. | Landscape and Visual Amenity   | <p>The data centre on land to the north of Camilla Road would have direct effects on LCT 185: Pronounced Hills and Craggs, LCT 186: Lowland Hills and Valleys and the Cullaloe Hills and Coast LLA. There are direct effects of the Scottish Onshore Scheme on LCTs 185 and 186 and indirect effects on the LLA. Shared visual receptors are likely to include viewpoints 10, 11 and 12.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The works associated with the</p> | None.                                                                                                                                                                                                                                                               |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                | <p>HVDC cable corridor would be in close proximity to the cumulative scheme; however, it is considered that the HVDC cable works would not be dissimilar from agricultural works within the rural landscape. This would also be in close proximity to existing energy infrastructure in the landscape, including the Glenniston substation, existing towers and OHL and Mossmorran Natural Gas Liquids Plant, which provides context for diminished perceptual qualities in the local landscape and therefore reduces effects on key characteristics. The works associated with the proposed converter station would be separated from the cumulative scheme by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in succession from viewpoints 10, 11 and 12 in conjunction with the potential construction of the Data centre. The additional construction plant and activity associated with the HVDC cable corridor would not be dissimilar to existing agricultural practices across this landscape and would be of a short duration therefore reducing the cumulative magnitude of change in the views. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the cumulative effect on the landscape receptors (excluding Cullaloe Hills and Coast LLA) would be limited as the HVDC cable corridor would be reinstated and the works associated with the proposed converter station would be separated by distance, landform and built form, which would limit any perceived cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, there would be no effects arising from the Scottish Onshore Scheme on shared visual receptors and Cullaloe Hills and Coast LLA therefore the likely cumulative effect is assessed to be no change (not significant).</p> |                       |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>DRO1 and DRO3 are potential receptors for surface runoff and chemical spillage from this development, upstream from the Scottish Onshore Scheme. This could lead to a greater accumulation of sediment and pollutants. DRO3 has been scoped out as a potential receptor for the Scottish Onshore Scheme. DRO1 has been assessed as High surface water quality importance but with mitigation measures the effects are not significant. No published environmental assessment is known, but assuming standard mitigation for the management of pollution risks during construction will also be applied to this development.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p> <p>Data centres often require large volumes of water for cooling purposes. It is not known where water will be obtained from for this development in the long term. However, as the Scottish Onshore Scheme's impacts on DR01 and DR03 are limited to construction works no cumulative effects during the future operation of this data centre development are anticipated.</p> | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Additional Mitigation                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     | Cultural Heritage              | There are nine non-designated historic environment assets within the vicinity with four of these located within the boundaries of the application (25/00552/PAN) – castle (CANMORE 52987), building (CANMORE 1392370, milestone (CANMORE 305826) and mill site (CANMORE 139255). All the non-designated historic environment assets are considered to be low value. Vehicles using the track to access the Scottish Onshore Scheme will create noise and dust that could combine with noise and dust from the application (25/00552/PAN) to create a cumulative effect upon the settings of the nine non-designated historic environment assets. It would not affect the principal heritage value of these assets, which is derived from historic values. It is noted that this would be a temporary cumulative effect which would cease as soon as works associated with the Scottish Onshore Scheme move away from the location. The effect is therefore assessed to be slight, resulting in a minor temporary effect. | None proposed as this will be a minor temporary effect restricted to the construction phase                                                                                                                                                                                                                                                             |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |

| Application Reference | Development name                      | Description                                                                                                                                                         | Development Phase      | Location in relation to the Scottish Onshore Scheme                                                                                                                           | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Additional Mitigation |
|-----------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                                       |                                                                                                                                                                     |                        |                                                                                                                                                                               | Noise                            | Should construction of the application occur in parallel with installation of the proposed underground DC cable there is the potential for cumulative noise effects, however, a combination of intervening and distance and with the implementation of mitigation cumulative effects are unlikely to be significant.                                                                                                                                                                                                                                                                                                                | None                  |
|                       |                                       |                                                                                                                                                                     |                        |                                                                                                                                                                               | Geology and Ground Conditions    | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | None                  |
|                       |                                       |                                                                                                                                                                     |                        |                                                                                                                                                                               | Climate Change                   | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | None.                 |
|                       |                                       |                                                                                                                                                                     |                        |                                                                                                                                                                               |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |
| 24/03346/N<br>EA      | Tealing to Kincardine upgrade project | Three new spans of overhead line supported by two temporary masts between existing towers CP039 and CP041 at approximate grid references NT19079110 and NT19289115. | Application (Approved) | Forms part of the Mossmorran Substation upgrade, approximately 200 m southwest of the Application Boundary at Auchtertool. Approximately 6 km south of the Converter Station. | Landscape and Visual Amenity     | This cumulative scheme has been scoped out of the landscape and visual cumulative assessment. The cumulative scheme is outwith the landscape and visual study area for the Scottish Onshore Scheme therefore reducing the potential for significant adverse cumulative effects.                                                                                                                                                                                                                                                                                                                                                     | None.                 |
|                       |                                       |                                                                                                                                                                     |                        |                                                                                                                                                                               | Ecology and Nature Conservation  | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified. | None.                 |
|                       |                                       |                                                                                                                                                                     |                        |                                                                                                                                                                               | Water Environment and Flood Risk | DRO1 is a potential receptor of surface runoff (including the risk from chemical spillages) from this development. DRO1 has been assessed as having a high surface water quality importance, but with mitigation measures the effects of the Scottish Onshore Scheme are not significant. An Environmental Impact Assessment is being prepared but not yet published for this development.                                                                                                                                                                                                                                          | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Additional Mitigation                                                                                  |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | <p>However, assuming standard mitigation measures are applied as a minimum (as per the Scottish Onshore Scheme) no cumulative effects are predicted.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                        |
|                       |                  |             |                   |                                                     | Cultural Heritage              | <p>This application comprises three spans of overhead line supported by two temporary masts between existing towers as part of the Mossmorran Substation upgrade located approximately 200 m southwest of the Scottish Onshore Scheme at Auchtertool. The Scottish Onshore Scheme comprises the access track between Camilla Loch to the north and Auchtertool to the south at this point. Vehicles using the track to access the Scottish Onshore Scheme will create noise and dust that could combine with noise and dust from the application (24/03346/NEA) to create a cumulative effect upon the settings of the nine non-designated historic environment assets in the vicinity. It would not affect the principal heritage value of these assets, which is derived from historic values. It is noted that this would be a temporary cumulative effect which would cease as soon as works associated with the Scottish Onshore Scheme moves away from the area. Application (24/03346/NEA) is on the outskirts of Auchtertool which is subject to noise and vibration from this urban environment. This will reduce the cumulative effect which is assessed to be slight, resulting in a minor temporary effect.</p> | None proposed as this will be a minor temporary effect restricted to the construction phase            |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport  | <p>Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would |

| Application Reference | Development name                                                               | Description                                                                                                         | Development Phase            | Location in relation to the Scottish Onshore Scheme                                                                           | Environmental Assessment Topic  | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                | Additional Mitigation                                                                                                                                                                                                                            |
|-----------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                                                                                |                                                                                                                     |                              |                                                                                                                               |                                 | Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.                                                                                                                                                                                                  | be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                                                                                |                                                                                                                     |                              |                                                                                                                               | Noise                           | A combination of intervening distance and with the implementation of mitigation means cumulative effects are unlikely to be significant.                                                                                                                                                                                                                                                             | None                                                                                                                                                                                                                                             |
|                       |                                                                                |                                                                                                                     |                              |                                                                                                                               | Geology and Ground Conditions   | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                             |
|                       |                                                                                |                                                                                                                     |                              |                                                                                                                               | Climate Change                  | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                          | None.                                                                                                                                                                                                                                            |
| 25/01519/P<br>AN      | Residential development on land to the west of North Dundonald Farm, Cardenden | Including commercial, formation of accesses, landscaping, open space, drainage and other associated infrastructure. | Pre-application (Registered) | Located approximately 460 m to the east of the Application Boundary. Approximately 3.5 km southeast of the Converter Station. | Landscape and Visual Amenity    | This cumulative scheme has been scoped out of the landscape and visual cumulative assessment due to a lack of information at the screening stage to reasonably undertake a cumulative assessment.                                                                                                                                                                                                    | None.                                                                                                                                                                                                                                            |
|                       |                                                                                |                                                                                                                     |                              |                                                                                                                               | Ecology and Nature Conservation | As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b> , there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised | None.                                                                                                                                                                                                                                            |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Additional Mitigation                                                                                                                                                                  |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                  | at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>DEN1 and ORE3 are identified as potential receptors for surface runoff and chemical spillage from this development. ORE3 has been scoped out as a potential receptor for the Scottish Onshore Scheme, but it is a tributary of ORE1 downstream and so ORE1 may be at risk of these effects. Both ORE1 and DEN1 have high importance for surface water quality, but with mitigation measures the effects of the Scottish Onshore Scheme are not significant. An Environmental Impact Assessment is being considered by Fife Council but not currently publicly available. Assuming similar standards of mitigation for this development as the Scottish Onshore Scheme, no cumulative effects are predicted.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p> | None.                                                                                                                                                                                  |
|                       |                  |             |                   |                                                     | Cultural Heritage                | Given the distance between this application and the Scottish Onshore Scheme, as well as the adjacent urban setting, it is assessed that there will be no cumulative effects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No cumulative effect identified                                                                                                                                                        |
|                       |                  |             |                   |                                                     | Access, Traffic and Transport    | Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework |

| Application Reference | Development name      | Description                                                                                                                                                                                                                 | Development Phase           | Location in relation to the Scottish Onshore Scheme                                                                           | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Additional Mitigation                                                                                                                                            |
|-----------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                       |                                                                                                                                                                                                                             |                             |                                                                                                                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CTMP along with cumulative development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices)</b> . |
|                       |                       |                                                                                                                                                                                                                             |                             |                                                                                                                               | Noise                          | The application is located to the east of the proposed underground DC cable route. Cumulative effects could occur should construction periods overlap, however, a combination of the intervening distance and the implementation of mitigation means cumulative effects are unlikely to be significant.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | None                                                                                                                                                             |
|                       |                       |                                                                                                                                                                                                                             |                             |                                                                                                                               | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | None                                                                                                                                                             |
|                       |                       |                                                                                                                                                                                                                             |                             |                                                                                                                               | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | None.                                                                                                                                                            |
| <b>ECU0000621 3</b>   | <b>Westfield BESS</b> | Battery energy storage system with a generating capacity of approximately up to 360 megawatts (MW), comprising of: 144 No. prefabricated containerised modular Battery Energy Storage Systems (BESS); 72 No. Medium Voltage | Pre-application (Screening) | Located approximately 400 m north of the Application Boundary and the Converter Station, on the other side of the B9097 road. | Landscape and Visual Amenity   | <p>The Westfield BESS would have direct effects on LCT 185: Pronounced Hills and Crags and LCT 186: Lowland Hills and Valleys. There are direct effects of the Scottish Onshore Scheme on LCTs 185 and 186. Shared visual receptors are likely to include viewpoints 2, 3, 5, 6 and 7.</p> <p>During construction, the cumulative effect on the landscape receptors is unlikely to be greater than the effects in isolation of the Scottish Onshore Scheme. The additional construction works from the Scottish Onshore Scheme in conjunction with the construction of Westfield BESS would increase the concentration of construction activity within a localised part of the LCT, affecting some perceptual characteristics of the LCTs, including views</p> | None.                                                                                                                                                            |

| Application Reference | Development name | Description                      | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Additional Mitigation |
|-----------------------|------------------|----------------------------------|-------------------|-----------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  | Switchgear; a 400 kV substation. |                   |                                                     |                                | <p>across the lowland and scenic quality. The physical changes to LCT 186, including vegetation removal and landform change, would be increased by the Scottish Onshore Scheme but would be highly localised.. The works associated with the HVDC and HVAC cable works would not be dissimilar from agricultural works within the rural landscape so are unlikely to give rise to significant cumulative effects. The likely cumulative effect is assessed to be not significant.</p> <p>For visual receptors during construction, the additional construction works from the Scottish Onshore Scheme would appear in combination with the construction plant and activity at Westfield BESS. Whilst this has the potential to intensify temporary construction plant and activity seen within a similar part of the view, it is not considered to result in cumulative visual effects any greater than the construction of the Scottish Onshore Scheme in isolation. Consequently, the likely cumulative effect is assessed to be not significant.</p> <p>At operation year 1, the converter station in combination with the cumulative development would concentrate infrastructure around the existing context of Westfield Biomass Plant and Westfield Substation. This would provide further context within this part of the LCT with existing industrial influence contained by landform, vegetation and built form. The Scottish Onshore Scheme would additionally result in localised direct alteration to landform and vegetation patterns. However. due to the existing varied landform across the LCT and proposed mitigation planting, the effects would be limited. The HVAC and HVDC cable corridors would be reinstated. The likely cumulative effect is assessed to be not significant.</p> <p>At operation year 15, the Scottish Onshore Scheme would continue to read as extension to existing industrial infrastructure in the local landscape with established proposed planting and</p> |                       |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic   | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Additional Mitigation |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                       |                  |             |                   |                                                     |                                  | <p>separated from the wider landscape by the landform at Hare Law. The likely cumulative effect is assessed to be not significant.</p> <p>At operation, the addition of the converter station in combination with the cumulative development would appear within a similar part of the view as the existing Westfield substation and Biomass Plant (viewpoints 2,3,5,6 and 7) with the cumulative development occupying a larger horizontal extent of the view. As a result, the cumulative visual effects are not considered to be any greater than the effects of the Scottish Onshore Scheme in isolation and would therefore not result in significant visual effects.</p>                                                                                                                                                               |                       |
|                       |                  |             |                   |                                                     | Ecology and Nature Conservation  | <p>As noted in <b>Chapter 7: Ecology and Nature Conservation (Volume 2: Main Report)</b>, there are no significant residual effects on any ecological features from the Scottish Onshore Scheme. The only effect that is considered during cumulative assessment is disturbance of roosting bats, assessed as having a Temporary Adverse Effect of Local Significance. This effect is highly localised at a specific potential roost near Kilrie and none of the developments considered for cumulative assessment are located around this part of the site. Therefore no likely significant cumulative effects have been identified.</p>                                                                                                                                                                                                    | None.                 |
|                       |                  |             |                   |                                                     | Water Environment and Flood Risk | <p>LOC1, LOC2, LOC3, LOC4, LOC5, LOC6 and LOC7 are identified as potential receptors for surface runoff (including the risk from chemical spillages) from this development. LOC1, LOC2, LOC3, LOC4, LOC6 and LOC7 have all been scoped out as potential receptors for the Scottish Onshore Scheme and so cannot pose a cumulative effect. LOC5 has been assessed as Low surface water quality importance, and the effects are deemed not significant. An Environmental Impact Assessment is being prepared but not yet published for the associated substation extension but not proposed separately for this development. Assuming similar standards of mitigation for this construction development, this significance should be maintained. If this scheme drains in the long term into shared watercourses there could be cumulative</p> | None.                 |

| Application Reference | Development name | Description | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Additional Mitigation                                                                                                                                                                                             |
|-----------------------|------------------|-------------|-------------------|-----------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                  |             |                   |                                                     |                                | <p>impacts from urban runoff and risk of spillages (e.g. oils in transformers). However, through application of a suitable drainage system with treatment and mitigation measures the risk can be effectively managed. It is assumed that would be the case for this development as it is proposed for the associated substation extension.</p> <p>No increase in groundwater, hydromorphology nor flood risk impacts are deemed likely as the implementation of appropriate mitigation is assumed for this development.</p> <p>Overall, with standard mitigation to manage the risk of water pollution during construction no cumulative effects are predicted.</p> |                                                                                                                                                                                                                   |
|                       |                  |             |                   | Cultural Heritage                                   |                                | <p>This application is located to the north of the Scottish Onshore Scheme within the former Fife Power Station. While there are no recorded historic environment assets, within the boundaries of the application, the associated groundworks have the potential to combine with those of the Scottish Onshore Scheme to create a cumulative effect upon the settings of historic environment assets within the area. The majority of these are non-designated comprising findspots of artefacts or former industrial sites which no longer exist. As such, there will be no cumulative effect on these historic environment assets.</p>                            | None.                                                                                                                                                                                                             |
|                       |                  |             |                   | Access, Traffic and Transport                       |                                | <p>Cumulative assessment for this environmental topic has been undertaken in <b>Chapter 10: Access, Traffic and Transport (Volume 2: Main Report)</b> taking into account six effect categories: Severance of Communities, Fear and Intimidation On and By Road Users, Road User and Pedestrian Safety, Non-motorised User Amenity, Non-motorised User and Delay, and Road Vehicle and Passenger Delay. Prior to mitigation, potential cumulative effects of moderate significance are identified for five out six categories.</p>                                                                                                                                   | Any interaction of the Scottish Onshore Scheme construction traffic with cumulative developments would be mitigated through a Construction Traffic Management Plan (CTMP). A framework CTMP along with cumulative |

| Application Reference | Development name                                               | Description                                                                                                                                                                                                                                                                                                    | Development Phase            | Location in relation to the Scottish Onshore Scheme                             | Environmental Assessment Topic | Cumulative Assessment                                                                                                                                                                                                                                      | Additional Mitigation                                                                                                                |
|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|                       |                                                                |                                                                                                                                                                                                                                                                                                                |                              |                                                                                 |                                |                                                                                                                                                                                                                                                            | development construction traffic numbers are included in <b>Appendix 10.1: Access, Traffic and Transport (Volume 4: Appendices).</b> |
|                       |                                                                |                                                                                                                                                                                                                                                                                                                |                              |                                                                                 | Noise                          | Should construction of the application occur in parallel with construction of the converter station there is the potential for cumulative noise effects, however, with the implementation of mitigation cumulative effects are unlikely to be significant. | None                                                                                                                                 |
|                       |                                                                |                                                                                                                                                                                                                                                                                                                |                              |                                                                                 | Geology and Ground Conditions  | No cumulative effects will occur on geology and ground conditions. Effects from the Scottish Onshore Scheme are limited to the application boundary.                                                                                                       | None                                                                                                                                 |
|                       |                                                                |                                                                                                                                                                                                                                                                                                                |                              |                                                                                 | Climate Change                 | No cumulative effects identified in the climate assessment.                                                                                                                                                                                                | None.                                                                                                                                |
| <b>25/01404/F ULL</b> | <b>Residential development south of Hall Street, Lochgelly</b> | Erection of 45 affordable dwellings comprising 7 dwellinghouses (Class 9), 38 flatted dwellings (Sui Generis) including 2.no ground floor retail units (Class 1A) with boundary enclosures and amenity storage, formation of new access road, footpaths and car parking and associated drainage, landscape and | Pre-application (Registered) | Located approximately 1.3 km west of the Application Boundary within Lochgelly. |                                | Scoped out of assessment due to distance from Application Boundary                                                                                                                                                                                         |                                                                                                                                      |

| Application Reference | Development name | Description                         | Development Phase | Location in relation to the Scottish Onshore Scheme | Environmental Assessment Topic | Cumulative Assessment | Additional Mitigation |
|-----------------------|------------------|-------------------------------------|-------------------|-----------------------------------------------------|--------------------------------|-----------------------|-----------------------|
|                       |                  | renewable technology infrastructure |                   |                                                     |                                |                       |                       |