



Denny to Wishaw Network Upgrade

Changes to Project Scope

June 2026



Denny to Wishaw Network Upgrade (“DWNO” / the “Project”)

Changes to the Scope of the Project

1. Introduction

Since the submission of a request for a Scoping Opinion by SPT to the ECU (accompanied by the Scoping Report at Appendix 2.2 of the EIA Report), Scoping consultation and issuing of the Scoping Opinion for the Project by the ECU (see Appendix 2.3 of the EIA Report) and completion of the pre-application consultation on DWNO, certain changes have been made to the scope of the Project. The purpose of this document is to identify the changes to the scope of the Project and explain the reasons for those changes. Components of the Project which are not mentioned in this document have not changed and are as described in Chapter 4 of the EIA Report.

2. Reasons for change

The changes to the scope of the Project relate to works at the Easterhouse Substation, Newarthill Substation, Wishaw Substation, Denny North Substation all to be undertaken by SPT, and Distribution Line Works to be undertaken by SP Distribution plc (“**SPD**”).

Broadly speaking, the changes to the scope of the project fall into four categories:

- a. Works excluded from the scope of the project on the basis they are no longer being progressed (“**Cancelled Works**”);
- b. Works excluded from the scope of the project on the basis they have independent drivers, are functionally independent of DWNO and/or require to be decoupled from DWNO on a technical or economic basis (“**Independent Works**”);
- c. Additional works which have been included in the scope of the project on the basis that they form part of DWNO (“**New Works**”); and
- d. Works to be undertaken under extant Planning Permission “**Approved Works**”

3. Summary of Changes

Table 1.0 below summarises the changes to the scope of the Project. Sections 4 to 8 below provide a more detailed description of the works packages referred to in Table 1.0 and a technical explanation for the changes made. Components of the substation works which are assessed as forming part of DWNO are identified in the status column as “**Scoped In**”.

Table 1.0 DWNO Changes to Project Scope - Summary

Easterhouse Substation		
Works package	Status	Reason for change
Replacement of gantries within the Easterhouse 275kV Substation	Independent Works	The replacement of gantries within the Easterhouse 275kV Substation is required due to the deterioration of the condition of five gantries which gives rise to health and safety concerns. The works are therefore not functionally dependent on DWNO and will be pursued by SPT irrespective of whether DWNO proceeds.

Installation of line Circuit Breaker and associated plant	Independent Works	Currently, the Clydesmill-Easterhouse-Newarthill 275kV circuit, which runs on the XX and ZD 275kV overhead line routes, cannot be switched without Easterhouse 275/33kV SGT2 being energised or de-energised. This is sub-optimal because in certain emergency situations it would be preferable if SPT could switch the overhead line in or out of service without energising the SGT2 transformer. To allow this to happen, a new line entry Circuit Breaker will be installed at Easterhouse on the XX Route circuit. The works are therefore not functionally dependent on DWNO and will be pursued by SPT irrespective of whether DWNO proceeds.
Substation extension	Cancelled Works	The requirement for an extension to Easterhouse Substation was removed during the detailed design process.
Newarthill Substation		
Works package	Status	Reason for change
Replacement of plant with increased rating	Independent Works	SPT requires to replace current transformers, disconnectors and earth switches within the existing Newarthill 275kV site boundary to allow (i) increased power flow on existing assets; and (ii) space to be created for future connections, including Newarthill Energy Storage Park. The works are therefore not functionally dependent on DWNO and will be pursued by SPT irrespective of whether DWNO proceeds.
Movement of existing Gantry	Independent Works	The gantry that currently connects the existing Newarthill-Wishaw No.1 275kV Overhead Line circuit will be moved to allow the replacement of the current transformers, disconnectors and earth switches and to facilitate the connection of the Newarthill Energy Storage Park by creating space for that connection within the confines of the existing site. These works are not functionally dependent on DWNO and will be pursued by SPT irrespective of whether DWNO proceeds.
Works Required to Reconfigure XX Route and XR Route at Newarthill Substation	New Works	To accommodate the connection of DWNO to Newarthill Substation, SPT requires to replace additional current transformers, disconnectors and earth switches. These works are solely required for DWNO, are not functionally related to any other works being undertaken on the network by SPT substations and have

		therefore been assessed as forming part of DWNO in EIA terms.
Wishaw Substation		
Works package	Status	Reason for change
Internal works to existing Wishaw 400kV Gas Insulated Switchgear: including the installation of four new bays (each with a bus section circuit breaker) and one bus section circuit breaker.	Independent Works	The internal Wishaw Substation extension works are required for a variety of reasons, including the need to facilitate the turn in of the Strathaven-Torness 400kV circuit to allow better balancing of power flows across the southern section of the SPT system. This is where the Electricity System Operator can direct how where power flows through the system by opening or closing circuit breakers to switch circuits in or out of service. One of the bays to be installed is required for DWNO. The other bays, including the bus section circuit breaker, have independent drivers. Due to the nature of these works, and the type of plant involved, it is prudent to minimise interventions that could introduce contaminants to the plant, meaning SPT proposes to undertake the installation of all four bays and the bus section circuit breaker in 2027 as part of the works needed to facilitate the turn in of the Strathaven-Torness circuit. Accordingly, DWNO is not the driver for the works being carried out ahead of DWNO consent, and in EIA terms SPT consider that the works are a standalone project with several different drivers.
GIB connections and gantries for the Strathaven-Torness 400kV Overhead Line circuit turn in	Independent Works	To achieve the connection from the Strathaven-Torness 400kV Overhead Line to the substation, it is necessary to install two gantries and two lengths of Gas Insulated Busbar. These works are not functionally dependent on DWNO and will be pursued by SPT irrespective of whether DWNO proceeds.
Denny North Substation		
Works package	Status	Justification
The installation of the 400kV Air Insulated Switchgear (AIS) bay	Approved Works	The 400kV line entry bay at Denny North was previously approved as part of the substation planning consent (Ref:05/0913/FUL 'Erection of 400kV Substation and Associated Works' (Falkirk Council), approved 12th March 2012) and does not form part of DWNO in EIA terms. For the avoidance of doubt, the overhead line gantry tower and the extension to Denny North Substation needed to accommodate the additional line entry gantry has been assessed as forming part of DWNO.

Distribution Line Works		
A number of existing distribution assets (11 & 33kV overhead lines) require to be temporarily dipped (taken down and undergrounded) and in some locations permanently diverted.	New Works	These works require to be undertaken by SPD, as the electricity distribution licence holder, at 36 locations in the vicinity of DWNO to enable the delivery of the project. The SPD works are solely required for DWNO, are not functionally related to any other works being undertaken by SPT or SPD and have therefore been assessed as part of DWNO in EIA terms. These works are technical mitigation to allow the safe operating of existing SPD lines, the works were scoped out of the EIA assessment as no significant effects are likely. The SPD works required for DWNO are detailed on Figure 4.5 of the EIA Report.

4. Easterhouse Substation Works

Overview

In Section 2.6 of the Scoping Report, the following works to Easterhouse Substation Works are described as forming part of DWNO:

“Easterhouse Substation is located south of Gartcosh to the east of the M73 as shown on Figure 2.9 (Appendix A). Woodend Loch Site of Special Scientific Interest (SSSI) is located to the south of the substation. Works at Easterhouse Substation are required due to the uprating of the existing XX route. The works are located on the southeast of the existing substation and comprise the installation of new electrical equipment including a circuit breaker.”

This description comprises the following works packages:

- The replacement of gantries within Easterhouse Substation;
- Installation of line Circuit Breaker and associated plant; and
- A substation extension which, as noted above, is no longer being progressed.

For the reasons set out below, none of these works are being progressed as part of DWNO. Whilst the works were described in Section 2.6 of the Scoping Report as being required due to the uprating of the XX Route, they are not properly considered to form part of the DWNO project in EIA terms. The substation extension has been removed from the scope on the basis it is no longer being progressed.

(a) Replacement of gantries within the Easterhouse 275kV Substation

Five gantries within Easterhouse 275kV Substation require to be replaced immediately on asset health grounds due to the deterioration of their condition.

Whilst the primary driver for their replacement is asset health, a secondary driver is that the existing gantries were not designed for the higher level of fault infeed required for Whitehill Battery Energy Storage System. When a fault occurs, there is an increase in the flow of current prior to the fault being cleared off the system by the operation of items of plant such as circuit breakers. These events require high levels of energy to be dissipated, which causes movement of gantries to take place, this movement correlates to the fault level of the site and the gantries must be rated accordingly.

The replacement of the gantries also enables the connection of the new line Circuit Breaker discussed in section 4(b) below by creating space to allow the connection of the Easterhouse 275/33kV SGT2 to the rest of the substation independently of the line connection.

These works therefore constitute a stand-alone project which is justified on its own merits and would be pursued independently of DWNO.

For these reasons, this works package has been removed from the scope of the assessment on the basis it does not form part of the DWNO project in EIA terms.

(b) Installation of line Circuit Breaker and associated plant

A new line Circuit Breaker requires to be installed at Easterhouse to aid the independent switching of the overhead line and plant within the substation. Similar works have been carried out across SPT's network.

Currently, the Clydesmill-Easterhouse-Newarthill 275kV circuit, which runs on the XX and ZD 275kV overhead line routes, cannot be switched without Easterhouse 275/33kV SGT2 being energised or de-energised. To allow this to happen, a new line entry Circuit Breaker will be installed at Easterhouse on the XX Route circuit. This is necessary because under certain emergency conditions (such as a 'Black Start' scenario, whereby the entire electricity system has been shut down and requires to be restored from generators that have been specifically designed to do this) it is necessary to energise transmission circuits without adding demand from Grid Supply Points (GSPs). The installation of the circuit breaker at Easterhouse will allow this to happen at the GSP and constitutes an improvement to the network that is required irrespective of DWNO.

For these reasons, this works package has been removed from the scope of the assessment on the basis it does not form part of the DWNO project in EIA terms.

5. Newarthill Substation Works

Overview

SPT requires to undertake works at Newarthill 275kV Substation which have several different drivers. The works proposed will be undertaken in two phases. The first phase involves works within the existing Newarthill Substation which are required independently of DWNO and do not form part of the project in EIA terms (the "**Phase 1 Works**"). The second phase involves works required to facilitate DWNO and which are considered to form part of the project in EIA terms (the "**Phase 2 Works**").

(a) Phase 1 Works - Replacement of plant with increased rating within Newarthill 275kV Substation

SPT will replace current transformers, disconnectors and earth switches within the existing Newarthill 275kV site boundary both to allow an increased power flow on existing assets and to allow space to be created for future connections. These works are required irrespective of whether DWNO proceeds.

(b) Phase 1 Works - Movement of existing Gantry within Newarthill 275kV Substation

The gantry that currently connects the existing Newarthill-Wishaw No.1 275kV Overhead Line circuit requires to be moved to allow the replacement of the plant mentioned in item (a) and to facilitate the connection of the Newarthill Energy Storage Park by creating space for that connection within the confines of the existing site. This work is required irrespective of whether DWNO proceeds.

(c) Phase 2 Works – Works Required to Reconfigure XX Route and XR Route at Newarthill Substation

In order to maintain connection between the west and east following the repurposing of the Newarthill-Wishaw No.1 275kV circuit, it is necessary to replace some additional current transformers, disconnectors and earth switches and to connect the existing Newarthill-Wishaw No.2 275kV circuit to the reconfigured 275kV Busbars.

6. Wishaw Substation Works

Overview

In Section 2.6 of the Scoping Report, the following works to Wishaw Substation are described as forming part of DWNO:

“Wishaw Substation is located to south of Wishaw between the B574 and railway line as shown on Figure 2.9 (Appendix A). Works at Wishaw Substation are required due to the uprating of the existing XR route. These include an extension of the existing substation platform and associated security fencing as well as installation of three new bays containing gas insulated switchgear and circuit breaker.”

The Scoping Report describes the following works packages:

- Installation of four new bays containing gas insulated switchgear within the existing footprint of Wishaw Substation;
- Extension of the existing substation platform and associated security fence.

For the reasons set out below, the installation of the new bays and bus section circuit breaker within the existing footprint of Wishaw Substation are not being progressed as part of DWNO. Whilst the works are described as being required due to the uprating of the XR Route, they are not properly considered to confirm part of the DWNO project in EIA terms. The substation extension works remain in scope.

(a) Internal extension of Wishaw 400kV Gas Insulated Switchgear

SPT requires to undertake internal extension works to the existing Wishaw Substation to facilitate the turn in of the existing Strathaven-Torness 400kV circuit. This work will enable SPT to better control the flow of power from east to west across the southern half of the electricity network, which will, in turn, aid in the balancing of how power flows across and through the system, especially in emergency situations. This work is not functionally interdependent with DWNO and would proceed irrespective of DWNO. As part of the internal extension works, SPT proposes to install four new bays, each of which will include a line circuit breaker, and a bus section circuit breaker within the existing building which are required for a variety of reasons. One of the bays is required to facilitate DWNO. Due to the nature of these works, and the type of plant involved, it is prudent to minimise interventions that could introduce contaminants to the plant, meaning SPT proposes to undertake the installation of all four bays and the bus section circuit breaker in 2027 as part of the works needed to facilitate the turn in of the Strathaven-Torness circuit. SPT therefore proposes to undertake these works as a standalone project.

This is necessary to maximise power flows, minimise health and safety risks and to minimise outages at a key circuit in the national grid which, in turn, minimises the constraint costs paid by electricity consumers.

Accordingly, DWNO is not the driver for the works being carried out ahead of DWNO consent, and in EIA terms SPT consider that the works are a standalone project with a number of different drivers

(b) GIB connections and gantries for the Strathaven-Torness 400kV Overhead Line circuit turn in

In order to achieve the connection from the Strathaven-Torness 400kV Overhead Line circuit to the substation it is necessary to install two gantries and two lengths of Gas Insulated Busbar (“GIB”) which

will carry the connections into the GIS building. For the reasons outlined in section (a) above, these works are not properly considered to form part of the DWNO project in EIA terms and instead form standalone project which has a number of different drivers.

7. Denny North Substation

Overview

In Section 2.6 of the Scoping Report, the following works to Denny North Substation are described as forming part of DWNO:

“Works at Denny North Substation are required due to the uprating of the existing ZG route. These comprise works at the northern side of the existing substation including the installation of a new bay containing air insulated switchgear and an overhead line gantry tower. As part of the works the existing security fence would be extended.”

This description comprises the following works packages:

- The installation of a new AIS bay; and
- Substation extension works comprising installation of an overhead line gantry tower

For the reasons set out below, the installation of the AIS bay is not being progressed as part of DWNO. Whilst these works are described as being required due to the uprating of the ZG Route, they are not properly considered to form part of the DWNO project in EIA terms. Those works formed part of SPT's earlier project that secured planning permission from Falkirk Council (under reference 05/0913/FUL) on 13 March 2012. The substation extension works and overhead line gantry tower remain in scope.

8. Distribution Line Works

Works to modify the electricity distribution network (referred to as the SPD works) require to be undertaken by SP Distribution plc (SPD), as the electricity distribution licence holder, at 36 locations in the vicinity of DWNO to enable the delivery of the project. These are typically where lower voltage distribution overhead lines are crossed by or in proximity to DWNO.

The SPD works are solely required for DWNO, are not functionally related to any other works being undertaken by SPT or SPD. Accordingly, they represent a direct effect of the DWNO project and thus require to be assessed as part of the EIA report for the project. The effects have been assessed insofar as they are identifiable at this stage. However, there are details associated with the SPD works which will not be available until a later date (e.g. the placement of construction compounds). To the extent these details are not identifiable by the date of consideration of this application, a multi-stage condition might be considered appropriate.

Conclusion

For the reasons outlined above, the EIA for DWNO has been undertaken on the basis that the following works form a single project in EIA terms:

- Construction of a new 400kV overhead line;
- Increasing the operating voltage of 3 existing overhead lines from 275 to 400 kilovolts (kV);
- Extensions to Denny North, Bonnybridge, Cumbernauld and Wishaw existing substations;
- Removal of existing 132kV overhead line between Bonnybridge and Cumbernauld Substation;
- Undergrounding of two sections of the existing 132kV overhead line; and
- Diversions to SPD infrastructure are required as part of the Project

Notwithstanding the terms of the Scoping Report and SPT's consultation documents, the Independent Works and Approved Works are separate projects in EIA terms and have therefore not been assessed

as forming part of DWNO. The purpose of this document is to explain the technical basis for that change in approach between the Scoping stage, and the submission of this application. The requirement for EIA of the Independent Works either has been or will be assessed on their own merit.