

Totex
Scottish Power Transmission
2020/21

2.6 Published Wider Works

Project/ Project Component	Project Type (Baseline or Strategic Wider Work)	Area / Transmission Boundary	Increase in Transfer Capacity (MW) or system benefits to be delivered	Current Project Stage: 1. Scoping 2. Optioneering 3. Design 4. Planning 5. Construction	Progress	Licence Delivery Date	Expected Delivery Date	Agreed Allowance £'m	Weblink (where available)
4400MW upgrade	T1 Baseline	Boundary B6	1100	5	MSCDN Longannet completed March 2016 with Cockenzie completed April 2016. Series Compensation completed at Gretna North and Moffat with one unit completed at Eccles in Dec '15 and a second unit at Eccles completed August 2016. East-West works complete. Smeaton, Strathaven, Kaimes (inc. XJ Route) and Wishaw (inc. XH Route) works completed by December 2016. Torness/Eccles (Circuit 2) 400kV cable upgrade completed in August 2017, with Torness/Eccles (Circuit 1) 400kV cable completed in April 2018.	2015/16	2018/19	144.69	MSCDN & Series Compensation Webpage (www.spenergynetworks.co.uk)
Western HVDC	T1 Baseline	Boundary B6	2250	5	All main construction works complete. The 400kV cable termination failure at Hunterston which delayed completion was successfully repaired during 2017. With successful commissioning, the operational ownership of the 'HVDC Western Link' was handed over to NGT & ScottishPower in November 2019. The HVDC Western Link is operated & maintained by the NGT/SPT Western Link Planning & Performance Group. The system was commissioned in June 2018, and has been available to the ESO at its system design continual rating capacity of 2250MW (short term overload capacity 2400MW)	2016/17	2018/19	342.94	Western HVDC Webpage (www.spenergynetworks.co.uk)
Hunterston Kintyre link	T1 Baseline	Hunterston	240	5	The project was completed with the Crossaig-Hunterston East No.1 and No.2 circuits; Commissioned in December 2015 and February 2016 respectively.	2015/16	2015/16	19.96	Hunterston-Kintyre Webpage (www.spenergynetworks.co.uk)

South West Scotland	T1Baseline	0	voltage support	5	<p>The RIO-T1 plan included provision for voltage support at Kilmarnock South to secure the network following the cessation of generation at Hunterston 'B'. The subsequent announcement of life extension at Hunterston required a review of the ScottishPower network in that area.</p> <p>Based on this review, requirements for Shunt Reactive Compensation at 7-off sites was identified. Commissioning has been completed at all seven sites; Kilmarnock South, Moffat & Coalburn (2017), Crystal Rig & Markhill (Q3 2018), Eccles and Elvanfoot (Q3 2019) providing Reactive Compensation availability to the network.</p>	0	0	15.93	SWS Homepage (www.spenergynetworks.co.uk)
East Coast 400kV Onshore Upgrade	T2 Baseline	Boundary B4	c1200	3	<p>The East Coast 400kV onshore upgrade project was included in the T1 submission as an "either \ or" option. The need case for the project has been subject to further cost benefit modelling undertaken through the Network Options Assessment (NOA) process.</p> <p>The January 2021 NOA report recommended that the East Coast 400kV onshore upgrade project option proceed. Environmental and stakeholder work continues to progress, as does early Engineering Design, working closely with SHE Transmission.</p> <p>Initial construction stages of this project are due to commence in late-2022</p>	TBC	2026	TBC	East Coast 400KV Upgrade Project (www.spenergynetworks.co.uk)
Central 400kV Onshore Upgrade	Strategic Wider Work	Boundary B5	c800	2	<p>The Central 400kV Upgrade project was included in the T1 submission as an "either \ or" option. Following a cost benefit analysis (CBA), the Central Upgrade project was selected for development. The need case for the project has been subject to further cost benefit modelling undertaken through the Network Options Assessment (NOA) process. Continuing on from a number of 'Proceed' recommendations in previous years, the January 2021 NGESO NOA report again recommended that Central 400kV Upgrade project 'Proceed'.</p> <p>Environmental and stakeholder work will continue to be progressed, with a 'Preferred Route' having been developed and the first round of public consultation planned in Q2 2021, with report to follow.</p> <p>Plans are being progressed to utilise existing 275kV circuits to develop an incremental 400kV solution between Denny & Wishaw which will deliver earlier (but reduced) system benefit, ahead of the construction of the new section of overhead line in the original Denny to Wishaw scheme. Utilising existing parts of the network recognises the consenting risk of constructing a new section of OHL and mitigates, where possible, potential delay. This recognises the need to provide additional capacity transfer across the B5</p>	TBC	2028	TBC	Denny- Wishaw Upgrade Webpage (www.spenergynetworks.co.uk)

Dumfries and Galloway	Strategic Wider Work	Dumfries and Galloway	Enable Entry Connections	3	<p>Dumfries and Galloway Strategic Reinforcement - Conclusions Report submitted to Ofgem in July 2016. Cost benefit analysis prepared for SWW Initial Need Case recommended that a reduced scheme is progressed, now known as the Kendoon to Tongland Reinforcement (KTR) project. The new KTR project has been consulted on in 2016 and 2017. This will be progressed under a different set of regulatory mechanisms – no longer a SWW project.</p>	TBC	2025	TBC	KTR Webpage (www.spenergynetworks.co.uk)
Eastern HVDC	Strategic Wider Work	Boundary B6	2000(B6)	2	<p>While the NOA report published in March 2016 did not recommend that this development proceed, the January 2017, 2018, 2019, 2020 & 2021 NOA recommendations were to proceed with development works to meet the Earliest In Service Date. In the 2020 NOA a proceed signal was received for two mutually exclusive options (connection to Hawthorn Pit 2027 and to Cottam 2028). After further discussion with NGENSO it was agreed that the Torness - Hawthorn Pit route was to be prioritized, the update provided is therefore based on the Hawthorn Pit option.</p> <p>Eastern Link HVDC (E2DC) - Torness to Hawthorn Pit received a further 'proceed' in the NOA 6 report published Jan 2021. Development remains ongoing through a tri-party arrangement with SPT/NGET/SHETL. The Joint Transmission Operator (T.O.) SWW initial needs case was submitted for assessment by the tri-party on 9th Oct 2020, with the determination consultation published in May 2021 by OFGEM.</p> <p>Significant supplier engagement has been completed by the three T.Os in unison to ascertain both Converter & DC cable technology options and ongoing technology development & maturity. Initial assessment of market capacity, capability and potential</p>	TBC	2027	TBC	Eastern HVDC Webpage (www.spenergynetworks.co.uk)