

Transmission Owner Reinforcement Instruction (TORI) Quarterly Update Report Q4 December 2022 – March 2023

March 2023



Transmission Owner Reinforcement Instruction (TORI)

Quarterly Update Report Q4

December 2022 – March 2023

SSEN Transmission's Quarterly Update Report provides an update on our Transmission Owner Reinforcement Instruction (TORI) projects. These projects are required to reinforce the Transmission network in the North of Scotland to facilitate the connection of renewable generation. These TORI's may be included in connection agreement contacts as Enabling Works or Wider Works.

For each existing TORI in our area, this report provides:

- An overview of the TORI project including completion date.
- A summary of works completed in the last three months.
- A summary of works due to be undertaken in the next three months.

Should you have any questions or feedback on the report, please get in touch with us at transmission.commercial@sse.com

Table of Contents

SHET-RI-007a - Beauly - Blackhillock 400 kV Double Circuit OHL	7
SHET-RI-007b - Beauly 400 kV Busbar.....	8
SHET-RI-009 - East Coast Onshore 275kV Upgrade	9
SHET-RI-013 - North Argyll Substation.....	10
SHET-RI-019 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 1	11
SHET-RI-020 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 2	12
SHET-RI-025a - Peterhead-Rothienorman 400 kV OHL upgrade	13
SHET-RI-025b - Eastern Subsea HVDC Link	14
SHET-RI-025c - Peterhead 400 kV Busbar	15
SHET-RI-025d - North East Reinforcement	16
SHET-RI-026 - Blackhillock 275 kV QBs	17
SHET-RI-028 – Thurso South to Gills Bay 132kV OHL.....	18
SHET-RI-033 - Second 2 GW East Coast HVDC Link Peterhead to England.....	19
SHET-RI-042 - Western Isles - Beauly HVDC Link	20
SHET-RI-043 - Lewis Infrastructure	21
SHET-RI-046 - Taynuilt-North Argyll Rebuild.....	22
SHET-RI-050b - Port Ann - Crossaig Reinforcement.....	23
SHET-RI-052 - Lairg-Loch Buidhe 132kV Reinforcement.....	24
SHET-RI-053 - Shetland 600 MW HVDC Link and Kergord 132kV Substation	25
SHET-RI-058 - Beauly-Loch Buidhe 275kV OHL Reinforcement	26
SHET-RI-059 - Third 2GW East Coast HVDC Link Peterhead to England	27
SHET-RI-061 - Skye Overhead Line Reinforcement.....	28
SHET-RI-065a - Beauly 132 kV Substation Redevelopment	29
SHET-RI-065b - Beauly 3rd SGT Replacement	30
SHET-RI-066 - Fort Augustus Substation 400/275kV Development	31
SHET-RI-068 - Fort Augustus -Invergarry-400/132kV Development.....	32
SHET-RI-069 - Kinardochoy Reactive Compensation	33
SHET-RI-075 - Orkney 132kV Infrastructure Finstown - Ellibster.....	34
SHET-RI-079a - Blackhillock Additional 275/132kV SGTs.....	35
SHET-RI-079b - Blackhillock Additional 275/132kV SGTs.....	36
SHET-RI-086 - Craig Murrail Switching Station	37
SHET-RI-088 - Loch Buidhe - Dounreay 275kV Reinforcement.....	38
SHET-RI-089 - Farigaig SGT2 Upgrade.....	39

SHET-RI-090 - Coupar Angus - Errochty 132kV Reconductoring.....	40
SHET-RI-093 - East Coast Phase 2 - 400kV Reinforcement	41
SHET-RI-106b - Connagill 2nd SGT	42
SHET-RI-107 - North Argyll - Inveraray Reinforcement.....	43
SHET-RI-111 - Abernethy 132kV Mesh Corner	44
SHET-RI-115 - Melgarve 400/132 kV Substation Additional SGTs	45
SHET-RI-116 - Kergord - Yell 132kV Connection	46
SHET-RI-117 - Tealing 275kV Busbar Upgrade	47
SHET-RI-119 - Corriemoillie Transformer Protection Modification	48
SHET-RI-120 - East Coast 132kV Upgrade	49
SHET-RI-121 - Charleston - Abernethy 132kV Reconductoring	50
SHET-RI-123 - Shin - Loch Buidhe 132kV Reconductoring	51
SHET-RI-124 - 2nd Shetland HVDC Link Kergord - Rothienorman	52
SHET-RI-126 - Kergord - Yell 132kV 2nd Connection	53
SHET-RI-127 - Dounreay - Spittal 400 kV Double Circuit Cable.....	54
SHET-RI-128 – Caithness to Peterhead HVDC Link.....	55
SHET-RI-129 - Farigaig SGT1 Upgrade	56
SHET-RI-130a - North Argyll - Craig Murrail 275kV Operation.....	57
SHET-RI-130b - Craig Murrail - Crossaig 275kV Operation.....	58
SHET-RI-131 - Brechin 132kV Extension.....	59
SHET-RI-132 - Beaully-Blackhillock High Temperature Reconductoring.....	60
SHET-RI-133 - Loch Buidhe SGT Upgrade.....	61
SHET-RI-134 – Beaully-Denny 2 nd Circuit upgrade from 275kV to 400kV.....	62
SHET-RI-136 - Blackhillock 400kV Building Extension	63
SHET-RI-137 - Blackhillock-New Deer-Peterhead 400kV OHL.....	64
SHET-RI-138 - New Deer 400kV Busbar Extension.....	65
SHET-RI-139 - 2GW HVDC Link New Deer to England.....	66
SHET-RI-140 - Thurso South 275 kV Substation Redevelopment	67
SHET-RI-141 - Spittal to New Deer HVDC Link	68
SHET-RI-142 - Caithness to New Deer 2 - 2 x 1GW HVDC Links.....	69
SHET-RI-143 - Kergord - Gremista GSP 132kV Infrastructure	70
SHET-RI-144 - New Deer 2 400kV Substation	71
SHET-RI-145 - 2GW HVDC Link New Deer 2 to England.....	72
SHET-RI-147 - Tealing 400kV Substation.....	73
SHET-RI-148 - Alyth – Tealing 400kV Reinsulation.....	74
SHET-RI-149 - Tealing – Glenrothes Westfield 400kV Rebuild.....	75

SHET-RI-150 - Inverguie Tee – Peterhead 132kV Reconductoring	76
SHET-RI-151 - Peterhead – St Fergus 132kV Line Works -	77
SHET-RI-153 - Spittal 2 400kV Substation	78
SHET-RI-155 - Peterhead - Persley Tee 275kV Works.....	79
SHET-RI-165 - Alcemi Substation 400kV Switchgear.....	80
SHET-RI-166 - Tealing – Arbroath 132kV Line Works.....	81
SHET-RI-167 - Keith 275kV Sync Comp	82
SHET-RI-168 - Melvich to Connagill 132kV Connection	83
SHET-RI-171 - OHL Cloiche / Dell to Melgarve.....	84
SHET-RI-172 - Dalwhinnie 400kV Substation	85
SHET-RI-173 -Golticlay 132/33kV Collector Substation	86
SHET-RI-174 -Upgrade of Keith SGTs	87
SHET-RI-176 -Pauls Hill/Glenfarclas Circuit Turn In	88
SHET-RI-177 - Tomatin Additional SGTs.....	89
SHET-RI-178 - 275kV Switchgear on Blackhillock to Kintore Circuit	90
SHET-RI-179 - Construction of a new Peterhead 132kV Substation	91
SHET-RI-180 - Second 400kV Peterhead Substation.....	92
SHET-RI-181 - Beauly to Loch Buidhe to Dounreay 400kV.....	93
SHET-RI-182 - Loch Buidhe to Spittal 2 400kV Reinforcement	94
SHET-RI-183 - SHET-RI-183-New 132kV Dundee Substation	95
SHET-RI-184-Coupar Angus 2 Tee V2.....	96
SHET-RI-187-St Fergus 132kV Substation	97
SHET-RI-188-St Fergus to New Deer 2 132kV Reinforcement	98
SHET-RI-189 - Strichen-Fraserburgh to St Fergus 132kV OHL Reconductoring	99
SHET-RI-191 - Strathy Switching Collector Station Connagill-Strathy double circuit OHL	100
SHET-RI-194 - Beauly 2 400kV Switching Station.....	101
SHET-RI-195, Skye HVDC Link.....	102
SHET-RI-196 - Whitehouse Substation 275kV Switchgear	103
SHET-RI-197 - Kintyre to North Wales HVDC Link.....	104
SHET-RI-198 - Beinn Glass Tee 132kV Switching Station	105
SHET-RI-199 - Blackhillock 2 400kV Substation.....	106
SHET-RI-200 - Loch Buidhe 400-275kV substation.....	107
SHET-RI-201 - Foyers Substation Extension and Connection to Loch Kemp.....	108
SHET-RI-203 - Fetteresso 132kV Busbar Works	109
SHET-RI-205 - New East Coast 275 kV Substation	110
SHET-RI-206 - Shared Fyrish 132kV Connection	112

SHET-RI-207 - Macduff to Blackhillock 132kV OHL 113



TORI SHET-RI-007a - Beaully - Blackhillock 400 kV Double Circuit OHL	Scheme Beaully - Blackhillock 400 kV Double Circuit OHL
Overview of Works Establish a new double circuit 400kV overhead line approximately 110km from Beaully to Blackhillock. In an update from initial scope, the new OHL is to connect to a new 400kV busbar at Beaully and a new 400kV busbar at Blackhillock.	
Project Completion Date	31/10/2030
Summary of works in last quarter: Following confirmation of preferred substation sites for the new 400kV busbars at Beaully (SHET-RI-007b) and Blackhillock (TORI 199) at the end of the last quarter, routes for the OHL have been identified. These routes incorporate feedback from public consultation and Hazid workshop and have been assessed and RAG score applied to select a 'preferred route' which shall be taken to public consultation in April. Bird surveys and land referencing work ongoing. Project is being developed in parallel to SHET-RI-137 Blackhillock – New Deer – Peterhead 400kV OHL with shared project team.	
Summary of works in next quarter: Public consultation for preferred route. Appointment of ECI contractor. Progression through Gate 1.	
Additional Comments: Project is being developed in parallel to SHET-RI-137 Blackhillock – New Deer – Peterhead 400kV OHL with shared project team. New Beaully 400kV Busbar to be connected to is captured in scope of SHET-RI-007b. New Blackhillock 400kV Busbar to be connected to is captured in scope of TORI 199.	



TORI SHET-RI-007b - Beauly 400 kV Busbar	Scheme Beauly 400 kV Busbar
Overview of Works Construct a new 400kV double busbar at Beauly 2 400kV switching station comprising of a bus section breaker, two bus couplers and 14 feeder bays (17 feeder bays in total)	
Project Completion Date	30/03/2027
Summary of works in last quarter: <ul style="list-style-type: none"> • Project set-up continues, for example: risk register established, lessons learned register established, P6 programme developed, project budget approved. • Site selection concluded (appointment of consultant to support with this) • Engagement with statutory consultees • Preparation for first public consultation event in Q1 2023 • Bird / ecology surveys commence • Scope of works for Early Contractor engagement developed 	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-009 - East Coast Onshore 275kV Upgrade	Scheme East Coast Onshore 275kV Upgrade
Overview of Works Establish new busbar Substation at Alyth, to be built at 400kV but initially operated at 275kV, with reactive compensation support. Also includes Errochty Thermal Relay Works scope. Re-profile the existing Kintore-Tealing-Kincardine 275kV circuits and the existing Tealing-Westfield-Longannet 275kV circuits for higher temperature operation. Install 275kV Phase shifting transformers on each of the Kintore – Tealing circuits (XT1/XT2) at Tealing substation.	
Project Completion Date	31/10/2023
Summary of works in last quarter: Errochty Thermal Relay Works (LT43): All works complete – no further works required. OHL Works (LT162): All works complete to programme to date. Alyth Substation Works (LT139): Complete the construction of both the GIS & Statcom buildings and commence installation of plant & equipment, as well as completion of the wider site civil works. Complete the installation of all outdoor aluminium structures and busbars. Complete the installation of the DNO supply. Tealing Substation (LT208): Continue with the design and construction works associated with the installation of the 2 Phase Shifting Transformers.	
Summary of works in next quarter: Alyth Substation Works (LT139): Complete the construction and testing of the Gas Insulated Switchgear, Gas Insulated Busbars and the high voltage cabling. Completion of the main transformer assembly on site. Continuation of the STATCOM and MSCDN construction.	
Additional Comments: N/A	



TORI SHET-RI-013 - North Argyll Substation	Scheme North Argyll Substation
Overview of Works Establish a new 275/132 kV Substation in North Argyll near the existing Inveraray/Taynuilt 132 kV line route with two 480 MVA 275/132 kV transformers. Space provision only is to be provided for additional feeder bays. Establish a new 275 kV double circuit OHL between Creag Dhubh (North Argyll) substation and a tie in point on existing Sloy – Windyhill SPEN circuit near Dalmally.	
Project Completion Date	30/04/2026
Summary of works in last quarter: Continue procurement activities including review of tender returns.	
Summary of works in next quarter: Award Substation Initial Works Contract and commence associated design works. Public Local Inquiry hearing (OHL) scheduled for June 23.	
Additional Comments: N/A	



TORI SHET-RI-019 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 1	Scheme Dounreay - Orkney 220kV Subsea HVAC Cable Link 1
Overview of Works Establish a 220kV HVAC circuit over a distance of approximately 68km between the 275kV GIS substation at Dounreay on the mainland and the new 132kV substation in the vicinity of Finstown on Orkney. The HVAC circuit comprises of approximately 15km of land cable and 53km of subsea cable. Voltage Compensation devices will be installed at both cable ends within the substation compounds at Dounreay and Finstown.	
Project Completion Date	30/04/2027
Summary of works in last quarter: Continue engagement with Orkney developers and confirm FNC conditionality has been approved by Ofgem.	
Summary of works in next quarter: <ul style="list-style-type: none"> • Ofgem: Monitor FNC decision and negotiate multi-phased submission process for Project Assessment • Governance: Progress towards July Gate 2, completing DAR, PSR, PAR & PIL • Procurement: <ul style="list-style-type: none"> • Issue Renewed Information to suppliers • Complete Planning Consent Risk Assessment works with SBAM, and consider completing early substation Part A Works. • Negotiate Capacity Reservation Agreement with Nexans and secure cable system 	
Additional Comments: N/A	



TORI SHET-RI-020 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 2	Scheme Dounreay - Orkney 220kV Subsea HVAC Cable Link 2
Overview of Works Establish a second 220kV Subsea HVAC circuit over a distance of approximately 68km between the 275kV GIS substation at Dounreay on the mainland and the new 132kV substation in the vicinity of Finstown on Orkney. The HVAC circuit comprises of approximately 15km of land cable and 53km of subsea cable. Voltage Compensation devices will be installed at both cable ends within the substation compounds at Dounreay and Finstown. Finstown Substation is established as part of SHET-RI-019.	
Project Completion Date	30/04/2025
Summary of works in last quarter: Project on hold.	
Summary of works in next quarter: Project on hold.	
Additional Comments: N/A	



TORI SHET-RI-025a - Peterhead-Rothienorman 400 kV OHL upgrade	Scheme Peterhead-Rothienorman 400 kV OHL upgrade
Overview of Works The 275kV overhead lines between Peterhead, New Deer and Rothienorman (Rothienorman substation established as part of SHET-RI-105) are constructed for 400kV operation. Reinsulate approximately 47km of OHL to 400kV operation and put into service between the new 400kV busbars at Peterhead (established by SHET-RI-025c) and the new 400kV substations at New Deer and Rothienorman (both transitioned to 400kV under SHET-RI-025d). Replacement of the existing earth wire with OPGW is required between New Deer - Rothienorman.	
Project Completion Date	30/09/2023
Summary of works in last quarter: Please see project update for SHET-RI-025d North East 400kV Reinforcement.	
Summary of works in next quarter: Please see project update for SHET-RI-025d North East 400kV Reinforcement.	
Additional Comments: N/A	



TORI SHET-RI-025b - Eastern Subsea HVDC Link	Scheme Eastern Subsea HVDC Link
Overview of Works Install a 2GW HVDC link between Peterhead (SHE-Transmission) and Drax (NGET). This TORI describes the SSENT works. HVDC cables to be routed into the sea, then south towards the North East of England in NGET's license area.	
Project Completion Date	31/10/2029
Summary of works in last quarter: Project successfully progressed through Gate 2 governance. Negotiations (1 st Round) with Tenderers ongoing. Phase 1 Project Assessment submitted to Ofgem, 1 st February. Additional Ground Investigation works at Peterhead (Scotland) and Wrenhall (England) complete. Offshore UXO survey tenders returned, review ongoing. Conclude terms for land purchase in Peterhead.	
Summary of works in next quarter: Submit Phase 2 Project Assessment to Ofgem, 31 st March. Progress tenderer negotiations, with 2 nd round submission due 28 th April. Secure Crown Estate Scotland reservation agreement Secure Marine Licence	
Additional Comments: Conclude 400kV AC Scope of Works for HVDC converter interface at Peterhead.	



TORI SHET-RI-025c - Peterhead 400 kV Busbar	Scheme Peterhead 400 kV Busbar
<p>Overview of Works</p> <p>Construct a new 400kV substation close to the existing 275kV substation at Peterhead. Install two new 1200MVA 400/275kV supergrid Transformers and approx. 500m of 275kV cable between the new 400kV busbar and the existing 275kV busbar. Two new Overhead line towers and Installation of 132kV cable from new Cable sealing end to existing 275kV sub station.</p> <p>Modify the existing 275 kV substation and busbar arrangements to accommodate the above works. The existing 275/132kV supergrid transformer SGT1 which is currently connected to line circuit reference VX1 will be banked with the new 1200MVA 400/275kV under a separate project.</p>	
Project Completion Date	31/10/2023
<p>Summary of works in last quarter:</p> <p>All main civil works were completed end of February- final chippings, concrete foundations of CCTV and height barriers.</p> <p>GE-UK returned to site 6th March to resolve issues on both TX units relating to NRV(non-return value) and Buchholz relay.</p> <p>All 8 GIS bays will be connected and gassed up, with external GIB structures and connections on VND1/VND2 circuits. Hitachi successfully carried out HV testing 13th-18th December, return current earthing, LCC commissioning and snagging completed by end March.</p> <p>Cable glanding and terminating of protection and control panels now complete, with commissioning ongoing.</p> <p>275kV ducting for both VV1/VV2 circuits have been installed to the existing 275kV substation. CSE foundation works were completed late December. Ducting proving completed successfully prior to cable pulling works.</p> <p>OHL works commenced mid- March with conductor stringing from Towers 90 and 91 to new 400kV Substation these works will be ongoing.</p>	
<p>Summary of works in next quarter:</p> <p>275kV cables will be pulled on VV1 circuit from the existing 275kV Substation to the new 400kV platform.</p> <p>Protection and control panel commissioning will be ongoing to Stage 1 commissioning.</p> <p>All RJM civil, HITACHI and GE snagging works will be complete in the fourth coming weeks.</p> <p>VND2 Outage will commence on the 3rd April 2023, allowing all outage works to commence; installation of CSE structures, cable lifting and cable terminations at the 275kV substation.</p> <p>OHL works - redirecting of VND2 circuit from Tower 89 to new installed Towers 90/91, downleads from T91 to 400kV Substation gantry prior to First energisation early July 2023.</p>	
<p>Additional Comments:</p> <p>N/A</p>	



TORI SHET-RI-025d - North East Reinforcement	Scheme North East Reinforcement
<p>Overview of Works</p> <p>Re-insulate the 275kV double circuit overhead lines between Rothienorman – Blackhillock and Rothienorman - Kintore for 400kV operation.</p> <p>Remove the two line connected 400/275kV, 1200MVA SGTs from Blackhillock Substation. Install two new 400/275kV, 1200MVA at Kintore for terminating the Rothienorman to Kintore double circuit overhead line onto the 275kV busbar at Kintore.</p> <p>Install two 400/33kV Super Grid Transformers to connect the Rothienorman Grid Supply Point to the 400kV Rothienorman Busbar. Upgrade the Surge Arresters and Capacitive Voltage Transformers on six existing overhead line feeder bays from 275kV to 400kV.</p> <p>Upgrade the Surge Arresters and Capacitive Voltage Transformers on four existing overhead line feeder bays and three cable circuit bays from 275kV to 400kV at New Deer substation and bring the whole substation to 400kV operating voltage.</p>	
Project Completion Date	31/10/2023
<p>Summary of works in last quarter:</p> <p>OHL Works - Complete works on HR1 circuit between Blackhillock and Rothienorman, and removal of Keith cross and OHL diversion. Pre-outage works to progress ahead of 400kV energisation sequence.. All works progressing in line with the schedule.</p> <p>Kintore Substation Works – Panel FAT completed and control panel arrive on site, installation of equipment commences. OHL foundation works completed. SGTS arrive on site and installation commences</p> <p>Rothienorman Substation Works – Both Super Grid Transformers have been successfully delivered and commissioned. Construction of both Grid Supply Point bays has entered it’s final stages.</p> <p>New Deer Substation Works – Site has been mobilised and all required equipment delivered, ready to commence the upgrade works.</p>	
<p>Summary of works in next quarter:</p> <p>OHL Works – All OHL works are complete, with works now concentrated on Substation reconfiguration at Blackhillock for the transition to 400kV Operation.</p> <p>Rothienorman Substation Works - Commissioning works will begin to replace the 275kV equipment with 400kV equivalents and transition the reserve busbar system and associated bays to 400kV.</p> <p>New Deer Substation Works – Upgrade works will commence to replace the 275kV equipment with 400kV equivalents and transition the reserve busbar to 400kV operating voltage.</p>	
<p>Additional Comments: N/A</p>	



TORI SHET-RI-026 - Blackhillock 275 kV QBs	Scheme Blackhillock 275 kV QBs (PSTs)
Overview of Works At Blackhillock, install 2 x 865MVA (continuous rating) 275kV quadrature boosters with bypass on the existing 275kV circuits (AH1/HO2) to Knocknagael, rearranging the circuit terminations as appropriate.	
Project Completion Date	31/10/2026
Summary of works in last quarter: Revised PQQ requirements to incorporate expected future growth in networks and determine if suitable technology available. Initial review of PQQ responses.	
Summary of works in next quarter: Conclude financial checks of responders. Prepare Works Information to support ITT.	
Additional Comments: N/A	



TORI SHET-RI-028 – Thurso South to Gills Bay 132kV OHL	Scheme Thurso South to Gills Bay 132kV OHL
Overview of Works It is proposed to construct a new 132kV GIS double busbar arrangement switching station at Phillipstoun Mains, near Gills Bay (west of John O’Groats) and connect in two radial circuits from Thurso south. Construct a new suitably rated hybrid overhead line and underground cable double circuit, operated at 132kV, from Gills Bay to Thurso South.	
Project Completion Date	01/04/2027
Summary of works in last quarter: Continued engagement with Developers further to outcome of CfD4 auction expected in to ascertain any potential impact on programme. Continued engagement with landowners to secure outstanding land agreements. Continued development of Needs Case and CBA for MSIP submission.	
Summary of works in next quarter: Continued engagement with Developers further to outcome of CfD4 auction expected in to ascertain any potential impact on programme. Continued engagement with landowners to secure outstanding land agreements. Continued development of Needs Case and CBA for MSIP submission.	
Additional Comments: N/A	



TORI SHET-RI-033 - Second 2 GW East Coast HVDC Link Peterhead to England	Scheme Second 2 GW East Coast HVDC Link Peterhead to England
Overview of Works Install an indoor 2GW HVDC converter station with associated equipment. HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid.	
Project Completion Date	31/10/2031
Summary of works in last quarter: Continued high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: Continued high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-042 - Western Isles - Beaully HVDC Link	Scheme Western Isles - Beaully HVDC Link
Overview of Works Establish a 1800MW HVDC link with associated equipment and converter stations between the Western Isles and the 400kV double busbar on the mainland. The HVDC cable is to be approximately 79km of subsea cable, and approximately 80km of land cable. The HVDC infrastructure will interface with a new 132kV/275kV double busbar on the Isle of Lewis and a 400kV double busbar on the mainland at a to be developed Beaully Hub.	
Project Completion Date	30/03/2027
Summary of works in last quarter: Following the publication of the Holistic Network Design with the recommendation of an 1800MW HVDC link to connect offshore and onshore, the 600MW project is now on hold.	
Summary of works in next quarter: N/A now new TORI number.	
Additional Comments: N/A	



TORI SHET-RI-043 - Lewis Infrastructure	Scheme Lewis Infrastructure
Overview of Works Build a new 132kV single circuit OHL between Arnish substation, and the Muaithebheal Tee point. Dismantle the existing 132kV single circuit OHL between Stornoway Tee point, and the Muaithebheal Tee point.	
Project Completion Date	30/03/2027
Summary of works in last quarter: Project being restarted in line with revised Western Isles HVDC Link dates and scope, a review of the required scope is to be undertaken.	
Summary of works in next quarter: Project being restarted in line with revised Western Isles HVDC Link dates and scope, a review of the required scope is to be undertaken.	
Additional Comments: N/A	



TORI SHET-RI-046 - Taynuilt-North Argyll Rebuild	Scheme Taynuilt-North Argyll Rebuild
Overview of Works Reinforce the transmission network between Taynuilt and North Argyll substation (established as part of SHET-RI-013). Rebuild approximately 12.5km of existing 132kV double circuit steel tower line between North Argyll and Taynuilt with a larger capacity 132kV.	
Project Completion Date	31/10/2028
Summary of works in last quarter: Project on hold.	
Summary of works in next quarter: Project on hold.	
Additional Comments: N/A	



TORI SHET-RI-050b - Port Ann - Crossaig Reinforcement	Scheme Port Ann - Crossaig Reinforcement
Overview of Works Reinforce the 132kV Transmission Network in the Kintyre Peninsula. Rebuild approximately 48km of double circuit OHL between Port Ann and Crossaig. The tower line will be built for 275kV operation, but initially operated at 132kV.	
Project Completion Date	31/10/2023
Summary of works in last quarter: All overhead line tower foundations have been successfully installed and associated forestry works are now complete. All 6 no. non-outage wiring pulls have been completed ahead of programme.	
Summary of works in next quarter: Tower construction works are on target for completion by the end March 2023. Following energisation of the new overhead line, the focus will move to dismantling the decommissioned towers and reinstatements.	
Additional Comments: N/A	



TORI SHET-RI-052 - Lairg-Loch Buidhe 132kV Reinforcement	Scheme Lairg-Loch Buidhe 132kV Reinforcement
Overview of Works Establish a new 132kV double busbar at Lairg (Dalchork Substation) and construct approximately 17km of new double circuit 132kV overhead tower line between Lairg and Loch Buidhe.	
Project Completion Date	24/06/2022
Summary of works in last quarter: TORI date has been achieved (Q2 2022) Due to the cables/cable terminations Operational Restriction imposed by Operations on the project, limited works were available to progress the overall project towards closure. Landscaping & re-instatement works were progressed.	
Summary of works in next quarter: The portion of the outstanding works, affected by the OR, is now scheduled to be carried out (under Outage) in May/June 2023; installation & commissioning at remote interfacing substations. Completion of the landscaping & Re-instatement works.	
Additional Comments: N/A	



TORI SHET-RI-053 - Shetland 600 MW HVDC Link and Kergord 132kV Substation	Scheme Shetland 600 MW HVDC Link and Kergord 132kV Substation
Overview of Works Construct a 600MW HVDC link from Shetland to the Scottish mainland at an HVDC switching station in the vicinity of Noss Head in Caithness. The HVDC switching station works will integrate with the Caithness-Moray Transmission Reinforcement (part of SHET-RI-031) The HVDC link includes a 600MW HVDC converter station and 132kV Substation at Kergord in Shetland. The new 132kV Substation at Kergord will be the collection point for generation in Shetland. The 600MW HVDC link will have approximately 10km of land cable and 260km of subsea cable between Shetland and the HVDC switching station in Caithness.	
Project Completion Date	01/07/2024
Summary of works in last quarter: Noss Head DC Switching Station: Complete HVDC equipment installation and commence Stage 1 commissioning Kergord HVDC Converter: Substantial completion of the HVDC Building and civil works. HVDC equipment and cable installation will continue and AC Gas Insulated Switchgear will be installed in AC Substation. HVDC Cable: Complete land cable installation in Shetland and complete burial and protection of first 100km of offshore cable. Continue offshore cable manufacturing.	
Summary of works in next quarter: Noss Head DC Switching Station: Complete commissioning and energise Noss Head Switching Station. Kergord HVDC Converter: Complete civil works (with exception of final landscaping/reinstatement). Complete HVDC equipment installation and cable pulling/termination works and commence Stage 1 commissioning for HVDC converters and AC substation HVDC Cable: Complete Offshore HVDC cable installation Campaign 2 – c 57 km of cable install and prepare for Campaign 3 cable installation c100km.	
Additional Comments: All works remain on schedule	



TORI SHET-RI-058 - Beauloy-Loch Buidhe 275kV OHL Reinforcement	Scheme Beauloy-Loch Buidhe 275kV OHL Reinforcement
Overview of Works This project is to replace the existing Beauloy -Loch Buidhe 132kV double circuit OHL with a higher capacity 400kV double circuit OHL.	
Project Completion Date	31/07/2030
Summary of works in last quarter: Reinforcement will be now be constructed at 400 kV based on NOA7 Refresh Option BLN4, with an EISD of 2031. Refreshed TORI-058 and LCP documentation being prepared by SP&I.	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-059 - Third 2GW East Coast HVDC Link Peterhead to England	Scheme Third 2GW East Coast HVDC Link Peterhead to England
Overview of Works Install an indoor 2GW HVDC converter station with associated equipment. HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid.	
Project Completion Date	31/10/2030
Summary of works in last quarter: Project on hold.	
Summary of works in next quarter: Project on hold.	
Additional Comments: N/A	



TORI SHET-RI-061 - Skye Overhead Line Reinforcement	Scheme Skye Overhead Line Reinforcement
Overview of Works Construct a new 132kV circuit from Fort Augustus to Ardmore. The circuit is proposed as double circuit structure from Fort Augustus to Broadford, Single Circuit Structure from Broadford to Edinbane and single circuit structure from Edinbane to Ardmore (approximately 160km Fort Augustus 132kV substation to Ardmore 132kV substation).	
Project Completion Date	31/10/2026
Summary of works in last quarter: Continue to engage with key stakeholders following submission of the Section 37 and Final Needs Case for this project. Conclude the Tenders and identify the preferred contractors to provide the detailed design and progress the construction works.	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-065a - Beauly 132 kV Substation Redevelopment	Scheme Beauly 132 kV Substation Redevelopment
Overview of Works Establish a new 132kV double busbar arrangement at Beauly substation and transfer of the circuits from the existing 132kV busbar to the new busbar. Connect the new 132kV double busbar to the existing 275kV busbar via two new 360MVA 275/132kV transformers. Provision of a third new 360MVA 275/132kV transformer will be undertaken under SHET-RI 065b	
Project Completion Date	31/10/2024
Summary of works in last quarter: Initial mobilisation to site Formation of access track to main platform completed Site clearance and tree felling completed Ongoing discharge of Planning Conditions Bulk earthworks commenced Construction of main compound platform complete	
Summary of works in next quarter: Complete the platform construction Install and complete the main compound welfare & office facilities. Commence construction of the main building.	
Additional Comments: N/A	



TORI SHET-RI-065b - Beauly 3rd SGT Replacement	Scheme Beauly 3rd SGT Replacement
Overview of Works Replacement of third existing 275/132kV 120MVA SGT with a new 360MVA 275/132kV transformer. SHET-RI 065a covers establishment of a new 132kV double busbar arrangement at Beauly substation and transfer the circuits from the existing 132kV busbar to the new busbar.	
Project Completion Date	31/10/2025
Summary of works in last quarter: See TORI-065a	
Summary of works in next quarter: See TORI-065a	
Additional Comments:	



TORI SHET-RI-066 - Fort Augustus Substation 400/275kV Development	Scheme Fort Augustus Substation 400/275kV Development
Overview of Works Develop the existing Fort Augustus substation to include a new 275kV busbar. The 275kV busbar is connected to the 400kV busbar via two 1200MVA 400/275kV Supergrid transformers. The 400kV busbar is part of SHET-RI-064 works.	
Project Completion Date	TBC
Summary of works in last quarter: Project on hold	
Summary of works in next quarter: Project on hold	
Additional Comments: N/A	



TORI SHET-RI-068 - Fort Augustus -Invergarry-400/132kV Development	Scheme Fort Augustus -Invergarry-400/132kV Development
Overview of Works Upgrade the existing 132kV double circuit OHL between Fort Augustus and Invergarry substation with a new 400kV OHL. The existing 132kV OHL forms part of the Fort Augustus to Fort William FFE/FFW Circuits. Part of the upgrade is to establish a 400/132kV substation at Invergarry to connect the existing 132kV OHL from Fort William and Invergarry Generation. The new 400kV OHL will terminate into the 400kV busbar at Fort Augustus. The 400kV busbar is part of SHET-RI-064 works.	
Project Completion Date	31/10/2027
Summary of works in last quarter: Review and progress Consultation feedback Continued engagement with landowners and stakeholders Ongoing Environmental and Engineering works Prepare for substation pre application notices and consultation	
Summary of works in next quarter: Submission of section 37 consent application PAN events to support Town and Country Planning consent applications for substation	
Additional Comments: N/A	



TORI SHET-RI-069 - Kinardochoy Reactive Compensation	Scheme Kinardochoy Reactive Compensation
Overview of Works Reactive Compensation is required at a new Kinardochoy substation for voltage support on the 275kV Beauldy-Denny overhead line. The Reactive Compensation will require a capability of +325MVAR and -225MVAR.	
Project Completion Date	31/08/2024
Summary of works in last quarter: Cladding of the GIS building and commencement of the internal fit out, Completion of the perimeter fencing and site drainage, Completion of the STATCOM building foundation and main transformer base.	
Summary of works in next quarter: Completion of all the outdoor structure bases, Completion of the internal fit out of the buildings – ready for switchgear assembly, Site clearance for the commencement of work on the two new permanent terminal tower foundations.	
Additional Comments: N/A	



TORI SHET-RI-075 - Orkney 132kV Infrastructure Finstown - Ellibster	Scheme Orkney 132kV Infrastructure Finstown - Ellibster
Overview of Works SHET-RI-075 works forms part of the Orkney 132kV Local Onshore Transmission Infrastructure. The works includes the establishment of the 132 kV Switching Station at Ellibster and a 132kV OHL Trident wood pole connection from Ellibster to Finstown Substation. Note that Finstown 132kV Substation is established as part of SHET-RI-019 works.	
Project Completion Date	30/04/2025
Summary of works in last quarter: Project on hold.	
Summary of works in next quarter: Project on hold.	
Additional Comments: N/A	



TORI SHET-RI-079a - Blackhillock Additional 275/132kV SGTs	Scheme Blackhillock Additional 275/132kV SGTs
Overview of Works Reinforce the transmission network at Blackhillock substation by installing additional new 275/132kV Supergrid Transformer and connect the existing 132kV GIS busbar to the 275kV AIS busbar and all associated protection, control and ancillary equipment. The transformer is to be rated at 360MVA.	
Project Completion Date	30/06/2027
Summary of works in last quarter: Refine outline design and align programme to reinforcement driver.	
Summary of works in next quarter: Prepare works information in advance of issuing as part of an Invitation to Tender (ITT) which is aligned to the Elchies WF connection.	
Additional Comments: Project split from SHET-RI-079b. SHET-RI-079 originally consisted of 2 SGTs and has now been split into delivery of 1 initially (SHET-RI-079a) and another later if it is triggered (SHET-RI-079b).	



TORI SHET-RI-079b - Blackhillock Additional 275/132kV SGTs	Scheme Blackhillock Additional SGTs
Overview of Works Reinforce the transmission network at Blackhillock substation by installing additional new 275/132kV Supergrid Transformer and connect the existing 132kV GIS busbar to the 275kV AIS busbar and all associated protection, control and ancilliary equipment. The transformer is to be rated at 360MVA.	
Project Completion Date	30/06/2027
Summary of works in last quarter:	
Summary of works in next quarter: Refine outline design and align programme to reinforcement driver.	
Additional Comments: Project split from SHET-RI-079a. SHET-RI-079 originally consisted of 2 SGTs and has now been split into delivery of 1 initially (SHET-RI-079a) and another later if it is triggered (SHET-RI-079b).	



TORI SHET-RI-086 - Craig Murrail Switching Station	Scheme Craig Murrail Switching Station
Overview of Works Construct a new 275kV substation on the Inveraray to Crossraig OHL near Lochgilphead. The Port Ann GSP is to be connected to Craig Murrail via new 33kV cable circuits.	
Project Completion Date	30/04/2027
Summary of works in last quarter: Engagement with the overhead line, substation and underground cable supply chain participating in the tender process. Interface with the relevant stakeholders following submission of the Town & Country planning and Section 37 applications.	
Summary of works in next quarter: The procurement tender process for all the main works is in progress and will be concluded in the next quarter. Following conclusion of the substation contract tender events, the preferred bidders will be notified and contract awards prepared initially covering the design, procurement and mobilisation activities.	
Additional Comments: N/A	



TORI SHET-RI-088 - Loch Buidhe - Dounreay 275kV Reinforcement	Scheme Loch Buidhe - Dounreay 275kV Reinforcement
Overview of Works Increase the operating temperature of the existing 275kV double circuit OHL between Loch Buidhe and Dounreay (approximately 87km). The double circuit is proposed to be operated at 90°C which will increase the thermal capability of the circuit.	
Project Completion Date	31/08/2025
Summary of works in last quarter: SP&I continuing to develop initial needs case of increasing the operating temperature on the existing 275 kV circuit	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-089 - Farigaig SGT2 Upgrade	Scheme Farigaig SGT2 Upgrade
Overview of Works Upgrade the 120MVA 275/132kV SGT2 at Farigaig substation to a 240MVA SGT, to facilitate the connection of generation in the area.	
Project Completion Date	30/08/2024
Summary of works in last quarter: <ul style="list-style-type: none"> At the request of the user RES the replacement of the SGT2 transformer will revert from an online build to an offline build solution. This request is via a User MODAPP which is the driver for SHET-RI-089. The MODAPP will result in the project completion date being deferred by circa 12 months to 30/08/2025 	
Summary of works in next quarter: SSER have purchased the Aberarder windfarm and will be delaying the TORI energisation date to August 2025. They are also considering reverting to an online Tx replacement.	
Additional Comments: Order for SGT has been placed with manufacturer. Delivery in May 2025.	



TORI SHET-RI-090 - Coupar Angus - Errochty 132kV Reconductoring	Scheme Coupar Angus - Errochty 132kV Reconductoring
Overview of Works Reconductor approximately 15.4km of the existing 132kV double circuit OHL between Errochty and Clunie substations. This double circuit is to be reconducted with UPAS conductor (1 x 300mm ²) and will operate at 75°C to give a minimum summer pre-fault rating of 176MVA.	
Project Completion Date	31/10/2026
Summary of works in last quarter: Project on hold.	
Summary of works in next quarter: Project on hold.	
Additional Comments: N/A	



TORI SHET-RI-093 - East Coast Phase 2 - 400kV Reinforcement	Scheme East Coast Phase 2 - 400kV Reinforcement
Overview of Works Upgrade the existing Blackhillock / Rothienorman / Kintore / Alyth / Kincardine east coast 275kV circuits to 400kV operation. Establish a new 400kV double busbar at Kintore to enable this upgrade. This upgrade also interfaces at Blackhillock 400kV Substation and with Scottish Power Transmission (SPT) at Kincardine substation. SPT will be responsible for all the 400kV OHL upgrade and substation works beyond the SSEN Transmission/SPT Boundary (Boundary 4).	
Project Completion Date	31/10/2026
Summary of works in last quarter: Kintore Substation Works – TBC Fetteresso 400kV upgrade – Substation and Transformer ITT documentation to be issued to Framework Contractors. East Coast OHL 400kV Upgrade Works – Access and foundation upgrade works have commenced in advance of reconductoring works starting in April 2023. Blackhillock PSTs – Pre Qualification Questionnaire to be issued for equipment supply.	
Summary of works in next quarter: East Coast OHL 400kV Upgrade Works – Access and foundation upgrade works continue. Reconductoring and reinsulating works to begin in April.	
Additional Comments: N/A	



TORI SHET-RI-106b - Connagill 2nd SGT	Scheme Connagill 2nd SGT
Overview of Works At Connagill substation, install a 2nd 275/132kV 360MVA supergrid transformer, to enable the connection of wind generation in the local area to the Dounreay – Loch Buidhe 275kV circuit.	
Project Completion Date	18/08/2025
Summary of works in last quarter: Continued procurement of SGT and commencement of further works information for remaining substation works. Programme reviewed and completion date amended to allow for procurement lead times of the SGT. Handover of the project from Development to Delivery.	
Summary of works in next quarter: Issue ITT for the SGT and continue the works information for the remaining substation works.	
Additional Comments: N/A	



TORI SHET-RI-107 - North Argyll - Inveraray Reinforcement	Scheme North Argyll - Inveraray Reinforcement
Overview of Works Reinforce the double circuit overhead line between North Argyll 275/132kV substation (established as part of SHET-RI-013) and Inveraray 132kV switching station. This reinforced circuit will connect to the double circuit overhead line from Crossaig (rebuilt as part of SHET-RI-050) approximately 2.8km away from Inveraray.	
Project Completion Date	30/04/2027
Summary of works in last quarter: Tender process ongoing.	
Summary of works in next quarter: Appointment of preferred bidder (OHL works) and commencement of Initial Works design phase.	
Additional Comments: N/A	



TORI SHET-RI-111 - Abernethy 132kV Mesh Corner	Scheme Abernethy 132kV Mesh Corner
Overview of Works At Abernethy 132/33kV substation, install a four circuit breaker mesh corner. This will be connected to the existing Burghmuir – Charleston 132kV double circuit overhead line (PCN/CAS).	
Project Completion Date	31/10/2022
Summary of works in last quarter: On Hold	
Summary of works in next quarter: On Hold	
Additional Comments: N/A	



TORI SHET-RI-115 - Melgarve 400/132 kV Substation Additional SGTs	Scheme Melgarve 400/132 kV Substation Additional SGTs
Overview of Works At Melgarve substation (established under SHET-RI-085a and SHET-RI-085b), install an additional two 480MVA SGTs to enable the connection of wind generation in the area.	
Project Completion Date	01/07/2026
Summary of works in last quarter: Project on hold	
Summary of works in next quarter: Project on hold	
Additional Comments: N/A	



TORI SHET-RI-116 - Kergord - Yell 132kV Connection	Scheme Kergord - Yell 132kV Connection
Overview of Works On Shetland install a new 132kV single circuit between the Kergord 132kV substation (established as part of SHET-RI-053) and a new 132kV switching station on Yell, to enable the connection of renewable generation.	
Project Completion Date	01/04/2027
Summary of works in last quarter: Re-planning project due to all customer connections now moved to 2027	
Summary of works in next quarter: Marine survey starts Final design for Kergord platform entry completes. Helicopter route review for OHL fly over completes. OHL design freeze Environmental assessment activities ongoing	
Additional Comments: N/A	



TORI SHET-RI-117 - Tealing 275kV Busbar Upgrade	Scheme Tealing 275kV Busbar Upgrade
Overview of Works At Tealing remove the existing 275kV 2500A rated busbar and replace with a new 4000A rated 275kV double busbar complete with two bus couplers, one bus section and busbar selection on all feeder bays.	
Project Completion Date	18/11/2022
Summary of works in last quarter: Circuit 3 works completed and import connection provide and project progressing to close out status	
Summary of works in next quarter: Project will be closed by end of May, some items to be tidied up before leaving site	
Additional Comments: N/A	



TORI SHET-RI-119 - Corriemoillie Transformer Protection Modification	Scheme Corriemoillie Transformer Protection Modification
Overview of Works At the existing Corriemoillie substation, install a 3 ended grid transformer differential protection scheme on GT2 to enable the connection of a second generator at Corriemoillie.	
Project Completion Date	31/10/2024
Summary of works in last quarter: Continued discussions on how best to proceed with project	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-120 - East Coast 132kV Upgrade	Scheme East Coast 132kV Upgrade
<p>Overview of Works</p> <p>Construct a new Grid Supply Point substation near Fiddes connected to the 275kV double circuit tower line XT1/XT2 between Kintore and Tealing.</p> <p>Construct a new 132kV double circuit overhead line between Brechin and the Tealing/Arbroath/Brechin Tee Point.</p> <p>Reconductor the existing double circuit tower line between Tealing and the Tealing/Arbroath/Brechin Tee Point.</p> <p>Dismantle the existing Fiddes 132/33kV substation.</p> <p>Dismantle the existing 132kV single circuit overhead line between the Craigiebuckler/Tarland/Fiddes Tee Point and the Brechin Substation.</p>	
Project Completion Date	31/10/2026
<p>Summary of works in last quarter:</p> <p>Ongoing System Planning and Asset Management review of the overhead line options between Brechin and the Tealing/Arbroath/Brechin Tee Point.</p>	
<p>Summary of works in next quarter:</p> <p>Ongoing System Planning and Asset Management review of the overhead line options between Brechin and the Tealing/Arbroath/Brechin Tee Point.</p>	
<p>Additional Comments:</p> <p>N/A</p>	



TORI SHET-RI-121 - Charleston - Abernethy 132kV Reconductoring	Scheme Charleston - Abernethy 132kV Reconductoring
Overview of Works Reconductor approximately 25km of 132kV OHL between Abernethy 132kV substation and Charleston 132kV substation. The circuit should be reconducted with a conductor capable of a minimum summer pre-fault rating of 150MVA.	
Project Completion Date	31/10/2028
Summary of works in last quarter: On Hold.	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-123 - Shin - Loch Buidhe 132kV Reconductoring	Scheme Shin - Loch Buidhe 132kV Reconductoring
Overview of Works Following the completion of SHET-RI-058, Shin substation will be radially connected into Loch Buidhe 132kV substation via the existing 132kV double circuit. TORI-123 project is to reconductor this 132kV double circuit overhead line between Shin substation and Loch Buidhe substation. The double circuit should be reconducted with a minimum summer pre-fault rating of 190MVA.	
Project Completion Date	31/10/2030
Summary of works in last quarter: SP&I Network Planning team undertaking strategic studies alongside SHET-RI-058 to assess 132kV double circuit overhead line between Shin substation and Loch Buidhe substation	
Summary of works in next quarter: Due to be presented to system development board	
Additional Comments: N/A	



TORI SHET-RI-124 - 2nd Shetland HVDC Link Kergord - Rothienorman	Scheme 2nd Shetland HVDC Link Kergord - Rothienorman
Overview of Works Construct a 2nd 600MW (tbc) HVDC link from Kergord 132kV substation on Shetland (established under SHET-RI-053) to the Scottish mainland at an HVDC convertor station at Rothienorman substation. The 600MW HVDC link will have approximately 36km of land cable and 320km of subsea cable between Shetland and Rothienorman.	
Project Completion Date	31/10/2026
Summary of works in last quarter: Project on hold.	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-126 - Kergord - Yell 132kV 2nd Connection	Scheme Kergord - Yell 132kV 2nd Connection
Overview of Works On Shetland install a new 2nd 132kV single circuit between the Kergord 132kV substation (established as part of SHET-RI-053) and the South Yell Switching Station (constructed as part of SHET-RI-116), to enable the connection of renewable generation.	
Project Completion Date	TBC if 2 nd circuit is required
Summary of works in last quarter: Project on hold	
Summary of works in next quarter: Project on hold	
Additional Comments: N/A	



TORI SHET-RI-127 - Dounreay - Spittal 400 kV Double Circuit Cable	Scheme Dounreay - Spittal 400 kV Double Circuit Cable
Overview of Works Establish two new 400kV double busbars, one at a new site close to Dounreay and the second close to Spittal. Construct approximately 15km of new 400kV double circuit underground cables from the new site close to Dounreay and Spittal. The new 400kV cable circuits should have a minimum summer rating of 1000MW on each circuit	
Project Completion Date	31/10/2031
Summary of works in last quarter: TORI 127 to be updated to NOA7 refresh option DSDC (Dounreay 400kV substation, Thurso 400kV substation and 400kV OHL rebuild from Dounreay – Thurso – Spittal)	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-128 – Caithness to Peterhead HVDC Link	Scheme Caithness to Peterhead HVDC Link
Overview of Works Transmission reinforcement works associated with the construction of a new HVDC link from the new Spittal 2 275 kV substation (delivered under TORI SHET-RI-153) to Peterhead 400 kV substation. The HVDC link is approximately 145 km from Spittal 2 to Peterhead (115 km subsea cable and 30 km underground cable). The works will be coordinated with the NOA recommendations	
Project Completion Date	31/10/2029
Summary of works in last quarter: TORI to be updated to 2 GW bi-pole HVDC link with metallic return as per NOA7 Refresh option PSDC.	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-129 - Farigaig SGT1 Upgrade	Scheme Farigaig SGT1 Upgrade
Overview of Works Upgrade the 120MVA 275/132kV SGT1 at Farigaig substation to a 240MVA SGT, to facilitate the connection of generation in the area.	
Project Completion Date	01/07/2025
Summary of works in last quarter: Prepare and Issue ITT to Substation Contractor.	
Summary of works in next quarter:	
Additional Comments:	



TORI SHET-RI-130a - North Argyll - Craig Murrail 275kV Operation	Scheme North Argyll - Craig Murrail 275kV Operation
Overview of Works Reinforce the network in the Argyll and Kintyre network to enable 275kV operation of the network from Creag Dhubh substation (established as part of SHET-RI-013) to Craig Murrail Substation. This will require the replacement of the An Suidhe and Crarae substations to enable connection onto the overhead line operating at 275kV.	
Project Completion Date	30/04/2027
Summary of works in last quarter: Engagement with the overhead line and substation supply chain participating in the tender process. Interface with the relevant stakeholders following submission of the Town & Country planning and Section 37 applications.	
Summary of works in next quarter: The procurement tender process for all the main works is in progress and will be concluded in the next quarter. Following conclusion of the substation contract tender events, the preferred bidders will be notified and contract awards prepared initially covering the design, procurement and mobilisation activities.	
Additional Comments: N/A	



TORI SHET-RI-130b - Craig Murrail - Crossaig 275kV Operation	Scheme Craig Murrail - Crossaig 275kV Operation
Overview of Works Reinforce the network in the Argyll and Kintyre network to enable 275kV operation of the network from Craig Murrail substation to a new double busbar substation to be established at Crossaig. This requires the construction of a new Crossaig North 275/132kV Substation adjacent to the existing Crossaig Substation.	
Project Completion Date	30/04/2027
Summary of works in last quarter: Engagement with the overhead line and substation supply chain participating in the tender process. Town & Country Planning Application for Crossaig North 275kV substation, and Section 37 application for movement of towers on existing Inveraray to Crossaig overhead line to link to new substation to be submitted.	
Summary of works in next quarter: The procurement tender process for all the main works is in progress and will be concluded in the next quarter. Following conclusion of the substation contract tender events, the preferred bidders will be notified and contract awards prepared initially covering the design, procurement and mobilisation activities.	
Additional Comments: N/A	



TORI SHET-RI-131 - Brechin 132kV Extension	Scheme Brechin 132kV Extension
Overview of Works Construct 2 new circuit breakers at Brechin Grid Supply point.	
Project Completion Date	31/10/2024
Summary of works in last quarter: Continue optioneering and project development alongside related reinforcement, SHET-RI-120.	
Summary of works in next quarter: Continue optioneering and project development alongside related reinforcement, SHET-RI-120.	
Additional Comments: N/A	



TORI SHET-RI-132 - Beauly-Blackhillock High Temperature Reconductoring	Scheme Beauly-Blackhillock High Temperature Reconductoring
Overview of Works Reconductor the Beauly - Blackhillock 275 kV double circuit line with high temperature conductors. The circuits to be reconducted comprise the existing 275kV overhead lines between Beauly and Knocknagael, and between Knocknagael and Blackhillock. The substation at Knocknagael is adjacent to the existing Foyers line tee point.	
Project Completion Date	30/07/2027
Summary of works in last quarter: Conclusion of system analysis to confirm the required rating increase from the reconductoring and progress the project through to the development stage.	
Summary of works in next quarter: ESO conducting Cost Benefit Analysis to determine the most economic and efficient solution	
Additional Comments: N/A	



TORI SHET-RI-133 - Loch Buidhe SGT Upgrade	Scheme Loch Buidhe SGT Upgrade
Overview of Works Replacement of existing Loch Buidhe 240MVA 132/275kV SGTs with 480MVA units.	
Project Completion Date	30/07/2027
Summary of works in last quarter: Project put on hold as per Change Control CR-274.	
Summary of works in next quarter: Project put on hold as per Change Control CR-274.	
Additional Comments: N/A	



TORI SHET-RI-134 – Beaully-Denny 2 nd Circuit upgrade from 275kV to 400kV	Scheme Beaully-Denny 2 nd Circuit upgrade from 275kV to 400kV
Overview of Works Upgrade the existing Beaully / Fasnakyle/ Fort Augustus / Tummel-Kinardochy / Braco West / Bonny Bridge 275kV circuit to 400kV, mirroring the ratings of the existing 400kV circuit, along the route	
Project Completion Date	31/10/2029
Summary of works in last quarter: Determine if wayleaves are required to be updated for new operating voltage Interface programmes to be created including new sites on Beaully - Deane line	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-136 - Blackhillock 400kV Building Extension	Scheme Blackhillock 400kV Building Extension
Overview of Works Extend existing Blackhillock 400kV GIS building to allow space provision for additional bays.	
Project Completion Date	31/09/2027
Summary of works in last quarter: Change control completed to reflect revised connections which require the additional bays, pushing completion back from 2024 to 2027. Further investigation required to determine if need for project remains. This is pending findings of ongoing system studies. Change Control required to reflect change in scope and drivers, update completion date and budgets.	
Summary of works in next quarter:	
Additional Comments: Work ongoing to determine if need for project remains. There is opportunity to eliminate need for additional bays with system studies required to support confirmation. These studies are pending outputs of HND2.	



TORI SHET-RI-137 - Blackhillock-New Deer-Peterhead 400kV OHL	Scheme Blackhillock-New Deer-Peterhead 400kV OHL
Overview of Works Establish a new 400kV double circuit overhead line from Blackhillock to New Deer (60km) and New Deer to Peterhead (22km).	
Project Completion Date	31/10/2031
Summary of works in last quarter: Following confirmation of preferred substation sites for the new 400kV busbars at Blackhillock (TORI 199), New Deer (SHET-RI-144) and Peterhead at the end of the last quarter, routes for the OHL have been identified. These routes incorporate feedback from public consultation and Hazid workshop and have been assessed and RAG score applied to select a 'preferred route' which shall be taken to public consultation in April. Bird surveys and land referencing work ongoing. Project is being developed in parallel to SHET-RI-007a Beauly - Blackhillock 400kV OHL with shared project team. Routeing to be progressed, incorporating feedback from stakeholder consultation and substation site selections, working towards further engagement in Q1 2023.	
Summary of works in next quarter: Public consultation events. Appointment of ECI. Progression to Gate 1.	
Additional Comments: Project is to connect to proposed 'Blackhillock 2' (TORI199) 'New Deer 2' 400kV substation (SHET-RI-144) and 'Peterhead 2' 400kV substation, to be developed in separate projects, with SHET-RI-137 engaging closely to provide optimised solution.	



TORI SHET-RI-138 - New Deer 400kV Busbar Extension	Scheme New Deer 400kV Busbar Extension
Overview of Works Extend 400kV double busbar to form 3-section busbar at New Deer 400kV Substation.	
Project Completion Date	31/10/2033
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-139 - 2GW HVDC Link New Deer to England	Scheme 2GW HVDC Link New Deer to England
Overview of Works Install an indoor 2GW HVDC converter station with associated equipment at New Deer Substation. HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid.	
Project Completion Date	31/10/2033
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-140 - Thurso South 275 kV Substation Redevelopment	Scheme Thurso South 275 kV Substation Redevelopment
Overview of Works Redevelop the existing Thurso South 275 kV substation into a new 275 kV double busbar arrangement.	
Project Completion Date	01/06/2025
Summary of works in last quarter: Project on hold.	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-141 - Spittal to New Deer HVDC Link	Scheme Spittal to New Deer HVDC Link
Overview of Works Create an HVDC link between Spittal and New Deer.	
Project Completion Date	31/10/2031
Summary of works in last quarter: Option to be withdrawn and replaced by reinforcement SHET-RI-128.	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-142 - Caithness to New Deer 2 - 2 x 1GW HVDC Links	Scheme Caithness to New Deer 2 - 2 x 1GW HVDC Links
Overview of Works Construct 2 x 1GW HVDC links from Spittal to New Deer 2, including converter stations and associated equipment.	
Project Completion Date	31/10/2031
Summary of works in last quarter: Option to be withdrawn and replaced by reinforcement SHET-RI-128.	
Summary of works in next quarter:	
Additional Comments: N/A	



TORI SHET-RI-143 - Kergord - Gremista GSP 132kV Infrastructure	Scheme Kergord - Gremista GSP 132kV Infrastructure
Overview of Works Construct a new 132kV 24km circuit between Kergord substation and Gremista GSP, terminated onto new 132kV feeder bays at Kergord and Gremista. Construct a new Tee point for the connection of a wind farm.	
Project Completion Date	30/04/2025
Summary of works in last quarter: SHEPD ongoing civils works at Gremista to construct Grid Supply Point platform base S37 consultation period completes for OHL Tender appraisals on going for GSP/UGC/OHL project works	
Summary of works in next quarter: SHEPD civils due to complete June/July 2023 ECU due to issue final approved s37 notice Part B contract award for OHL, UGC and Substation Mobilisation activities start for SSENT construction	
Additional Comments: N/A	



TORI SHET-RI-144 - New Deer 2 400kV Substation	Scheme New Deer 2 400kV Substation
Overview of Works Establish a new 400kV substation close to the existing New Deer 400kV substation and tie in the proposed 400kV circuits from Blackhillock to New Deer and New Deer to Peterhead (SHET-RI-137).	
Project Completion Date	31/10/2029
Summary of works in last quarter: Environmental consultant appointed to complete Level 2 assessment for site selection and a preferred site selected (required to inform routing work for OHL project SHET-RI-137). Preferred site presented at public consultation at end of Q1 2023. Gate 1 and associated documents and reviews completed.	
Summary of works in next quarter: Appoint ECI contractor. Progress discussions with landowner at preferred site to secure an Options Agreement. Develop substation design.	
Additional Comments: N/A	



TORI SHET-RI-145 - 2GW HVDC Link New Deer 2 to England	Scheme 2GW HVDC Link New Deer 2 to England
Overview of Works Install an indoor 2GW HVDC converter station with associated equipment at New Deer 2 Substation. HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid.	
Project Completion Date	31/10/2033
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-147 - Tealing 400kV Substation	Scheme Tealing 400kV Substation
Overview of Works Establish a new 400kV substation close to the existing Tealing 275kV Substation.	
Project Completion Date	31/10/2031
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: Undertake public consultation on preferred site and progress environmental surveys and design.	
Additional Comments: N/A	



TORI SHET-RI-148 - Alyth – Tealing 400kV Reinsulation	Scheme Alyth – Tealing 400kV Reinsulation
Overview of Works Re-insulate the 275kV double circuit overhead line between Alyth and Tealing for 400kV operation.	
Project Completion Date	31/10/2031
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: Commence initial tower and foundations conditions surveys and clearance checks.	
Additional Comments: N/A	



TORI SHET-RI-149 - Tealing – Glenrothes Westfield 400kV Rebuild	Scheme Tealing – Glenrothes Westfield 400kV Rebuild
Overview of Works Rebuild the 275kV double circuit overhead line between Tealing and Glenrothes-Westfield for 400kV operation.	
Project Completion Date	31/10/2031
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: Commence initial tower and foundations conditions surveys and clearance checks.	
Additional Comments: N/A	



TORI SHET-RI-150 - Inverguie Tee – Peterhead 132kV Reconductoring	Scheme Inverguie Tee – Peterhead 132kV Reconductoring
Overview of Works Reconductor approximately 6.7km of 132kV OHL between The Inverguie Tee and Peterhead 132kV substation. The circuit should be reconducted with a conductor capable of a minimum summer pre-fault rating of 226MVA.	
Project Completion Date	31/10/2029
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-151 - Peterhead – St Fergus 132kV Line Works -	Scheme Peterhead – St Fergus 132kV Line Works
Overview of Works Overhead line works to bring the 132kV circuit to ground, including any required modifications. Design and installation of one 132kV circuit breaker with three 132kV disconnectors and associated protection and control equipment for each of the two circuits.	
Project Completion Date	31/10/2029
Summary of works in last quarter: Initial high-level project development, along with initial internal governance activities for project inception.	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-153 - Spittal 2 400kV Substation	Scheme Spittal 2 400kV Substation
Overview of Works Construct a new 400 kV substation 'Spittal 2' close to the existing Spittal 275 kV substation in Caithness.	
Project Completion Date	31/10/2028
Summary of works in last quarter: Identification of substation site options Public consultation on identified site options	
Summary of works in next quarter: Refinement of site options and selection of preferred site based on consultation feedback and field based studies Progression and development of site design and configuration	
Additional Comments: N/A	



TORI SHET-RI-155 - Peterhead - Persley Tee 275kV Works	Scheme Peterhead - Persley Tee 275kV Works
Overview of Works Overhead line works to bring the VP 275kV overhead line circuit to ground, including any required tower modifications. Design and installation of one 275kV bus bar including a circuit breaker with four 275kV disconnectors and associated protection and control equipment.	
Project Completion Date	31/05/2027
Summary of works in last quarter: Continuation of project development and conclusion of Gate 1 governance including all associated governance reviews and documentation. Ongoing discussions with the associated Developer.	
Summary of works in next quarter: Continued engagement with the associated Developer. Ongoing Environmental and Engineering works.	
Additional Comments: N/A	



TORI SHET-RI-165 - Alcemi Substation 400kV Switchgear	Scheme Alcemi Substation 400kV Switchgear
Overview of Works Overhead line works to bring the 400kV circuit to ground, including any required modifications. Design and installation of one 400kV circuit breaker with three 400kV disconnectors and associated protection and control equipment for the circuit.	
Project Completion Date	31/10/2029
Summary of works in last quarter: Project set-up ongoing, for example: risk register established, lessons learned register established, P6 programme developed, project budget approved. Ongoing discussions with the associated Developer.	
Summary of works in next quarter: Continued engagement with the Developer. Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-166 - Tealing – Arbroath 132kV Line Works	Scheme Tealing – Arbroath 132kV Line Works
Overview of Works Overhead line works to bring the 132kV circuit to ground, including any required modifications. Design and installation of one 132kV circuit breaker with two 132kV disconnectors and associated protection and control equipment.	
Project Completion Date	30/04/2026
Summary of works in last quarter: Continuation of project development and conclusion of Gate 1 governance including all associated governance reviews and documentation. Ongoing discussions with the associated Developer.	
Summary of works in next quarter: Continued engagement with the associated Developer. Ongoing Environmental and Engineering works.	
Additional Comments: N/A	



TORI SHET-RI-167 - Keith 275kV Sync Comp	Scheme Keith 275kV Sync Comp
Overview of Works Installation of a new 275kV disconnector switch on the 275kV cable circuit side of the 275/132kV Super Grid Transformer at Keith substation.	
Project Completion Date	01/08/2024
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter: On Hold	
Additional Comments: N/A	



TORI SHET-RI-168 - Melvich to Connagill 132kV Connection	Scheme Melvich to Connagill 132kV Connection
Overview of Works Transmission reinforcement works associated with the construction of a new 5.2 km, 132 kV overhead line between Melvich Community wind farm 132/33 kV substation and Connagill substation. The works include the connection to a 132kV bay at Connagill and a single 132kV busbar at Melvich Community Wind Farm.	
Project Completion Date	31/10/2027
Summary of works in last quarter: Continue to develop as part of the wider optioneering works for connection into Connagill including overhead line route optioneering and phasing against other wind farm connections.	
Summary of works in next quarter: Conclude wider optioneering works for connection into Connagill and develop the overhead line solution to suit.	
Additional Comments: N/A	



TORI SHET-RI-171 - OHL Cloiche / Dell to Melgarve	Scheme OHL Cloiche / Dell to Melgarve
Overview of Works	
Project Completion Date	30/04/2026
Summary of works in last quarter: Selection of preferred alignment Statutory and Public consultation held.	
Summary of works in next quarter: Phase 2 intrusive site investigation works. Commence Phase 2 environmental surveys to support EIA preparation. Issue Report on Consultation Issue Scoping and Screening requests to inform EIA and section 37 consent application.	
Additional Comments: N/A	



TORI SHET-RI-172 - Dalwhinnie 400kV Substation	Scheme Dalwhinnie 400kV Substation
Overview of Works	
Project Completion Date	31/10/2029
Summary of works in last quarter: N/A	
Summary of works in next quarter: Project to be kicked off and routeing optioneering process to be started.	
Additional Comments: N/A	



TORI SHET-RI-173 -Golticlay 132/33kV Collector Substation	Scheme Golticlay 132/33kV Collector Substation
Overview of Works Establishment of a 132kV double busbar complete with two bus couplers, one bus section, four feeder bays to connect to the line between Golticlay 132/33kV Collector Substation and 132kV circuits between Loch Buidhe to Spittal; and two feeder bays to connect two 90MVA 132/33kV transformers. Installation of two 90MVA 132/33kV transformers complete with high voltage switchgears. The works also include construction of approximately two 3.5km 132kV double circuits overhead line between Golticlay 132/33kV Collector Substation and 132kV Loch Buidhe to Spittal circuits.	
Project Completion Date	30/10/2027
Summary of works in last quarter: N/A	
Summary of works in next quarter: 	
Additional Comments: N/A	



TORI SHET-RI-174 -Upgrade of Keith SGTs	Scheme Upgrade of Keith SGTs
Overview of Works Replace the existing 132/275kV 240MVA SGTs at Keith 132kV Substation with larger 480/360MVA units.	
Project Completion Date	31/10/2028
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-176 -Pauls Hill/Glenfarclas Circuit Turn In	Scheme Pauls Hill/Glenfarclas Circuit Turn In
Overview of Works Move the existing open point from Keith 132kV Substation to Pauls Hill substation and then turn in the pauls hill/Glenfarclas circuit to Blackhillock 132kV Substation.	
Project Completion Date	30/06/2028
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, proceeding through initial internal governance activities.	
Additional Comments: N/A	



TORI SHET-RI-177 - Tomatin Additional SGTs	Scheme Tomatin Additional SGTs
Overview of Works Install a new 275kV indoor double busbar and two additional 275/132kV Super Grid Transformers at the Tomatin 275/132kV Substation.	
Project Completion Date	31/10/2028
Summary of works in last quarter: Full SSE project team assigned and development commenced.	
Summary of works in next quarter: Development to continue with optioneering of any site extension to Tomatin substation. This will include site visits, studies and design.	
Additional Comments:	



TORI SHET-RI-178 - 275kV Switchgear on Blackhillock to Kintore Circuit	Scheme SHET-RI-178 - 275kV Switchgear on Blackhillock to Kintore Circuit
Overview of Works Creation of a new Tee off compound containing disconnectors and circuit breaker on the Blackhillock to Kintore 275kV OHL.	
Project Completion Date	31/10/2028
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, Proceeding through initial internal governance activities.	
Additional Comments:	



TORI SHET-RI-179 - Construction of a new Peterhead 132kV Substation	Scheme Construction of a new Peterhead 132kV Substation
Overview of Works Construct a second 132kV Substation at Peterhead	
Project Completion Date	31/07/2028
Summary of works in last quarter: Continuation of project development and conclusion of Gate 1 governance including all associated governance reviews and documentation. Site selection ongoing, along with any respective survey works. Engagement with statutory consultees and the public. Prepare and conclude 1 st public consultation, include review and progress 1st Consultation feedback. Discussion with Contractors as part of early engagement proposals.	
Summary of works in next quarter: Conclusion of site selection process. Continued engagement with landowners, stakeholders and statutory consultees. Preparation for 2 nd public consultation event in April 2023. Review and progress 2 nd Consultation feedback. Bird / ecology surveys to commence. Ongoing discussion with Contractors as part of early engagement proposals.	
Additional Comments: 	



TORI SHET-RI-180 - Second 400kV Peterhead Substation	Scheme Second 400kV Peterhead Substation
Overview of Works Construct a second 400kV Substation at Peterhead	
Project Completion Date	
Summary of works in last quarter: Continuation of project development and conclusion of Gate 1 governance including all associated governance reviews and documentation. Site selection ongoing, along with any respective survey works. Engagement with statutory consultees and the public. Prepare and conclude 1 st public consultation, include review and progress 1st Consultation feedback. Discussion with Contractors as part of early engagement proposals.	
Summary of works in next quarter: Conclusion of site selection process. Continued engagement with landowners, stakeholders and statutory consultees. Preparation for 2 nd public consultation event in April 2023. Review and progress 2 nd Consultation feedback. Bird / ecology surveys to commence. Ongoing discussion with Contractors as part of early engagement proposals.	
Additional Comments:	



TORI SHET-RI-181 - Beauly to Loch Buidhe to Dounreay 400kV	Scheme Beauly to Loch Buidhe to Dounreay 400kV
Overview of Works This project is looking to create a 400kV connection between Beauly and Dounreay through Loch Buidhe Substation. This requires the establishment of two 400kV busbars one in each of the substations Loch Buidhe and Dounreay, the installation of two SGTs in each of those substations, and 153km of 400kV double circuit OHL	
Project Completion Date	
Summary of works in last quarter: Identification of route options Public consultations on identified route options and preferred route	
Summary of works in next quarter: Refinement of route options based on consultation feedback and field based studies Identification of alignment options	
Additional Comments:	



TORI SHET-RI-182 - Loch Buidhe to Spittal 2 400kV Reinforcement	Scheme Loch Buidhe to Spittal 2 400kV Reinforcement
Overview of Works Construction of a new 400 kV double circuit OHL between Loch Buidhe and Spittal	
Project Completion Date	
Summary of works in last quarter: Identification of route options Public consultations on identified route options and preferred route	
Summary of works in next quarter: Refinement of route options based on consultations feedback and field based studies Identification of alignment options	
Additional Comments:	



TORI SHET-RI-183 - SHET-RI-183-New 132kV Dundee Substation	Scheme SHET-RI-183-New 132kV Dundee Substation
Overview of Works Construction of a new 132kV double busbar substation in Dundee, to replace Dudhope GSP. This busbar will be fed by turning in the current Dudhope/Milton of Craigie 132kV circuits.	
Project Completion Date	31/10/2027
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, proceeding through initial internal governance activities.	
Additional Comments:	



TORI SHET-RI-184-Coupar Angus 2 Tee V2	Scheme Coupar Angus 2 Tee V2
Overview of Works Establish 2x new 132 kV tee points of the HCS/HCN circuits between Coupar Angus GSP and Tealing/Charleston Tee for the connection to a new Coupar Angus 2 132/33 kV GSP substation.	
Project Completion Date	31/08/2029
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments:	



TORI SHET-RI-187-St Fergus 132kV Substation	Scheme St Fergus 132kV Substation
Overview of Works Establish a new 132kV St Fergus double busbar substation at the site of the existing St Fergus 132kV Switching Station. Split the double busbars and establish an open point between them.	
Project Completion Date	31/10/2033
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments:	



TORI SHET-RI-188-St Fergus to New Deer 2 132kV Reinforcement	Scheme St Fergus to New Deer 2 132kV Reinforcement
Overview of Works New Deer 2 400kV Substation Establish a new 132kV busbar at New Deer 2 substation at install 2x240MVA 400/132kV transformers. Construct a new 132kV double circuit overhead line from New Deer 2 to St Fergus substation (Approx. 26 km). St Fergus Substation (SHET-RI-187) Install 2 new 132kV bay at St Fergus 132kV substation	
Project Completion Date	31/10/2033
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments:	



TORI SHET-RI-189 - Strichen-Fraserburgh to St Fergus 132kV OHL Reconductoring	Scheme Strichen-Fraserburgh to St Fergus 132kV OHL Reconductoring
Overview of Works Upgrade a section of the existing Strichen/Fraserburgh to St Fergus Switching Station 132kV SF1/SF2 OHL.	
Project Completion Date	31/10/2027
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development.	
Additional Comments:	



TORI SHET-RI-191 - Strathy Switching Collector Station Connagill-Strathy double circuit OHL	Scheme Strathy Switching Collector Station Connagill-Strathy double circuit OHL
Overview of Works Install a new 275kV double circuit (initially energised at 132kV) between Connagill 275/132kV substation and a new 132kV switching collector station located at Strathy North Wind Farm substation to enable the connection of renewable generation.	
Project Completion Date	31/07/2029
Summary of works in last quarter:	
Summary of works in next quarter: Will be presented to system development board in next quarter	
Additional Comments:	



TORI SHET-RI-194 - Beauly 2 400kV Switching Station	Scheme Beauly 2 400kV Switching Station
Overview of Works Construct a new 400kV double busbar at Beauly 2 400kV switching station. The 400kV double busbar is to comprise of one bus section breaker and two bus couplers. Allowance should be made for a total of 14 feeder bays (Include space provision only for a further four fully selectable busbar feeder bays).	
Project Completion Date	31/10/2029
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	



TORI SHET-RI-195, Skye HVDC Link	Scheme Skye HVDC Link
Overview of Works Establish a 400MW HVDC link with associated equipment and converter stations between Skye (East Coast of Skye, location to be determined) and the 400kV double busbar at Beaully (established under SHET-RI-194). The HVDC cable is to be approximately 100km. A 25km Double circuit 132kV OHL will be constructed from Edinbane Collector Substation to a new Skye HVDC Converter Station located on the East coast of Skye. The HVDC infrastructure will interface with the 132kV double busbar at Edinbane and the 400kV double busbar at Beaully.	
Project Completion Date	30/04/2034
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	



TORI SHET-RI-196 - Whitehouse Substation 275kV Switchgear	Scheme Whitehouse Substation 275kV Switchgear
Overview of Works Construct a new 275kV line circuit breaker bay on the 275kV Craig Murrail - Crossaig West circuit at the future Whitehouse 275kV Substation.	
Project Completion Date	31/10/2034
Summary of works in last quarter: N/A	
Summary of works in next quarter: Project to be initiated through internal governance and initial high-level project development commenced.	
Additional Comments:	



TORI SHET-RI-197 - Kintyre to North Wales HVDC Link	Scheme Kintyre to North Wales HVDC Link
Overview of Works Construction of a new AC/DC converter station, with the AC end connected to the Creag Dhubh 275kV double busbar substation. The DC circuit is to be a bi-pole, solid return design, routed through the sea towards North Wales (landing point to be confirmed).	
Project Completion Date	31/10/2034
Summary of works in last quarter: N/A	
Summary of works in next quarter: Project to be initiated through internal governance and initial high-level project development commenced.	
Additional Comments:	



TORI SHET-RI-198 - Beinn Glass Tee 132kV Switching Station	Scheme Beinn Glass Tee 132kV Switching Station
Overview of Works Construct a new 132kV switching station at the site where the Beinn Glass 132kV circuit tees into the Taynuilt to Creag Dhubh 132kV tower line. At the new switching station, install a new 132kV line circuit breaker and associated disconnectors, protection panels, battery systems etc.	
Project Completion Date	31/10/2035
Summary of works in last quarter: 	
Summary of works in next quarter: On Hold	
Additional Comments: 	



TORI SHET-RI-199 - Blackhillock 2 400kV Substation	Scheme Blackhillock 2 400kV Substation
Overview of Works Establish a new 400kV substation close to Blackhillock 400kV substation and tie in the proposed 400kV circuits as part of the NOA BBNC/BPNC upgrade.	
Project Completion Date	31/10/2028
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments:	



TORI SHET-RI-200 - Loch Buidhe 400-275kV substation	Scheme Loch Buidhe 400-275kV substation
Overview of Works This project is looking to establish a new 400kV substation adjacent to the existing 275kV Loch Buidhe substation. Install 2 x 1200MVA, 400/275kV supergrid transformers (SGT1 and SGT2).	
Project Completion Date	31/07/2029
Summary of works in last quarter:	
Summary of works in next quarter: Bird Surveys (Environmental Survey Beginning in April) 12 Month Data Range Topographical Surveys of the Substation proposed area. Lidar Drone Scanning of the proposed Substation Area Peat Probing within the Substation proposed footprint	
Additional Comments:	



TORI SHET-RI-201 - Foyers Substation Extension and Connection to Loch Kemp	Scheme Foyers Substation Extension and Connection to Loch Kemp
Overview of Works Foyers Substation Extension and Connection to Loch Kemp Extend the existing Foyers 275kV busbar to include a new 275kV bay to connect the new circuit from the Loch Kemp Pumped Storage 275/18kV Substation. Construct a 275kV busbar with three bays at the Loch Kemp 275kV/18kV Substation. The Loch Kemp Pumped Storage 275/18kV Substation will be connected to the existing Foyers 275kV Substation by approximately 10.5km of single circuit 275kV underground cable.	
Project Completion Date	31/10/2030
Summary of works in last quarter: N/A	
Summary of works in next quarter: Project to be initiated through internal governance and initial high-level project development commenced.	
Additional Comments:	



TORI SHET-RI-203 - Fetteresso 132kV Busbar Works	Scheme Fetteresso 132kV Busbar Works
Overview of Works Fetteresso 132kV Busbar Works Add a bus section to the Fetteresso 132kV busbar.	
Project Completion Date	30/06/2029
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments:	



TORI SHET-RI-205 - New East Coast 275 kV Substation	Scheme New East Coast 275 kV Substation
Overview of Works <p>Decommissioning of the existing Fiddes 132/33 kV substation, including all buildings, bunds, plinths, GTs and 132 kV Quad Booster. Switchgear, GTs and Quad Booster should obtain asset condition reports to determine if they should be scrapped or placed into spared. All buildings, plinths and bunds should be broken down to below ground level and made available to others for use.</p> <p>Decommissioning of the existing 132 kV single circuit overhead line between Craigiebuckler/Tarland/ Fiddes Tee Point and Brechin substation (CF-FB circuits). Construction of a new 275 kV double-busbar at Brechin with a single bus section, two bus couplers and a minimum of six feeder bays to turn-in/out XT1/XT2 between Kintore and Tealing and interconnect Brechin 275/132 kV substations. The site should have space provision to house the SGTs and ancillary equipment and potential four future feeder bays.</p> <p>Construction of two 275/132 kV 240 MVA SGTs at Brechin 275 kV substation including two 275 kV circuit breakers, two 275 kV line isolators, two 132 kV circuit breakers and two 132 kV line isolators to interconnect Brechin 275 kV and 132 kV substations.</p> <p>Construction of two 132 kV circuit breakers and four 132 kV line isolators at Brechin 132 kV substation to interconnect Brechin 275 kV and 132 kV substations. Construction of approximately 4.5 km of 132 kV double-circuit overhead line between Brechin 275 kV substation and Brechin 132 kV substation</p>	
Project Completion Date	30/06/2032
Summary of works in last quarter: N/A	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments:	



TORI SHET-RI-206 - Shared Fyrish 132kV Connection	Scheme Shared Fyrish 132kV Connection
Overview of Works Install a new 132 kV single circuit between the Creachan/Ceislein Tee point and Fyrish 275/132 kV substation to enable the connection of renewable generation.	
Project Completion Date	30/07/2029
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	



TORI SHET-RI-207 - Macduff to Blackhillock 132kV OHL	Scheme Macduff to Blackhillock 132kV OHL
Overview of Works Reconductor or Rebuild approx. 37.7km of the 132kV OHL between MacDuff GSP and Blackhillock 132kV Substation.	
Project Completion Date	31/10/2027
Summary of works in last quarter: N/A	
Summary of works in next quarter: Not Currently triggered	
Additional Comments:	

