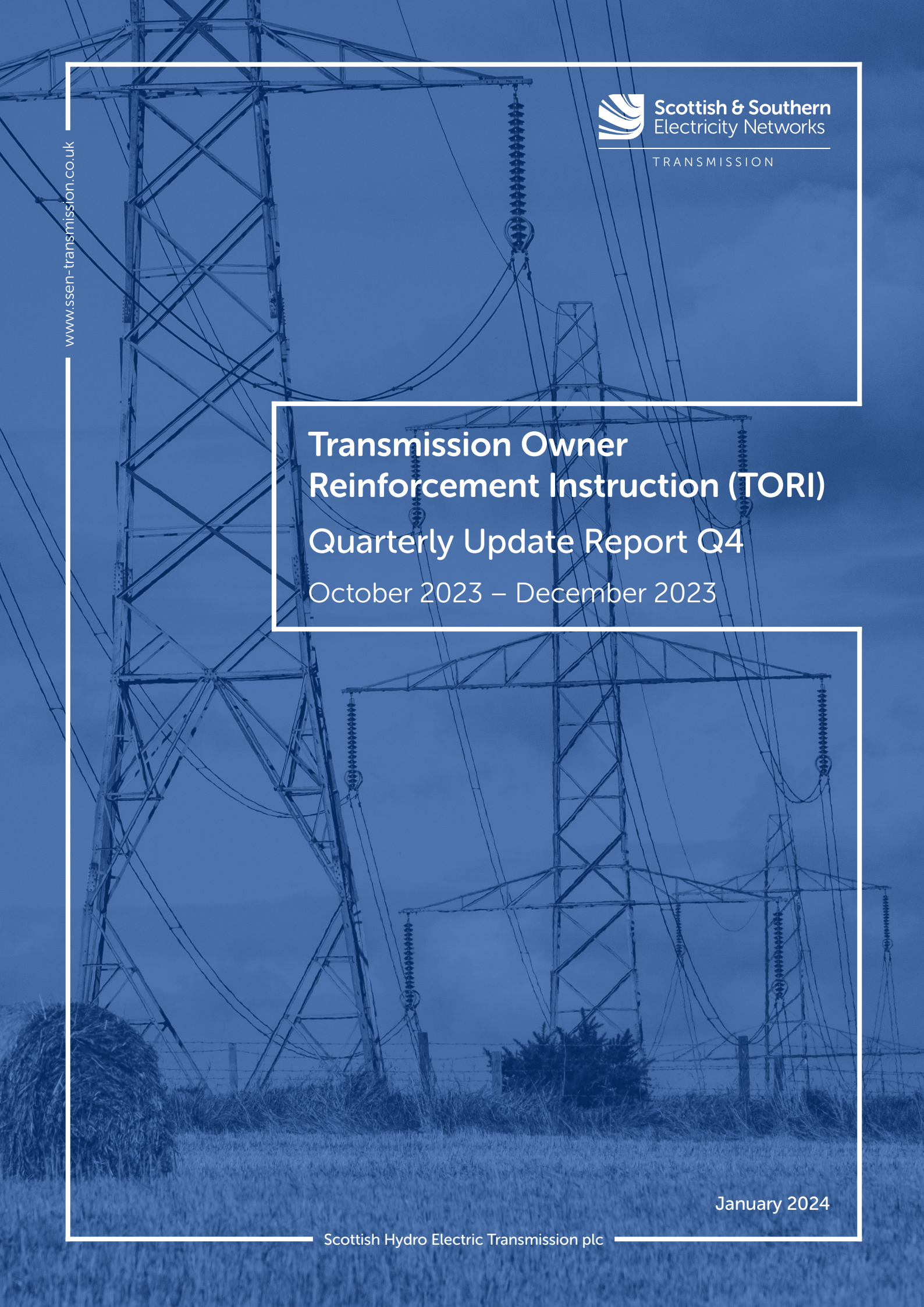

Scottish & Southern Electricity Networks

TRANSMISSION

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Transmission Owner Reinforcement Instruction (TORI)

Quarterly Update Report Q4

October 2023 – December 2023

January 2024

Scottish Hydro Electric Transmission plc

Transmission Owner Reinforcement Instruction (TORI)

Quarterly Update Report Q4

October 2023 – December 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 contracts 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

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TORI SHET-RI-007a - Beauly - Blackhillock 400 kV Double Circuit OHL	**Scheme** Beauly - Blackhillock 400 kV Double Circuit OHL
Overview of Works Establish a new double circuit 400kV overhead line approximately 110km from Beauly to Blackhillock. In an update from initial scope, the new OHL is to connect to a new 400kV busbar at Beauly and a new 400kV busbar at Blackhillock.	
Proposed Consent Submission	01/11/2024
Current Project Phase	Design
Next Project Phase	Consenting
Next Stakeholder Event	February 2023 (Information Event)
Project Completion Date	31/10/2030
Summary of works in last quarter: Further refinement of Route options following consultations earlier in year, concluding with publication of the Report on Consultation. Contractor appointed for Early Contractor Engagement. Walkovers commenced and ongoing to support development of suitable alignments. Environmental assessments ongoing and development of EIA Scope of Works.	
Summary of works in next quarter: Further development of Alignment through discussion with landowners, engagement at public 'Information Events' and further studies by Contractor.	
Additional Comments: Project is being developed in parallel to SHET-RI-137 Blackhillock – New Deer – Peterhead 400kV OHL with shared project team. New Beauly 400kV Busbar to be connected to is captured in scope of SHET-RI-007b. New Blackhillock 400kV Busbar (Coachford) 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 Busbar extension at the existing Beauly substation.	
Proposed Consent Submission	tbc
Current Project Phase	Optioneering
Next Project Phase	Design
Next Stakeholder Event	tbc
Project Completion Date	tbc
Summary of works in last quarter: • Optioneering	
Summary of works in next quarter: • Design	
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.	
Proposed Consent Submission	Complete
Current Project Phase	Execution
Next Project Phase	Operation
Next Stakeholder Event	TBC
Project Completion Date	31/10/2023
Summary of works in last quarter:	
Summary of works in next quarter (Alyth Substation):	
Additional Comments: N/A	

TORI SHET-RI-013 - North Argyll Substation	**Scheme** North Argyll Reinforcement (Substation and OHL)
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 with provision for additional future feeder bays. Establish a new 275 kV double circuit OHL between Creag Dhubh (North Argyll) substation and a tie in point on existing Dalmally – Windyhill SPEN circuit, near Dalmally.	
Proposed Consent Submission	Creag Dhubh Substation consented. Overhead line consent subject to Public Local Inquiry.
Current Project Phase	Execution
Next Project Phase	Operation
Next Stakeholder Event	TBC
Project Completion Date	30/11/2027
Summary of works in last quarter: Initial Works contract ongoing (detailed design deliverables). Submission of deliverables to Planning Authority to clear consent pre-commencement conditions is ongoing. The Super Grid Transformers order has been placed.	
Summary of works in next quarter: Progress the Initial Works contract design deliverables. Forestry Contractor will mobilise early in 2024 to commence substation tree felling. Submission of deliverables to Planning Authority to clear remaining consent substation pre-commencement conditions.	
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 220/132/33kV 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.	
Proposed Consent Submission	Complete
Current Project Phase	Refinement
Next Project Phase	Delivery
Next Stakeholder Event	None planned at present.
Project Completion Date	Q2 2028
Summary of works in last quarter: Part A Design Works and Pre-Commencement Conditions Works have progressed. Negotiations for Part B Contracts with Cable System, UGC Civils and Substations Contractors are underway. PSR3 complete – 06 December 2023.	
Summary of works in next quarter: Completion of Part A Design Works, securing of Long Lead Equipment and completion of Stage Gate 3 in March 2024.	
Additional Comments: Part B Contract Award targeted April 2023.	

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.	
Proposed Consent Submission	N/A
Current Project Phase	N/A
Next Project Phase	N/A
Next Stakeholder Event	N/A
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	Scheme
SHET-RI-025a - Peterhead-Rothienorman 400 kV OHL upgrade	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.

Proposed Consent Submission	Consent approved
Current Project Phase	Commissioning
Next Project Phase	Handover to operations
Next Stakeholder Event	N/A
Project Completion Date	30/10/2023

Summary of works in last quarter:

Circuit HR2 was energised at 400kK on 20th December 2023. Both circuits now fully energised from Blackhillock to Peterhead at 400kV

Summary of works in next quarter:

Remainder of redundant equipment to be taken down and removed off site comprising of tower 1a and 1b and gantry within Blackhillock substation.

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.	
Proposed Consent Submission	All material consents approved pending discharge of conditions
Current Project Phase	Refinement
Next Project Phase	Construction
Next Stakeholder Event	
Project Completion Date	31/10/2029
Summary of works in last quarter: Continued Early Works and Site Verification with Converter / Civils preferred bidder Submitted final Ofgem Project Assessment Phase 2B - November Continued Employer Led Offshore UXO Surveys Commenced Enabling Part A Design development Completed PSR and PAR governance – Gate 3 – moving from Refinement in Construction phase	
Summary of works in next quarter: Receive Ofgem Project Assessment Determination – estimated 15th Dec Conclude negotiations on main EPC contracts. Conclude Employer Led Offshore UXO Surveys Launch Employer Led UXO Target Investigation tender	
Additional Comments:	

TORI	Scheme
SHET-RI-025c - Peterhead 400 kV Busbar	Peterhead 400 kV Busbar

Overview of Works

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.

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.

Proposed Consent Submission	Complete
Current Project Phase	Commissioning
Next Project Phase	Gate 5 to Operations Q2 2024
Next Stakeholder Event	
Project Completion Date	06/12/2023

Summary of works in last quarter:

275kV cable VV1 circuit terminations, cable HV testing, and busbars installed now all installed and energised 31st August 2023.

All 6 275kV cable on the second circuit VV2 are now installed, following a failed sheath test on the red phase of this group it was removed, replaced and sheath tested prior to the VND1 outage commencing.

Hitachi remedial works on GIS RBB gas leak remedial works complete followed by a further successful High Voltage test in July 2023.

VND1 outage commenced 11th September allowing all remaining outage works to commence including VND1/VV2 P&C mods, removal of VND1 downleads from T92 within the existing 275kV substation and 275kV cable works on VV2 circuit.

Summary of works in next quarter:

Full energisation achieved 6th December 2023 of VND1 OHL, SGT5 and VV2 275kV cable circuit. List of Defects for Contractor to attend to and updating and submittal of all final records and As Builts throughout next quarter. Gate 5 handover provisionally arranged late March 2024.

Additional Comments:

N/A

TORI	Scheme
SHET-RI-025d - North East Reinforcement	North East Reinforcement

Overview of Works

Re-insulate the 275kV double circuit overhead lines between Rothienorman – Blackhillock and Rothienorman - Kintore for 400kV operation.

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.

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.

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.

Proposed Consent Submission	Complete
Current Project Phase	Commissioning
Next Project Phase	Handover to Operations
Next Stakeholder Event	N/A
Project Completion Date	31/03/2024

Summary of works in last quarter:

Rothienorman: All works pertaining to the upgrade of existing six overhead line feeder circuits and their associated infrastructure has been completed as per plan. First 400/33kV super grid transformer has been energised successfully and all redundant equipment has been removed from site for strategi storage.

New Deer: All works pertaining to the upgrade of existing four overhead line feeder circuits three cable feeder circuits and their associated infrastructure has been completed as per plan. All redundant equipment has been packaged in readiness to be shipped off site for strategic storage.

Blackhillock: all reconfiguration of GIB complete and downleads from towers attached to the existing AIS equipment. All protection and control modifications complete and commissioned. Both HR1 and HR2 circuits fully energised at 400kV.

Summary of works in next quarter:

Rothienorman: Planned works to complete commissioning and energisation of second 400/33kV super grid transformer unit as well as finalisation of landscaping activities in line with agreed targets. There will be ongoing activity for construction of 400kV synchronous compensator cable connection bay.

New Deer: Demobilisation efforts will be underway to remove temporary site compound and complete the project works.

Blackhillock: Removal of remaining redundant AIS equipment and structure to be taken down and removed off site.

Additional Comments:
N/A

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.	
Proposed Consent Submission	N/A
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	N/A
Project Completion Date	08/05/2028
Summary of works in last quarter: The project attended the Transmission Network Steering Committee in November, to obtain buy in from the business on an updated delivery for the project. The project will now aim to deliver a power flow control device out with the RIIO-T2 period, with an updated PQQ to be issued imminently.	
Summary of works in next quarter: The project will be working towards the delivery of all Gate 2 deliverables, ahead of the Gate 2 on 13 March next year. The DAR has been scheduled for 29 January, with a Status Check proposed w/c 12 February.	
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.	
Proposed Consent Submission	Consented
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	N/A
Project Completion Date	01/04/2027
Summary of works in last quarter: Ongoing engagement with Gills Bay connecting developers to confirm status of their projects to inform the Gills Bay needs case. Ongoing engagement with affected landowners to ensure land agreements are maintained.	
Summary of works in next quarter: Ongoing engagement with Gills Bay connecting developers to confirm status of their projects to inform the Gills Bay needs case. Ongoing engagement with affected landowners to ensure land agreements are maintained. Preparation of a enabling works package to trigger the S37 consent.	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-033 - Second 2 GW East Coast HVDC Link Peterhead to England	Second 2 GW East Coast HVDC Link Peterhead to England

Overview of Works

Install 525kV 2GW HVDC link between the Netherton Hub in Aberdeenshire (SHE-Transmission) to England (southern landing point and AC connection tie in to be confirmed). Work includes a 2GW converter at either end of the link, with HVDC cables to be routed underground between converter site and landfall, and sub marine cables between landfall locations. The project will be developed and delivered jointly with National Grid Electricity Transmission (NGET).
This TORI describes the SSENT works.

Proposed Consent Submission	Northern Converter Site - Aug 24 (PPiP as part of Netherton Hub); Marine consents - Dec 24
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	PAC1 – Feb 24
Project Completion Date	31/10/2031

Summary of works in last quarter:

- SteerCo approval of procurement strategy for Lot 1, 2 & 3
- Issue of PQQ to the market for lots 1 & 2
- GI factual report complete
- Cable route alignment agreed
- Environmental surveys ongoing
- PAN/PAC Preparation

Summary of works in next quarter:

- PAR & Gate 1
- RFP preparation for procurement lots
- 3D design freeze to feed into the EIA report.
- Marine Survey complete
- PAC1 complete
- Onshore cable GI

Additional Comments:

N/A

TORI SHET-RI-034 Inveranan 132kV QB	**Scheme** Inveranan 132kV QB
Overview of Works Supply and installation of power flow control devices to provide required power flow stability within local area network.	
Proposed Consent Submission	Autumn 2026
Current Project Phase	Opportunity
Next Project Phase	Development
Next Stakeholder Event	TBC
Project Completion Date	Autumn 2030
Summary of works in last quarter: - Project awaiting allocation to project team	
Summary of works in next quarter: - Project Kick off meeting with project team. - Project team site visit. - Securing required project resources. - Investigation into power flow requirements.	
Additional Comments: N/A	

TORI SHET-RI-043 - Lewis Infrastructure	**Scheme** Lewis Infrastructure
Overview of Works Requirement to construct a switching station at Balallan to accommodate the newly proposed Muaitheabhal wind farm connection. The switching station will comprise of 5 bays; 2 which allow for the existing Harris-Stronoway 132kV circuit to be connected and 1 for the wind farm connection. There is an allowance of 2 spare bays for future development.	
Proposed Consent Submission	Q2 2025
Current Project Phase	Passed Gate 1 in October
Next Project Phase	Gate 2 March 2025
Next Stakeholder Event	TBC
Project Completion Date	30/10/2030
Summary of works in last quarter: • DAR/PSR completed to facilitate Gate 1 in October • All documentation pulled together and submitted • Public consultation conducted • GI scope produced and reviewed	
Summary of works in next quarter: • Environmental surveys ongoing • CR to be submitted to detail the change in scope from 5 bay to 7 bay (to accommodate future generation) • Engineering works ongoing • GI scope sent out to tender	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-046 - Taynuilt-North Argyll Rebuild	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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2028
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-050b - Port Ann - Crossaig Reinforcement	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.

Proposed Consent Submission	N/A
Current Project Phase	Execution
Next Project Phase	Handover to Operations
Next Stakeholder Event	N/A
Project Completion Date	21/12/2023

Summary of works in last quarter:

Demolition of the existing 132kV overhead line asset has been substantially progressed with conductor removal and tower felling operations now complete.

Reinstatement works involving the removal of temporary tracks and restoration of tower compounds has been completed.

Summary of works in next quarter:

The scope to remove the remaining existing 132kV asset foundations of the shall be reviewed. All access points and tower sites shall be handed back to landowners.

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.	
Proposed Consent Submission	n/a
Current Project Phase	Execution (Commissioning)
Next Project Phase	Operate & Evaluate
Next Stakeholder Event	n/a
Project Completion Date	24/06/2022
Summary of works in last quarter: Resolution of outstanding Defects. Decommissioning of redundant Shin SStn CS Bay and dismantle the redundant Lairg – Shin OHL.	
Summary of works in next quarter: Correction of outstanding Defects and handover to Operations.	
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.	
Proposed Consent Submission	July 2020 – Ofgem needs case approval
Current Project Phase	Gate 3 – Kergord Construction Phase Gate 3 – Cables (approaching Gate 4a July 2023) Gate 5 – Noss Head (Energisation complete 2nd June)
Next Project Phase	Gate 4 – Kergord Jan 24
Next Stakeholder Event	Jan 24 Community Liaison Group Meeting and newsletter publication
Project Completion Date	01/07/2024
Summary of works in last quarter: **Kergord** • Project team have completed AC Substation Stage 1 commissioning works, continue to progress the remaining civil works activities and removal of temporary welfare and laydown areas, and continue to progress HVDC Stage 1 commissioning. **Noss Head** • Project team continue to address some Defects and Snags prior to Multi Terminal energisation • SHEPD continue with 33kv works **Cables** • NKT continue with Campaign 3 rock placement	
Summary of works in next quarter: **Kergord –** Completion of Stage 1 Commissioning and remaining civil works and commencement of Stage 2 commissioning of the Multi Terminal system. **Noss Head –** Completion of Defects/Snags and commencement of Stage 2 Multi Terminal commissioning	

Cables – Completion of remaining rock placement activities and final HV test of DC Cable system prior to commencement of Stage 2 Commissioning
Additional Comments: All works remain on schedule.

TORI SHET-RI-058 - Beauly-Loch Buidhe 400kV OHL Reinforcement	**Scheme** Beauly-Loch Buidhe 400kV OHL Reinforcement
Overview of Works This project is to build a new 400kV double circuit line between Beauly 2 400kV substation and Loch Buidhe 400 kV substation.	
Proposed Consent Submission	November 2024
Current Project Phase	Development (1-2)
Next Project Phase	Delivery/Refinement (2-3)
Next Stakeholder Event	February/March 2024
Project Completion Date	August 2030
Summary of works in last quarter: - Publication of Report on Consultation (RoC) - Identification of Proposed Route - Ongoing environmental and engineering surveys, studies and assessments - Alignment identification workshops - Stakeholder engagement	
Summary of works in next quarter: - Stakeholder information events - Alignment assessments and development - Ongoing environmental and engineering surveys, studies and assessments - Stakeholder engagement	
Additional Comments: N/A	

TORI SHET-RI-058a - Beauly - Loch Buidhe 275kV Reinforcement	**Scheme** Beauly - Loch Buidhe 275kV Reinforcement
Overview of Works Reprofile the existing 275kV double circuit OHL between Beauly and Loch Buidhe (approximately 67km). The double circuit is to be reprofiled to allow high temperature operation of 90 degrees Celsius to increase the continuous current rating of the circuit	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2025
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments: On Hold	

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.	
Proposed Consent Submission	On hold
Current Project Phase	On hold
Next Project Phase	On hold
Next Stakeholder Event	On hold
Project Completion Date	31/10/2030
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments: On Hold	

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).	
Proposed Consent Submission	January 2022
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	TBC
Project Completion Date	16/04/2028
Summary of works in last quarter: Conclude tender process, preferred bidders identified and progressing to Contract Awards	
Summary of works in next quarter: Detailed design phase and determination of Consent applications. Enabling works to commence	
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	
Proposed Consent Submission	
Current Project Phase	Execution
Next Project Phase	Operation
Next Stakeholder Event	Ongoing Community Liaison Group Meetings, next one to be scheduled for February 24.
Project Completion Date	31/10/2024
Summary of works in last quarter: The bulk earthworks, platform construction and drainage has been completed including the construction of the GIS building and the internal M&E fitout.	
Summary of works in next quarter: Installation of the security fencing to the extension of the existing substation and also the external civil works such as the road construction should be completed. The delivery of the GIS equipment will be complete and the installation of the GIS equipment ongoing.	
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.	
Proposed Consent Submission	
Current Project Phase	Execution
Next Project Phase	Operation
Next Stakeholder Event	
Project Completion Date	31/10/2025
Summary of works in last quarter: As per SHET-RI-065a	
Summary of works in next quarter: As per SHET-RI-065a	
Additional Comments:	

TORI	Scheme
SHET-RI-068 - Fort Augustus -Invergarry-400/132kV Development	Fort Augustus -Invergarry-400/132kV Development

Overview of Works

Upgrade the existing 132kV double circuit OHL between Fort Augustus and proposed Loch Lundie substation, near Invergarry 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 and connect contracted Coire Glas and Loch Fearna HPS schemes.

The new 400kV OHL will terminate into the 400kV busbar at Fort Augustus. The 400kV busbar is part of SHET-RI-064 works.

Proposed Consent Submission	31/03/24
Current Project Phase	Design/Consenting
Next Project Phase	Consenting
Next Stakeholder Event	N/A
Project Completion Date	31/10/2029

Summary of works in last quarter:

Development of engineering design and environmental surveys to support EIA for Town and Country Planning consent application for substation.

Ongoing engagement with Statutory Authorities regarding TCP Scoping and s37 application feedback.

Summary of works in next quarter:

Completion of EIA and Development of TCP Planning Consent Application for substation.

Ongoing engagement with Statutory Authorities regarding TCP submission and s37 application feedback.

Additional Comments:

Developer has submitted a Mod App to alter connection date and phasing, in process, revised date reflected above.

TORI SHET-RI-069 - Kinardochy Reactive Compensation	**Scheme** Kinardochy Reactive Compensation
Overview of Works Reactive Compensation is required at a new Kinardochy substation for voltage support on the 275kV Beauly-Denny overhead line. The Reactive Compensation will require a capability of + 325MVAr and -225MVAr.	
Proposed Consent Submission	Complete
Current Project Phase	Execution
Next Project Phase	Operate
Next Stakeholder Event	TBC
Project Completion Date	31/08/2024
Summary of works in last quarter:	
Summary of works in next quarter:	
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 Ellibister and a 132kV OHL Trident wood pole connection from Ellibister to Finstown Substation. Note that Finstown 132kV Substation is established as part of SHET-RI-019 works.	

Proposed Consent Submission	TBC
Current Project Phase	Internal Governance
Next Project Phase	Optioneering
Next Stakeholder Event	
Project Completion Date	30/04/2025

Summary of works in last quarter: Project on hold.
Summary of works in next quarter: Initial high-level project development, along with initial internal governance activities.
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 an additional new 275/132kV Supergrid Transformer and connecting 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.	
Proposed Consent Submission	N/A
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	N/A
Project Completion Date	30/06/2027
Summary of works in last quarter: ITT SoW are proceeding for the 360MVA transformer, cables, 132kV & 275kV breakers and the civils scope at Blackhillock.	
Summary of works in next quarter: ITT SoWs plus attachments to be completed for all works on the project.	
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 for SHET-RI-079b. The installation works required for both TORIs will be integrated as this is the most cost & outage effective manner. The integrated works will also have least impact on Operations.	

TORI	Scheme
SHET-RI-079b - Blackhillock Additional 275/132kV SGTs	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	31/10/2026
Proposed Consent Submission	N/A
Current Project Phase	Optioneering
Next Project Phase	Development
Next Stakeholder Event	N/A
Summary of works in last quarter: - Engineering Development - Preparation for internal engineering design review	
Summary of works in next quarter: - Engineering Design Review - SGT Procurement Slot confirmation - Preparation of ITT and Part A Works Information	
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 275/33kV substation on the Inveraray to Crossaig OHL near Lochgilphead. The Port Ann GSP is to be transferred to the new Craig Murrail Substation via new 33kV cable circuits.	
Proposed Consent Submission	Granted
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	TBC
Project Completion Date	31/10/2028
Summary of works in last quarter: Initial Works contract ongoing (detailed design deliverables). Submission of deliverables to Planning Authority to clear consent pre-commencement conditions is ongoing. The GT order has been placed.	
Summary of works in next quarter: Progress the Initial Works contract design deliverables. Forestry Contractor will mobilise early in 2024 to commence substation tree felling. Submission of deliverables to Planning Authority to clear remaining consent substation pre-commencement conditions.	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-088 - Loch Buidhe - Dounreay 275kV Reinforcement	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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/08/2025
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments: Project under review	

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 275/132kV SGT, to facilitate the connection of generation in the area.	
Proposed Consent Submission	No consent required for TORI 089
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	N/A
Project Completion Date	30/08/2026
Summary of works in last quarter: Modapp for off-line SGT2 Tx replacement signed. Energisation date has moved from August 2025 to August 2026	
Summary of works in next quarter: Off- line transformer tender submission / review and evaluation	
Additional Comments: Order for SGT has been placed with manufacturer. Delivery in Feb 2026.	

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 reconductored with UPAS conductor (1 x 300mm2) and will operate at 75˚C to give a minimum summer pre-fault rating of 176MVA.	
Proposed Consent Submission	TBD
Current Project Phase	Project Team to be assigned
Next Project Phase	Optioneering
Next Stakeholder Event	N/A
Project Completion Date	01/08/2029
Summary of works in last quarter: Costs/programme updated for this TORI project.	
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-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).	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2026
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments: Project under review	

TORI SHET-RI-098 - Dunoon GL1-GL2 OHL Rebuild	Scheme Dunoon GL1-GL2 OHL Rebuild
Overview of Works Rebuild approximately 18km of double circuit overhead line between Dunoon substation and the SHET – SPT boundary. This project interfaces with Scottish Power Transmission (SPT), and any works required beyond the SHET-SPT boundary will be the responsibility of SPT.	
Proposed Consent Submission	Section 37 submitted
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	tbc
Project Completion Date	27/03/2026
Summary of works in last quarter: Completion of Part A deliverables, advance felling works in progress.	
Summary of works in next quarter: Preparation for Gate 3, Contractor quotation and programme. Discharge of consent conditions.	
Additional Comments:	

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.	
Proposed Consent Submission	N/A
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	N/A
Project Completion Date	18/09/2026
Summary of works in last quarter: Preparing Substation Tender	
Summary of works in next quarter: Issue Substation Tender	
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 the existing Inveraray to Crossaig double circuit overhead (rebuilt as part of SHET-RI-050), approximately 2.8km away from Inveraray.	
Proposed Consent Submission	Submitted
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	tbc
Project Completion Date	30/11/2028
Summary of works in last quarter: Initial Works contract detailed design deliverables.	
Summary of works in next quarter: Initial Works contract (detailed design) ongoing. Supplementary ground investigation will be carried out to inform foundation selection.	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-111 - Abernethy 132kV Mesh Corner	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).	
Proposed Consent Submission	N/A
Current Project Phase	N/A
Next Project Phase	N/A
Next Stakeholder Event	N/A
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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	01/07/2026
Summary of works in last quarter: Project on hold	
Summary of works in next quarter:	
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.	
Proposed Consent Submission	Q1 2025
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Q2 2024
Project Completion Date	26/01/2029
Summary of works in last quarter: Switching Station – Development of Environmental Appraisal (EA) OHL – Peat probing & development of Environmental Appraisal (EA) UGC – No progress Subsea Cable – Benthic and geophysical surveys	
Summary of works in next quarter: Switching Station – Civil design & development of Environmental Appraisal (EA) OHL – Alignment design & development of Environmental Appraisal (EA) UGC – Alignment design Subsea Cable – Geotechnical surveys & CBRA	
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.	
Proposed Consent Submission	N/A
Current Project Phase	Operate
Next Project Phase	N/A
Next Stakeholder Event	N/A
Project Completion Date	18/11/2022
Summary of works in last quarter: Closing out of outstanding defects and works on final records.	
Summary of works in next quarter: Outstanding defects closed and final records submitted	
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.	
Proposed Consent Submission	N/A
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	N/A
Project Completion Date	31/10/2024
Summary of works in last quarter: Prepared works Information based on revised design, put the Project out to tender and evaluated returns. Awarded works to Omexom and submitted Options appraisal report and MSIP application.	
Summary of works in next quarter: Proceed through Gate 3 and works will start on design and procurement of long lead Items.	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-120 - East Coast 132kV Upgrade	East Coast 132kV Upgrade

Overview of Works

Construct a new Grid Supply Point substation near Fiddes connected to the 275kV double circuit tower line XT1/XT2 between Kintore and Tealing.

Construct a new 132kV double circuit overhead line between Brechin and the Tealing/Arbroath/Brechin Tee Point.

Reconductor the existing double circuit tower line between Tealing and the Tealing/Arbroath/Brechin Tee Point.

Dismantle the existing Fiddes 132/33kV substation.

Dismantle the existing 132kV single circuit overhead line between the Craigiebuckler/Tarland/Fiddes Tee Point and the Brechin Substation.

Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2026

Summary of works in last quarter:

This project is currently on hold while overall scope is reviewed.

Summary of works in next quarter:

This project is currently on hold while overall scope is reviewed.

Additional Comments:

N/A

TORI SHET-RI-121 - Errochty - Charleston 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 reconductored with a conductor capable of a minimum summer pre-fault rating of 150MVA.	
Proposed Consent Submission	TBD
Current Project Phase	Awaiting Project Team
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2028
Summary of works in last quarter: This current scope is on hold while options are reviewed.	
Summary of works in next quarter: This current scope is on hold while options are reviewed.	
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 reconductored with a minimum summer pre-fault rating of 190MVA.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2030
Summary of works in last quarter: - Project kicked off - Review of technology options underway for re-use of existing OHL infrastructure - Review of substation connection options	
Summary of works in next quarter: - Undertake selection of suitable OHL technology option (reconductor or rebuild) - Confirm works required to connect at existing Loch Buidhe - Commence environmental surveys	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-124 - 2nd Shetland HVDC Link Kergord - Rothienorman	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.	
Proposed Consent Submission	N/A
Current Project Phase	N/A
Next Project Phase	N/A
Next Stakeholder Event	N/A
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-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.	
Proposed Consent Submission	N/A
Current Project Phase	N/A
Next Project Phase	N/A
Next Stakeholder Event	N/A
Project Completion Date	TBC if 2nd 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	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2031
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments: Project awaiting to be assigned.	

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 210 km from Spittal 2 to Peterhead 2 Substation (delivered under SHET-RI-180 The works will be coordinated with the NOA recommendations.	
Proposed Consent Submission	Q3 2024
Current Project Phase	Development (Gate 1 -2)
Next Project Phase	Refinement (Gate 2 - 3)
Next Stakeholder Event	Q1 2024
Project Completion Date	December 2030
Summary of works in last quarter: • Commenced marine survey activity. • Continued site selection activities. • Underground cable route (onshore) peat probing investigations.	
Summary of works in next quarter: • Award underground cable ground investigation contract. • Undertake ground investigation for underground cable route (onshore). • Progress development of HVDC converter, cable, and civil supplier early design contracts. • Progress planning scoping deliverables at Spittal and Peterhead. • Progress design deliverables to agree Heads of Terms for landowners on underground cable route. • Completion of offshore & nearshore marine survey activities and commencement of associated Benthic & Geotechnical lab testing scope.	
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.	
Proposed Consent Submission	Not Applicable
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	
Project Completion Date	01/07/2026
Summary of works in last quarter: Cost and scope review / appraisal.	
Summary of works in next quarter: Design and ITT	
Additional Comments: BayWa received Corriegarth 2 Consent from ECU in Dec 23.	

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.	
Proposed Consent Submission	Granted
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	TBC
Project Completion Date	31/10/2028
Summary of works in last quarter: Initial Works contract ongoing (detailed design deliverables). Submission of deliverables to Planning Authority to clear consent pre-commencement conditions is ongoing. The GT order has been placed.	
Summary of works in next quarter: Progress the Initial Works contract design deliverables. Forestry Contractor will mobilise early in 2024 to commence substation tree felling. Submission of deliverables to Planning Authority to clear remaining consent substation pre-commencement conditions.	
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 and modifications to the existing Crossaig Substation.	
Proposed Consent Submission	Granted
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	TBC
Project Completion Date	31/10/2028
Summary of works in last quarter: Initial Works contract ongoing (detailed design deliverables). Submission of deliverables to Planning Authority to clear consent pre-commencement conditions is ongoing. The SGT order has been placed.	
Summary of works in next quarter: Progress the Initial Works contract design deliverables. Forestry Contractor will mobilise early in 2024 to commence substation tree felling. Submission of deliverables to Planning Authority to clear remaining consent substation pre-commencement conditions.	
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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2024
Summary of works in last quarter: On Hold	
Summary of works in next quarter: On hold while alternatives are reviewed.	
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 reconductored 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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	30/07/2027
Summary of works in last quarter: This project has been put on hold.	
Summary of works in next quarter:	
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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	30/07/2027
Summary of works in last quarter: Project put on hold.	
Summary of works in next quarter:	
Additional Comments: N/A	

TORI SHET-RI-134 – Beauly-Denny 2nd Circuit upgrade from 275kV to 400kV	Scheme Beauly-Denny 2nd Circuit upgrade from 275kV to 400kV
Overview of Works Upgrade the existing Beauly / Fasnakyle/ Fort Augustus / Tummel-Kinardochy / Braco West / Bonny Bridge 275kV circuit to 400kV, mirroring the ratings of the existing 400kV circuit, along the route.	
Proposed Consent Submission	Q2/Q3 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Q4 2023 (LT519) / Q1 2024 (LT520&LT521)
Project Completion Date	31/10/2029
Summary of works in last quarter: Kinardochy UGC Ground Investigation works completed and contractor demobilised from site. Site walkover carried out by main Contractor. Cable alignment confirmed and agreed upon liaising with landowners/stakeholders. Fort Augustus substation Preparation of 1st pre-application notice (PAN) public consultation. Ground Investigation works completed and contractor demobilised from site. Early Contractor Engagement exercise completed. Substation and OHL Contractors on board. Braco West 400kV substation Site Selection public consultation undertaken. Early Contractor Engagement exercise completed. Substation and OHL Contractors on board. Fasnakyle 400kV substation Site Selection public consultation undertaken. Early Contractor Engagement exercise completed. Substation and OHL Contractors on board.	
Summary of works in next quarter: Kinardochy UGC Distribute letters to effected stakeholders within the area. Mark out cable alignment/wayleave corridor on site to allow landowner to plant trees. Allow Contractor to progress with design of cable alignment. Fort Augustus substation Undertake first PAN event. Continued engineering design of the substation & OHL tie in works by ECE contractor. Braco West 400kV substation	

Take feedback from Site Selection public consultation and begin to prepare for PAN event. Undertake Ground Investigation works. Continued engineering design of the substation & OHL tie in works by ECE contractor. <u>Fasnakyle 400kV substation</u> Take feedback from Site Selection public consultation and begin to prepare for PAN event. Undertake Ground Investigation works. Continued engineering design of the substation & OHL tie in works by ECE contractor.
Additional Comments: N/A

TORI	Scheme
SHET-RI-134b - Fasnakyle Substation 132kV Reinforcement	Fasnakyle Substation 132kV Reinforcement

Overview of Works

Fasnakyle Substation - Construct a new 132kV busbar at a site adjacent to the existing Fasnakyle Substation. Connect the new 132kV busbar to the new 400/132kV SGTs (constructed as part of SHET-RI-134) via appropriate switchgear. The new 132kV busbar should leave sufficient space for future expansion.

Install two new 132/33kV 120MVA GTs and connect them to the existing Fasnakyle GSP, via the appropriate switchgear.

Upon completion of the build, decommission and remove the legacy 275kV equipment and switchgear that is no longer required.

Proposed Consent Submission	Q2/Q3 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Q1 2024
Project Completion Date	31/10/2029

Summary of works in last quarter:

Site Selection public consultation undertaken.

Early Contractor Engagement exercise completed. Substation and OHL Contractors on board.

Summary of works in next quarter:

Take feedback from Site Selection public consultation and begin to prepare for PAN event.

Undertake Ground Investigation works.

Continued engineering design of the substation & OHL tie in works by ECE contractor.

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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/09/2027
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments: This project is on hold, with connection to the new Blackhillock 2 400kV substation (Coachford) proposed through diversion of existing line, rather than new connection at existing Blackhillock substation.	

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). In an update from the initial scope, the line is to connect to new 400kV busbars at Blackhillock, New Deer and Peterhead.	
Proposed Consent Submission	01/11/2024
Current Project Phase	Design
Next Project Phase	Consenting
Next Stakeholder Event	February 2024 (Information Event)
Project Completion Date	31/10/2030
Summary of works in last quarter: Further refinement of Route options following consultations earlier in year, concluding with publication of the Report on Consultation. Contractor appointed for Early Contractor Engagement. Walkovers commenced and ongoing to support development of suitable alignments. Environmental assessments ongoing and development of EIA Scope of Works.	
Summary of works in next quarter: Further development of Alignment through discussion with landowners, engagement at public 'Information Events' and further studies by Contractor.	
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. 4 new GIS Bays and associated GIB to design, procure, install and commission.	
Proposed Consent Submission	N/A
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	N/A
Project Completion Date	Q3/Q6 2026
Summary of works in last quarter: Negotiation on tender with GE for the design , supply and supervision of installation of 4nr GIS Bays and associated GIB. Tender price accepted in December 2023 and Purchase Order raised initially for GIS/GIB design and securing of factory slot at GE. Liase with SSEN Engineering to obtain Schedule of Works for installation of the above through ASTI framework with BBPTD.	
Summary of works in next quarter: Evaluate price submittal from BBPTD when they submit their tender return in Jan 2024. Negotiate and accept their tender and apply for funding to allow BBPTD design element to proceed. Board paper to be created and submitted to TEC early January 2024 for advanced funding to allow GE to proceed with their design element.	
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.	
Proposed Consent Submission	N/A
Current Project Phase	initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
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.	
Proposed Consent Submission	N/A
Current Project Phase	N/A
Next Project Phase	N/A
Next Stakeholder Event	N/A
Project Completion Date	01/06/2025
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-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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2031
Summary of works in last quarter:	
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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2031
Summary of works in last quarter:	
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 comprised of both overhead wood pole line and underground cable between 132kV feeder bays at Kergord substation and the new Gremista GSP.	
Proposed Consent Submission	All submitted and granted
Current Project Phase	Execution
Next Project Phase	Operation
Next Stakeholder Event	Various community engagements
Project Completion Date	07/11/2025
Summary of works in last quarter: Access track construction ongoing for the cable installation and duct install has now commenced in the period. Overhead line woodpole construction commenced in August and is progressing in line with the planned programme. The GSP platform handed over, setting out and early foundation works have commenced.	
Summary of works in next quarter: Cable access track works will continue as will cable duct installation with all cable sections on the project becoming active work fronts. Horizontal directional drill activities will be ongoing. Overhead line woodpole installation will continue in the north section of the line moving south. Ongoing helicopter operations to distribute materials, including the woodpoles, to the route of the line will continue during this period.	
Additional Comments: N/A	

TORI SHET-RI-144 - New Deer 2 400kV Substation	**Scheme** Greens 400kV Substation (formerly New Deer 2)
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).	
Proposed Consent Submission	30/09/2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Q1 2024 (PAC1 event)
Project Completion Date	31/10/2029
Summary of works in last quarter: - Produce and issued Report on Consultation - Complete Ground Investigations Works - Commenced early contractor engagement and progress pre-planning application design development.	
Summary of works in next quarter: - Environmental Impact Assessment Scoping - Pre Application Consultation Events (Feb/March) - Design Authority Review	
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.	
Proposed Consent Submission	N/A
Current Project Phase	initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
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.	
Proposed Consent Submission	September 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Spring 2024
Project Completion Date	31/10/2031
Summary of works in last quarter: Produce report on consultation confirming the preferred site to take forward to next stage of development. Continue environmental surveys and progress engineering design.	
Summary of works in next quarter: Undertake further statutory consultation on the preferred site. Progress further engineering design and environmental assessments.	
Additional Comments: N/A	

TORI SHET-RI-148 - Alyth – Tealing 400kV Reinsulation	**Scheme** Alyth – Tealing 400kV Upgrade
Overview of Works Reconductor, reinsulate and any necessary upgrades to the 275kV double circuit overhead line between Alyth and Tealing for 400kV operation.	
Proposed Consent Submission	September 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Spring 2024
Project Completion Date	31/10/2031
Summary of works in last quarter: Engage a contractor to undertake initial asset conditions and clearance assessments. Progress initial access track design and review consenting strategy.	
Summary of works in next quarter: Conclude initial asset conditions and clearance assessments and finalise initial access track design and review consenting strategy.	
Additional Comments: N/A	

TORI SHET-RI-149 - Tealing – Glenrothes Westfield 400kV Rebuild	**Scheme** Tealing – Glenrothes Westfield 400kV Upgrade
Overview of Works Reconductor, reinsulate and any necessary upgrades to the 275kV double circuit overhead line between Tealing and Glenrothes-Westfield for 400kV operation.	
Proposed Consent Submission	September 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Spring 2024
Project Completion Date	31/10/2031
Summary of works in last quarter: Engage a contractor to undertake initial asset conditions and clearance assessments. Progress initial access track design and review consenting strategy.	
Summary of works in next quarter: Conclude initial asset conditions and clearance assessments and finalise initial access track design and review consenting strategy.	
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 reconductored with a conductor capable of a minimum summer pre-fault rating of 226MVA.	
Proposed Consent Submission	TBD
Current Project Phase	Awaiting Project Team
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2025
Summary of works in last quarter:	
Summary of works in next quarter:	
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.	
Proposed Consent Submission	N/A
Current Project Phase	initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
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: Further optioneering work to look at scope of shared use (tee-in) substation location relative to existing overhead line and developer's substation location.	
Additional Comments: Works are being progressed in conjunction with Salamander Offshore Windfarm development.	

TORI SHET-RI-152 - Shetland ANM Scheme	Scheme Shetland ANM Scheme
Overview of Works ANM System on Shetland to manage flows across 600MW HVDC link (established under SHET-RI-053) from Kergord 132kV substation on Shetland to the Scottish mainland at an HVDC convertor station in the vicinity of Noss Head in Caithness.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	26/01/2023
Summary of works in last quarter: Developing strategy for project, engaging with ESO on project need.	
Summary of works in next quarter: Developing strategy for project.	
Additional Comments:	

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.	
Proposed Consent Submission	June 2024
Current Project Phase	Development (Gate 1-2)
Next Project Phase	Delivery/Refinement (Gate 2-3)
Next Stakeholder Event	February / March 2024
Project Completion Date	31/10/2028
Summary of works in last quarter: - FEED - Design development - Ongoing environmental and engineering surveys and assessments - Stakeholder Engagement - Publication of Report on Consultation (RoC)	
Summary of works in next quarter: - PAN Submission - Ongoing environmental and engineering surveys and assessments - PAC1 Event - Stakeholder Engagement - Design Development	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-155 - Peterhead - Persley Tee 275kV Works	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. Following impact from ASTI and need to reinforce the north-east coast of Scotland to enable future Scotwind and generation connection, there's need to upgrade Peterhead – Kintore circuit from 275kV to 400kV. Peterhead – Persley 275kV OHL falls within this circuit and now needs to be built to 400kV rating.

Proposed Consent Submission	Q4 2023
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	TBC
Project Completion Date	31/05/2027

Summary of works in last quarter:

Continued engagement with the associated Developer.
Ongoing Environmental and Engineering works.
Redesign of substation (Sole use and TCA works) to 400kV capable due to effect of Peterhead – Kintore upgrade works (PKUP).

Summary of works in next quarter:

Engineering Design review and section 37 submission preparations.

Additional Comments:

N/A

TORI SHET-RI-157 - Alcemi Score 2 Substation 400kV Switchgear	**Scheme** Alcemi Score 2 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.	
Proposed Consent Submission	Q4 2024 / Q1 2025
Current Project Phase	Opportunity Assessment
Next Project Phase	Development
Next Stakeholder Event	01/04/2024
Project Completion Date	31/10/2029
Summary of works in last quarter: Continued engagement with the Developer. Continuation of high-level project development, along with initial internal governance activities. Completion of options assessment.	
Summary of works in next quarter: Further network studies by Network Planning to ascertain an alternative point of connection for the project.	
Additional Comments: Due to ASTI impact and updated SLD from SP&I which recommended that existing New Deer – Peterhead 400kV OHL (VND1/VND2) be diverted into the second 400kV substation that is to be constructed at Peterhead, this means the customer will be unable to make a tee connection to VND1/VND2 as this circuit will physically not be in existence once the second 400kV substation is completed and energise in 2030. Option assessment has been completed and project referred to System Planning & Investment (SP&I) engineering to advise of a new point of connection. A change request was submitted to enable scope change.	

TORI	Scheme
SHET-RI-158 - Twin Carradale - Kilmarnock South subsea cable	Twin Carradale - Kilmarnock South subsea cable
Overview of Works Establish a new 132kV double busbar substation at the existing Carradale substation in Kintyre and install a subsea link between Carradale and Kilmarnock South (SPT). This will comprise of two 240MVA land/subsea cable circuits, connecting two 240MVA 132/220kV transformers with reactive compensation equipment at Carradale, and 240MVA 220/400kV transformers with reactive compensation equipment at Kilmarnock South. SPT will be responsible for the infrastructure and connection of the subsea cables at Kilmarnock South.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2032
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	

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.	
Proposed Consent Submission	Q4 2024 / Q1 2025
Current Project Phase	Opportunity Assessment
Next Project Phase	Development
Next Stakeholder Event	01/04/2024
Project Completion Date	31/10/2029
Summary of works in last quarter: Continued engagement with the Developer. Continuation of high-level project development, along with initial internal governance activities. Completion of options assessment.	
Summary of works in next quarter: Further network studies by Network Planning to ascertain an alternative point of connection for the project.	
Additional Comments: Due to ASTI impact and updated SLD from SP&I which recommended that existing New Deer – Peterhead 400kV OHL (VND1/VND2) be diverted into the second 400kV substation that is to be constructed at Peterhead, this means the customer will be unable to make a tee connection to VND1/VND2 as this circuit will physically not be in existence once the second 400kV substation is completed and energise in 2030. Option assessment has been completed and project referred to SP&I to advise of a new point of connection. A change request was submitted to enable scope change.	

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.	
Proposed Consent Submission	09/11/2023
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	TBC
Project Completion Date	30/04/2026
Summary of works in last quarter: Continued engagement with the associated Developer. Ongoing Environmental and Engineering works.	
Summary of works in next quarter: OHL Design to be completed EA ongoing Consents to be submitted Engage Contractor for OHL Design	
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.	
Proposed Consent Submission	N/A
Current Project Phase	Internal Governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	01/08/2024
Summary of works in last quarter: On Hold	
Summary of works in next quarter: On Hold	
Additional Comments: N/A	

TORI SHET-RI-170 – 3rd SGT at Keith 275/132kV	Scheme 3rd SGT at Keith 275/132kV
Overview of Works Install a new 480MVA 275/132/33kV SGT at Keith 132kV Substation and approx. 2.5km of Cable between the new SGT and Blackhillock 275kV Substation.	
Project Completion Date	N/A
Proposed Consent Submission	N/A
Current Project Phase	N/A
Next Project Phase	N/A
Next Stakeholder Event	N/A
Summary of works in last quarter: Project Complete	
Summary of works in next quarter: Project Complete	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-171 - OHL Cloiche / Dell to Melgarve	OHL Cloiche / Dell to Melgarve
Overview of Works New double circuit 132kV overhead line to facilitate connection of Cloiche Wind farm and Dell Wind farms to the existing Melgarve substation.	
Project Completion Date	30/07/2027
Proposed Consent Submission	30/03/2024
Current Project Phase	Design
Next Project Phase	Consenting
Next Stakeholder Event	N/A
Summary of works in last quarter: Completed Ground Investigation works. Design freeze to allow for completion of EIA. Ongoing development of EIA to support s37 submission.	
Summary of works in next quarter: Completion of EIA Preparation of s37 submission	
Additional Comments: No change 10/01/24	

TORI	Scheme
SHET-RI-172 - Dalwhinnie 400kV Substation	Dalwhinnie 400kV Substation
Overview of Works Development of a new 400kV AIS substation to facilitate connection of contracted and future renewable generation	
Proposed Consent Submission	October 2025
Current Project Phase	Optioneering
Next Project Phase	Design
Next Stakeholder Event	TBC
Project Completion Date	31/10/2029
Summary of works in last quarter: Project incepted and kicked off. Site Search Area established. Commenced site selection process.	
Summary of works in next quarter: Undertake site selection process	
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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	30/10/2027
Summary of works in last quarter:	
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.	
Proposed Consent Submission	N/A
Current Project Phase	initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2028
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-175- Berryburn 275kV OHL	**Scheme** Berryburn 275kV OHL
Overview of Works	
Proposed Consent Submission	April 24
Current Project Phase	initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	
Summary of works in last quarter: External engineering consultants appointed. Customer connection has mod appd to July 28 & October 28	
Summary of works in next quarter: Site selection report to be completed ahead of consultation and G1	
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. This includes the Tee connection onto the FK circuit to facilitate the connection of both Craig Watch and Littlewood windfarms.	
Proposed Consent Submission	October 2024
Current Project Phase	Opportunity
Next Project Phase	Development
Next Stakeholder Event	TBC
Project Completion Date	30/06/2027
Summary of works in last quarter: Due to the acceptance of the Littlewood Windfarm offer, the LT450 project will now be taking on additional scope. Consultants have been working to identify and assess Tee point locations and alignment options.	
Summary of works in next quarter: Progress development of design for review at DAR.	
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.	
Proposed Consent Submission	April 25
Current Project Phase	Opportunity
Next Project Phase	Development
Next Stakeholder Event	TBC
Project Completion Date	31/10/2028
Summary of works in last quarter: Assessing options for Substation extension. Design development of extension layout and how the layout will accommodate future incoming connections.	
Summary of works in next quarter: Continue engineering design of the substation. Environmental studies to begin on extension options.	
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 three disconnectors and a circuit breaker on the Blackhillock to Kintore 275kV OHL.	
Proposed Consent Submission	Aug 2025
Current Project Phase	Opportunity
Next Project Phase	Development
Next Stakeholder Event	TBC
Project Completion Date	31/10/2028
Summary of works in last quarter: Suitabls substation locations have been reviewed and assessed through engagement with Env/Eng/Land team and the developer.	
Summary of works in next quarter: SLD, substation layout and substation orientation/dimension/location will be finalised. Preparation for the S37 application.	
Additional Comments: There are other connection applications in the area (Ardonald Wind Farm and Kedrum Solar Farm) on the clock. Not yet formally accepted.	

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	
Proposed Consent Submission	Q3 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Q1 2024
Project Completion Date	31/07/2028
Summary of works in last quarter: Ground Investigation works completed and contractor demobilised from site. Early Contractor Engagement (ECE) exercise completed; Balfour Beatty appointed for ECE. Design development of 132kV substation layout and how the layout interfaces with the other schemes in the Netherton Hub development. Other surveys to be carried out including environmental, topographic/utility surveys, noise surveys.	
Summary of works in next quarter: Preparation for PAN event Continued engineering design of the substation by ECE contractor.	
Additional Comments: Community Liaison Group (CLG) to be set up for the Peterhead 2030 development works.	

TORI SHET-RI-180 - Second 400kV Peterhead Substation	**Scheme** Second 400kV Peterhead Substation
Overview of Works Construct a second 400kV Substation at Peterhead	
Proposed Consent Submission	Q3 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Q3/Q4 (OHL), Q1 2024 (Substation)
Project Completion Date	31/07/2028
Summary of works in last quarter: Ground Investigation works completed and contractor demobilised from site. Early Contractor Engagement exercise completed; Balfour Beatty appointed. Design development of 132kV substation layout and how the layout interfaces with the other schemes in the Netherton Hub development. Other surveys to be carried out including environmental, topographic/utility surveys, noise surveys. Optioneering of New Deer – Peterhead 400kV (VND1/VND2) Overhead Line diversion into 400kV substation.	
Summary of works in next quarter: Preparation for PAN event Continued engineering design of the substation by ECE contractor.	
Additional Comments: Community Liaison Group (CLG) to be set up for the Peterhead 2030 development works.	

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	
Proposed Consent Submission	November 2024
Current Project Phase	Development (1-2)
Next Project Phase	Delivery/Refinement (2-3)
Next Stakeholder Event	February/March 2024
Project Completion Date	August 2030
Summary of works in last quarter: - Publication of Report on Consultation (RoC) - Identification of Proposed Route - Ongoing environmental and engineering surveys, studies and assessments - Alignment identification workshops - Stakeholder engagement	
Summary of works in next quarter: - Stakeholder information events - Alignment assessments and development - Ongoing environmental and engineering surveys, studies and assessments - Stakeholder engagement	
Additional Comments:	

TORI	Scheme
SHET-RI-183 - SHET-RI-183-New 132kV Dundee Substation	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.	
Proposed Consent Submission	Spring 2024
Current Project Phase	Opportunity Assessment
Next Project Phase	Development
Next Stakeholder Event	November 2023
Project Completion Date	31/10/2027
Summary of works in last quarter: Conclude site selection process including undertaking pre-application process with Dundee City Council and engaging affected landowners.	
Summary of works in next quarter: Appoint engineering design consultants and environmental consultants to progress design, Environmental appraisal and undertake consultations.	
Additional Comments:	

TORI	Scheme
SHET-RI-184-Coupar Angus 2 Tee V2	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.	
Proposed Consent Submission	30/09/2025
Current Project Phase	Optioneering
Next Project Phase	G1
Next Stakeholder Event	TBD
Project Completion Date	31/08/2029
Summary of works in last quarter: Project incepted and kicked off. Site Search Area established. Commenced site selection process.	
Summary of works in next quarter: Establish Site Search Area and identify options. Commence site selection and optioneering process.	
Additional Comments:	

TORI SHET-RI-185- Kintore - Tealing 400 kV OHL	Scheme TKUP - Kintore - Tealing 400 kV OHL
Overview of Works Establish a new 400 kV double circuit overhead line between Kintore 400 kV substation and Tealing 400 kV substation.	
Proposed Consent Submission	October 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Spring 2024
Project Completion Date	31/10/2030
Summary of works in last quarter: Produce report on consultation to finalise route selection process in the majority of sections. Progress engineering design and environmental appraisals. Continue statutory and stakeholder engagement.	
Summary of works in next quarter: Progress engineering design and environmental appraisals. Continue statutory and stakeholder engagement. Prepare for future statutory and public consultation events.	
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.	
Proposed Consent Submission	N/A
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
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:	

TORI	Scheme
SHET-RI-188-St Fergus to New Deer 2 132kV Reinforcement	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

Proposed Consent Submission	N/A
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
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:

TORI	Scheme
SHET-RI-189 - Strichen-Fraserburgh to St Fergus 132kV OHL Reconductoring	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.	
Proposed Consent Submission	N/A
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2027
Summary of works in last quarter: Continuation of high-level project development.	
Summary of works in next quarter: Continuation of high-level project development.	
Additional Comments: N/A	

TORI	Scheme
SHET-RI-191 - Strathy Switching Collector Station Connagill-Strathy double circuit OHL	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.

Proposed Consent Submission	July 2024
Current Project Phase	Opportunity Assessment/Development
Next Project Phase	Refinement
Next Stakeholder Event	March 2024
Project Completion Date	31/07/2029

Summary of works in last quarter:

Development of OHL routes options including stakeholder engagement events concluding in selection of preferred route option. Engaged OHL consultants and GI contractors. Undertake additional environmental surveys.

Summary of works in next quarter:

Development of OHL routes alignments including stakeholder engagement events concluding in selection of preferred alignment. Undertake Ground Investigation surveys. Progress through Scoping Stage of consenting process and undertake EIA assessment.

Additional Comments:

SHET-RI-168 - Melvich to Connagill 132kV Connection has been superseded by this TORI.

TORI	Scheme
SHET-RI-193 - Western Isles 1.8GW HVDC Link	Western Isles 1.8GW HVDC Link

Overview of Works

Establish a 1.8GW HVDC link with associated equipment and converter stations between the Western Isles (on Lewis) and the 400kV Beauly 2 GIS Switching Station (established under SHET-RI-194). The HVDC infrastructure will interface with a new 400kV double busbar substation on Lewis and the 400kV double busbar substation at Beauly. The infrastructure on Lewis also includes a new 132kV double busbar and installation of three 360MVA 400/132kV Super Grid Transformers on Lewis to accommodate onshore and offshore generation from Western Isles.

Proposed Consent Submission	September 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Lewis converter & AC substation Pre Application Consultation 1 event (PAC1) Arpil 2024
Project Completion Date	April 2031

Summary of works in last quarter:

TEC, GEC & Board approval at Gate 1 (Nov 23)
Site selection update & Lewis cable route consultation event (Nov23)
Preparation of Lewis ac substation SOW commenced
Receipt and review of Offshore cable route Marine Survey tenders
Evaluation of Lot1, 2 & 3 civils contractors by ASTI Pathway 2030 team
Commencement of GI works on proposed convertor station site at Lewis (Creed North)
Completion of GI works on proposed site at Beauly (Fanellan)
Stakeholder engagement meetings with Stornoway Trust and CnES Sustainability Committee

Summary of works in next quarter:

Prepare and submit documentation for PAN to CnEs in Jan 24
Confirm land requirements for convertor & substation site
Prepare for PAC1 event
Complete GI works on Lewis for convertor site and cable route
Commence EIA scope on Lewis
Perform Marine survey operations on marine cable route
Selection of civils contractor for Lewis site construction

Additional Comments:

n/a

TORI SHET-RI-194 - Beauly 2 400kV Switching Station	Scheme Beauly 2 400kV Switching Station
Overview of Works A new 400kv substation, close to the existing Beauly substation.	
Proposed Consent Submission	Summer 2024
Current Project Phase	Design
Next Project Phase	Planning Application submission and Design
Next Stakeholder Event	March 2024
Project Completion Date	2030
Summary of works in last quarter: • Site Selection completed. • 'Site Selection Consultation Document: Beauly Area 400kv substation and Western Isles HVDC Converter Station' published. • Report on Consultation published. • Ground Investigations completed. • Environmental surveys ongoing • Design further progressed.	
Summary of works in next quarter: • Consultation event to be held. • Consultation with key stakeholders. • Environmental surveys. • Design finalised	
Additional Comments: n/a	

TORI	Scheme
SHET-RI-195, Skye HVDC Link	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 Beauly (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 Beauly.	
Proposed Consent Submission	TBC
Current Project Phase	Pre Gate 0
Next Project Phase	Gate 0
Next Stakeholder Event	TBC
Project Completion Date	30/04/2034
Summary of works in last quarter:	
Summary of works in next quarter: Continued high-level project development, along with initial internal governance activities	
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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2034
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments: Project awaiting allocation at next review meeting.	

TORI	Scheme
SHET-RI-197 - Kintyre to North Wales HVDC Link	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).	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2034
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	

TORI	Scheme
SHET-RI-198 - Beinn Glass Tee 132kV Switching Station	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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2035
Summary of works in last quarter: On Hold	
Summary of works in next quarter:	
Additional Comments:	

TORI SHET-RI-199 - Blackhillock 2 400kV Substation	**Scheme** Coachford 400kV Substation (formerly Blackhillock 2)
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.	
Proposed Consent Submission	30/07/2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	February 2024 (PAC1 Event)
Project Completion Date	31/10/2028
Summary of works in last quarter: Contractor has been appointed to provide Early Contractor Engagement and develop design, with a draft substation layout complete and under review. Environmental Consultant developing EIA scoping.	
Summary of works in next quarter: The project will be working towards Design Freeze and EIA. Ground Investigation works begin on site in January 24. The first PAC event for the project will be towards the end of February, where the public will have the opportunity to provide feedback on the proposed development.	
Additional Comments: N/A	

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.	
Proposed Consent Submission	August 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	March 2024
Project Completion Date	31/07/2029
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	

TORI	Scheme
SHET-RI-201 - Foyers Substation Extension and Connection to Loch Kemp	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.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2030
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	

TORI SHET-RI-202 – East Coast Onshore 400kV Substation	**Scheme** Fiddes 400kV Substation
Overview of Works Establish a new 400kV substation close to the existing Fiddes 132kV Substation.	
Proposed Consent Submission	September 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Spring 2024
Project Completion Date	31/10/2031
Summary of works in last quarter: Produce report on consultation confirming the preferred site to take forward to next stage of development. Continue environmental surveys and progress engineering design.	
Summary of works in next quarter: Undertake further statutory consultation on the preferred site. Progress further engineering design and environmental assessments.	
Additional Comments: N/A	

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.	
Proposed Consent Submission	N/A
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	30/06/2029
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:	

TORI	Scheme
SHET-RI-205 - New East Coast 275 kV Substation	New East Coast 275 kV Substation

Overview of Works

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 placed into spared. All buildings, plinths and bunds should be broken down to below ground level and made available to others for use.

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.

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.

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

Proposed Consent Submission	N/A
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	30/06/2032

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:

TORI SHET-RI-210 Corriemoillie 2T0	Scheme Corriemoillie 2T0
Overview of Works Construction of a new 33 kV feeder bay and 33 kV single busbar from GT2 at Corriemoillie substation, including reconfiguration of the existing 33 kV feeder connection and modification of the protection to accommodate Loch Luichart Extension II wind farm.	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	18/10/2024
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	

TORI SHET-RI-213 - Car Duibh 275kV Substation and OHL Works	Scheme Car Duibh 275kV Substation and OHL Works
Overview of Works Construction of the new Car Duibh 275kV substation and a 275kV 5km double circuit tower line, connecting into the proposed Creag Dhubh - An Suidhe - Craig Murrail 275kV double circuit tower line in a "turn in" arrangement. This construction arrangement will turn this into a Creag Dhubh - Car Duibh - An Suidhe - Craig Murrail 275kV circuit	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2034
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	

TORI SHET-RI-221 - Macduff to Blackhillock 132kV Works	**Scheme** Macduff to Blackhillock 132kV Works
Overview of Works Establish a new 132 kV tee point of the Macduff to Blackhillock 132kV HMN circuit. Upgrade 4.7km of 132kV OHL on the Macduff to Blackhillock 132kV HMN circuit to a minimum summer pre-fault capacity of 197MVA.	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	30/09/2030
Summary of works in last quarter: Scope of project updated to state the correct required summer pre-fault capacity required of 197MVA, which was previously stated as 245MVA.	
Summary of works in next quarter: Continuation of high-level project development, along with initial internal governance activities.	
Additional Comments:	

TORI	Scheme
SHET-RI-226 - Craigiebuckler to Tarland 132kV Line Works-V1	Craigiebuckler to Tarland 132kV Line Works-V1

Overview of Works

Establish a new 132 kV tee point of the Craigiebuckler to Tarland CLS circuit. This will require 3x 132kV line disconnectors and 1x 132kV line circuit breaker.

Additionally, this may require tower/pole modifications to the existing 132kV infrastructure to accommodate these new assets.

Protections works will also be required on the 132kV CLS/CLN/XCW/CF circuits between Tarland, Craigiebuckler and Kintore substations.

Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	01/10/2032

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:

TORI	Scheme
SHET-RI-230 - Dalchork to Loch Buidhe 132kV second Double Circuit	Dalchork to Loch Buidhe 132kV second Double Circuit
Overview of Works Construction of ~17 km 132 kV double circuit between Dalchork - Loch Buidhe substations with same rating OHLs as of existing double circuit i.e. 414 MVA post fault summer ratings. Scope also includes construction of two feeder bays each at Dalchork substation and Loch Buidhe substation	
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/10/2032
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	

TORI SHET-RI-231 - Aberdeen 132kV Protection Works	**Scheme** Aberdeen 132kV Protection Works
Overview of Works Installation of a second 132kV intertrip to support the protection of the Craigiebuckler/Redmoss/Clayhills circuits. 1.2. Transmission Boundaries affected B2 - North to South SHET. B4 - SHET to SPT	
Proposed Consent Submission	N/A
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/03/2025
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:	

TORI	Scheme
SHET-RI-236 - Blackhillock - Cairnford 275kV Line Works	Blackhillock - Cairnford 275kV Line Works

Overview of Works

Establish a new 275kV tee point of the Blackhillock to Cairnford 275kV HCD2 circuit. This will require 3x 275kV line disconnectors and 1x 275kV line circuit breaker. This tee point will be adjacent to that seen from SHET-RI-178, and therefore this new TORI will be dependent on SHET-RI-178 to create the land/compound required for this new switchgear.

Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	30/05/2030

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:

TORI	Scheme
SHET-RI-237 - Coupar Angus - Clunie 132kV Works	Coupar Angus - Clunie 132kV Works

Overview of Works

Establish a new 132kV single busbar nearby to the Coupar Angus area. The proposed location for this busbar compound will next to or underneath the crossing point of the 132kV CCN/CCS circuits and the 275kV YZ1/YZ2 circuits (YZ1/YZ2 proposed to switch to 400kV under SHET-RI-093). For this new 132kV single busbar, 4x new 132kV bays will be required to connect the existing 132kV CCN/CCS circuits as seen from the SLD. A bus section has also been proposed on the busbar.

Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	30/05/2030

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:

TORI SHET-RI-240 - Morar 400kV Substation	**Scheme** Morar 400kV Substation
Overview of Works Construct a new 400kV breaker and a half substation complete with six 400kV circuit turn in to connect the new substation to the Transmission system	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
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:	

TORI	Scheme
SHET-RI-241 - Peterhead - Persley - Kintore 400kV Reinforcement	Peterhead - Persley - Kintore 400kV Reinforcement
Overview of Works Peterhead-Persley-Kintore 400kV upgrade. Reconductor (Triple UPAS) and reinsulate the 275kV route for 400kV and tie-in to Peterhead 2. 400kV S/S (Newmacher) at tee-point of diversion to Persley (retaining 275kV OHL to Persley). Additional 400/275kV SGT (1200MVA) at Peterhead for Peterhead CCGT, and 2x400kV PSTs (2349MVA) for PFC at Newmachar on the new 400kV OHL under PKUP to Peterhead 2	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
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:	

TORI SHET-RI-242 - Peterhead 400kV busbar extension	**Scheme** Peterhead 400kV busbar extension
Overview of Works Extension of new 400kV sub station with additional new 4nr GIS bays and associated GIB install	
Proposed Consent Submission	N/A
Current Project Phase	Opportunity
Next Project Phase	Development
Next Stakeholder Event	N/A
Project Completion Date	March 2026
Summary of works in last quarter: Preparation of Contract data and issue to GIS Contractor for pricing, through LT16 project. Prices received from GIS Contractor for Part A design and to secure factory slot and currently under discussion.	
Summary of works in next quarter: Continue to discuss Contractor price submission for GIS Contract works and reach agreement on price. SSEN Engineering to prepare SoW by mid to late February 2024 for main contract works and issue out to BBPTD for pricing.	
Additional Comments:	

TORI SHET-RI-246 - Garlogie 275kV Substation	Scheme Garlogie 275kV Substation
Overview of Works Garlogie 275kV Substation Establish a new 275kV substation with a single 275kV busbar nearby the Garlogie area. Installation of a new 275kV bay at Kintore 275kV substation. This bay availability will be subject to HNDFUE, where it is currently proposed that some 275kV bays may become available due to the Kintore to Persley/Peterhead circuits may be moved to 400kV operation (as proposed within SHET-RI-241). Construct a new 275kV single circuit overhead line from Kintore 275kV Substation to this new Garlogie 275kV Substation (Approx 14km).	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2033
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	

TORI SHET-RI-248 - Tealing - Milton of Craigie Tee Off	Scheme Tealing - Milton of Craigie Tee Off
Overview of Works Tee-off between Tealing and Milton of Craigie to facilitate the connection of Barns of Wedderburn 26.89MW.	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	30/04/2030
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter:	
Additional Comments:	

TORI SHET-RI-255 - Abernethy 400kV Substation	**Scheme** Abernethy 400kV Substation
Overview of Works Construct a new 400kV busbar to facilitate the connection of a new 400/33kV GSP at Abernethy	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
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:	
Additional Comments:	

TORI SHET-RI-256 - Peterhead 2 400kV Busbar Extension	Scheme Peterhead 2 400kV Busbar Extension
Overview of Works Extend the 400kV double busbar with space provision for a minimum of one additional bay, at Peterhead 2 400kV Substation.	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2035
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter:	
Additional Comments:	

TORI SHET-RI-262 - New East Coast 400kV Substation	Scheme New East Coast 400kV Substation
Overview of Works Establish a new 400kV substation on the east coast between Tealing and Glenrothes/Westfield to facilitate connection of Halfway Energy Park 1000.29MW	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2035
Summary of works in last quarter: Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter:	
Additional Comments:	

TORI	Scheme
SHET-RI-264 - Coupar Angus 2 - Birkhill Tee 132kV Upgrade	Coupar Angus 2 - Birkhill Tee 132kV Upgrade
Overview of Works Upgrade approx. 13km of 132kV double circuit OHL between Coupar Angus 2 GSP and Birkhill Tee to a minimum summer pre-fault capacity of 197MVA (Single UPAS at 90 degrees). This may require steelwork and foundation upgrades to the existing towers to accommodate this new conductor. Please note the Coupar Angus 2 GSP location is still under review, and therefore the required km of OHL for this 132kV upgrade may be subject to change.	
Proposed Consent Submission	TBD
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/08/2029
Summary of works in last quarter:	
Summary of works in next quarter:	
Additional Comments:	