

TRANSMISSION

June 2021

Transmission Owner Reinforcement Instruction (TORI) Quarterly Update Report Q2 April 2021 – June 2021

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## Transmission Owner Reinforcement Instruction (TORI) Quarterly Update Report Q2 April 2021 – June 2021

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

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

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

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



## Table of Contents

SHET-RI-007a - Beauly - Blackhillock 400 kV Double Circuit OHL6
SHET-RI-007b - Beauly 400 kV Busbar7
SHET-RI-009 - East Coast Onshore 275kV Upgrade8
SHET-RI-013 - North Argyll Substation9
SHET-RI-019 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 110
SHET-RI-020 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 211
SHET-RI-025a - Peterhead-Rothienorman 400 kV OHL upgrade12
SHET-RI-025b - Eastern Subsea HVDC Link13
SHET-RI-025c - Peterhead 400 kV Busbar14
SHET-RI-025d - North East Reinforcement15
SHET-RI-026 - Blackhillock 275 kV QBs16
SHET-RI-028 – Thurso South to Gills Bay 132kV OHL17
SHET-RI-033 - Second 2 GW East Coast HVDC Link Peterhead to England
SHET-RI-042 - Western Isles - Beauly HVDC Link19
SHET-RI-043 - Lewis Infrastructure20
SHET-RI-046 - Taynuilt-North Argyll Rebuild21
SHET-RI-050a - Inveraray - Port Ann Reinforcement
SHET-RI-050b - Port Ann - Crossaig Reinforcement23
SHET-RI-052 - Lairg-Loch Buidhe 132kV Reinforcement24
SHET-RI-053 - Shetland 600 MW HVDC Link and Kergord 132kV Substation25
SHET-RI-058 - Beauly-Loch Buidhe 275kV OHL Reinforcement
SHET-RI-059 - Third 2GW East Coast HVDC Link Peterhead to England27
SHET-RI-061 - Skye Overhead Line Reinforcement28
SHET-RI-064 - Fort Augustus Substation 400/132kV Development
SHET-RI-065a - Beauly 132 kV Substation Redevelopment
SHET-RI-065b - Beauly 3rd SGT Replacement31
SHET-RI-066 - Fort Augustus Substation 400/275kV Development
SHET-RI-068 - Fort Augustus -Invergarry-400/132kV Development
SHET-RI-069 - Kinardochy Reactive Compensation

SHET-RI-072 - Blackhillock-Kintore 400 kV OHL Upgrade	35
SHET-RI-075 - Orkney 132kV Infrastructure Finstown - Ellibster	36
SHET-RI-079 - Blackhillock Additional 275/132kV SGTs	37
SHET-RI-086 - Craig Murrail Switching Station	38
SHET-RI-088 - Loch Buidhe - Dounreay 275kV Reinforcement	39
SHET-RI-089 - Farigaig SGT2 Upgrade	40
SHET-RI-090 - Coupar Angus - Errochty 132kV Reconductoring	41
SHET-RI-093 - East Coast Phase 2 - 400kV Reinforcement	42
SHET-RI-098 - Dunoon GL1-GL2 OHL Rebuild	43
SHET-RI-099 - Beauly-Keith 132kV Reconductoring	44
SHET-RI-105 - Rothienorman s/s & Rothienorman - Kintore Reconductoring	45
SHET-RI-106b - Connagill 2nd SGT	46
SHET-RI-107 - North Argyll - Inveraray Reinforcement	47
SHET-RI-109 - Loch Buidhe - Spittal 132kV Reconductoring	48
SHET-RI-111 - Abernethy 132kV Mesh Corner	49
SHET-RI-115 - Melgarve 400/132 kV Substation Additional SGTs	50
SHET-RI-116 - Kergord - Yell 132kV Connection	51
SHET-RI-117 - Tealing 275kV Busbar Upgrade	52
SHET-RI-119 - Corriemoillie Transformer Protection Modification	53
SHET-RI-120 - East Coast 132kV Upgrade	54
SHET-RI-121 - Charleston - Abernethy 132kV Reconductoring	55
SHET-RI-123 - Shin - Loch Buidhe 132kV Reconductoring	56
SHET-RI-124 - 2nd Shetland HVDC Link Kergord - Rothienorman	57
SHET-RI-126 - Kergord - Yell 132kV 2nd Connection	58
SHET-RI-127 - Dounreay - Spittal 400 kV Double Circuit Cable	59
SHET-RI-129 - Farigaig SGT1 Upgrade	60
SHET-RI-130a - North Argyll - Craig Murrail 275kV Operation	61
SHET-RI-130b - Craig Murrail - Crossaig 275kV Operation	62
SHET-RI-131 - Brechin 132kV Extension	63
SHET-RI-132 - Beauly-Blackhillock High Temperature Reconductoring	64
SHET-RI-134 – Beauly-Denny 2 <sup>nd</sup> Circuit upgrade from 275kV to 400kV	65
SHET-RI-135 - Broadford to Edinbane 132kV Reinforcement	66
SHET-RI-136 - Blackhillock 400kV Building Extension	67
SHET-RI-137 - Blackhillock-New Deer-Peterhead 400kV OHL	68
SHET-RI-138 - New Deer 400kV Busbar Extension	69
SHET-RI-139 - 2GW HVDC Link New Deer to England	70

SHET-RI-140 - Thurso South 275 kV Substation Redevelopment	71
SHET-RI-142 - Caithness to New Deer 2 - 2 x 1GW HVDC Links	72
SHET-RI-143 - Kergord - Gremista GSP 132kV Infrastructure	73
SHET-RI-144 - New Deer 2 400kV Substation	74
SHET-RI-145 - 2GW HVDC Link New Deer 2 to England	75
SHET-RI-146 - Clash Gour 275/132kV Collector Substation	76
SHET-RI-147 - Tealing 400kV Substation	77
SHET-RI-148 - Alyth – Tealing 400kV Reinsulation	78
SHET-RI-149 - Tealing – Glenrothes Westfield 400kV Rebuild	79
SHET-RI-150 - Inverguie Tee – Peterhead 132kV Reconductoring	80
SHET-RI-151 - Peterhead – St Fergus 132kV Line Works	81
SHET-RI-153 - Spittal 2 275 kV Substation	82
SHET-RI-166 - Tealing – Arbroath 132kV Line Works	83



TORI	Scheme	
SHET-RI-007a - Beauly - Blackhillock 400 kV Double Circuit OHL	Beauly - Blackhillock 400 kV Double Circuit OHL	
<b>Overview of Works:</b> Establish a new double circuit 400kV overhead li Blackhillock. The new OHL is connected to the Be GIS busbar.	ne approximately 130km from Beauly to eauly 400kV AIS busbar and the Blackhillock 400kV	
Project Completion Date	31/12/2027	
where the project has been given a proceed signal.  Summary of works in next quarter: Project assigned to development team to begin initial optioneering works.		
Additional Comments: N/A		



TORI	Scheme	
-		
SHET-RI-007b - Beauly 400 kV Busbar	Beauly 400 kV Busbar	
Overview of Works:		
Construct a new 400kV GIS double busbar at Beau	uly substation and interface with the existing	
275kV busbar. The 400kV double busbar is to comprise of one bus section breaker, two bus		
couplers, and feeder bays for circuit connections.		
Project Completion Date	30/03/2027	
Summary of works in last quarter:		
See TORI-042		
Summary of works in next quarter:		
See TORI-042		
Additional Comments:		
See TORI-042		



TORI	Scheme	
SHET-RI-009 - East Coast Onshore 275kV	East Coast Onshore 275kV Upgrade	
Upgrade Overview of Works:		
Establish new busbar at Alyth, to be built at 400kV but initially operate at 275kV, with reactive compensation support. Now includes Errochty Thermal Relay Works scope.		
Re-profile the existing Kintore-Tealing-Kincardine 275kV circuits and the existing Tealing-Westfield- Longannet 275kV circuits for higher temperature operation.		
Install 275kV Phase shifting transformers on each of the Kintore – Tealing circuits (XT1/XT2) at Tealing substation.		
Project Completion Date	31/10/2023	
Summary of works in last quarter: Engage with appointed Contractors in design phase for both the new Substation and the OHL Re- profiling works. Conclude preparations to allow mobilisation for main works in Q2 (April 21 onwards).		
Summary of works in next quarter:		
Complete design refinement phase and progress with main works on both the Alyth Substation and		
the East Coast 275kV overhead line circuit contracts.		
Tealing Substation: Phase Shifting Transformer works remain in development.		
Additional Comments: N/A		



TORI	Scheme	
SHET-RI-013 - North Argyll Substation	North Argyll Substation	
Overview of Works:		
Establish a new 275/132 kV Substation in N	North Argyll near the existing Inveraray/Taynuilt 132 kV	
line route with two 480 MVA 275/132 kV transformers. Space provision only is to be provided for		
additional feeder bays.		
Establish a new 275 kV double circuit OHL between North Argyll and Dalmally Substations.		
Project Completion Date 30/04/2025		
Summary of works in last quarter:		
Overhead Line Alignment Selection Study h	has been completed for revised route at Dalmally.	
EIA Scoping Report was submitted to Scott	tish Government.	
Summary of works in next quarter:		
Stakeholder Consultation to be completed for Preferred Alignment.		
Public Consultation Events to be held.	<u> </u>	
Scottish Government's EIA Scoping Option to be received.		
Section 37 application to build and operate a new OHL between North Argyll and Dalmally to be		
prepared.		
Town & Country Planning Applications for Creag Dhubh (North Argyll) substation to be prepared.		
Additional Comments:		
N/A		



TORI	Scheme	
	Dounreay - Orkney 220kV Subsea HVAC Cable	
SHET-RI-019 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 1	Link 1	
Overview of Works:		
Establish a 220kV HVAC circuit over a distance of		
substation at Dounreay on the mainland and the	•	
on Orkney. The HVAC circuit comprises of approx		
cable. Voltage Compensation devices will be insta	alled at both cable ends within the substation	
compounds at Dounreay and Finstown.		
Project Completion Date	30/04/2025	
Summary of works in last quarter:		
Continue engagement with Orkney developers re	garding progress to 135MW requirement.	
Summary of works in next quarter:		
Continued engagement with Orkney developers.		
Additional Commenter		
Additional Comments:		
N/A		



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



TORI	Scheme	
SHET-RI-025a - Peterhead-Rothienorm	han 400 Peterhead-Rothienorman 400 kV OHL upgrade	
kV OHL upgrade		
Overview of Works:		
	eterhead, 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		
	SHET-RI-025c) and the new 400kV substations at New Deer	
and Rothienorman (both transitioned	•	
	······································	
Replacement of the existing earth wire	e with OPGW is required between New Deer -	
Rothienorman.		
Project Completion Date	30/09/2023	
Summary of works in last quarter:		
Please see project update for SHET-RI-025d North East 400kV Reinforcement.		
Summary of works in next quarter:		
Please see project update for SHET-RI-025d North East 400kV Reinforcement.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-025b - Eastern Subsea HVDC Link	Eastern Subsea HVDC Link	
Overview of Works:	•	
Install a 2GW HVDC link between Peterhead (S	HE-Transmission) and Drax (NGET).	
This TORI describes the SSENT works.		
HVDC cables to be routed into the sea, then south towards the North East of England in NGET's		
license area.		
Project Completion Date	31/10/2029	
Summary of works in last quarter:	·	
Ongoing Seabed Survey Works.		
Recommendation from Ofgem regarding Initial	Needs Case submission.	
Ongoing offshore and onshore environmental	assessment works.	
Ongoing onshore Engineering investigation wo	rks.	
Summary of works in next quarter: Ongoing Seabed Survey Works. Consultation and final decision on Initial Needs Case following Ofgem publication. Ongoing offshore and onshore environmental assessment works. Ongoing onshore Engineering investigation works. Development of Engineering specifications for future tendering works. Final Needs Case progressing for submission in Q4 2021.		
Additional Comments: N/A		



TORI	Scheme	
SHET-RI-025c - Peterhead 400 kV Busbar	Peterhead 400 kV Busbar	
Overview of Works:		
new 1200MVA 400/275kV supergrid Transforme	xisting 275kV substation at Peterhead. Install two ers and approx. 500m of 275kV cable between the nr. Two new Overhead line towers and Installation sisting 275kV sub station.	
Modify the existing 275 kV substation and busba works. The existing 275/132kV supergrid transfo circuit reference VX1 will be banked with the new	ormer SGT1 which is currently connected to line	
Project Completion Date	31/10/2023	
<ul> <li>Summary of works in last quarter:</li> <li>Continuation on foundation works for sub station GIS and SGT buildings, drainage and perimeter fence installation to platform. Installation of sub station ducting, septic tank and bund formation.</li> <li>Cable sealing end compound civils works are nearing completion with all foundations now completed and perimeter fencing and gates installed.</li> <li>132kV cable route has seen the successful completion of the horizontal directional drilling under the Shell pipeline and over the SSEG gas pipeline by way of duct installation. Duct installation also completed towards existing 275kV sub station perimeter fence line.</li> <li>Various design interface meetings held with SGT supplier ongoing fortnightly.</li> </ul>		
Summary of works in next quarter: Continuation of main civil works on new sub stat poured, future duct installations, fencing erectio adjacent house. 132kV underground cable installation is planned installation within the existing 275kV sub station First outage for 132kV OHL to UGC transfer plan	on, perimeter road construction and demolition of for Q3 2021 subject to completion of duct	
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 400/132kV, 240MVA SGT's and two 132/33kV, 120MVA GTs to connect the		
Rothienorman GSP to the 400kV Rothienorman Busbar.		
Project Completion Date	31/10/2023	
Summary of works in last quarter:		
OHL Works - Award Construction Contract and mobilise to site ahead of outages commencing in		

**OHL Works** - Award Construction Contract and mobilise to site ahead of outages commencing in June 2021. Discharge Pre-commencement conditions. Prepare and issue tender documentation for the Substation scope of works.

**Kintore SGT Works** – Transformer tender conclusion, continuation of the initial design works for the compound, achieved approval to progress to execution phase (including funding authorisation).

**Rothienorman Substation Works** - Procurement activities to conclude with preferred bidders identified. Project to obtain approval to progress to execution phase, including funding authorisation.

New Deer Substation Works - Awaiting completion of substation framework procurement.

## Summary of works in next quarter:

**OHL Works** - OHL works now underway between New Deer and Peterhead. Pre-commencement conditions still to be discharged with Moray Council, however this is not an issue for the schedule and are expected this quarter. Issue tender documentation for the Substation scope of works.

**Kintore SGT Works** – Start execution phase with contract awards for both substation and transformers. Commence bulk earthworks on site and detailed design of the substation.

**Rothienorman Substation Works** - Start execution phase with contract awards for both substation and transformers. Commence detail design of substation works and start manufacture of transformers.

**New Deer Substation Works -** Commence procurement activities for the substation and continue interface works for the Northeast Reinforcement and developer

Additional Comments: N/A



TORI	Scheme	
SHET-RI-026 - Blackhillock 275 kV QBs	Blackhillock 275 kV QBs	
Overview of Works:		
At Blackhillock, install 2 x 865MVA (continuous ra	ating) 275kV quadrature boosters with bypass on	
the existing 275kV circuits (AH1/HO2) to Knocknagael, rearranging the circuit terminations as		
appropriate.		
Project Completion Date	31/10/2026	
Summary of works in last quarter:	·	
Design development work continuing the project	t alongside the East Coast 400kV works.	
	-	
Summary of works in next quarter:		
Design development work continuing on the pro	ject alongside the East Coast 400kV upgrade	
works in line with programme dates.	, , , , , , , , , , , , , , , , , , , ,	
Additional Comments:		
N/A		
N/A		



TORI	Scheme		
SHET-RI-028 – Thurso South to Gills Bay 132kV	Thurso South to Gills Bay 132kV OHL		
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	
		operated at 132kV, from Gills Bay to Thurso So	uth.
	24/02/2025		
Project Completion Date	31/03/2025		
Project Completion Date Summary of works in last guarter:	31/03/2025		
<b>Summary of works in last quarter:</b> Finalise new switching station design and prepa			
Summary of works in last quarter:	are consent application.		
Summary of works in last quarter: Finalise new switching station design and prepa	are consent application.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar	are consent application.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar Summary of works in next quarter:	are consent application. Inding land option agreements.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar Summary of works in next quarter: Submit new switching station consent application	are consent application. nding land option agreements. on.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar Summary of works in next quarter:	are consent application. nding land option agreements. on.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar Summary of works in next quarter: Submit new switching station consent application	are consent application. nding land option agreements. on.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar Summary of works in next quarter: Submit new switching station consent application	are consent application. nding land option agreements. on.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar Summary of works in next quarter: Submit new switching station consent applicati Continued engagement with landowners to sec Additional Comments:	are consent application. nding land option agreements. on.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar Summary of works in next quarter: Submit new switching station consent applicati Continued engagement with landowners to sec	are consent application. nding land option agreements. on.		
Summary of works in last quarter: Finalise new switching station design and prepa Re-engage with landowners and secure outstar Summary of works in next quarter: Submit new switching station consent applicati Continued engagement with landowners to sec Additional Comments:	are consent application. nding land option agreements. on.		



TORI	Scheme	
SHET-RI-033 - Second 2 GW East Coast HVDC	Second 2 GW East Coast HVDC Link Peterhead	
Link Peterhead to England	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 Eng	land (landing point to be confirmed). This will be a	
joint project with National Grid.		
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Continued development of initial needs case sco	ope.	
Summary of works in next quarter:		
Continued development of initial needs case scope.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-042 - Western Isles - Beauly HVDC Link	Western Isles - Beauly HVDC Link	
Overview of Works:		
Establish a 600MW HVDC link with associated equipment and converter stations between the		
Western Isles (Arnish on Lewis) and the 400kV double busbar at Beauly (established under SHET-		
RI-007b). The HVDC cable is to be approximately 79km of subsea cable, and approximately 80km		
of land cable. The HVDC infrastructure will interface with a new 132kV double busbar at Arnish		
(Lewis) and the 400kV double busbar at Beauly.		
Project Completion Date	30/03/2027	
Summary of works in last quarter:		
Engagement with stakeholders to commence foc	ussing on developer commitment and providing	
assurance to Ofgem that continued pre-construct		
site for the Beauly converter station and AC subs	tation. Customer notices for move of	
energisation date.		
Engagement with BEIS continues regarding confir		
Round 4 timeline, programme adjusted to accom	modate proposed delay.	
Summany of works in payt quarter:		
Summary of works in next quarter: Continue engagement with stakeholders with view to holding round table meeting between all parties		
Further investigate options for mainland convertor station site		
Secure Arnish site lease agreement with HIE		
Revalidation of preferred tender submission and re-engagement with supplier		
Conduct Landownership exercise along route to close gaps and refresh existing data		
Continue optioneering activities and revalidation of governance process.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-043 - Lewis Infrastructure	Lewis Infrastructure	
Overview of Works:		
Build a new 132kV single circuit OHL between existing Stornoway substation, the new Arnish		
substation (provided under SHET-RI-042 - Western Isles - Beauly HVDC Link) and a new AC switching station at Balallan on the Isle of Lewis.		
Dismantle the existing 132kV single circuit OHL between Balallan and the existing Stornoway		
substation.		
Project Completion Date	30/03/2027	
Summary of works in last quarter:		
Bird surveys for new OHL between Balallan, Stornoway and Arnish to commence and land options		
at Arnish to be confirmed.	showay and Arnish to commence and land options	
Summary of works in next quarter:		
Bird Surveys have been completed. Discussions	on how best to proceed with project underway.	
Additional Comments: N/A		
1		



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.		
	24/40/2020	
Project Completion Date	31/10/2028	
Summary of works in last quarter:		
Project on hold.		
Summary of works in next quarter:		
Project on hold.		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-050a - Inveraray - Port Ann	Inveraray - Port Ann Reinforcement
Reinforcement	
Overview of Works:	
Reinforce the 132kV Transmission network	k in the Kintyre Peninsula. Rebuild approximately 37km
of double circuit OHL between Inveraray a	nd Port Ann. The towers will be built for 275kV
operation, but initially operated at 132kV.	
Project Completion Date	30/07/2021
Summary of works in last quarter:	
Overhead line works: offline assembly and	l erection works now complete
Substation: Protection and control commis	ssioning.
Summary of works in next quarter	
Complete commissioning of new protection	on and control and achieve full energisation. Progress
dismantling of redundant towers and reins	statement.
Additional Comments:	
N/A	



TORI	Scheme	
SHET-RI-050b - Port Ann - Crossaig	Port Ann - Crossaig Reinforcement	
Reinforcement		
Overview of Works:	·	
Reinforce the 132kV Transmission Network in the	ne Kintyre Peninsula. Rebuild approximately 48km	
of double circuit OHL between Port Ann and Crossaig. The towers will be built for 275kV		
operation, but initially operated at 132kV.		
Project Completion Date	31/10/2023	
• •	51/10/2025	
Summary of works in last quarter:	atinuing with the Part A design in advance of	
Executed Part B and forestry contracts while conconstruction.	itinuing with the Part A design in advance of	
Summary of works in next quarter:		
	eduled works will include the first outages which	
, .	•	
are scheduled for Q3 2021. Further OHL works will involve the creation and upgrade of the access track network to facilitate the tower build.		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-052 - Lairg-Loch Buidhe 132kV	Lairg-Loch Buidhe 132kV Reinforcement
Reinforcement	
Overview of Works:	
Establish a new 132kV double busbar at Lairg	(Dalchork substation) and construct approximately
17km of new double circuit 132kV overhead t	ower line between Lairg and Loch Buidhe.
Project Completion Date	30/04/2022
Summary of works in last quarter:	· · · ·
Progressed the Substation platform including	below-ground earthing, drainage and backfilling
around structures. All platform AIS & gantry f	foundations complete and support structures
erected. Installation of electrical equipment -	80% complete. Control Building constructed and
the internal fit-out progressed. Loch Buidhe S	Substation & CSEC foundations progressing along
with the HV cable trench and draw-pit.	
Progressed the OHL access tracks, spurs & wo	orking pads. Progressed the install of the pad &
column and piled foundations. Commence the	e erection of several L7c towers. Commence the firs
phase of the replacement of the earthwire wi	ith OPGW (with outage) for Cassley – Shin route.
Summary of works in next quarter:	pelow-ground earthing, drainage and backfilling
	AIS electrical equipment, marshalling kiosks and
•	ling/terminating. Progress the Control Building
	Install DNO supply to the site. Progress Loch Buidhe
Substation & CSEC foundations progressing al	
	ing pads. Progressed the install of the pad & column
-	of further L7c towers. Complete the first phase of
the replacement of the earthwire with OPGW	· · ·
Additional Comments:	
Additional comments.	

N/A



TORI	Scheme		
SHET-RI-053 - Shetland 600 MW HVDC Link and	Shetland 600 MW HVDC Link and Kergord		
Kergord 132kV Substation	132kV Substation		
Overview of Works:			
Construct a 600MW HVDC link from Shetland to t	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 Reinforce	ement (part of SHET-RI-031)		
The HVDC link includes a 600MW HVDC converte	r station and 132kV Substation at Kergord in		
Shetland. The new 132kV Substation at Kergord v	vill be the collection point for generation in		
Shetland.			
The 600MW HVDC link will have approximately 1	3km of land cable and 284km of subsea cable		
between Shetland and the HVDC switching statio	n in Caithness.		
Project Completion Date	31/03/2024		
Summary of works in last quarter:			
Substantial progress on civil design and primary e	electrical design for both sites.		
Continued platform construction at Kergord and			
Convertor Station. Completed bulk earthworks at	Noss Head and commenced substructure		
construction of Switching Station.			
Completed site accommodation and access work	s including public road improvements to Noss		
Head and Kergord sites.			
Commenced 600MW Cable Type Test and comme	enced land and subsea cable manufacturing.		
Commenced offshore pre-lay survey work and m	obilised Horizontal Directional Drill in Caithness		
and site establishment for land cable installation	works in Caithness and Shetland and mobilised		
Horizontal Directional Drill (HDD) contractor at N	oss Head.		
Summary of works in next quarter:			
Substantial completion of civil and electrical designation	on for both Noss Head and Kergord sites		
•			
Continue with substructure construction and commence steel erection at Noss Head Switching Station and Kergord HVDC Converter. Commence construction of 132kv AC Substation at Kergord			
-	-		
(Substructure). Handover earthworks platform to Viking Energy Windfarm for windfarm substation. Commence Horizontal Directional Drill operations at Noss Head, commence HVDC cable duct installation in Caithness and Shetland. Complete offshore pre-lay survey and commence boulder clearance operations on offshore cable route. Continue manufacturing of			
		HVDC land and offshore cable. Commence manual	-
Additional Commontes			
Additional Comments: N/A			



TORI	Scheme	
SHET-RI-058 - Beauly-Loch Buidhe 275kV OHL	Beauly-Loch Buidhe 275kV OHL Reinforcement	
Reinforcement		
Overview of Works:		
This project is to reinforce the existing BSW/BSE Beauly, Shin to Loch Buidhe 132kV double circuit		
with a higher capacity 275kV double circuit OHL.		
The reinforcement will include a new double circ	-	
approximately 40km, as well as works at Beauly,	Loch Buidhe and Shin substations.	
	24/42/2024	
Project Completion Date	31/10/2021	
Summary of works in last quarter:		
System Studies in progress to reassess derogation		
reinforcement. Project now has a proceed signal from the National Grid System Operator		
published NOA (Network Options Assessment) report.		
Summary of works in next quarter:		
Project progressed to optioneering stage with Development team.		
Additional Comments:		
N/A		



Scheme
Third 2GW East Coast HVDC Link Peterhead to
England
·
th associated equipment. HVDC cables to be
and (landing point to be confirmed). This will be a
31/10/2033



	Scheme	
SHET-RI-061 - Skye Overhead Line	Skye Overhead Line Reinforcement	
Reinforcement		
Overview of Works:		
Construct a new 132kV circuit from Fort Augustus to Ardmore. The circuit is proposed as double		
circuit structure from Fort Augustus to Broadford, Single Circuit Structure from Broadford to		
Edinbane and single circuit structure from Edinbane to Ardmore (approximately 160km Fort		
Augustus 132kV substation to Ardmore 132kV substation).		
Project Completion Date	31/12/2025	
Summary of works in last guarter:		
Summary of works in next quarter:		
Conclude alignment design with public consultation, begin EIA reporting and commence detail design on fixed overhead line alignment		
design on fixed overhead line alignment		
design on fixed overhead line alignment		
design on fixed overhead line alignment Additional Comments: N/A		



TORI	Scheme
SHET-RI-064 - Fort Augustus Substation	Fort Augustus Substation 400/132kV
400/132kV Development	Development
Overview of Works:	
Develop the existing Fort Augustus substation	n to include a new 400kV and a new 132kV busbar.
The new 400kV busbar is to be connected to a	the new 132kV busbar via two new 480MVA
400/132kV Super grid transformers.	
Project Completion Date	31/10/2021
Summary of works in last quarter:	
Completion of the Super grid transformer inst	tallation ready for oil filling. The 132kV and 400kV
	, ,
	, ,
Gas Insulated Switchgear installation is comp	tallation ready for oil filling. The 132kV and 400kV lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp	, ,
Gas Insulated Switchgear installation is comp commenced.	, ,
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter:	lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter: Dismantle existing 400kV equipment in the existing	lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter: Dismantle existing 400kV equipment in the ex 400kV extension. Energise the 400kV equipm	lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter: Dismantle existing 400kV equipment in the existing	lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter: Dismantle existing 400kV equipment in the ex 400kV extension. Energise the 400kV equipm	lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter: Dismantle existing 400kV equipment in the ex 400kV extension. Energise the 400kV equipm	lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter: Dismantle existing 400kV equipment in the ex 400kV extension. Energise the 400kV equipm equipment in the Autumn.	lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter: Dismantle existing 400kV equipment in the ex 400kV extension. Energise the 400kV equipm equipment in the Autumn. Additional Comments:	lete. Outages to energise the 400kV equipment have
Gas Insulated Switchgear installation is comp commenced. Summary of works in next quarter: Dismantle existing 400kV equipment in the ex 400kV extension. Energise the 400kV equipm equipment in the Autumn.	lete. Outages to energise the 400kV equipment have



TORI	Scheme	
SHET-RI-065a - Beauly 132 kV Substation	Beauly 132 kV Substation Redevelopment	
Redevelopment		
Overview of Works:		
•	nent at Beauly substation, and transfer the circuits	
	bar. Connect the new 132kV double busbar to the	
existing 275kV busbar via two new 360MVA 275/132kV transformers. Third new 360MVA		
275/132kV transformer will be undertaken und	der SHET-RI 065b	
Project Completion Date	31/10/2024	
Summary of works in last quarter:		
Carried out two public consultations with anot	her one due this month.	
Circuit swap over stage by stages complete.		
EIA scoping report complete and issued.		
Summary of works in next quarter:		
Submit Planning application		
Take onboard public consultation feedback wit	ch regards to visual impact.	
Complete ground investigation works.		
Complete environmental surveys.		
Additional Comments:		
N/A		



TOP	Scheme	
TORI		
SHET-RI-065b - Beauly 3rd SGT Replacement	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 1321	vV double busbar arrangement at Beauly	
substation, and transfer the circuits from the existing 132kV busbar to the new busbar.		
	ů.	
Project Completion Date	31/10/2025	
Summary of works in last quarter:	-	
See TORI-065a		
Summary of works in next quarter:		
See TORI-065a		
Additional Comments:		
N/A		
1		



TORI	Scheme	
SHET-RI-066 - Fort Augustus Substation	Fort Augustus Substation 400/275kV	
400/275kV Development	Development	
Overview of Works:		
Develop the existing Fort Augustus substation to include a new 275kV busbar. The 275kV busbar is		
connected to the 400kV busbar via two 1200MVA 400/275kV Supergrid transformers. The 400kV		
busbar is part of SHET-RI-064 works.		
Project Completion Date	01/12/2027	
Summary of works in last quarter:		
Project is currently on hold.		
Summary of works in next quarter:		
Generation drivers have resulted in this project of		
status of the project there are no immediate works forecast in this quarter to meet the		
completion date.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-068 - Fort Augustus -Invergarry-	Fort Augustus -Invergarry-400/132kV	
400/132kV Development	Development	
Overview of Works:		
Upgrade the existing 132kV double circuit OHL between Fort Augustus and Invergarry substation		
with a new 400kV OHL. The existing 132kV OHL forms part of the Fort Augustus to Fort William		
FFE/FFW Circuits.		
Part of the ungrade is to establish a $400/132kV$	substation at Invergarry to connect the existing	
132kV OHL from Fort William and Invergarry Ge		
The new 400kV OHL will terminate into the 400	0kV busbar at Fort Augustus. The 400kV busbar is	
part of SHET-RI-064 works.		
Project Completion Date	21/12/2027	
Project Completion Date	31/12/2027	
Summary of works in last quarter:		
	bstation location option will continue into the next	
quarter. It is expected that candidate corridors	-	
programme of stakeholder consultation will be	established.	
Summary of works in next quarter:		
Route option assessment and development of t	the design for commencing with stakeholder	
consultation and pre-submission consents work with key statutory stakeholders and the local		
planning authority.		
Additional Comments:		
Additional Comments: N/A		



TORI	Scheme	
SHET-RI-069 - Kinardochy Reactive	Kinardochy Reactive Compensation	
Compensation		
Overview of Works:		
Reactive Compensation is required at a n	ew Kinardochy substation for voltage support on the	
275kV Beauly-Denny overhead line. The Reactive Compensation will require a capability of +		
225MVAr and -225MVAr.		
Project Completion Date	31/08/2024	
Summary of works in last quarter:		
Appointment of principal contractors for both the substation and overhead line construction		
Appointment of principal contractors for	both the substation and overhead line construction	
works.	both the substation and overhead line constituction	
works.	vorks and commence detailed design development.	
works.		
works. Undertook further ground investigation v		
works. Undertook further ground investigation v Summary of works in next quarter:	vorks and commence detailed design development.	
works. Undertook further ground investigation v Summary of works in next quarter: Progression of detailed design works for		
works. Undertook further ground investigation v Summary of works in next quarter: Progression of detailed design works for project.	vorks and commence detailed design development.	
works. Undertook further ground investigation works Summary of works in next quarter: Progression of detailed design works for project. Secure planning consent and prepare cor	vorks and commence detailed design development.	
works. Undertook further ground investigation w Summary of works in next quarter: Progression of detailed design works for project. Secure planning consent and prepare cor planning conditions	works and commence detailed design development. both the substation and overhead line elements of the nstruction documentation associated with discharging	
works. Undertook further ground investigation works Summary of works in next quarter: Progression of detailed design works for project. Secure planning consent and prepare cor	works and commence detailed design development. both the substation and overhead line elements of the nstruction documentation associated with discharging	
works. Undertook further ground investigation w Summary of works in next quarter: Progression of detailed design works for project. Secure planning consent and prepare cor planning conditions	works and commence detailed design development. both the substation and overhead line elements of the nstruction documentation associated with discharging	
works. Undertook further ground investigation w Summary of works in next quarter: Progression of detailed design works for project. Secure planning consent and prepare cor planning conditions Formal agreement for all land purchase a	works and commence detailed design development. both the substation and overhead line elements of the nstruction documentation associated with discharging	
works. Undertook further ground investigation works Summary of works in next quarter: Progression of detailed design works for project. Secure planning consent and prepare cor planning conditions Formal agreement for all land purchase a Additional Comments:	works and commence detailed design development. both the substation and overhead line elements of the nstruction documentation associated with discharging	
works. Undertook further ground investigation w Summary of works in next quarter: Progression of detailed design works for project. Secure planning consent and prepare cor planning conditions Formal agreement for all land purchase a	works and commence detailed design development. both the substation and overhead line elements of the nstruction documentation associated with discharging	



TORI	Scheme	
SHET-RI-072 - Blackhillock-Kintore 400 kV OHL	Blackhillock-Kintore 400 kV OHL Upgrade	
Upgrade		
Overview of Works:		
Replace the existing 55km XH1/XH2 275kV doubl	e circuit OHL with a 400kV double circuit OHL.	
The new 400kV OHL will terminate on the 400kV busbars at Blackhillock and Kintore substations.		
A new connection arrangement is required at Ca	rnford substation to allow connection to the	
proposed 400kV OHL.		
Project Completion Date	30/09/2027	
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-075 - Orkney 132kV Infrastructure Finstown - Ellibster	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		
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:		
Project to be progressed in liaison with SHET-RI-019.		
L		



TORI	Scheme
SHET-RI-079 - Blackhillock Additional	Blackhillock Additional 275/132kV SGTs
275/132kV SGTs	
Overview of Works:	
Reinforce the transmission network at Blackhille	ock substation by installing two additional new
275/132kV Supergrid Transformers. The transfo	ormers are to be rated at 360MVA.
Project Completion Date	30/06/2025
Summary of works in last quarter:	
Project to continue to progress and work towar	ds initial design deliverables.
Summary of works in next quarter: Project to continue work towards initial design of internal governance steps.	deliverables and progress through early-stage



TORI	Scheme
	Craig Murrail Switching Station
SHET-RI-086 - Craig Murrail Switching Station Overview of Works:	
It is proposed that a new 132 kV switching statio	n will be constructed near the Port Ann tee point y 132 kV double circuit. Disconnect Port Ann from nn GSP directly onto the new 132kV double
Project Completion Date	31/10/2025
Summary of works in last quarter:	
Substation Site Selection assessment was comple	
Summary of works in next quarter:	
Stakeholder Consultation to be completed with F Site.	Public Consultation Events to be held on Preferred
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-088 - Loch Buidhe - Dounreay 275kV	Loch Buidhe - Dounreay 275kV Reinforcement
Reinforcement	
Overview of Works:	
Reconductor the existing 275kV double circuit C	OHL between Loch Buidhe and Dounreay
(approximately 87km). The double circuit is to b	e reconductored with a high temperature
conductor, with a summer pre-fault rating of 90	IOMVA.
	24/02/2025
Project Completion Date	31/08/2025
Summary of works in last quarter:	
Summary of works in last quarter: System Studies in progress to assess the require	ed scope of reinforcement. Works to be considered
Summary of works in last quarter:	
Summary of works in last quarter: System Studies in progress to assess the require	
Summary of works in last quarter: System Studies in progress to assess the require	
Summary of works in last quarter: System Studies in progress to assess the require	
Summary of works in last quarter: System Studies in progress to assess the require alongside SHET-RI-058.	ed scope of reinforcement. Works to be considered
Summary of works in last quarter: System Studies in progress to assess the require alongside SHET-RI-058. Summary of works in next quarter:	ed scope of reinforcement. Works to be considered
Summary of works in last quarter: System Studies in progress to assess the require alongside SHET-RI-058. Summary of works in next quarter:	ed scope of reinforcement. Works to be considered
Summary of works in last quarter: System Studies in progress to assess the require alongside SHET-RI-058. Summary of works in next quarter:	ed scope of reinforcement. Works to be considered
Summary of works in last quarter: System Studies in progress to assess the require alongside SHET-RI-058. Summary of works in next quarter:	ed scope of reinforcement. Works to be considered
Summary of works in last quarter: System Studies in progress to assess the require alongside SHET-RI-058. Summary of works in next quarter: Works to be considered alongside SHET-RI-058.	ed scope of reinforcement. Works to be considered
Summary of works in last quarter: System Studies in progress to assess the require alongside SHET-RI-058. Summary of works in next quarter: Works to be considered alongside SHET-RI-058. Additional Comments:	ed scope of reinforcement. Works to be considered
Summary of works in last quarter: System Studies in progress to assess the require alongside SHET-RI-058. Summary of works in next quarter: Works to be considered alongside SHET-RI-058. Additional Comments:	ed scope of reinforcement. Works to be considered



TORI	Scheme
SHET-RI-089 - Farigaig SGT2 Upgrade	Farigaig SGT2 Upgrade
Overview of Works:	
Upgrade the 120MVA 275/132kV SGT2 at Far	igaig substation to a 240MVA SGT, to facilitate the
connection of generation in the area.	
Project Completion Date	30/08/2024
Summary of works in last quarter:	
The Modification Application has been signed	by the Developer, with the project now on hold
until 2023 when activities will recommence.	
Summary of works in next quarter:	
Interfaces with Farigaig SGT1 (SHET-RI-129) U	Ipgrade options will be assessed.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-090 - Coupar Angus - Errochty 132kV	Coupar Angus - Errochty 132kV Reconductoring
Reconductoring	
Overview of Works:	
Reconductor approximately 15.4km of the existir	-
and Clunie substations. This double circuit is to b	-
300mm2) and will operate at 75°C to give a minir	num summer pre-fault rating of 176MVA.
	24/40/2020
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	Scheme
SHET-RI-093 - East Coast Phase 2 - 400kV	East Coast Phase 2 - 400kV Reinforcement
Reinforcement	
Overview of Works:	
Upgrade the existing Blackhillock / Rothienorman	· · · · · · · · · · · · · · · · · · ·
circuits to 400kV operation. Establish a new 400k upgrade.	V double busbar at Kintore to enable this
upgrade.	
This upgrade also interfaces at Blackhillock 400k	V 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 Transmis	sion/SPT Boundary (Boundary 4).
Project Completion Date	31/10/2026
Summary of works in last quarter:	
	ed to 'best and final offer' (BAFO) and award OHL
Contract.	
Undertake and complete tree resilience survey w	
Continue refinement of conductor suitability to r	
mitigate further impact on tower extension num	
Kintore substation works concluded the initial, n	
400kV SF6 free Gas Insulated Switchgear. Achiev	ed internal approval to progress to execution
phase.	
Summary of works in next quarter:	
Commence assessment of the required upgrade	works at Fetteresso Substation and establish
required design works.	
Kintore substation works will place the main Con	tracts for GIS Manufacture and the award for
earthworks which is being done along with the e	arthworks under SHET-RI-25d.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-098 - Dunoon GL1-GL2 OHL Rebuild	Dunoon GL1-GL2 OHL Rebuild
Overview of Works:	
Rebuild approximately 18km of double circuit or	verhead line between Dunoon substation and the
SHET – SPT boundary.	
This project interfaces with Scottish Power Tran	
the SHET-SPT boundary will be the responsibility	y of SPT.
Project Completion Date	30/03/2026
Summary of works in last quarter:	·
Identified proposed alignments for the overhead	d line. Continued with environmental surveys.
Summary of works in next quarter:	
Undertake consultation on the proposed alignment	
onacitate consultation on the proposed digina	ents. From consultation feedback identify a
proposed alignment. Commence Environmental	Impact Assessment. Continue with ornithological
	Impact Assessment. Continue with ornithological
proposed alignment. Commence Environmental	Impact Assessment. Continue with ornithological
proposed alignment. Commence Environmental	Impact Assessment. Continue with ornithological
proposed alignment. Commence Environmental	Impact Assessment. Continue with ornithological
proposed alignment. Commence Environmental	Impact Assessment. Continue with ornithological
proposed alignment. Commence Environmental	Impact Assessment. Continue with ornithological
proposed alignment. Commence Environmental surveys. Continue engagement with stakeholde	Impact Assessment. Continue with ornithological
proposed alignment. Commence Environmental surveys. Continue engagement with stakeholder Additional Comments:	Impact Assessment. Continue with ornithological
proposed alignment. Commence Environmental surveys. Continue engagement with stakeholde	Impact Assessment. Continue with ornithological



TORI	Scheme
SHET-RI-099 - Beauly-Keith 132kV	Beauly-Keith 132kV Reconductoring
Reconductoring	
Overview of Works:	
Reconductor approximately 108km of the e	xisting 132kV double circuit OHL between Beauly and
Keith 132kV substations. This double circuit	is to be reconductored with a minimum summer pre-
fault rating of 176MVA.	
Project Completion Date	18/06/2021
Summary of works in last quarter:	
Keith substation disconnector upgrade world	ks complete in O1 2021
Beauly substation disconnector upgrade wo	•
Circuit inter tripping protection modification	•
Summary of works in next quarter:	
Circuit inter tripping protection modification	ns and commissioning forecast for completion in Q2
2021.	
Additional Comments:	
Project complete in Q2 2021.	
Project complete in Q2 2021.	
Project complete in Q2 2021.	



TORI	Scheme
SHET-RI-105 - Rothienorman s/s &	Rothienorman s/s & Rothienorman - Kintore
Rothienorman - Kintore Reconductoring	Reconductoring
Overview of Works:	
Establish a new double busbar at Rothienorman	to be built at 400kV, but initially operate at
275kV. Re-conductor the 275kV double circuit ov	verhead line between the new double busbar at
Rothienorman and Kintore substation (MX1, MX	2).
Project Completion Date	20/08/2021
Summary of works in last quarter:	
Energisation outage and turn-in sequence to pro	ogress.
Summary of works in next quarter:	
Obtain remaining OHL outages required to comp	blete all OHI turn-ins and subsequently full
energisation of the substation by 20 <sup>th</sup> August 20	
energisation of the substation by 20° August 20.	21.
Additional Commenter	
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-106b - Connagill 2nd SGT	Connagill 2nd SGT
Overview of Works:	
At Connagill substation, install a 2nd 275/132k	V 360MVA supergrid transformer, to enable the
connection of wind generation in the local area	a to the Dounreay – Loch Buidhe 275kV circuit.
Project Completion Date	01/04/2024
Summary of works in last quarter:	
Project Development work to continue.	
Summary of works in next quarter:	
Initial high-level project development, along with	ith initial internal governance activities for project
inception.	
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-107 - North Argyll - Inveraray	North Argyll - Inveraray Reinforcement
Reinforcement	
Overview of Works:	
Reinforce the double circuit overhead line betwe	een North Argyll 275/132kV substation
	ay 132kV switching station. This reinforced circuit
will connect to the double circuit overhead line f	
approximately 2.8km away from Inveraray.	
Project Completion Date	30/04/2025
Summary of works in last quarter:	
OHL route selection assessment was completed a	and preferred OHL route has been selected.
Summary of works in next quarter:	
	Public Consultation Events to be held on the route
options and preferred route.	
OHL alignment selection study to be completed.	
Additional Comments:	
N/A	
1	



TORI	Scheme
SHET-RI-109 - Loch Buidhe - Spittal 132kV	Loch Buidhe - Spittal 132kV Reconductoring
Reconductoring	
Overview of Works:	
Reconductor the existing 90km 132kV tower lin	e between Loch Buidhe and Spittal substations.
The 132kV overhead line is to be reconductored	d with a higher capacity conductor than the
existing conductor and should have a minimum	summer pre-fault rating of 176MVA.
Project Completion Date	30/06/2027
Summary of works in last quarter:	
Developer triggering the reinforcement work ha	as now signed their offer. The project will be
• · · · · • • · · · · · ·	
formally kicked off and progressed to early stag	e development.
formally kicked off and progressed to early stag	e development.
formally kicked off and progressed to early stag	e development.
formally kicked off and progressed to early stag	e development.
	e development.
Summary of works in next quarter:	
Summary of works in next quarter:	
Summary of works in next quarter:	
Summary of works in next quarter:	
Summary of works in next quarter: Project to be progressed by the Development to	
Summary of works in next quarter: Project to be progressed by the Development to Additional Comments:	
Summary of works in next quarter: Project to be progressed by the Development to	
Summary of works in next quarter: Project to be progressed by the Development to Additional Comments:	
Summary of works in next quarter: Project to be progressed by the Development to Additional Comments:	
Summary of works in next quarter: Project to be progressed by the Development to Additional Comments:	



TORI	Scheme	
-	Abernethy 132kV Mesh Corner	
SHET-RI-111 - Abernethy 132kV Mesh Corner	Abernetny 152kV Wesh Corner	
Overview of Works:		
At Abernethy 132/33kV substation, install a four-		
connected to the existing Burghmuir – Charleston 132kV double circuit overhead line (PCN/CAS).		
	1	
Project Completion Date	31/10/2022	
Summary of works in last quarter:		
Continue to progress with Regional Development	t Plan and further optioneering to identify most	
economical solution to accommodate contracted	generation.	
Summary of works in next quarter:		
Continue to progress with Regional Development	t Plan and further optioneering to identify most	
economical solution to accommodate contracted	generation.	
Additional Comments:		
N/A		



	Ι
TORI	Scheme
SHET-RI-115 - Melgarve 400/132 kV Substation	Melgarve 400/132 kV Substation Additional
Additional SGTs	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 w	ind generation in the area.
	-
Project Completion Date	31/10/2026
Summary of works in last quarter:	
Continuation of development works will be unde	rtaken in the next quarter including drafts and
options for the general arrangement of the subst	
options for the general arrangement of the saids	
Summary of works in next quarter:	
	ation and refinement of the design and necessary
extension work for commencing Town and Count	try Planning pre-submission works including the
environmental surveys.	
Additional Comments:	
N/A	
11/7	



TORI	Scheme	
	Kergord - Yell 132kV Connection	
SHET-RI-116 - Kergord - Yell 132kV Connection		
Overview of Works:	two on the Keysend 1221/(autotation (actablished	
-	etween the Kergord 132kV substation (established	
as part of SHET-RI-053) and a new 132kV switchi renewable generation.	ing station on reli, to enable the connection of	
Project Completion Date	01/04/2025	
·····		
Summary of works in last quarter:		
Continue to refine connection route and techno		
technology and take to public consultation Q2 24	021 to invite feedback from stakeholders to	
inform designs. Continue to engage with Shetland Islands Counc	il landowners and other stakeholders on	
preferred routes.	in, landowners and other stakeholders on	
Continue to carry out desktop and local surveys	to de-risk the selection of preferred routes.	
Summary of works in next quarter:		
Continue with local surveys including bird survey investigations.	ys, noise surveys, peat probing and geotechnical	
-	outes to continue to inform and de-risk selection	
of preferred routes and to progress to alignment		
Progress plans for next public consultation in Q3 2021.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-117 - Tealing 275kV Busbar Upgrade	Tealing 275kV Busbar Upgrade	
Overview of Works:		
At Tealing remove the existing 275kV 2500A rat	ed busbar and replace with a new 4000A rated	
275kV double busbar complete with two bus co	uplers, one bus section and busbar selection on all	
feeder bays.		
Project Completion Date	31/12/2021	
Summary of works in last quarter:		
Energisations complete on phase 1 of the Reser	ve busbar 1 works and outage taken on the second	
phase of the reserve bus 1 works with all disma	ntling works completed and rebuild of the bus bar	
completed and energised.		
Summary of works in next quarter:		
Second phase of the reserve bus bar to be energy	gised.	
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-119 - Corriemoillie Transformer	Corriemoillie Transformer Protection	
Protection Modification	Modification	
Overview of Works:		
At the existing Corriemoillie substation, inst	tall a 3 ended grid transformer differential protection	
scheme on GT2 to enable the connection of a second generator at Corriemoillie.		
Project Completion Date	31/10/2024	
Summary of works in last quarter:	· · ·	
Design work being progressed.		
Summary of works in next quarter:		
	team for review and coordination with generator	
	team for review and coordination with generator	
Project initiated and passed to the Delivery	team for review and coordination with generator	
Project initiated and passed to the Delivery	team for review and coordination with generator	
Project initiated and passed to the Delivery	team for review and coordination with generator	
Project initiated and passed to the Delivery	team for review and coordination with generator	
Project initiated and passed to the Delivery connection works.	team for review and coordination with generator	
Project initiated and passed to the Delivery connection works. Additional Comments:	team for review and coordination with generator	
Project initiated and passed to the Delivery connection works. Additional Comments:	team for review and coordination with generator	



TORI	Scheme
SHET-RI-120 - East Coast 132kV Upgrade	East Coast 132kV Upgrade
Overview of Works:	
	ear Fiddes connected to the 275kV double circuit
tower line XT1/XT2 between Kintore and Tealir	ıg.
Construct a new 132kV double circuit overhead	l line between Brechin and the
Tealing/Arbroath/Brechin Tee Point.	
Reconductor the existing double circuit tower I	ine between Tealing and the
Tealing/Arbroath/Brechin Tee Point.	
Dismantle the existing Fiddes 132/33kV substa	tion.
Dismantle the existing 132kV single circuit overhead line between the	
Craigiebuckler/Tarland/Fiddes Tee Point and th	e Brechin Substation.
Project Completion Date	31/10/2026
Summary of works in last guarter:	
Following completion of Public Consultation, co	ommence determining the alignment for the new
Arbroath Tee to Tealing 132kV Overhead Line. Complete Optioneering for Fiddes Substation and	
the Fiddes to Fetteresso Overhead Line works a	and undertake consultation as required for these.
<b>Summary of works in next quarter:</b> Publish the report on consultation for the over	head line works between Breshin and the
Tealing/Arbroath/Brechin Tee Point.	
Finalise the scheme option for Fiddes Substation or Fiddes to Fetteresso Overhead Line works.	
Asset Management to undertake further asset condition assessment surveys of the overhead line	
between Brechin and the Tealing/Arbroath/Brechin Tee Point.	
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-121 - Charleston - Abernethy 132kV	Charleston - Abernethy 132kV Reconductoring
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.	
Project Completion Date	31/10/2022
Summary of works in last quarter:	·
Continue with Optioneering and Project Develop	oment to identify optimum reinforcement strategy
to accommodate contracted generation.	
Summary of works in next quarter:	
	oment to identify optimum reinforcement strategy
to accommodate contracted generation.	sment to identify optimum remotectment strategy
Additional Comments:	
N/A	



Reconductoring Overview of Works: Following the completion of SHET-RI-058, Shin substation		
<b>Overview of Works:</b> Following the completion of SHET-RI-058, Shin substation Buidhe 132kV substation via the existing 132kV double ci this 132kV double circuit overhead line between Shin sub	•	
Following the completion of SHET-RI-058, Shin substation Buidhe 132kV substation via the existing 132kV double ci this 132kV double circuit overhead line between Shin sub	•	
Buidhe 132kV substation via the existing 132kV double ci this 132kV double circuit overhead line between Shin sub	•	
his 132kV double circuit overhead line between Shin sub		
	Buidhe 132kV substation via the existing 132kV double circuit. TORI-123 project is to reconductor	
double circuit should be reconductored with a minimum	station and Loch Buidhe substation. The	
	summer pre-fault rating of 190MVA.	
Project Completion Data	2022	
Project Completion Date 31/12/	2023	
Summary of works in last quarter:		
System Studies ongoing. Works to be considered alongsic	e SHET-RI-058.	
Summary of works in next quarter:		
System Studies ongoing. Works to be considered alongsic	e SHET-RI-058.	
Additional Comments:		
N/A		



TORI	Scheme
-	2nd Shetland HVDC Link Kergord -
SHET-RI-124 - 2nd Shetland HVDC Link Kergord	Rothienorman
- Rothienorman	Rothenorman
<b>Overview of Works:</b> Construct a 2nd 600MW (tbc) HVDC link from Ke under SHET-RI-053) to the Scottish mainland at a substation.	-
The 600MW HVDC link will have approximately 3 between Shetland and Rothienorman.	6km of land cable and 320km of subsea cable
Project Completion Date	31/10/2026
Project on hold.	
Summary of works in next quarter: Project on hold.	
Additional Comments: N/A	



TORI	Scheme
SHET-RI-126 - Kergord - Yell 132kV 2nd	Kergord - Yell 132kV 2nd Connection
Connection	
Overview of Works:	
On Shetland install a new 2nd 132kV single circui	t between the Kergord 132kV substation
(established as part of SHET-RI-053) and the Sout	h Yell Switching Station (constructed as part of
SHET-RI-116), to enable the connection of renew	able generation.
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	Scheme	
	Dounreay - Spittal 400 kV Double Circuit Cable	
SHET-RI-127 - Dounreay - Spittal 400 kV Double Circuit Cable		
Overview of Works:	a new site along to Development and the second	
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.		
minimum summer rating of 1000MW on each cir	cuit	
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Change to contracted background has resulted in	a change to scope of TORI. Initial Development	
and optioneering works to progress.		
Summary of works in next quarter:		
Coordination required with Scotwind and Offshore Transmission Network Review workstream.		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-129 - Farigaig SGT1 Upgrade	Farigaig SGT1 Upgrade
Overview of Works:	
Upgrade the 120MVA 275/132kV SGT1 at Fariga	ig substation to a 240MVA SGT, to facilitate the
connection of generation in the area.	
Project Completion Date	01/04/2024
Summary of works in last quarter:	
Project Team assessing the works planned for th	e Farigaig SGT2 upgrade and reviewing
implementing these on the SGT1 upgrade.	
Summary of works in next quarter:	
Development team engaging on initial optioneer	ring work.
Additional Comments:	
N/A	



TORI	Scheme	
SHET-RI-130a - North Argyll - Craig Murrail	North Argyll - Craig Murrail 275kV Operation	
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 upgrade of substations on this circuit for 275kV operation.		
Project Completion Date	31/10/2025	
Summary of works in last quarter:		
Substation Site Selection assessment complete a	and Preferred Sites selected.	
Summary of works in next quarter: Stakeholder Consultation to be completed with Public Consultation Events to be held on the Site options and Preferred Sites.		
Additional Comments: N/A		



TORI	Scheme	
SHET-RI-130b - Craig Murrail - Crossaig 275kV	Craig Murrail - Crossaig 275kV Operation	
Operation		
Overview of Works:		
Reinforce the network in the Argyll and Kintyre r	network to enable 275kV operation of the	
network from Craig Murrail substation to a new	double busbar substation to be established at	
Crossaig.		
Project Completion Date	31/10/2026	
Summary of works in last quarter:		
Substation Site Selection assessment complete a	nd Preferred Site selected.	
Summary of works in next quarter: Stakeholder Consultation to be completed with Public Consultation Events to be held on the Site options and Preferred Site.		
Additional Comments: N/A		



TORI	Scheme	
	Brechin 132kV Extension	
SHET-RI-131 - Brechin 132kV Extension	BIECHIII 152KV EXTENSION	
Overview of Works:		
Construct 2 new circuit breakers at Brechin Gr	rid Supply point.	
Project Completion Date	31/10/2024	
Summary of works in last quarter:		
Optioneering and Project Development to cor	ntinue alongside related reinforcement, SHET-RI-120.	
Summary of works in next quarter:		
	ent alongside related reinforcement, SHET-RI-120.	
continue optioneering and project development alongside related relinoreement, sher ki 120.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-132 - Beauly-Blackhillock High	Beauly-Blackhillock High Temperature	
Temperature Reconductoring	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 Knocknag	ael and Blackhillock.	
The substation at Knocknagael is adjacent to the	existing Foyers line tee point.	
Project Completion Date	31/10/2026	
Summary of works in last quarter:	•	
Subject to acceptance.		
Summary of works in next quarter:		
Initial Development and optioneering works to progress.		
Additional Comments:		
N/A		



TORI	Scheme	
	Beauly-Denny 2 <sup>nd</sup> Circuit upgrade from 275kV	
SHET-RI-134 – Beauly-Denny 2 <sup>nd</sup> Circuit upgrade	to 400kV	
from 275kV to 400kV	10 400 10	
Overview of Works:		
Upgrade the existing Beauly / Fasnakyle/ Fort Augustus / Tummel-Kinardochy / Braco West /		
Bonny Bridge 275kV circuit to 400kV; mirroring th	ne ratings of the existing 400kV circuit, along the	
route		
	1	
Project Completion Date	31/10/2029	
Summary of works in last quarter:		
Initial Development and optioneering works to pr	ogress.	
Summary of works in next quarter:		
Initial Development and optioneering works to progress.		
initial bevelopment and optioneering works to progress.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-135 - Broadford to Edinbane 132kV	Broadford to Edinbane 132kV Reinforcement	
Reinforcement		
Overview of Works:		
Construct a 132kV Collector Switching Station at		
Broadford 132kV Substation; add a second 132kV circuit between Broadford 132kV Substation		
and Edinbane 132kV Collector Switching Station,	mirroring the rating of the existing 132kV circuit.	
Project Completion Date	31/07/2026	
Summary of works in last quarter:	•	
Subject to acceptance.		
Summary of works in next quarter:		
Initial Development and optioneering works to progress.		
Additional Comments:		
N/A		



	C. h	
TORI	Scheme	
SHET-RI-136 - Blackhillock 400kV Building	Blackhillock 400kV Building Extension	
Extension		
Overview of Works:		
Extend existing Blackhillock 400kV GIS building to	allow space provision for additional bays.	
Project Completion Date	31/08/2024	
Summary of works in last quarter:		
Project initiated, driven by regional connection a	ctivity.	
Summary of works in next quarter:		
Initial development and optioneering works to pr	ogress.	
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-137 - Blackhillock-New Deer-Peterhead	Blackhillock-New Deer-Peterhead 400kV OHL	
400kV OHL		
Overview of Works:		
Establish a new 400kV double circuit overhead lir	ne from Blackhillock to New Deer (60km) and	
New Deer to Peterhead (22km).		
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Project initiated. Project driven by regional conne	ection activity and wider system requirements.	
Summary of works in next quarter:		
Initial development and optioneering works to pr	rogress. Project to be prepared for submission for	
evaluation in Network Options Assessment (NOA	).	
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-138 - New Deer 400kV Busbar	New Deer 400kV Busbar Extension	
Extension		
Overview of Works:		
Extend 400kV double busbar to form 3-section b	usbar at New Deer 400kV Substation.	
Project Completion Date	31/10/2033	
Summary of works in last quarter:		
Project initiated. Project driven by regional conne	ection activity.	
Summary of works in next quarter:		
Initial development and optioneering works to progress.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-139 - 2GW HVDC Link New Deer to	2GW HVDC Link New Deer to England	
England		
Overview of Works:	1	
Install an indoor 2GW HVDC converter station wi	th associated equipment at New Deer Substation.	
HVDC cables to be routed into the sea and then s	south towards England (landing point to be	
confirmed). This will be a joint project with Natio	nal Grid.	
Project Completion Date	31/10/2033	
Summary of works in last quarter:		
Project initiated.		
Summary of works in next quarter:		
Initial development and optioneering works to p	rogress	
Initial development and optioneering works to progress.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-140 - Thurso South 275 kV Substation	Thurso South 275 kV Substation	
Redevelopment	Redevelopment	
Overview of Works:		
Redevelop the existing Thurso South 275 kV substation into a new 275 kV double busbar		
arrangement.		
Project Completion Date	01/06/2025	
Project Completion Date	01/00/2025	
Summary of works in last quarter:		
Subject to acceptance.		
Summary of works in next quarter:		
Initial Development and optioneering works to p	rogress.	
Additional Comments:		
N/A		



TORI	Scheme	
	Caithness to New Deer 2 - 2 x 1GW HVDC Links	
SHET-RI-142 - Caithness to New Deer 2 - 2 x	Calciness to New Deel 2 - 2 x 10W IVDC Links	
1GW HVDC Links		
Overview of Works:		
Construct 2 x 1GW HVDC links from Spittal to Ne	w Deer 2, including converter stations and	
associated equipment.		
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Subject to acceptance.		
Summary of works in next quarter:		
Subject to acceptance.		
Subject to acceptance.		
Additional Comments:		
N/A		



TORI	Scheme	
	Kergord - Gremista GSP 132kV Infrastructure	
SHET-RI-143 - Kergord - Gremista GSP 132kV		
Infrastructure		
Overview of Works:	reard substation and Cramista CCD torrainstad	
Construct a new 132kV 24km circuit between Kergord substation and Gremista GSP, terminated onto new 132kV feeder bays at Kergord and Gremista. Construct a new Tee point for the		
connection of a wind farm.	mista. Construct a new ree point for the	
connection of a wind farm.		
Project Completion Date	30/04/2025	
Summary of works in last quarter:		
New TORI following re-categorisation of local wo	orks.	
Summary of works in next quarter:		
Initial Development and optioneering works to p	rogress.	
Additional Comments:		
N/A		



TORI	Scheme	
	New Deer 2 400kV Substation	
SHET-RI-144 - New Deer 2 400kV Substation	New Deel 2 400kv Substation	
Overview of Works:		
Establish a new 400kV substation close to the pro		
proposed 400kV circuits from New Deer to Peterhead.		
	-	
Project Completion Date	31/10/2033	
Summary of works in last quarter:		
Project initiated. Project driven by regional conne	ection activity.	
Summary of works in next quarter:		
Initial development and optioneering works to pr	ogress.	
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-145 - 2GW HVDC Link New Deer 2 to	2GW HVDC Link New Deer 2 to England	
England		
Overview of Works:		
Install an indoor 2GW HVDC converter station w	ith associated equipment at New Deer 2	
Substation. HVDC cables to be routed into the se	ea and then south towards England (landing point	
to be confirmed). This will be a joint project with National Grid.		
Drainet Completion Date	24/40/2022	
Project Completion Date	31/10/2033	
Summary of works in last quarter:		
Project initiated. Project driven by regional conr	lection activity.	
Summary of works in next quarter:		
Initial development and optioneering works to p	progress.	
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-146 - Clash Gour 275/132kV Collector	Clash Gour 275/132kV Collector Substation	
Substation		
Overview of Works:		
Reconductor the Beauly - Blackhillock 275 kV do	uble 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.		
Project Completion Date	31/10/2026	
Summary of works in last quarter:		
Subject to acceptance.		
Summary of works in next quarter:		
Subject to acceptance.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-147 - Tealing 400kV Substation	Tealing 400kV Substation	
Overview of Works:		
Establish a new 400kV substation close to the existing Tealing 275kV Substation.		
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Project initiated. Project driven by regional conn	ection activity.	
Summary of works in next quarter:		
Initial development and optioneering works to progress.		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-148 - Alyth – Tealing 400kV	Alyth – Tealing 400kV Reinsulation
Reinsulation	
Overview of Works:	
Re-insulate the 275kV double circuit overhe	ead line between Alyth and Tealing for 400kV
operation.	
Project Completion Date	31/10/2031
Summary of works in last quarter:	
Project identified.	
Summary of works in next quarter: Initial high-level project development, alon inception.	g with initial internal governance activities for project
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-149 - Tealing – Glenrothes Westfield	Tealing – Glenrothes Westfield 400kV Rebuild
400kV Rebuild	
Overview of Works:	
Rebuild the 275kV double circuit overhead line	between Tealing and Glenrothes-Westfield for
400kV operation.	
Project Completion Date	31/10/2031
Summary of works in last quarter:	51/10/2031
Project identified.	
Summary of works in next guarter:	
Summary of works in next quarter:	h initial internal governance activities for project
Initial high-level project development, along with	h initial internal governance activities for project
<i>·</i> · ·	h initial internal governance activities for project
Initial high-level project development, along with	h initial internal governance activities for project
Initial high-level project development, along with	h initial internal governance activities for project
Initial high-level project development, along with	h initial internal governance activities for project
Initial high-level project development, along with inception. Additional Comments:	h initial internal governance activities for project
Initial high-level project development, along wit inception.	h initial internal governance activities for project
Initial high-level project development, along with inception. Additional Comments:	h initial internal governance activities for project
Initial high-level project development, along with inception. Additional Comments:	h initial internal governance activities for project
Initial high-level project development, along with inception. Additional Comments:	h initial internal governance activities for project
Initial high-level project development, along with inception. Additional Comments:	h initial internal governance activities for project
Initial high-level project development, along with inception. Additional Comments:	h initial internal governance activities for project



TORI	Scheme	
SHET-RI-150 - Inverguie Tee – Peterhead 132kV	Inverguie Tee – Peterhead 132kV	
Reconductoring	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.		
Project Completion Date	31/10/2029	
Summary of works in last quarter:	·	
Project identified because of regional connection	activity.	
Summary of works in next quarter: Initial high-level project development, along with inception.	i initial internal governance activities for project	
Additional Comments: N/A		



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



TORI	Scheme		
SHET-RI-153 - Spittal 2 275 kV Substation	Spittal 2 275 kV Substation		
Overview of Works:			
	a to the evicting Crittal 275 W		
	Construct a new 275 kV substation 'Spittal 2' close to the existing Spittal 275 kV		
substation in Caithness.			
Project Completion Date	31/05/2028		
Summary of works in last quarter:			
Subject to acceptance.			
Summary of works in next quarter:			
Subject to acceptance.			
Additional Comments:			
N/A			



TORI	Scheme	
SHET-RI-166 - Tealing – Arbroath 132kV Line	Tealing – Arbroath 132kV Line Works	
Works		
Overview of Works:		
Overhead line works to bring the 132kV circuit to ground, including any required modifications.		
0	ker with two 132kV disconnectors and associated	
protection and control equipment.		
Project Completion Date	30/04/2026	
Summary of works in last quarter:		
Project identified because of regional connection	activity.	
Summary of works in next quarter: Initial high-level project development, along with initial internal governance activities for project inception.		
Additional Comments: N/A		