

TRANSMISSION

Transmission Owner Reinforcement Instruction (TORI) Quarterly Update Report Q1 January 2021 – March 2021

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Scottish Hydro Electric Transmission plc

March 2021



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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



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TORI	Scheme	
SHET-RI-007a - Beauly - Blackhillock 400 kV	Beauly - Blackhillock 400 kV Double Circuit OHL	
Double Circuit OHL		
Overview of Works		
Establish a new double circuit 400kV overhead lin		
	eauly 400kV AIS busbar and the Blackhillock 400kV	
GIS busbar.		
Project Completion Date	31/12/2027	
Summary of works in last quarter:		
Project on hold.		
Summary of works in next quarter:		
Project is to be kicked following the results of the		
where the project has been given a proceed sign	al.	
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 Bea	auly substation and interface with the existing
275kV busbar. The 400kV double busbar is to co	mprise of one bus section breaker, two bus
couplers, and feeder bays for circuit connection	5.
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:		
Principal Contractor for new Alyth Substation appointed in December 2020.		
Principal Contractor for OHL Re-profiling works appointed in January 2021.		
Summary of works in next 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).		
Additional Comments:		
N/A		
N/A		



TORI	Scheme		
SHET-RI-013 - North Argyll Substation	North Argyll Substation		
Overview of Works			
Establish a new 275/132 kV Substation in North Argyll near the existing Inveraray/Taynuilt 132 kV			
line route with two 480 MVA 275/132 kV transformers. Space provision only is to be provided for			
additional feeder bays.			
Establish a new 275 kV double circuit OHL betw	een North Argyll and Dalmally Substations.		
Project Completion Date	30/04/2025		
Summary of works in last quarter:			
Preferred Alignment for project including Tower	Preferred Alignment for project including Tower positions has progressed. Survey work to confirm		
Preferred Tower positions is ongoing.			
Summary of works in next quarter:			
Further consultation with stakeholders on the Preferred Alignment of Towers, is planned for April			
2021.			
Additional Comments:			
N/A			
'			



TORI	Scheme	
SHET-RI-019 - Dounreay - Orkney 220kV Subsea	Dounreay - Orkney 220kV Subsea HVAC Cable	
HVAC Cable Link 1	Link 1	
Overview of Works		
Establish a 220kV HVAC circuit over a distance of approximately 68km between the 275kV GIS		
substation at Dounreay on the mainland and the new 132kV substation in the vicinity of Finstown		
on Orkney. The HVAC circuit comprises of approx	imately 15km of land cable and 53km of subsea	
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 developers in relation to meeting Ofgem's conditionality of 135MW of		
Continue engagement with developers in relation	n to meeting Ofgem's conditionality of 135MW of	
Continue engagement with developers in relation generation to be achieved by Q4 2021 and review		
generation to be achieved by Q4 2021 and review	v programme in context of developer's request	
generation to be achieved by Q4 2021 and review for an extension to Q4 2022.	v programme in context of developer's request	
generation to be achieved by Q4 2021 and review for an extension to Q4 2022. Engagement to continue with regards to the cond as appropriate.	v programme in context of developer's request	
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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		
of Finstown on Orkney. The HVAC circuit compris	-	
53km of subsea cable. Voltage Compensation dev		
the substation compounds at Dounreay and Finst		
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:		
Completion date to be reviewed in accordance with SHET-RI-019 - Dounreay - Orkney 220kV		
Subsea HVAC Cable Link 1 programme review.		



TORI	Scheme	
SHET-RI-025a - Peterhead-Rothienorman 400	Peterhead-Rothienorman 400 kV OHL upgrade	
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	e constructed for 400kV operation. Reinsulate	
approximately 47km of OHL to 400kV operation a	and put into service between the new 400kV	
busbars at Peterhead (established by SHET-RI-02	5c) and the new 400kV substations at New Deer	
and Rothienorman (both transitioned to 400kV u	nder SHET-RI-025d).	
Replacement of the existing earth wire with OPG	W 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	n East 400kV Reinforcement.	
Summary of works in next quarter:		
Please see project update for SHET-RI-025d North	n 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.		
Ongoing consultation with Ofgem regarding In	itial Needs Case submission	
Ongoing offshore and onshore environmental		
Supplier Engagement workshops completed.		
Onshore Engineering investigation works to co	mmence.	
Ongoing land negotiations for the Peterhead a		
Summary of works in next quarter:		
Ongoing Seabed Survey Works.		
Recommendation from Ofgem regarding Initial Needs Case submission.		
Ongoing offshore and onshore environmental assessment works.		
Ongoing onshore Engineering investigation works.		
Initial land agreements to be agreed for works at Peterhead area.		
Additional Comments:		
N/A		



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.		
Project Completion Date	31/10/2023	
 Summary of works in last quarter: Sub station platform earthworks commenced with stone importation and formation of perimeter bunds. Foundations for GIS building ongoing and foul water drainage pipes/manholes being installed. Cable sealing end compound established and excavation, shuttering and pouring concrete for new tower foundation completed. 132kV Cable route established and soil stripping carried out. New welfare and car parking area now fully established. 		
Summary of works in next quarter: Continuation on foundation works for sub station buildings, drainage and perimeter fence installation to platform. Further cable sealing end compound works will continue with foundations for several structures. 132kV cable route will see all access roads installed, Horizontal directional drilling been carried out and duct installation for cables.		
Additional Comments: N/A		



SHET-RI-025d - North East ReinforcementNorth East ReinforcementOverview of WorksRe-insulate the 275kV double circuit overhead lines between Rothienorman – BlackhilloRothienorman - Kintore for 400kV operation.Remove the two line connected 400/275kV, 1200MVA SGTs from Blackhillock Substatiotwo new 400/275kV, 1200MVA at Kintore for terminating the Rothienorman to Kintorecircuit overhead line onto the 275kV busbar at Kintore.Install two 400/132kV, 240MVA SGT's and two 132/33kV, 120MVA GTs to connect theRothienorman GSP to the 400kV Rothienorman Busbar.Project Completion Date31/10/2023Summary of works in last quarter:OHL Works - Complete OHL design and Site investigations. Section 37 Pre commencemeconditions to be discharged. Commence Contract negotiations and award for ConstructicContract. Project Execution funding approved.Kintore SGT Works - Initial design phase main contract awarded. EU Regulated TransforTender has also commenced.Rothienorman Substation Works - Procurement activities progressing well with tendersbeen released. Substation tender assessment underway with anticipated Construction cawards forecast for summer 2022.Summary of works in next quarter:OHL Works - Award Construction Contract and mobilise to site ahead of outages commodureJune 2021. Discharge Pre-commencement conditions. Prepare and issue tender documefor the Substation scope of works.Kintore SGT Works - Transformer tender conclusion.		heme
Re-insulate the 275kV double circuit overhead lines between Rothienorman – Blackhillo Rothienorman - Kintore for 400kV operation. Remove the two line connected 400/275kV, 1200MVA SGTs from Blackhillock Substatio two new 400/275kV, 1200MVA at Kintore for terminating the Rothienorman to Kintore 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 - Complete OHL design and Site investigations. Section 37 Pre commencement Contract. Project Execution funding approved. Kintore SGT Works – Initial design phase main contract awarded. EU Regulated Transfor Tender has also commenced. Rothienorman Substation Works - Procurement activities progressing well with tenders been released. Substation tender assessment underway with anticipated Construction of awards forecasted for July/August 2021. New Deer Substation Works - Project awaits confirmation of substation framework award Contract awards forecast for summer 2022. Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages commer 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.	- North East Reinforcement	orth East Reinforcement
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Contract. Project Execution funding approved. Kintore SGT Works – Initial design phase main contract awarded. EU Regulated Transfor Tender has also commenced. Rothienorman Substation Works - Procurement activities progressing well with tenders been released. Substation tender assessment underway with anticipated Construction of awards forecasted for July/August 2021. New Deer Substation Works - Project awaits confirmation of substation framework awa Contract awards forecast for summer 2022. Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages commed June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.		
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Rothienorman Substation Works - Procurement activities progressing well with tenders been released. Substation tender assessment underway with anticipated Construction of awards forecasted for July/August 2021. New Deer Substation Works - Project awaits confirmation of substation framework awa Contract awards forecast for summer 2022. Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages commed June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.	Norks – Initial design phase main cont	ct awarded. EU Regulated Transformer
been released. Substation tender assessment underway with anticipated Construction of awards forecasted for July/August 2021. New Deer Substation Works - Project awaits confirmation of substation framework awa Contract awards forecast for summer 2022. Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages comme June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.	so commenced.	
been released. Substation tender assessment underway with anticipated Construction of awards forecasted for July/August 2021. New Deer Substation Works - Project awaits confirmation of substation framework awa Contract awards forecast for summer 2022. Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages comme June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.	n Substation Works - Procurement act	vities progressing well with tenders having
awards forecasted for July/August 2021. New Deer Substation Works - Project awaits confirmation of substation framework awa Contract awards forecast for summer 2022. Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages commed June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.		
New Deer Substation Works - Project awaits confirmation of substation framework awa Contract awards forecast for summer 2022. Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages commo June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.		
Contract awards forecast for summer 2022. Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages common June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.	<i>,,</i>	
Summary of works in next quarter: OHL Works - Award Construction Contract and mobilise to site ahead of outages commo June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.	· · · · · · · · ·	ation of substation framework award.
OHL Works - Award Construction Contract and mobilise to site ahead of outages commo June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.	bstation Works - Project awaits confiri	
OHL Works - Award Construction Contract and mobilise to site ahead of outages commo June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.		
June 2021. Discharge Pre-commencement conditions. Prepare and issue tender docume for the Substation scope of works.	rds forecast for summer 2022.	
for the Substation scope of works.	rds forecast for summer 2022. works in next quarter:	
	rds forecast for summer 2022. works in next quarter: Award Construction Contract and mob	0 0
Kintore SGT Works – Transformer tender conclusion	rds forecast for summer 2022. works in next quarter: Award Construction Contract and mob scharge Pre-commencement condition	0 0
	rds forecast for summer 2022. works in next quarter: Award Construction Contract and mob scharge Pre-commencement condition	0 0
Rothienorman Substation Works - Procurement activities to conclude with preferred bi	rds forecast for summer 2022. works in next quarter: Award Construction Contract and mob scharge Pre-commencement condition ation scope of works.	. Prepare and issue tender documentation
identified. Project to obtain approval to progress to execution phase, including funding	rds forecast for summer 2022. works in next quarter: Award Construction Contract and mob scharge Pre-commencement condition ation scope of works. Works – Transformer tender conclusion	. Prepare and issue tender documentation
authorisation.	rds forecast for summer 2022. works in next quarter: Award Construction Contract and mob scharge Pre-commencement condition ation scope of works. Works – Transformer tender conclusion n Substation Works - Procurement act	vities to conclude with preferred bidders

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

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 the existing 275kV circuits (AH1/HO2) to Knockna appropriate.	
Project Completion Date Summary of works in last quarter:	31/10/2026
Design development work continuing the project	alongside the East Coast 400kV works.
Summary of works in next quarter: Design development work continuing the project	alongside the East Coast 400kV works.
Additional Comments: 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 doub	le busbar arrangement switching station at
Phillipstoun Mains, near Gills Bay (west of John C	'Groats) and connect in two radial circuits from
Thurso south.	
Construct a new suitably rated hybrid overhead l	ine and underground cable double circuit,
operated at 132kV, from Gills Bay to Thurso Sout	h.
Project Completion Date	31/03/2025
Summary of works in last quarter:	
Complete Engineering and Design review and up	dates
Statutory and Public Consultation	
Summary of works in next quarter:	
Develop and submit new switching station conse	nt application
Re-engage with landowners and secure outstand	ing land option agreements
Additional Comments:	
N/A	



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 wir routed into the sea and then south towards Engla joint project with National Grid.	
Project Completion Date	31/10/2031
Summary of works in last quarter:	
Work to be carried out establishing parameters of	f Initial Needs Case to be submitted to regulator.
Summary of works in next quarter:	
Continued development of initial needs case scop	pe.
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 eq	uipment and converter stations between the
Western Isles (Arnish on Lewis) and the 400kV do	• •
RI-007b). The HVDC cable is to be approximately	
of land cable. The HVDC infrastructure will interf	ace 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:	
Project team to commence preparations for AR4	and be ready for generator success to allow
Ofgem approval and the project to progress. Cus	tomer notices for move of energisation date.
Summary of works in next quarter:	
Engagement with stakeholders to commence for	ussing on developer commitment and providing
assurance to Ofgem that continued pre-construc	tion costs are justified. Review of the proposed
site for the Beauly converter station and AC subs	tation. Customer notices for move of
energisation date.	
Additional Comments:	
Engagement with BEIS continues regarding confi	rmation of Contracts for Difference Allocation
Round 4 timeline, programme adjusted to accom	imodate proposed delay.



TORI	Scheme
SHET-RI-043 - Lewis Infrastructure	Lewis Infrastructure
Overview of Works	
-	en existing Stornoway substation, the new Arnish Vestern Isles - Beauly HVDC Link) and a new AC ewis.
Dismantle the existing 132kV single circuit C substation.	OHL between Balallan and the existing Stornoway
Project Completion Date	30/03/2027
Summary of works in last quarter:	·
	ed for SHET-RI-043 - Lewis Infrastructure in the event VDC Link gains Ofgem approval following Allocation
Summary of works in next quarter:	
Summary of works in next quarter:	, Stornoway and Arnish to commence and land options
Summary of works in next quarter:	, Stornoway and Arnish to commence and land options
Summary of works in next quarter: Bird surveys for new OHL between Balallan,	, Stornoway and Arnish to commence and land options
Summary of works in next quarter: Bird surveys for new OHL between Balallan, at Arnish to be confirmed.	, Stornoway and Arnish to commence and land option
Summary of works in next quarter: Bird surveys for new OHL between Balallan, at Arnish to be confirmed. Additional Comments:	, Stornoway and Arnish to commence and land options



TORI	Scheme
SHET-RI-046 - Taynuilt-North Argyll Rebuild	Taynuilt-North Argyll Rebuild
Overview of Works	
Reinforce the transmission network between T	Taynuilt and North Argyll substation (established as
part of SHET-RI-013). Rebuild approximately 12	2.5km 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:	
If Developer sign their connection offer the ini	tial Governance documents are to be prepared and
development progressed.	
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-050a - Inveraray - Port Ann	Inveraray - Port Ann Reinforcement
Reinforcement	
Overview of Works	
	the Kintyre Peninsula. Rebuild approximately 37km
of double circuit OHL between Inveraray and F	ort Ann. The towers will be built for 275kV
operation, but initially operated at 132kV.	
Project Completion Date	30/07/2021
Summers of works in last suprison	
Summary of works in last quarter:	
Overhead line works: The first section of new l	ouild overhead line was successfully energised
Overhead line works: The first section of new	ouild overhead line was successfully energised uidhe Substation. Foundation works are complete
Overhead line works: The first section of new	uidhe Substation. Foundation works are complete
Overhead line works: The first section of new between Inveraray Switching Station and An S	uidhe Substation. Foundation works are complete
Overhead line works: The first section of new l between Inveraray Switching Station and An S and 109 out of 129 total towers are fully erect Substation: Installation works complete	uidhe Substation. Foundation works are complete
Overhead line works: The first section of new l between Inveraray Switching Station and An S and 109 out of 129 total towers are fully erect Substation: Installation works complete Summary of works in next quarter:	uidhe Substation. Foundation works are complete ed.
Overhead line works: The first section of new l between Inveraray Switching Station and An S and 109 out of 129 total towers are fully erect Substation: Installation works complete Summary of works in next quarter: Overhead line works: Complete offline assemble	uidhe Substation. Foundation works are complete ed.
Overhead line works: The first section of new l between Inveraray Switching Station and An S and 109 out of 129 total towers are fully erect Substation: Installation works complete Summary of works in next quarter:	uidhe Substation. Foundation works are complete ed.
Overhead line works: The first section of new l between Inveraray Switching Station and An S and 109 out of 129 total towers are fully erect Substation: Installation works complete Summary of works in next quarter: Overhead line works: Complete offline assemble	uidhe Substation. Foundation works are complete ed.
Overhead line works: The first section of new l between Inveraray Switching Station and An S and 109 out of 129 total towers are fully erect Substation: Installation works complete Summary of works in next quarter: Overhead line works: Complete offline assemb Substation: Commissioning	uidhe Substation. Foundation works are complete ed.
Overhead line works: The first section of new l between Inveraray Switching Station and An S and 109 out of 129 total towers are fully erect Substation: Installation works complete Summary of works in next quarter: Overhead line works: Complete offline assemb Substation: Commissioning Additional Comments:	uidhe Substation. Foundation works are complete ed.



TORI	Scheme
SHET-RI-050b - Port Ann - Crossaig	Port Ann - Crossaig Reinforcement
Reinforcement	
Overview of Works	
Reinforce the 132kV Transmission Net	work in the Kintyre Peninsula. Rebuild approximately 48km
of double circuit OHL between Port An	n and Crossaig. The towers will be built for 275kV
operation, but initially operated at 132	2kV.
Project Completion Date	31/10/2023
Summary of works in last quarter:	
Summary of works in last quarter: Completed Part A contract award and	commenced initial works to discharge of Section 37
Summary of works in last quarter: Completed Part A contract award and Consent and Planning conditions. Com	commenced initial works to discharge of Section 37 npleted Forestry tender and finalising contract negotiations
Summary of works in last quarter: Completed Part A contract award and	commenced initial works to discharge of Section 37 npleted Forestry tender and finalising contract negotiations
Summary of works in last quarter: Completed Part A contract award and Consent and Planning conditions. Com	commenced initial works to discharge of Section 37 npleted Forestry tender and finalising contract negotiations
Summary of works in last quarter: Completed Part A contract award and Consent and Planning conditions. Com in advance of forestry contract award.	commenced initial works to discharge of Section 37 npleted Forestry tender and finalising contract negotiations
Summary of works in last quarter: Completed Part A contract award and Consent and Planning conditions. Com in advance of forestry contract award. Summary of works in next quarter:	commenced initial works to discharge of Section 37 npleted Forestry tender and finalising contract negotiations
Summary of works in last quarter: Completed Part A contract award and Consent and Planning conditions. Com in advance of forestry contract award. Summary of works in next quarter: Discharge of Section 37 Consent and P	commenced initial works to discharge of Section 37 npleted Forestry tender and finalising contract negotiations
Summary of works in last quarter: Completed Part A contract award and Consent and Planning conditions. Com in advance of forestry contract award. Summary of works in next quarter:	commenced initial works to discharge of Section 37 npleted Forestry tender and finalising contract negotiations
Summary of works in last quarter: Completed Part A contract award and Consent and Planning conditions. Com in advance of forestry contract award. Summary of works in next quarter: Discharge of Section 37 Consent and P	commenced initial works to discharge of Section 37 npleted Forestry tender and finalising contract negotiations



TORI	Scheme
-	Lairg-Loch Buidhe 132kV Reinforcement
SHET-RI-052 - Lairg-Loch Buidhe 132kV Reinforcement	
Overview of Works	
	(Dalchork substation) and construct approximately
17km of new double circuit 132kV overhead to	
17km of new double circuit 152kV overhead t	ower nine between tang and toth buildie.
Project Completion Date	30/04/2022
Summary of works in last quarter:	
Progress the construction of the site access ro	ads and the substation platform. Construct AIS
concrete bases. Construct the substation Cont	trol Building. Install site-wide drainage system and
earthing grid on the platform.	
Commence the Loch Buidhe access track and	terminal tower platform.
Construct main OHL site compound/laydown	areas and progress the Public Road Improvements.
•	owers via the 3 main access points. Commence the
foundations for several towers.	
Summary of works in next quarter:	
Progress the substation platform including be	low-ground earthing drainage and hackfilling
	ne Control Building and progress the internal fit-out.
	rect support structures. Commence the installation
	uidhe CSEC including foundations, structures and
equipment. Progress the HV cable trench and	-
Progress the OHL access tracks, spurs & worki	•
-	al L7c towers. Undertake the replacement of the
earthwire with OPGW (with outage) for Cassle	•
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	-
station in the vicinity of Noss Head in Caithness. T with the Caithness-Moray Transmission Reinforce	
with the calliness-woray transmission Remore	
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	
ç	
Project Completion Date	31/03/2024
Summary of works in last quarter:	
Continue bulk earthworks to create platform at K	-
Commence bulk earthworks at Noss Head, Caithr	-
Commence site accommodation/access works for	
Complete cable and accessory manufacturing for	
Continue detail design for all work packages. Mol	bilise Land Cable installation team to Shetland
Summary of works in next quarter:	
Substantially complete civil design and primary el	lectrical design for both sites.
Continue platform construction at Kergord and co	ommence substructure construction of HVDC
Convertor Station. Complete bulk earthworks at I	Noss Head and commence substructure
construction of Switching Station.	
Complete site accommodation and access works	including public road improvements to Noss
Head and Kergord sites.	
Commence 600MW Cable Type Test and commer	-
Commence offshore pre-lay survey work and mol	
site establishment for land cable installation worl	ks in Caithness and Shetland.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-058 - Beauly-Loch Buidhe 275kV OHL	Beauly-Loch Buidhe 275kV OHL Reinforcement
Reinforcement	
Overview of Works	
	Beauly, Shin to Loch Buidhe 132kV double circuit
with a higher capacity 275kV double circuit OHL	
The reinforcement will include a new double circ	cuit steel lattice tower L3/1 construction
approximately 40km, as well as works at Beauly,	-
,	
Project Completion Date	31/10/2021
Project Completion Date Summary of works in last quarter:	31/10/2021
• •	
Summary of works in last quarter:	
Summary of works in last quarter: System Studies in progress to reassess Derogation	
Summary of works in last quarter: System Studies in progress to reassess Derogatic reinforcement.	on requirement and required scope of
Summary of works in last quarter: System Studies in progress to reassess Derogation reinforcement. Summary of works in next quarter: System Studies in progress to reassess Derogation reinforcement. Project now has a proceed signal	on requirement and required scope of on requirement and required scope of from the National Grid System Operator
Summary of works in last quarter: System Studies in progress to reassess Derogation reinforcement. Summary of works in next quarter: System Studies in progress to reassess Derogation	on requirement and required scope of on requirement and required scope of from the National Grid System Operator
Summary of works in last quarter: System Studies in progress to reassess Derogation reinforcement. Summary of works in next quarter: System Studies in progress to reassess Derogation reinforcement. Project now has a proceed signal	on requirement and required scope of on requirement and required scope of from the National Grid System Operator
Summary of works in last quarter: System Studies in progress to reassess Derogation reinforcement. Summary of works in next quarter: System Studies in progress to reassess Derogation reinforcement. Project now has a proceed signal published NOA (Network Options Assessment) r	on requirement and required scope of on requirement and required scope of from the National Grid System Operator
Summary of works in last quarter: System Studies in progress to reassess Derogation reinforcement. Summary of works in next quarter: System Studies in progress to reassess Derogation reinforcement. Project now has a proceed signal published NOA (Network Options Assessment) reinforcements: Additional Comments:	on requirement and required scope of on requirement and required scope of from the National Grid System Operator



TORI	Scheme		
SHET-RI-059 - Third 2GW East Coast HVDC Link	Third 2GW East Coast HVDC Link Peterhead to		
Peterhead to England	England		
Overview of Works			
Install an indoor 2GW HVDC converter station wi	th associated equipment. HVDC cables to be		
routed into the sea and then south towards Engla	and (landing point to be confirmed). This will be a		
joint project with National Grid.			
Project Completion Date	31/10/2033		
Summary of works in last quarter:			
Project on hold.			
Summary of works in next quarter:	Summary of works in next quarter:		
Project on hold.			
Additional Comments:			
N/A			



TORI	Scheme	
SHET-RI-061 - Skye Overhead Line	Skye Overhead Line Reinforcement	
Reinforcement		
Overview of Works	· ·	
Construct a new 132kV circuit from Fort A	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 quarter:		
Conclude the alignment design and unde	rtake wider consultation with key stats and landowners	
in advance of planned public consultation events in Q3 of 2021.		
Summary of works in next quarter:		
Prepare initial needs case submission to b	be issued to Ofgem and undertake public consultation on	
selected preferred alignment		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-064 - Fort Augustus Substation 400/132kV Development	Fort Augustus Substation 400/132kV Development

Overview of Works

Develop the existing Fort Augustus substation to include a new 400kV and a new 132kV busbar. The new 400kV busbar is to be connected to 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:

Installation of the 400kV Gas Insulated Switchgear continued, both super grid transformers were delivered to site, the 132kV building was made wind and watertight and installation of the 132kV Gas Insulated Switchgear began.

Summary of works in next quarter:

Completion of the Super grid transformer installation and installation of the 132kV and 400kV Gas Insulated Switchgear installation. Commencement of outages to energise the 400kV equipment and preparation for 132kV outages in the following quarter.

Additional Comments:

Transformer installation delayed due to COVID19 travel restrictions, alternative arrangements now in place.



TORI	Scheme	
SHET-RI-065a - Beauly 132 kV Substation	Beauly 132 kV Substation Redevelopment	
Redevelopment		
Overview of Works		
Establish a new 132kV double busbar arrangement at Beauly substation, and transfer 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	•	
275/132kV transformer will be undertaken under	er SHET-RI 065b	
Project Completion Date	31/10/2024	
Project Completion Date	31/10/2024	
Summary of works in last quarter:	and have to a direct a state of the second	
Continue design work to create detailed design		
Collate environmental and noise studies and con	nplete 3D model for submission of planning	
application submission.		
Summary of works in next quarter:		
	n of planning and take onboard feedback.	
Hold two public consultations prior to submission of planning and take onboard feedback. Complete design stage by stages		
Submit planning application		
Additional Comments:		
N/A		



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



TOD	California
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 1200MV	A 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:	
Project is currently on hold.	
Additional Comments:	
N/A	



Fort Augustus -Invergarry-400/132kV Development		
Development		
Upgrade the existing 132kV double circuit OHL between Fort Augustus and Invergarry substation with a new 400kV OHL. The existing 132kV OHL forms part of the Fort Augustus to Fort William FFE/FFW Circuits.		
Part of the upgrade is to establish a 400/132kV substation at Invergarry to connect the existing 132kV OHL from Fort William and Invergarry Generation.		
The new 400kV OHL will terminate into the 400kV busbar at Fort Augustus. The 400kV busbar is part of SHET-RI-064 works.		
31/12/2027		
Following amendment of the completion date following the Modification Application, the project commenced the optioneering and undertook some initial stakeholder engagement.		
Continuation of optioneering the routes and substation location option will continue into the next		
quarter. It is expected that candidate corridors and substation locations will emerge, and a		
programme of stakeholder consultation will be established.		



TORI	Scheme	
SHET-RI-069 - Kinardochy Reactive	Kinardochy Reactive Compensation	
Compensation		
Overview of Works		
Reactive Compensation is required at a new Kinardochy substation for voltage support on the		
275kV Beauly-Denny overhead line. The Re	eactive Compensation will require a capability of +	
225MVAr and -225MVAr.		
Project Completion Date	31/08/2024	
Summary of works in last quarter:		
Progression of the procurement event for the Overhead Line works.		
Progression of the procurement event for t	the Overnead Line works.	
	ssessments and Submission of planning and section 37	
Completion of the Environmental Impact A	ssessments and Submission of planning and section 37	
Completion of the Environmental Impact A consent applications.	ssessments and Submission of planning and section 37	
Completion of the Environmental Impact A consent applications. Commence trunk road bridge assessments Summary of works in next quarter:	ssessments and Submission of planning and section 37	
Completion of the Environmental Impact A consent applications. Commence trunk road bridge assessments Summary of works in next quarter: Appointment of principal contractors for be works.	ssessments and Submission of planning and section 37 for main transformer delivery.	
Completion of the Environmental Impact A consent applications. Commence trunk road bridge assessments Summary of works in next quarter: Appointment of principal contractors for be works. Undertake further ground investigation wo Additional Comments:	ssessments and Submission of planning and section 37 for main transformer delivery. oth the substation and overhead line construction	
Completion of the Environmental Impact A consent applications. Commence trunk road bridge assessments Summary of works in next quarter: Appointment of principal contractors for be works. Undertake further ground investigation wo	ssessments and Submission of planning and section 37 for main transformer delivery. oth the substation and overhead line construction	



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 doub	le 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 Cairnford 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 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.		
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.		



TORI	Scheme
SHET-RI-079 - Blackhillock Additional	Blackhillock Additional 275/132kV SGTs
275/132kV SGTs	
Overview of Works	
Reinforce the transmission network at Blackhill	lock 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:	50,00,2025
Project to continue to progress and work toward	rds initial design deliverables.
Summary of works in next quarter:	
Project to continue to progress and work toward	rds initial design deliverables.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-086 - Craig Murrail Switching Station	Craig Murrail Switching Station
Overview of Works	
	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	31/10/2024
Summary of works in last quarter:	
Substation Site Selection Assessment Report is be	eing prepared.
Summary of works in next quarter:	
Consultation with stakeholders to commence in	Q2 2021.
Additional Comments:	
N/A	



TODI	Cabana
TORI	Scheme
SHET-RI-088 - Loch Buidhe - Dounreay 275kV	Loch Buidhe - Dounreay 275kV Reinforcement
Reinforcement	
Overview of Works	
Reconductor the existing 275kV double circuit Ol	HL between Loch Buidhe and Dounreay
(approximately 87km). The double circuit is to be	e reconductored with a high temperature
conductor, with a summer pre-fault rating of 900	C .
,	
Project Completion Date	31/08/2025
Summary of works in last quarter:	
System Studies in progress to assess the required	d scope of reinforcement.
Summary of works in next quarter:	
System Studies in progress to assess the required	d scope of reinforcement. Works to be considered
alongside SHET-RI-058.	•
Additional Comments:	
Project is at early conceptual design stage.	



TORI	Scheme
SHET-RI-089 - Farigaig SGT2 Upgrade	Farigaig SGT2 Upgrade
Overview of Works	· · ·
Upgrade the 120MVA 275/132kV SGT2 at I	arigaig 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:	
Summary of works in last quarter: No works planned in the next quarter due	to the Customer submitting a Modification Application
No works planned in the next quarter due	to the Customer submitting a Modification Application oject currently on hold.
No works planned in the next quarter due	
No works planned in the next quarter due	
No works planned in the next quarter due to delay their connection date, with the pr Summary of works in next quarter:	
No works planned in the next quarter due to delay their connection date, with the pr Summary of works in next quarter:	oject currently on hold. ned by the Developer, with the project now on hold
No works planned in the next quarter due to delay their connection date, with the pr Summary of works in next quarter: The Modification Application has been sign	oject currently on hold. ned by the Developer, with the project now on hold
No works planned in the next quarter due to delay their connection date, with the pr Summary of works in next quarter: The Modification Application has been sign until 2023 when activities will recommence Additional Comments:	oject currently on hold. ned by the Developer, with the project now on hold
No works planned in the next quarter due to delay their connection date, with the pr Summary of works in next quarter: The Modification Application has been sign until 2023 when activities will recommence	oject currently on hold. ned by the Developer, with the project now on hold
No works planned in the next quarter due to delay their connection date, with the pr Summary of works in next quarter: The Modification Application has been sign until 2023 when activities will recommence Additional Comments:	oject currently on hold.



TORI	Scheme
SHET-RI-090 - Coupar Angus - Errochty 132kV	Coupar Angus - Errochty 132kV Reconductoring
Reconductoring	
Overview of Works	
Reconductor approximately 15.4km of the existin	g 132kV double circuit OHL between Errochty
and Clunie substations. This double circuit is to be	e reconductored with UPAS conductor (1 x
300mm2) and will operate at 75°C to give a minir	num summer pre-fault rating of 176MVA.
Project Completion Date	31/10/2026
Summary of works in last quarter:	
Project on hold.	
Summary of works in next quarter:	
Project on hold.	
Additional Comments:	
N/A	



SHET-RI-093 - East Coast Phase 2 - 400kV East Coast Phase 2 - 400kV Reinforcement Queroiew 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 upgra and substation works beyond the SSEN Transmission/SPT Boundary (Boundary 4). Project Completion Date 31/10/2026 Summary of works in last quarter: The Overhead Line Consent Application has been submitted following the completion of the Environmental Impact Assessment and relevant consultations. The invitation to tender for the design and construction work for the Overhead Line has progressed with a view to Contract awa in early July. On the Kintore Substation, the invitation to tender for the required works is current out and is to be returned within December, with an award of the required packages made in this quarter. Detailed Design will progress following this, with an update expected in this quarter on progress of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OF Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fetteresso Substation Upgrade are	TORI	Scheme
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 upgra and substation works beyond the SSEN Transmission/SPT Boundary (Boundary 4). Project Completion Date 31/10/2026 Summary of works in last quarter: 110/2026 The Overhead Line Consent Application has been submitted following the completion of the Environmental Impact Assessment and relevant consultations. The invitation to tender for the design and construction work for the Overhead Line has progressed with a view to Contract awa in early July. On the Kintore Substation, the invitation to tender for the required works is current out and is to be returned within December, with an award of the required packages made in this quarter. Detailed Design will progress following this, with an update expected in this quarter on progress of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OF Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fetteresso Substation Upgrade are to commence within Project Development within the next quarter, with the required upgrade works to be assessed.		East Coast Phase 2 - 400kV Reinforcement
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 upgra and substation works beyond the SSEN Transmission/SPT Boundary (Boundary 4). Project Completion Date <u>31/10/2026</u> Summary of works in last quarter: The Overhead Line Consent Application has been submitted following the completion of the Environmental Impact Assessment and relevant consultations. The invitation to tender for the design and construction work for the Overhead Line has progressed with a view to Contract awa in early July. On the Kintore Substation, the invitation to tender for the required works is current out and is to be returned within December, with an award of the required packages made in this quarter. Detailed Design will progress following this, with an update expected in this quarter on progress of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OH Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fettreesso Substation Upgrade are to commence within Project Development within the next quarter, with the required upgrade works to be assessed. Additional Comments:	Overview of Works	
Transmission (SPT) at Kincardine substation. SPT will be responsible for all the 400kV OHL upgra and substation works beyond the SSEN Transmission/SPT Boundary (Boundary 4). Project Completion Date 31/10/2026 Summary of works in last quarter: The Overhead Line Consent Application has been submitted following the completion of the Environmental Impact Assessment and relevant consultations. The invitation to tender for the design and construction work for the Overhead Line has progressed with a view to Contract awa in early July. On the Kintore Substation, the invitation to tender for the required works is current out and is to be returned within December, with an award of the required packages made in this quarter. Detailed Design will progress following this, with an update expected in this quarter on progress of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OF Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fetteresso Substation Upgrade are to commence within Project Development within the next quarter, with the required upgrade works to be assessed.	circuits to 400kV operation. Establish a new 40	•
Transmission (SPT) at Kincardine substation. SPT will be responsible for all the 400kV OHL upgra and substation works beyond the SSEN Transmission/SPT Boundary (Boundary 4). Project Completion Date 31/10/2026 Summary of works in last quarter: The Overhead Line Consent Application has been submitted following the completion of the Environmental Impact Assessment and relevant consultations. The invitation to tender for the design and construction work for the Overhead Line has progressed with a view to Contract awa in early July. On the Kintore Substation, the invitation to tender for the required works is current out and is to be returned within December, with an award of the required packages made in this quarter. Detailed Design will progress following this, with an update expected in this quarter on progress of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OF Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fetteresso Substation Upgrade are to commence within Project Development within the next quarter, with the required upgrade works to be assessed.	This upgrade also interfaces at Blackhillock 400)kV Substation and with Scottish Power
 Summary of works in last quarter: The Overhead Line Consent Application has been submitted following the completion of the Environmental Impact Assessment and relevant consultations. The invitation to tender for the design and construction work for the Overhead Line has progressed with a view to Contract awa in early July. On the Kintore Substation, the invitation to tender for the required works is current out and is to be returned within December, with an award of the required packages made in this quarter. Detailed Design will progress following this, with an update expected in this quarter on progress of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OF Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fetteresso Substation Upgrade are to commence within Project Development within the next quarter, with the required upgrade works to be assessed. Additional Comments: 	Transmission (SPT) at Kincardine substation. SI	PT will be responsible for all the 400kV OHL upgrade
The Overhead Line Consent Application has been submitted following the completion of the Environmental Impact Assessment and relevant consultations. The invitation to tender for the design and construction work for the Overhead Line has progressed with a view to Contract awain early July. On the Kintore Substation, the invitation to tender for the required works is current out and is to be returned within December, with an award of the required packages made in this quarter. Detailed Design will progress following this, with an update expected in this quarter on progress of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OF Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fetteresso Substation Upgrade are to commence within Project Development within the next quarter, with the required upgrade works to be assessed. Additional Comments:	Project Completion Date	31/10/2026
Environmental Impact Assessment and relevant consultations. The invitation to tender for the design and construction work for the Overhead Line has progressed with a view to Contract awain early July. On the Kintore Substation, the invitation to tender for the required works is current out and is to be returned within December, with an award of the required packages made in this quarter. Detailed Design will progress following this, with an update expected in this quarter on progress of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OF Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fetteresso Substation Upgrade are to commence within Project Development within the next quarter, with the required upgrade works to be assessed. Additional Comments:	Summary of works in last quarter:	
Assess compliance of OHL tender returns, proceed to 'best and final offer' (BAFO) and award OF Contract. Undertake and complete tree resilience survey works. Continue refinement of conductor suitability to reduce noise impact on local receptors and mitigate further impact on tower extension numbers. Works for the Fetteresso Substation Upgrade are to commence within Project Development within the next quarter, with the required upgrade works to be assessed. Additional Comments:	Environmental impact / issessment and releval	
	design and construction work for the Overhead in early July. On the Kintore Substation, the invitation to ter be returned within December, with an award o Detailed Design will progress following this, wi	d Line has progressed with a view to Contract award nder for the required works is current out and is to of the required packages made in this quarter.
IV/A	design and construction work for the Overhead in early July. On the Kintore Substation, the invitation to ter be returned within December, with an award of Detailed Design will progress following this, wi of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, proc Contract. Undertake and complete tree resilience survey Continue refinement of conductor suitability to mitigate further impact on tower extension nu Works for the Fetteresso Substation Upgrade a within the next quarter, with the required upg	d Line has progressed with a view to Contract award nder for the required works is current out and is to of the required packages made in this quarter. th an update expected in this quarter on progress eeed to 'best and final offer' (BAFO) and award OHL works. o reduce noise impact on local receptors and mbers. are to commence within Project Development
	design and construction work for the Overhead in early July. On the Kintore Substation, the invitation to ter be returned within December, with an award of Detailed Design will progress following this, wi of the consent application. Summary of works in next quarter: Assess compliance of OHL tender returns, prod Contract. Undertake and complete tree resilience survey Continue refinement of conductor suitability to mitigate further impact on tower extension nu Works for the Fetteresso Substation Upgrade a within the next quarter, with the required upg Additional Comments:	d Line has progressed with a view to Contract award nder for the required works is current out and is to of the required packages made in this quarter. th an update expected in this quarter on progress eeed to 'best and final offer' (BAFO) and award OHL works. o reduce noise impact on local receptors and mbers. are to commence within Project Development



TORI	Scheme
	Dunoon GL1-GL2 OHL Rebuild
SHET-RI-098 - Dunoon GL1-GL2 OHL Rebuild	Duiloon GLI-GLZ OHL REbuild
Overview of Works	
Rebuild approximately 18km of double circuit ov	erhead line between Dunoon substation and the
SHET – SPT boundary.	
This project interfaces with Scottish Power Trans	mission (SPT), and any works required beyond
the SHET-SPT boundary will be the responsibility	of SPT.
Project Completion Date	30/11/2025
Summary of works in last quarter:	
Continued ornithological surveys. Identified a pre	eferred route for the overhead line. Continued
engagement with key stakeholders. Identified to	wer type.
Summary of works in next quarter:	
Identify proposed alignments for the overhead li	ne. Undertake consultation on the proposed
alignments. From consultation feedback identify	
Environmental Impact Assessment. Continue wit	
with stakeholders.	
with stateholders.	
Additional Comments:	
N/A	
N/A	



TORI	Scheme
SHET-RI-099 - Beauly-Keith 132kV	Beauly-Keith 132kV Reconductoring
Reconductoring	
Overview of Works	
Reconductor approximately 108km of the existi	ng 132kV double circuit OHL between Beauly and
Keith 132kV substations. This double circuit is to	b be reconductored with a minimum summer pre-
fault rating of 176MVA.	
Project Completion Date	31/10/2022
Summary of works in last quarter:	
Keith substation busbar disconnector upgrade of	omplete in Q1 2021.
Beauly substation busbar disconnector upgrade	and busbar modifications forecast for completion
in Q1 2021.	
Elgin & Nairn substation transformer protection	modifications complete in Q1 2021.
Summary of works in next quarter:	
Keith substation line disconnector modifications	s forecast for completion in Q2 2021.
Beauly substation line disconnector modificatio	ns forecast for completion in Q2 2021.
Circuit inter tripping protection modifications and	nd commissioning forecast for completion in Q2
2021	
Additional Comments:	
N/A	



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 Rothienorma	an to be built at 400kV, but initially operate at
275kV. Re-conductor the 275kV double circuit	t overhead line between the new double busbar at
Rothienorman and Kintore substation (MX1, N	MX2).
Project Completion Date	20/08/2021
Summary of works in last quarter:	
Substation testing complete and in readiness	to energise.
Summary of works in next quarter:	
Energisation outage and turn-in sequence to p	progress.
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 120/240MVA supergrid transformer, to enable
the connection of wind generation in the local	area 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:	
Project Development work to continue.	
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 betwee	een North Argyll 275/132kV substation
(established as part of SHET-RI-013) and Inverara will connect to the double circuit overhead line approximately 2.8km away from Inveraray.	ay 132kV switching station. This reinforced circuit from Crossaig (rebuilt as part of SHET-RI-050)
Project Completion Date	30/04/2025
Summary of works in last quarter:	
Overhead Line Route Selection Assessment Repo	ort is being completed.
Summary of works in next quarter:	
Consultation with stakeholders to commence in	Q2 2021.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-109 - Loch Buidhe - Spittal 132kV	Loch Buidhe - Spittal 132kV Reconductoring
Reconductoring	
Overview of Works	
Reconductor the existing 90km 132kV tower line	e between Loch Buidhe and Spittal substations.
The 132kV overhead line is to be reconductored	I 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:	
Project on hold.	
Summary of works in next quarter:	
Developer triggering the reinforcement work ha	as now signed their offer. The project will be
Developer triggering the reinforcement work has formally kicked off and progressed to early stage	
Developer triggering the reinforcement work ha formally kicked off and progressed to early stag	
formally kicked off and progressed to early stag	
formally kicked off and progressed to early stag Additional Comments:	
formally kicked off and progressed to early stag Additional Comments:	
formally kicked off and progressed to early stag Additional Comments:	



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 – Charlesto	n 132kV double circuit overhead line (PCN/CAS).	
Project Completion Date	31/10/2022	
Summary of works in last quarter:	51/10/2022	
	where entire equine to identify meet economical	
Progress with Regional Development 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 Plan and further optioneering to identify most		
economical solution to accommodate contracted generation.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-113 - Kintyre-Hunterston Subsea Cable	Kintyre-Hunterston Subsea Cable Intertrip	
Intertrip Scheme	Scheme	
Overview of Works		
Between Crossaig substation and Carradale GSP i	nstall an intertrip scheme which will monitor the	
two 220kV Crossaig – Hunterston subsea cables.	Following the loss of both subsea cables (N-2) an	
intertrip signal will be sent to applicable users to switch out.		
Project Completion Date	31/10/2020	
Summary of works in last quarter:		
Project to be completed alongside Carradale GSP works.		
Summary of works in next quarter:		
Project to be completed alongside Carradale GSP works.		
Additional Comments:		
N/A		



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:	
Initial review of the existing Melgarve substation	has been undertaken against the functional
requirements.	
Summary of works in next quarter:	
Continuation of development works will be unde	rtaken in the next guarter including drafts and
options for the general arrangement of the subst	
options for the general analgement of the subst	
Additional Comments:	
N/A	
<i>.</i>	



FORI SHET-RI-116 - Kergord - Yell 132kV Connection	Scheme	
	Kergord - Yell 132kV Connection	
Overview of Works		
	etween the Kergord 132kV substation (established	
as part of SHET-RI-053) and a new tee point on '		
generation.		
Project Completion Date	31/03/2024	
Summary of works in last quarter:		
Project is being developed alongside the TORI-0	53 project. Land referencing and bird surveys	
underway along potential OHL routes to take fo	rward to route selection from Kergord to Yell.	
Subsea routes reviewed and survey contractor procured.		
Summary of works in next quarter:		
Continue to refine the OHL routes and move to surveys between Yell and the Shetland mainland proposed routes and locations.	a preferred option. Undertake subsea and landfall d. Hold a public stakeholder consultation on	
soposed routes and locations.		
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 rated busbar and replace with a new 4000A rated 275kV double busbar complete with two bus couplers, one bus section and busbar selection on all		
		feeder bays.
Project Completion Date	31/12/2021	
Summary of works in last quarter:		
Outage taken on Reserve bus bar 1 to dismantle and install the new equipment. Stage 1		
commissioning commences.		
Summary of works in next quarter:		
Energisation complete on phase 1 of the Reserve busbar 1 works and outage taken on the second		
phase of the reserve bus 1 works with all dismantling works completed and rebuild of the bus bar		
completed and energised.		
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, install a scheme on GT2 to enable the connection of a s	a 3 ended grid transformer differential protection econd generator at Corriemoillie.	
Project Completion Date	31/10/2024	
Summary of works in last quarter:		
Development and engineering design work to b	begin.	
Summary of works in next quarter:		
Design work being progressed.		
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 n tower line XT1/XT2 between Kintore and Tealin	ear Fiddes connected to the 275kV double circuit g.
Construct a new 132kV double circuit overhead Tealing/Arbroath/Brechin Tee Point.	l line between Brechin and the
Reconductor the existing double circuit tower li Tealing/Arbroath/Brechin Tee Point.	ine between Tealing and the
Dismantle the existing Fiddes 132/33kV substat	tion.
Dismantle the existing 132kV single circuit over	head line between the
Craigiebuckler/Tarland/Fiddes Tee Point and th	
Project Completion Date	31/10/2026
Summary of works in last quarter: Continue with Optioneering and Project Develo strategy.	opment to identify optimum reinforcement
Summary of works in next quarter:	
	ommence determining the alignment for the new
Following completion of Public Consultation, co Arbroath Tee to Tealing 132kV Overhead Line.	Complete Optioneering for Fiddes Substation and
Following completion of Public Consultation, co Arbroath Tee to Tealing 132kV Overhead Line.	
Following completion of Public Consultation, co Arbroath Tee to Tealing 132kV Overhead Line.	Complete Optioneering for Fiddes Substation and



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:	51/10/2022	
	ment to identify optimum reinforcement strategy	
to accommodate contracted generation.	ment to identify optimum remotement strategy	
to accommodate contracted generation.		
Summary of works in next quarter:		
Continue with Optioneering and Project Develop	ment to identify optimum reinforcement strategy	
to accommodate contracted generation.		
Additional Comments:		
N/A		
,		



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TORI	Scheme
SHET-RI-123 - Shin - Loch Buidhe 132kV	Shin - Loch Buidhe 132kV Reconductoring
Reconductoring	
Overview of Works	
Following the completion of SHET-RI-058, Shin su	ubstation will be radially connected into Loch
Buidhe 132kV substation via the existing 132kV c	louble 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 m	inimum summer pre-fault rating of 190MVA.
Project Completion Date	31/12/2023
Summary of works in last quarter:	
System Studies ongoing.	
Summary of works in next quarter:	
System Studies ongoing. Works to be considered	alongside SHET-RI-058.
Additional Comments:	
Project is at early conceptual design stage.	



TORI	Scheme
SHET-RI-124 - 2nd Shetland HVDC Link Kergord	2nd Shetland HVDC Link Kergord -
- Rothienorman	Rothienorman
Overview of Works	•
Construct a 2nd 600MW (tbc) HVDC link from Ke	rgord 132kV substation on Shetland (established
under SHET-RI-053) to the Scottish mainland at a	n HVDC convertor station at Rothienorman
substation.	
The 600MW HVDC link will have approximately 3	6km of land cable and 320km of subsea cable
between Shetland and Rothienorman.	
Project Completion Date	31/10/2026
Summary of works in last quarter:	
Project on hold.	
Summary of works in next quarter:	
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				
SHET-RI-127 - Dounreay - Spittal 400 kV Double	Dounreay - Spittal 400 kV Double Circuit Cable				
Circuit Cable					
Overview of Works					
Establish two new 400kV double busbars, one at a new site close to Dounreay and the second					
close to Spittal. Construct approximately 15km of new 400kV double circuit underground cables					
from the new site close to Dounreay and Spittal. The new 400kV cable circuits should have a					
minimum summer rating of 1000MW on each circuit					
Project Completion Date	31/10/2031				
Summary of works in last quarter: Initial Development and optioneering works to progress. Summary of works in next quarter: Change to contracted background has resulted in a change to scope of TORI. Initial Development					
			and optioneering works to progress.		
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 Fa	arigaig 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:	
Initial Development and optioneering works	s to progress.
Summary of works in next quarter:	
Project Team assessing the works planned for	or the Farigaig SGT2 Upgrade and reviewing
implementing these on the SGT1 Upgrade.	
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 (establish	ned as part of SHET-RI-013) to Craig Murrail
Substation. This will require the upgrade of subs	stations on this circuit for 275kV operation.
Project Completion Date	31/10/2025
Summary of works in last quarter:	
Substation Site Selection Assessment Report is I	being prepared.
Summary of works in next quarter:	
Consultation with stakeholders to commence in	Q2 2021.
Additional Comments:	
N/A	



SHET-RI-130b - Craig Murrail - Crossaig 275kV Operation Overview of Works Reinforce the network in the Argyll and Kintyre network from Craig Murrail substation to a new Crossaig	·
Overview of Works Reinforce the network in the Argyll and Kintyre network from Craig Murrail substation to a new	·
Reinforce the network in the Argyll and Kintyre network from Craig Murrail substation to a new	·
network from Craig Murrail substation to a new	·
C C	double busbar substation to be established at
Crosspig	
Crossaig.	
Project Completion Date	31/10/2026
Summary of works in last quarter:	
Substation Site Selection Assessment Report is b	being prepared.
Summary of works in next quarter:	
Consultation with stakeholders to commence in	Q2 2021.
Additional Comments:	
N/A	



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



TORI	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	l comprise the existing 275kV overhead lines between
Beauly and Knocknagael, and between Knock	knagael and Blackhillock.
The substation at Knocknagael is adjacent to Project Completion Date	31/10/2026
Summary of works in last quarter:	31/10/2026
Subject to acceptance.	
Summary of works in next quarter:	
Initial Development and optioneering works	to progress.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-134 – Beauly-Denny 2 nd Circuit upgrade	Beauly-Denny 2 nd Circuit upgrade from 275kV
from 275kV to 400kV	to 400kV
Overview of Works	
Upgrade the existing Beauly / Fasnakyle/ Fort Aug	gustus / Tummel-Kinardochy / Braco West /
Bonny Bridge 275kV circuit to 400kV; mirroring th	ne ratings of the existing 400kV circuit, along the
route	
	Г
Project Completion Date	31/10/2029
Summary of works in last quarter:	
The initial Governance documents are to be prep	ared and development progressed.
Summary of works in next quarter:	
Initial Development and optioneering works to pr	ogress.
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	Edinbane; install a second 132kV busbar at
Broadford 132kV Substation; add a second 132kV	<pre>/ circuit between Broadford 132kV Substation</pre>
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 p	rogress.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-136 - Blackhillock 400kV Building	Blackhillock 400kV Building Extension
Extension	
Overview of Works	
Extend existing Blackhillock 400kV GIS building	g to allow space provision for additional bays.
	24/22/2224
Project Completion Date	31/08/2024
Summary of works in last quarter:	
Project initiated, driven by regional connection	n activity.
Summary of works in next quarter:	
Initial development and optioneering works to) progress.
Additional Comments:	
N 1 A	
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 lin	e from Blackhillock to New Deer (60km) and
New Deer to Peterhead (22km).	
	24/40/2024
Project Completion Date	31/10/2031
Project Completion Date Summary of works in last quarter:	31/10/2031
Summary of works in last quarter: Project initiated. Project driven by regional conne	
Summary of works in last quarter: Project initiated. Project driven by regional conner Summary of works in next quarter:	ection activity and wider system requirements.
Summary of works in last quarter: Project initiated. Project driven by regional conner Summary of works in next quarter: Initial development and optioneering works to pr	ection activity and wider system requirements. rogress. Project to be prepared for submission for
Summary of works in last quarter: Project initiated. Project driven by regional conner Summary of works in next quarter:	ection activity and wider system requirements. rogress. Project to be prepared for submission for
Summary of works in last quarter: Project initiated. Project driven by regional conner Summary of works in next quarter: Initial development and optioneering works to pr	ection activity and wider system requirements. rogress. Project to be prepared for submission for
Summary of works in last quarter: Project initiated. Project driven by regional conner Summary of works in next quarter: Initial development and optioneering works to pr evaluation in Network Options Assessment (NOA	ection activity and wider system requirements. rogress. Project to be prepared for submission for



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-sectio	n busbar at New Deer 400kV Substation.
	0.4 /4.0 /0.000
Project Completion Date	31/10/2033
Summary of works in last quarter:	
Project initiated. Project driven by regional co	onnection activity.
Summary of works in next quarter:	
Initial development and optioneering works to	o progress.
Additional Comments:	
N/A	



2GW HVDC Link New Deer to England
vith associated equipment at New Deer Substation.
south towards England (landing point to be
onal Grid.
31/10/2033
51/10/2035
progress.



Scheme
Thurso South 275 kV Substation
Redevelopment
·
ostation into a new 275 kV double busbar
01/06/2025
progress.



TORI		Scheme		
SHET-RI-142 - Dounreay to Spittal 400 kV (Cable	Dounreay to Spittal 400 kV Cable		
Overview of Works				
Extend the 400kV double busbar at Dounreay 400kV substation to form 4 sections, Install a new single 400kV underground cable circuit from Dounreay 400kV substation to Spittal 400kV substation. The 400kV cable circuit will interface at Dounreay and Spittal substation via 400kV				
Project Completion Date		31/10/2031		
Summary of works in last quarter:				
Subject to acceptance				
Summary of works in next quarter:				
Subject to acceptance				
Additional Comments:				
Additional Comments:				



TORI	Scheme					
SHET-RI-143 - Kergord - Gremista GSP 132kV	Kergord - Gremista GSP 132kV Infrastructure					
Infrastructure						
Overview of Works						
Construct a new 132kV 24km circuit between Kergord substation and Gremista GSP, terminated onto new 132kV feeder bays at Kergord and Gremista. Construct a new Tee point for the connection of a wind farm.						
						1
					Project Completion Date	30/04/2025
Summary of works in last quarter:						
New TORI following re-categorisation of local works.						
Summary of works in next quarter: Initial Development and optioneering works to progress.						
				Additional Comments:		
N/A						



TORI	Scheme		
SHET-RI-144 - New Deer 2 400kV Substation	New Deer 2 400kV Substation		
Overview of Works			
Establish a new 400kV substation close to the proposed New Deer 400kV substation and tie in the			
proposed 400kV circuits from New Deer to Peterhead.			
	21/10/2022		
Project Completion Date Summary of works in last quarter: Project initiated Project driven by regional	31/10/2033		
Summary of works in last quarter: Project initiated. Project driven by regional			
Summary of works in last quarter: Project initiated. Project driven by regional Summary of works in next quarter:	connection activity.		
Summary of works in last quarter: Project initiated. Project driven by regional Summary of works in next quarter: Initial development and optioneering works	connection activity.		
Summary of works in last quarter: Project initiated. Project driven by regional Summary of works in next quarter:	connection activity.		



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 with associated equipment at New Deer 2				
Substation. HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid.				
Project Completion Date	31/10/2033			
Summary of works in last quarter: Project initiated. Project driven by regional connection activity.				
Additional Comments				
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 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.						
					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						