



Transmission Owner Reinforcement Instruction (TORI) Quarterly Update Report Q1 January 2022 – March 2022

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

CUST DI 2075 - Beauty Blackillack 400 by Baykla Circuit OUI	_
SHET-RI-007a - Beauly - Blackhillock 400 kV Double Circuit OHL	
SHET-RI-007b - Beauly 400 kV Busbar	
SHET-RI-009 - East Coast Onshore 275kV Upgrade	
SHET-RI-013 - North Argyll Substation	
SHET-RI-019 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 1	10
SHET-RI-020 - Dounreay - Orkney 220kV Subsea HVAC Cable Link 2	11
SHET-RI-025a - Peterhead-Rothienorman 400 kV OHL upgrade	12
SHET-RI-025b - Eastern Subsea HVDC Link	13
SHET-RI-025c - Peterhead 400 kV Busbar	14
SHET-RI-025d - North East Reinforcement	15
SHET-RI-026 - Blackhillock 275 kV QBs	16
SHET-RI-028 – Thurso South to Gills Bay 132kV OHL	17
SHET-RI-033 - Second 2 GW East Coast HVDC Link Peterhead to England	18
SHET-RI-042 - Western Isles - Beauly HVDC Link	19
SHET-RI-043 - Lewis Infrastructure	20
SHET-RI-046 - Taynuilt-North Argyll Rebuild	21
SHET-RI-050a - Inveraray - Port Ann Reinforcement	22
SHET-RI-050b - Port Ann - Crossaig Reinforcement	23
SHET-RI-052 - Lairg-Loch Buidhe 132kV Reinforcement	24
SHET-RI-053 - Shetland 600 MW HVDC Link and Kergord 132kV Substation	25
SHET-RI-058 - Beauly-Loch Buidhe 275kV OHL Reinforcement	26
SHET-RI-059 - Third 2GW East Coast HVDC Link Peterhead to England	27
SHET-RI-061 - Skye Overhead Line Reinforcement	28
SHET-RI-064 - Fort Augustus Substation 400/132kV Development	29
SHET-RI-065a - Beauly 132 kV Substation Redevelopment	30
SHET-RI-065b - Beauly 3rd SGT Replacement	31
SHET-RI-066 - Fort Augustus Substation 400/275kV Development	32
SHET-RI-068 - Fort Augustus -Invergarry-400/132kV Development	33
SHET-RI-069 - Kinardochy Reactive Compensation	34

SHET-RI-072 - Blackhillock-Kintore 400 kV OHL Upgrade
SHET-RI-075 - Orkney 132kV Infrastructure Finstown - Ellibster
SHET-RI-079 - Blackhillock Additional 275/132kV SGTs
SHET-RI-086 - Craig Murrail Switching Station
SHET-RI-088 - Loch Buidhe - Dounreay 275kV Reinforcement
SHET-RI-089 - Farigaig SGT2 Upgrade
SHET-RI-090 - Coupar Angus - Errochty 132kV Reconductoring
SHET-RI-093 - East Coast Phase 2 - 400kV Reinforcement
SHET-RI-098 - Dunoon GL1-GL2 OHL Rebuild
SHET-RI-105 - Rothienorman s/s & Rothienorman - Kintore Reconductoring
SHET-RI-106b - Connagill 2nd SGT
SHET-RI-107 - North Argyll - Inveraray Reinforcement
SHET-RI-109 - Loch Buidhe - Spittal 132kV Reconductoring
SHET-RI-111 - Abernethy 132kV Mesh Corner
SHET-RI-115 - Melgarve 400/132 kV Substation Additional SGTs
SHET-RI-116 - Kergord - Yell 132kV Connection
SHET-RI-117 - Tealing 275kV Busbar Upgrade
SHET-RI-119 - Corriemoillie Transformer Protection Modification
SHET-RI-120 - East Coast 132kV Upgrade
SHET-RI-121 - Charleston - Abernethy 132kV Reconductoring
SHET-RI-123 - Shin - Loch Buidhe 132kV Reconductoring
SHET-RI-124 - 2nd Shetland HVDC Link Kergord - Rothienorman
SHET-RI-126 - Kergord - Yell 132kV 2nd Connection
SHET-RI-127 - Dounreay - Spittal 400 kV Double Circuit Cable
SHET-RI-128 – Caithness to Peterhead HVDC Link
SHET-RI-129 - Farigaig SGT1 Upgrade
SHET-RI-130a - North Argyll - Craig Murrail 275kV Operation
SHET-RI-130b - Craig Murrail - Crossaig 275kV Operation
SHET-RI-131 - Brechin 132kV Extension
SHET-RI-132 - Beauly-Blackhillock High Temperature Reconductoring
SHET-RI-133 - Loch Buidhe SGT Upgrade
SHET-RI-134 – Beauly-Denny 2 nd Circuit upgrade from 275kV to 400kV
SHET-RI-135 - Edinbane 132kV Substation
SHET-RI-136 - Blackhillock 400kV Building Extension
SHET-RI-137 - Blackhillock-New Deer-Peterhead 400kV OHL
SHET-RI-138 - New Deer 400kV Busbar Extension

SHET-RI-139 - 2GW HVDC Link New Deer to England
SHET-RI-140 - Thurso South 275 kV Substation Redevelopment
SHET-RI-141 - Spittal to New Deer HVDC Link
SHET-RI-142 - Caithness to New Deer 2 - 2 x 1GW HVDC Links
SHET-RI-143 - Kergord - Gremista GSP 132kV Infrastructure
SHET-RI-144 - New Deer 2 400kV Substation
SHET-RI-145 - 2GW HVDC Link New Deer 2 to England
SHET-RI-147 - Tealing 400kV Substation
SHET-RI-148 - Alyth – Tealing 400kV Reinsulation
SHET-RI-149 - Tealing - Glenrothes Westfield 400kV Rebuild
SHET-RI-150 - Inverguie Tee – Peterhead 132kV Reconductoring
SHET-RI-151 - Peterhead – St Fergus 132kV Line Works
SHET-RI-153 - Spittal 2 275 kV Substation
SHET-RI-155 - Peterhead - Persley Tee 275kV Works
SHET-RI-165 - Alcemi Substation 400kV Switchgear
SHET-RI-166 - Tealing – Arbroath 132kV Line Works
SHET-RI-167 - Keith 275kV Sync Comp
SHET-RI-168 - Melvich to Connagill 132kV Connection



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 li	·
	auly 400kV AIS busbar and the Blackhillock 400kV
GIS busbar.	
Project Completion Date	31/10/2030
Summary of works in last quarter:	
Initial optioneering works continued and planned	coordination with other Beauly Strategic
projects.	
Summary of works in next quarter:	
Optioneering works continued and planned coor	dination with other Beauly Strategic projects.
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 Bear	uly substation and interface with the existing
275kV busbar. The 400kV double busbar is to con	nprise 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:	



TORI	Scheme
SHET-RI-009 - East Coast Onshore 275kV	East Coast Onshore 275kV Upgrade
Upgrade	

Establish new busbar Substation 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.

Tealing substation.	
Project Completion Date	31/10/2023

Summary of works in last quarter:

OHL Works (LT162): Returned in January 2022 to complete all remaining Compression joint testing. All works and testing now completed to allow higher operational temperature.

Alyth Substation Works (LT139): Continued to progress with the Civil works on the Substation site, with structural steelwork for both the GIS & Statcom building complete and foundations being installed for GIB and AIS plant items across the site.

Tealing Substation: Phase Shifting Transformer works now with Delivery team.

Summary of works in next quarter:

OHL Works (LT162): No works planned for the next quarter.

Alyth Substation Works (LT139): Continue to progress with the construction of both the GIS & Statcom buildings as well as the wider site civil works, aiming to complete the installation of all foundations and internal access roads. Oversee the installation of the DNO supply.

Tealing Substation (LT208): Develop design works and progress programme. All works are on course for completion by 31/10/23.

dditional Comments:	
I/A	



TORI	Scheme	
SHET-RI-013 - North Argyll Substation	North Argyll Substation	
Overview of Works		
Establish a new 275/132 kV Substation in North A	Argyll near the existing Inveraray/Taynuilt 132 kV	
line route with two 480 MVA 275/132 kV transfo	rmers. Space provision only is to be provided for	
additional feeder bays.		
Establish a new 275 kV double circuit OHL between	en Creag Dhubh (North Argyll) substation and	
Dalmally Substations.		
	20/04/2025	
Project Completion Date	30/04/2025	
Summary of works in last quarter:		
Scottish Government's EIA Scoping Option received.		
Summary of works in next quarter:		
Town & Country Planning Application for Creag Dhubh (North Argyll) substation to be submitted.		
Section 37 application to build and operate a new OHL between Creag Dhubh (North Argyll) substation and Dalmally to be submitted.		
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 Orkney developers.	
Summary of works in next quarter:	
Continue engagement with Orkney developers.	
Additional Comments	
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	, , , , , , , , , , , , , , , , , , , ,	
53km of subsea cable. Voltage Compensation dev		
the substation compounds at Dounreay and Finst	own. 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-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	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 (SHE-Transmission) and Drax (NGET).

This TORI describes the SSENT works.

HVDC cables to be routed into the sea, then south towards the North East of England in NGET's license area.

Project Completion Date 31/10/2029

Summary of works in last quarter:

PQQ issued to the market

Town & Country Planning Application for Peterhead HVDC converter station submitted.

Marine Planning Application for offshore HVDC cable submitted.

Preparing Marine Consents Application

FNC submitted and SQs received

GI works commenced at Peterhead Convertor Station location

Land negotiations in Peterhead ongoing

Continuation of tendering documentation and ready for submission in Q2 2022.

Summary of works in next quarter:

Receive and review PQQ responses Complete GI works at Peterhead All marine survey deliverables complete Establish integrated delivery team Agree Head of Terms for Land in Peterhead

Submit Marine License Application

Additional	Comments:
Anamonai	Comments:



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

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.

circuit reference VX1 will be banked with the new 1200MVA 400/275kV.		/ 1200MVA 400/275kV.
	Project Completion Date	31/10/2023

Summary of works in last quarter:

Roof cladding to SGT4, SGT5 and GIS complete, wall cladding completed on SGT4 and GIS -SGT5 60% completed.

Large concrete pours to upper and lower GIS hall floor. SGT4 and SGT5 bund base, walls and all plinths poured, water tests complete and passed.

Surfacing contractor commenced December 2021 to carry out surfacing works on Substation perimeter roads, and further concrete pours to substation perimeter road opposite transformer doorways, completed.

275kV ducting works between the new and existing substation have been delayed due to design derogations.

completion of new Overhead Line Tower 90 and 91 foundations.

A90 road works commenced on 8th Nov 2021 and complete on 23rd of December with the exception of white lining which was carried out w/c 17th January 2022.

Summary of works in next quarter:

Wall cladding, louvers, flashing and external doors to be completed on SGT4 and SGT5 buildings. Delivery of General Electric SGTs on 8th March 2022 and 3rd April 2022 prior to GE works commencing, installation of cooler banks, transformers, and commissioning.

BBPTD hand over of GIS building prior to GIS and GIB equipment delivery, installation and commissioned by HITACHI, commencing May 2022.

Completion of steel erection of Tower 90 and 91 for new Overhead Line is expected.

275kV ducting will continue after full design route derogation has been agreed from New 400kV Substation to existing 275kV Substation.

Complete installation of AIS plant 275kV-400kV prior to stage one commissioning Jan 2023. Planting and grass seeding around perimeter soil bunds.

Additional (Comments:
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TORI	Scheme	
SHET-RI-025d - North East Reinforcement	North East Reinforcement	
Overview of Works		
Re-insulate the 275kV double circuit overhead lir	nes between Rothienorman – Blackhillock and	
Rothienorman - Kintore for 400kV operation.		
Remove the two line connected 400/275kV, 1200	OMVA SGTs from Blackhillock Substation. Install	
two new 400/275kV, 1200MVA at Kintore for ter	minating the Rothienorman to Kintore double	
circuit overhead line onto the 275kV busbar at Ki	intore.	
Install two 400/132kV, 240MVA SGT's and two 1	32/33kV, 120MVA GTs to connect the	
Rothienorman GSP to the 400kV Rothienorman E	Busbar.	
Project Completion Date	31/10/2023	
Summary of works in last quarter:		
OHL Works – Works to commence on NDR1, the		
Rothienorman. Contract award for the Substation	n scope of Works.	
Kintore Substation Works – Completion of the b	·	
	ding foundations and commencement of building	
steelwork erection, continued development of the overall substation design, progression of		
transformer noise enclosure design, continuation	n of design for the substation protection and	
control system.		
Summary of works in next quarter:		
Winter Colorate in Markey Consulation of the h		
Kintore Substation Works – Completion of the building steelwork and cladding installation,		
Completion of the 2no Transformer oil containment bunds, Commencement of switchgear		
support foundations, commencement of Transformer manufacture, and continuation of design for		
the substation protection and control system.		
Ballian and Chalair Made Wales Wales		
Rothienorman Substation Works – Works to commence on site		
Additional Commonts		
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 r	ating) 275kV quadrature boosters with bypass on		
the existing 275kV circuits (AH1/HO2) to Knockn	agael, rearranging the circuit terminations as		
appropriate.			
	24 /40 /2025		
Project Completion Date	31/10/2026		
Summary of works in last quarter:			
	e project alongside the East Coast 400kV upgrade		
works in line with programme dates.			
Summary of works in next quarter:			
Continued with Design development work, including undertaking of System Studies required, on			
the project alongside the East Coast 400kV upgrade works in line with programme dates.			
the project dioligate the East Coust Hook's approach works in the with programme dates.			
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 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.				
operated at 132kV, from Gills Bay to Thurso Sout	h.			
Project Completion Date	31/03/2026			
Summary of works in last quarter:				
Expected consent decision for switching station				
Continued engagement with landowners to secure outstanding land agreements.				
Continued development of Needs Case and CBA (MSIP submission now January 2023).				
Summary of works in next quarter:				
Consent for switching station deferred to Highland Council June Planning Committee				
Continued engagement with landowners to secure outstanding land agreements.				
Continued development of Needs Case and CBA (MSIP submission now January 2023).				
Additional Comments				
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 with 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	31/10/2031			
Summary of works in last quarter: Continued development of initial needs case scope.				
Summary of works in next quarter:				
Continued development of initial needs case scope.				
Additional Comments:				
N/A				



TORI
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:

Continued EA at Arnish

Preparations ongoing for Public Consultation for Arnish Site

Continued Phase 2 Detailed Site Assessment for mainland convertor station

Preferred site for Mainland Convertor Station identified

Preparations ongoing to engage with Statutory Stakeholders and present preferred site

Summary of works in next quarter:

Hold Major Pre-App meeting with the Highland Council

Mainland convertor station Public Consultation

Progress Environmental Impact Assessment at Mainland Convertor Station

Re-validation of cable routing

Agree Heads of Terms with HIE

CBA update

Preparation of Final Needs Case

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мu	uilic	ша	LUII		HILS.



TORI	Scheme			
SHET-RI-043 - Lewis Infrastructure	Lewis Infrastructure			
Overview of Works				
Build a new 132kV single circuit OHL between ex	•			
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:				
Discussions on how best to proceed with project continued.				
Summary of works in next quarter:				
Discussions on how best to proceed with project continued.				
Additional Comments:				
N/A				



TORI	Scheme		
SHET-RI-046 - Taynuilt-North Argyll Rebuild	Taynuilt-North Argyll Rebuild		
Overview of Works			
Reinforce the transmission network between Tay	ynuilt and North Argyll substation (established as		
part of SHET-RI-013). Rebuild approximately 12.5	ikm of existing 132kV double circuit steel tower		
line between North Argyll and Taynuilt with a lar	ger capacity 132kV.		
	T		
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 in the Kintyre Peninsula. Rebuild approximately 37km				
of double circuit OHL between Inveraray and 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:				
Completion of final reinstatement snags.				
Summary of works in next quarter				
Project complete.				
Alleration				
Additional Comments:				
N/A				



TORI	Scheme	
	Port Ann - Crossaig Reinforcement	
SHET-RI-050b - Port Ann - Crossaig Reinforcement	Tote with Crossing Reinforcement	
Overview of Works		
	the Kintyre Peninsula. Rebuild approximately 48km	
of double circuit OHL between Port Ann and C	·	
operation, but initially operated at 132kV.	1033dig. The towers will be built for 275kV	
operation, but initially operated at 132kv.		
Project Completion Date	31/10/2023	
Summary of works in last quarter:		
Scottish Woodlands are nearing completion of	the operational corridor timber felling and will	
hand over control of all sections to Balfour Beatty for construction access. However Scottish		
Woodlands will remobilise in 2022 to complete	e management felling and felling of isolated pockets	
of timber that require access to be built by Balfour Beatty. Balfour Beatty will continue installation		
of access tracks, tower foundations and will commence tower erection.		
Summary of works in next quarter:		
	earing completion. The construction of access tracks	
	h programme. The second double curcuit substation	
	L towers will start being topped out from the 25 th April	
2022.		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-052 - Lairg-Loch Buidhe 132kV	Lairg-Loch Buidhe 132kV Reinforcement
Reinforcement	

Establish a new 132kV double busbar at Lairg (Dalchork substation) and construct approximately 17km of new double circuit 132kV overhead tower line between Lairg and Loch Buidhe.

Project Completion Date	30/04/2022

Summary of works in last quarter:

Completion of the construction on site for the new substation and OHL. Commence Stage 1 commissioning and prepare for Stage 2 (final) commissioning.

Summary of works in next quarter:

Close out of any outstanding constructions works and completion of the substation access road & landscaping of the surrounding areas. Completion of the Stage 2 (final) commissioning and energisation.

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

Kergord 132kV Substation

Construct a 600MW HVDC link from Shetland to the Scottish mainland at an HVDC switching station in the vicinity of Noss Head in Caithness. The HVDC switching station works will integrate with the Caithness-Moray Transmission Reinforcement (part of SHET-RI-031)

The HVDC link includes a 600MW HVDC converter station and 132kV Substation at Kergord in Shetland. The new 132kV Substation at Kergord will be the collection point for generation in Shetland.

The 600MW HVDC link will have approximately 13km of land cable and 284km of subsea cable between Shetland and the HVDC switching station in Caithness.

Project Completion Date	01/07/2024

Summary of works in last quarter:

Completion of all superstructure works including substantial completion of cladding at both sites. Continue Building Services M&E installation at both sites. Commenced HVDC land Cable installation and jointing in Caithness and Shetland and HVDC Cable termination installation at Noss Head. Commenced Hitachi Energy HVDC installation activities at Kergord. Offshore – complete c90% of boulder clearance.

Summary of works in next quarter:

Noss Head DC Switching Station: Substantially complete civil works and HVDC cable installation works and commence HVDC equipment installation

Kergord HVDC Converter: Continue HVDC equipment installation, complete HVDC cable and termination installation. Continue M&E /building services installation and civil works. Offshore: Complete Pre Lay Grapnel Run and boulder clearance activities and prepare for Campaign 1 (of 3) Offshore HVDC cable installation – c 100km. Continue manufacturing Offshore DC Cable

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	uit steel lattice tower construction approximately	
40km, as well as works at Beauly, Loch Buidhe and Shin substations.		
Project Completion Date	31/10/2030	
Summary of works in last quarter:		
Review strategic options and continue early option development.		
Summary of works in next quarter:		
Review strategic options and continue early option development.		
Additional Comments:		
N/A		



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:			
Project on hold.			
Additional Community			
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 Augustu	is to Ardmore. The circuit is proposed as double	
circuit structure from Fort Augustus to Broadfor	d, Single Circuit Structure from Broadford to	
Edinbane and single circuit structure from Edinb	ane to Ardmore (approximately 160km Fort	
Augustus 132kV substation to Ardmore 132kV su	ubstation).	
Project Completion Date	31/12/2025	
Summary of works in last quarter:		
Continue with land options on preferred OHL alignment, finalise draft EIA, conclude on site survey works		
Engage with Ofgem and stakeholders on the INC consultation.		
Summary of works in next quarter:		
Continue with land options on preferred OHL ali	gnment, finalise draft EIA and undertake legal	
review,		
Engage with Ofgem and stakeholders on the FNO	Submission.	
Additional Comments:		
N/A		



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

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	22/03/2022

Summary of works in last quarter:

The two new 400/132kV Super grid transformers and 132kV busbar have been commissioned and are energised.

The circuit transfer of the Fort Augustus - Glen Morrison is also complete and energised.

Summary of works in next quarter:

The second and final transfer circuit transfer, Fort Augustus – Cennacroc, is underway and due for completion in the next week.

Additiona	I Comments:
Auultiolia	i Comments.



TORI	Scheme
SHET-RI-065a - Beauly 132 kV Substation	Beauly 132 kV Substation Redevelopment
Redevelopment	

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 275/132kV transformers. Third new 360MVA 275/132kV transformer will be undertaken under SHET-RI 065b

Project Completion Date	31/10/2024

Summary of works in last quarter:

Project has passed through Gate 2 and been handed from the Development to the Delivery Team. Planning Permission has been submitted and works are progressing on the CPO that may be required to secure the land and access.

GIS Framework has gone to BAFO and the Beauly project is being used in the Framework as a certain view project that will be assigned on the appointment of the framework contractors.

Summary of works in next quarter:

Framework and Design Contract to be awarded, Initial Design completed and submitted for review by SSEN Engineering.

Conclude and start the CPO proceedings.

Undertake SHE / Risk Reviews and Lessons Learned following the refinement process between Gate 2 and 3 in preparation for PAR and Gate 3.

dditional Comments:	
'A	



TORI Scheme

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 132kV double busbar arrangement at Beauly substation, and transfer the circuits from the existing 132kV busbar to the new busbar.

Project Completion Date 31/10/2025

Summary of works in last quarter:

See TORI-065a

Summary of works in next quarter:

See TORI-065a

Additional Comments:

Project completion date for the TORI-065b is under review. Project passed through Gate 2 on the assumption that the works needed to be completed within the T2 period. It is likely that a change request will be submitted to amend this completion date.



TORI	Scheme	
SHET-RI-066 - Fort Augustus Substation	Fort Augustus Substation 400/275kV	
400/275kV Development	Development	
Overview of Works	<u>'</u>	
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	ТВС	
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-068 - Fort Augustus -Invergarry-	Fort Augustus -Invergarry-400/132kV
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.

Project Completion Date	31/10/2027	

Summary of works in last quarter:

Establish corridors for OHL.

Continue engaging with key stakeholders, including landowners and community. Undertake site selection works for substation in the vicinity of Invergarry.

Summary of works in next quarter:

Prepare and issue Consultation Documents

Hold Public Consultations for alignment and substation site

Prepare and issue Report on Consultation

Commence further environmental and engineering surveys on proposed alignment

Additional	Comments:
N/A	



TORI	Scheme	
10111		
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 Reactive Compensation will require a capability of +		
325MVAr and -225MVAr.		
Project Completion Date	31/08/2024	
Summary of works in last quarter:		
Tree felling across the main substation platform	site.	
Construction of the initial site access roads.		
Mobilisation of the OHL works contractor.		
Summary of works in next quarter:		
Construction of the two new temporary towers	for the OHL diversion works,	
Completion of all tree felling and timber removal works,		
Commencement of material processing on site and formation of the main substation platform.		
Additional Comments:		
N/A		



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 double 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 superseded by SHET-RI-137 Blackhillock – New Deer – Peterhead		
Additional Comments:		
Additional Comments.		



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 Stati	on at Ellibister and a 132kV	
OHL Trident wood pole connection from Ellibister to Finstown Subs	station. Note that Finstown	
132kV Substation is established as part of SHET-RI-019 works.		
	201011000	
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:		
Additional Comments.		
N/A		



TORI	Scheme
SHET-RI-079 - Blackhillock Additional	Blackhillock Additional 275/132kV SGTs
275/132kV SGTs	
Overview of Works	
Reinforce the transmission network at Blackhillo	ck substation by installing two additional new
275/132kV Supergrid Transformers. The transfor	mers are to be rated at 360MVA.
Project Completion Date	30/06/2025
Summary of works in last quarter:	
_	equirements on the ongoing assessment of scope
whether 1 or 2 SGTs are required. Assessment re	
subject to approval and change control process.	
	nd noting based on current technology and spatial
constraints that a non-SF6 solution would not be	teasible at this time.
Summary of works in next quarter:	
Progress cable routing assessment from 132kV G	ilS building to new SGT. Further technical
assessments to progress substation and transfor	mer design including buried services, structural
assessment, noise impact and earthing study to	feed in to works information for invitations to
tender.	
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-086 - Craig Murrail Switching Station	Craig Murrail Switching Station

It is proposed that a new 132 kV switching station will be constructed near the Port Ann tee point (Craig Murrail) cutting into the Crossaig-Inveraray 132 kV double circuit. Disconnect Port Ann from tee points on the 132kV OHL and connect Port Ann GSP directly onto the new 132kV double busbars.

Project Completion Date 31/10/2025	
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Summary of works in last quarter:

Works to conclude Town & Country planning / Section 37 deliverables ahead of the submission date.

Further surveys such as peat probing, transport assessment undertaken.

Development of tendering documentation ahead of ITT submission in Q2 2022.

Summary of works in next quarter:

Town & Country Planning Application for Craig substation to be submitted.

Section 37 application to be submitted for two temporary 275kV towers required during the construction works. These will be removed once the existing Inveraray – Crossaig 275kV OHL circuits are tied into to the new substation.

Additional Comments:
N/A



TORI	Scheme
SHET-RI-088 - Loch Buidhe - Dounreay 275kV	Loch Buidhe - Dounreay 275kV Reinforcement
Reinforcement	
Overview of Works	
Increase the operating temperature of the existing	ng 275kV double circuit OHL between Loch
Buidhe and Dounreay (approximately 87km). The	· · · · · · · · · · · · · · · · · · ·
90°C which will increase the thermal capability o	f the circuit.
Project Completion Date	31/08/2025
Summary of works in last quarter:	
Works to be considered alongside SHET DI OER	
Works to be considered alongside Shell-Ki-056. A	Alternative options to be considered to increase
rating of existing conductor.	Afternative options to be considered to increase
_	Afternative options to be considered to increase
rating of existing conductor.	Afternative options to be considered to increase
_	Afternative options to be considered to increase
rating of existing conductor. Summary of works in next quarter:	
rating of existing conductor.	
rating of existing conductor. Summary of works in next quarter: Progress initial optioneering and assessment of i	
rating of existing conductor. Summary of works in next quarter: Progress initial optioneering and assessment of i	
rating of existing conductor. Summary of works in next quarter: Progress initial optioneering and assessment of i	
rating of existing conductor. Summary of works in next quarter: Progress initial optioneering and assessment of i	



TORI Scheme

SHET-RI-089 - Farigaig SGT2 Upgrade Farigaig SGT2 Upgrade

Overview of Works

Upgrade the 120MVA 275/132kV SGT2 at Farigaig substation to a 240MVA SGT, to facilitate the connection of generation in the area.

Project Completion Date 30/08/2024

Summary of works in last quarter:

- Payment for extension of guarantee made to Efacec in January
- In-situ replacement confirmed, civil designs developed accordingly

Summary of works in next quarter:

- Confirm 275kV CB (circuit breaker) suitable for point on wave switching. If not obtain costs for required modifications ore replacement if more cost effective
- Confirm whether existing SGT protection scheme can be retained / re-used (potential saving)
- Prepare works information for Part A tender for substation works, issue to contractors in Q3
 2022

Additional Comments:

Order for SGT has been placed with Efacec. Require delivery to site in February 2024. Instruction to Efacec to proceed with manufacture to be issued by 31 October 2022. This allows Efacec 16 months for manufacture and deliver to site.



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	ng 132kV double circuit OHL between Errochty
and Clunie substations. This double circuit is to b	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:	31/10/2020
Project on hold.	
Troject on noid.	
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	

Upgrade the existing Blackhillock / Rothienorman / Kintore / Alyth / Kincardine east coast 275kV circuits to 400kV operation. Establish a new 400kV double busbar at Kintore to enable this upgrade.

This upgrade also interfaces at Blackhillock 400kV Substation and with Scottish Power Transmission (SPT) at Kincardine substation. SPT will be responsible for all the 400kV OHL upgrade and substation works beyond the SSEN Transmission/SPT Boundary (Boundary 4).

Project Completion Date	31/10/2026

Summary of works in last quarter:

Kintore substation - Continuation of platform earthworks, commencement of building construction.

Kintore Substation Works – Completion of the bulk earthworks to achieve a level platform 800mm below finished level, Completion of building foundations and commencement of building steelwork erection, continued refinement of the substation layout (particularly the interfaces with the live asset), and development of the initial switchgear design.

Fetteresso 400kV upgrade – ongoing development works to allow the project to complete internal governance requirements.

East Coast OHL 400kV Upgrade Works – Part A design works underway.

Summary of works in next quarter:

Kintore Substation Works – Completion of the building steelwork and cladding installation, Completion of the 2no Transformer oil containment bunds, Commencement of AIS switchgear support foundations, commencement of Transformer manufacture, continued engineering development with the GIS manufacturer in relation to final GIS arrangement and GIB foundations, and continuation of design for the substation protection and control system.

Fetteresso 400kV upgrade – Completion of internal governance requirements. Conclude ongoing assessment of whether 1 or 2 SGTs are required for the project scope.

East Coast OHL 400kV Upgrade Works – Sumbission of first tranche of Part A design deliverables to complete. Site investigation and foundation intrusive works to commence.

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 over	erhead line between Dunoon substation and the
SHET – SPT boundary.	
This project interfaces with Scottish Power Trans	
the SHET-SPT boundary will be the responsibility	of SPT.
Project Completion Date	30/05/2026
Project Completion Date	30/03/2020
Summary of works in last quarter:	atus at a u
Appointed early Contractor Involvement (ECI) con	
Carried out site walkover surveys for tower locati	
Identify tower locations and access requirements	
Summary of works in next quarter:	
Undertake GI works at angle tower locations.	
Carry out pre s37 application information event	
Complete pre s37 deliverables such as Traffic Ma	nagement Plan (TMP) and tower access report.
Issue wayleaves and Heads of Terms (HOT's) to la	indowners
Additional Comments:	
N/A	



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SHET-RI-105 - Rothienorman s/s & Rothienorman - Kintore Reconductoring

Scheme

Rothienorman s/s & Rothienorman - Kintore 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 overhead line between the new double busbar at Rothienorman and Kintore substation (MX1, MX2).

Project Completion Date

20/08/2021 (energised)

Summary of works in last quarter:

Completion of deer fencing, remedial works and progress handover to SSEN Operations (Governance Gate 5).

Summary of works in next quarter:

Completion of handover to Operations. Closure of all outstanding defects and close-out of project finances.

Additional Comments:

Gate 5 date now 31st March 2022



TORI	Scheme
SHET-RI-106b - Connagill 2nd SGT	Connagill 2nd SGT
Overview of Works	
At Connagill substation, install a 2nd 275/132kV	360MVA supergrid transformer, to enable the
connection of wind generation in the local area t	o the Dounreay – Loch Buidhe 275kV circuit.
Purious Communication Date	04 /05 /2025
Project Completion Date	01/05/2025
Summary of works in last quarter:	
Reviewed existing Connagill Substation site and land or consents required to undertake the work	
Summary of works in next quarter:	
Combined Gate 1/2 planned for May/June 22. Co	ommence procurement of the SGT.
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 be	tween North Argyll 275/132kV substation
(established as part of SHET-RI-013) and Inver	raray 132kV switching station. This reinforced circuit
will connect to the double circuit overhead lin	ne from Crossaig (rebuilt as part of SHET-RI-050)
approximately 2.8km away from Inveraray.	
	0.044.040.00
Project Completion Date	30/10/2025
Summary of works in last quarter:	
Ongoing works on alignment design and envir	ronmental assessment of the alignment and options.
Stakeholder and Public Consultation on prefe	rred alignment to be completed.
Summary of works in payt quarters	
Summary of works in next quarter:	d subsequent environmental assessment
Finalise alignment and access track design and	
Finalise alignment and access track design and Stakeholder and Public Consultation on prefe	d subsequent environmental assessment. rred alignment to be completed. Prepare works
Finalise alignment and access track design and Stakeholder and Public Consultation on prefe information for invitation to tender.	rred alignment to be completed. Prepare works
Finalise alignment and access track design and Stakeholder and Public Consultation on prefe	rred alignment to be completed. Prepare works
Finalise alignment and access track design and Stakeholder and Public Consultation on prefe information for invitation to tender.	rred alignment to be completed. Prepare works
Finalise alignment and access track design and Stakeholder and Public Consultation on prefe information for invitation to tender.	rred alignment to be completed. Prepare works



TORI	Scheme	
SHET-RI-109 - Loch Buidhe - Spittal 132kV	Loch Buidhe - Spittal 132kV Reconductoring	
Reconductoring		
Overview of Works		
Reconductor the existing 90km 132kV tower lir	ne between Loch Buidhe and Spittal substations.	
The 132kV overhead line is to be reconductored 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	
	30/00/2027	
Summary of works in last quarter:		
Development team have held project kick-off call as part of Gate 0-1 phase and commenced		
optioneering.		
Summary of works in next quarter:		
Continuation of the Gate 0 - 1 stage 'Opportunity Assessment'.		
Additional Comments:		
N/A		



TORI	Scheme		
SHET-RI-111 - Abernethy 132kV Mesh Corner	Abernethy 132kV Mesh Corner		
Overview of Works			
At Abernethy 132/33kV substation, install a four	circuit breaker mesh corner. This will be		
connected to the existing Burghmuir – Charleston 132kV double circuit overhead line (PCN/CAS).			
Project Completion Date	31/10/2022		
	31/10/2022		
Summary of works in last quarter: Continue to progress with Regional Development	Dian and further entioneering to identify most		
	• • • • • • • • • • • • • • • • • • • •		
economical solution to accommodate contracted	economical solution to accommodate contracted generation.		
Summary of works in next quarter:			
On Hold			
Cirriold			
Additional Comments:			
N/A			
<u> </u>			



TORI	Scheme
SHET-RI-115 - Melgarve 400/132 kV Substation Additional SGTs	Melgarve 400/132 kV Substation Additional SGTs

At Melgarve substation (established under SHET-RI-085a and SHET-RI-085b), install an additional two 480MVA SGTs to enable the connection of wind generation in the area.

Project Completion Date

31/10/2026 01/07/2026

Summary of works in last quarter:

- Strategic Options Assessment completed for Melgarve cluster
- Preferred Option requires installation of new 132kV GIS switchboard
- Meeting with local community (Laggan Community Council)
- Consultation event held and Statutory Consultees engaged, consultation report on cluster drafted
- Environmental surveys are continuing

Summary of works in next quarter:

- Phasing of the works to be considered post Gate 1
- Progress designs and develop works information
- Route alignment for OHLs (overhead lines)
- Appoint consultant for GIS extensions

Additional Comments:

Completion date amended to align with Cloiche as works required for this connection



TORI Scheme

SHET-RI-116 - Kergord - Yell 132kV Connection Kergord - Yell 132kV Connection

Overview of Works

On Shetland install a new 132kV single circuit between the Kergord 132kV substation (established as part of SHET-RI-053) and a new 132kV switching station on Yell, to enable the connection of renewable generation.

Project Completion Date 01/04/2026

Summary of works in last quarter:

Preparation of specification to go out to tender for Marine Survey for 132kV subsea cable connection between Shetland mainland and Yell.

Place contract to carry out Geotechnical investigations starting April 2022.

Continue developing OHL and cable alignments taking on board environmental reports.

Summary of works in next quarter:

Select Marine Survey supplier and place contract.

Complete Geotechnical investigations.

Submit application for quotation from SHEPD for undergrounding of existing overhead line infrastructure.



TORI	Scheme
SHET-RI-117 - Tealing 275kV Busbar Upgrade	Tealing 275kV Busbar Upgrade

At Tealing remove the existing 275kV 2500A rated busbar and replace with a new 4000A rated 275kV double busbar complete with two bus couplers, one bus section and busbar selection on all feeder bays.

Project Completion Date	18/11/22

Summary of works in last quarter:

All remaining circuit transfers completed. And bus bar energised Confirm when user will be ready to energise each of their circuits

Summary of works in next quarter:

Users current plan should have 2 out 3 circuits energised within the next quarter. Project has been delayed in completion due to user delayed in energisation

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 3 ended grid transformer differential protection		
scheme on GT2 to enable the connection of a se	cond generator at Corriemoillie.	
Project Completion Date	31/10/2024	
Summary of works in last quarter:		
Delivery team progressed with review and coord	lination with generator connection works. Works	
to progress to meet 2024 completion.		
Summary of works in next quarter:		
Delivery team progressed with review and coordination with generator connection works. Works		
to progress to meet 2024 completion.		
Additional Comments:		
N/A		



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

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

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

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

Dismantle the existing Fiddes 132/33kV substation.

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

Project Completion Date	31/10/2026
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Summary of works in last quarter:

Ongoing System Planning and Asset Management review of the overhead line options between Brechin and the Tealing/Arbroath/Brechin Tee Point.

Summary of works in next quarter:

Ongoing System Planning and Asset Management review of the overhead line options 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	Reconductor approximately 25km of 132kV OHL between Abernethy 132kV substation and	
Charleston 132kV substation. The circuit should be	pe reconductored with a conductor capable of a	
minimum summer pre-fault rating of 150MVA.		
Project Completion Date	31/10/2022	
Continue with Optioneering and Project Development to identify optimum reinforcement strategy to accommodate contracted generation. Summary of works in next quarter:		
On Hold Additional Comments: N/A		



TORI	Scheme	
	Shin - Loch Buidhe 132kV Reconductoring	
SHET-RI-123 - Shin - Loch Buidhe 132kV	Silit - Locit Buluile 132kV Neconductoring	
Reconductoring		
Overview of Works		
Following the completion of SHET-RI-058, Shin substation will be radially connected into Loch		
_	Buidhe 132kV substation via the existing 132kV double circuit. TORI-123 project is to reconductor	
	Shin substation and Loch Buidhe substation. The	
double circuit should be reconductored with a m	inimum summer pre-fault rating of 190MVA.	
	T.	
Project Completion Date	31/12/2023	
Summary of works in last quarter:		
System Studies ongoing. Works to be considered alongside SHET-RI-058.		
Summary of works in next quarter:		
System Studies ongoing. Works to be considered alongside SHET-RI-058.		
-,		
Additional Comments:		
N/A		



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 Kei	gord 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 Consulation Data	24/40/2025
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 circ	cuit between the Kergord 132kV substation
(established as part of SHET-RI-053) and the So	outh Yell Switching Station (constructed as part of
SHET-RI-116), to enable the connection of rene	ewable generation.
Project Completion Date	TBC if 2 nd circuit is required
Summary of works in last quarter:	
Project on hold – not required at present.	
, , ,	
Summary of works in next quarter:	
Project on hold – not required at present.	
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 cir	cuit
Project Completion Date	31/10/2031
Summary of works in last quarter:	
Coordination required with Scotwind and Offshor	re Transmission Network Review workstream.
Summary of works in next quarter:	
Project to enter the initial development stages al	ongside TORI 128.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-128 – Caithness to Peterhead HVDC	
Link	Caithness to Peterhead HVDC Link
Overview of Works	
Transmission reinforcement works associated winnew Spittal 2 275 kV substation (delivered under substation.	
The HVDC link is approximately 145 km from Spit	tal 2 to Peterhead (115 km subsea cable and 30
km underground cable).	
The works will be coordinated with the NOA reco	mmendations
Project Completion Date	31/10/2029
Summary of works in last quarter:	
N/A	
Summary of works in next quarter:	
Begin initial project development works	
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 Farigaig substation to a 240MVA SGT, to facilitate the connection of generation in the area.

Project Completion Date 01/07/2025

Summary of works in last quarter:

Design finalised based on Efacec unit and works information for tender being prepared. Change request submitted to align SGT replacement with new connection date.

Summary of works in next quarter:

Re-design of civil works due to concerns / perceived risks regards ordering SGT1 from Efacec. Determine whether existing 275kV CB can be modified for point on wave switching. Confirm SGT protection scheme does not need to be replaced.

Additional Comments:

Completion date delayed due to LT300 (Corriegarth 2) ModApp delaying connection date to 01/07/2025.



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	shed as part of SHET-RI-013) to Craig Murrail
Substation. This will require the upgrade of An	Suidhe and Crarae substations on this circuit for
275kV operation.	
Project Completion Date	31/10/2025
Summary of works in last quarter:	
An Suidhe 33kV/275kV and Crarae 33kV/275kV	substation designs have been progressed and
An Suidhe 33kV/275kV and Crarae 33kV/275kV initial design meetings held with Customers aff	• • •
	• • •
	• • •
initial design meetings held with Customers aff Summary of works in next quarter:	ected by design changes.
initial design meetings held with Customers aff Summary of works in next quarter: Town & Country Planning Applications for An S	ected by design changes.
initial design meetings held with Customers aff Summary of works in next quarter:	ected by design changes.
Summary of works in next quarter: Town & Country Planning Applications for An S substations to be submitted.	uidhe 33kV/275kV and Crarae 33kV/275kV
Summary of works in next quarter: Town & Country Planning Applications for An S substations to be submitted. Section 37 application for movement of towers	ected by design changes.
Summary of works in next quarter: Town & Country Planning Applications for An S substations to be submitted.	uidhe 33kV/275kV and Crarae 33kV/275kV
Summary of works in next quarter: Town & Country Planning Applications for An S substations to be submitted. Section 37 application for movement of towers	uidhe 33kV/275kV and Crarae 33kV/275kV
Summary of works in next quarter: Town & Country Planning Applications for An S substations to be submitted. Section 37 application for movement of towers link to new substations to be submitted.	uidhe 33kV/275kV and Crarae 33kV/275kV
Summary of works in next quarter: Town & Country Planning Applications for An S substations to be submitted. Section 37 application for movement of towers	uidhe 33kV/275kV and Crarae 33kV/275kV



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 n	etwork to enable 275kV operation of the
network from Craig Murrail substation to a new of	double busbar substation to be established at
Crossaig.	
Project Completion Date	31/10/2026
Summary of works in last quarter:	
Crossaig North 132kV/275kV substation design ha	as been progressed.
Summary of works in next quarter:	
Town & Country Planning Application for Crossei	7 North 1221/1/2751// substation to be submitted
Town & Country Planning Application for Crossal	g North 132kV/275kV substation to be submitted.
Section 27 application for mayament of towers on existing layoraray to Crossaig everhead line to	
Section 37 application for movement of towers on existing Inveraray to Crossaig overhead line to link to new substation to be submitted.	
mix to new substation to be submitted.	
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 Grid Supply point.	
Project Completion Date	31/10/2024
Summary of works in last quarter:	
Continue optioneering and project development	alongside related reinforcement, SHET-RI-120.
Summary of works in next quarter:	
Continue optioneering and project development	alongside related reinforcement, SHET-RI-120.
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-132 - Beauly-Blackhillock High	Beauly-Blackhillock High Temperature
Temperature Reconductoring	Reconductoring
Overview of Works	
Reconductor the Beauly - Blackhillock 275 kV dou	ble circuit line with high temperature
conductors. The circuits to be reconductored con	nprise 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	30/07/2027
Summary of works in last quarter:	
Initial optioneering works being progressed by De	evelopment team.
Summary of works in next quarter:	
Continue optioneering works and review requires	ments alongside Beauly – Blackhillock 400kV
circuit works	
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-133 - Loch Buidhe SGT Upgrade	Loch Buidhe SGT Upgrade
Overview of Works	
Replacement of existing Loch Buidhe 240MVA 13	2/275kV SGTs with 480MVA units.
-	,
Project Completion Date	30/07/2027
	30/07/2027
Summary of works in last quarter:	
Initial development/optioneering works kick off	
Summary of works in next quarter:	
, , , , , , , , , , , , , , , , , , , ,	
Initial dayalanment/antion caring works kick off	
Initial development/optioneering works kick off	
Additional Comments:	
N/A	
•	
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 Au	gustus / Tummel-Kinardochy / Braco West /
Bonny Bridge 275kV circuit to 400kV; mirroring tl	ne ratings of the existing 400kV circuit, along the
route	
Project Completion Date	31/10/2029
Summary of works in last quarter:	
Initial Development and optioneering works to p	rogress.
Summary of works in next quarter:	
Initial Development and optioneering works to p	rogress.
Additional Comments:	
N/A	



TORI	Scheme		
SHET-RI-135 - Edinbane 132kV Substation	Edinbane 132kV Substation		
Overview of Works	<u>I</u>		
Construct a 132kV Collector Switching Station at	Edinhane		
These works will include provision of reactive compensation equipment to accommodate			
additional generation onto the Skye 132kV system	·		
duditional generation onto the skye 132kV system			
Project Completion Date	31/07/2026		
Summary of works in last quarter:			
Work to progress on optioneering and preparation of MSIP submission to Ofgem.			
	0		
Summary of works in next quarter:			
Work to progress on optioneering and preparation	on of MSIP submission to Ofgem.		
Additional Comments:			
Additional Comments: N/A			



	Scheme
SHET-RI-136 - Blackhillock 400kV Building	Blackhillock 400kV Building Extension
Extension	
Overview of Works	
Extend existing Blackhillock 400kV GIS building t	o allow space provision for additional bays.
Project Completion Date	31/08/2024
Summary of works in last quarter:	
Initial development and optioneering works to p	progress.
Summary of works in next quarter:	
Summary of works in next quarter: Initial development and optioneering works to p	progress.
-	progress.
-	progress.
	progress.
Initial development and optioneering works to p	progress.
	progress.



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 line from Blackhillock to New Deer (60km) and		
New Deer to Peterhead (22km).		
Project Completion Date	31/10/2031	
Summary of works in last quarter:	annes Duniest to be anneadd for submission for	
Initial development and optioneering works to prevaluation in Network Options Assessment (NOA)		
Initial development and optioneering works to prevaluation in Network Options Assessment (NOA) Summary of works in next quarter:)	
Initial development and optioneering works to prevaluation in Network Options Assessment (NOA))	
Initial development and optioneering works to prevaluation in Network Options Assessment (NOA) Summary of works in next quarter:)	



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 busbar at New Deer 400kV Substation.			
Project Completion Date	31/10/2033		
Summary of works in last quarter:			
Initial development and optioneering works to progress.			
Summary of works in next quarter:			
Initial high-level project development, along with initial internal governance activities for project			
inception.			
Additional Comments			
Additional Comments:			
N/A			



SHET-RI-139 - 2GW HVDC Link New Deer to England Overview of Works Install an indoor 2GW HVDC converter station with associated equipment at New Deer Substation HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid. Project Completion Date Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter: Initial development and optioneering works to progress.	TORI	Scheme		
England Overview of Works Install an indoor 2GW HVDC converter station with associated equipment at New Deer Substation HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid. Project Completion Date 31/10/2033 Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:				
Overview of Works Install an indoor 2GW HVDC converter station with associated equipment at New Deer Substation HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid. Project Completion Date 31/10/2033 Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:	51121 III 255 2511 III 25 2111 III 2511 II	2000 HVDC LIIK New Deer to Eligiana		
Install an indoor 2GW HVDC converter station with associated equipment at New Deer Substation HVDC cables to be routed into the sea and then south towards England (landing point to be confirmed). This will be a joint project with National Grid. Project Completion Date 31/10/2033 Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:				
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: Initial development and optioneering works to progress. Summary of works in next quarter:	Overview of Works			
confirmed). This will be a joint project with National Grid. Project Completion Date 31/10/2033 Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:	Install an indoor 2GW HVDC converter station wit	th associated equipment at New Deer Substation.		
confirmed). This will be a joint project with National Grid. Project Completion Date 31/10/2033 Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:	HVDC cables to be routed into the sea and then s	outh towards England (landing point to be		
Project Completion Date 31/10/2033 Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:				
Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:	de la forme project with Hattorial Grid.			
Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:				
Summary of works in last quarter: Initial development and optioneering works to progress. Summary of works in next quarter:	Project Completion Date	31/10/2033		
Initial development and optioneering works to progress. Summary of works in next quarter:		3-1-31-333		
Summary of works in next quarter:	· · · · · · · · · · · · · · · · · · ·			
	initial development and optioneering works to progress.			
	Summary of works in payt quarter:			
initial development and optioneering works to progress.	·			
	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		
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-141 - Spittal to New Deer HVDC Link	Spittal to New Deer HVDC Link	
Overview of Works		
Create an HVDC link between Spittal and New Deer.		
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Project requirement being assessed.		
Summary of works in next quarter:		
Project requirement being assessed.		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-142 - Caithness to New Deer 2 - 2 x	Caithness to New Deer 2 - 2 x 1GW HVDC Links	
1GW HVDC Links		
Overview of Works		
Construct 2 x 1GW HVDC links from Spittal to New Deer 2, including converter stations and		
associated equipment.		
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Coordination required with ScotWind and Offshore Transmission Network Review workstream.		
Summary of works in next quarter:		
Coordination required with ScotWind and Offshore Transmission Network Review workstream.		
	TE TRAISHIISSION NELWORK NEVIEW WORKSCIEGHT.	
Additional Comments:	TE TRAISMISSION NELWORK REVIEW WORKSCIEGITI.	
Additional Comments: N/A	TE TRAISHIISSION NELWORK REVIEW WORKSCIEGHT.	



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.		
Project Completion Date	30/04/2025	
Summary of works in last quarter:		
Preparation of MSIP submission to Ofgem and development works.		
Summary of works in next quarter:		
Continue development works		
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.		
Project Completion Date	31/10/2033	
Summary of works in last quarter:		
Initial development and optioneering works to progress.		
Summary of works in next quarter:		
Initial development and optioneering works to progress.		
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 wi	th associated equipment at New Deer 2	
Substation. HVDC cables to be routed into the se	a 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:		
Initial development and optioneering works to progress.		
Summary of works in next quarter:		
Initial development and optioneering works to progress.		
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:		
Initial development and optioneering works to pr	ogress.	
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 overh	nead line between Alyth and Tealing for 400kV
operation.	
Project Completion Date	31/10/2031
Summary of works in last quarter:	0-1, -0, -00-
-	ng with initial internal governance activities for project
inception.	18 With militar internal governance activities for project
Summary of works in next quarter:	
Continuation of high-level project develop	ment, along with initial internal governance activities.
Additional Comments:	
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 b	etween Tealing and Glenrothes-Westfield for
400kV operation.	
Project Completion Date	31/10/2031
Summary of works in last quarter:	31/10/2031
•	
Initial high-level project development, along with	initial internal governance activities for project
inception.	
Summary of works in next quarter:	
Continuation of high-level project development,	along with initial internal governance activities.
Additional Comments:	
N/A	



TORI	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
Initial high-level project development, along with inception.	Tillitial internal governance detivities for project
Summary of works in next quarter:	
Continuation of high-level project development,	along with initial internal governance activities.
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	ground, including any required modifications.
Design and installation of one 132kV circuit break	ker with three 132kV disconnectors and
associated protection and control equipment for	each of the two circuits.
Project Completion Date	24 /40 /2020
Project Completion Date	31/10/2029
Summary of works in last quarter:	
Initial high-level project development, along with	initial internal governance activities for project
inception.	
Summary of works in next quarter:	
Initial high-level project development, along with	initial internal governance activities for project
inception.	
Additional Comments:	
N/A	



TORI
SHET-RI-153 - Spittal 2 275 kV Substation

Overview of Works
Construct a new 275 kV substation 'Spittal 2' close to the existing Spittal 275 kV substation in Caithness.

Project Completion Date
Summary of works in last quarter:

Coordination required with Scotwind and Offshore Transmission Network Review workstream.

Summary of works in next quarter:

Initial project development works to commence.

Additional Comments:
N/A



TORI	Scheme
SHET-RI-155 - Peterhead - Persley Tee 275kV	Peterhead - Persley Tee 275kV Works
Works	
Overview of Works	
Project Completion Date	
Summary of works in last quarter:	
Initial high-level project development, along with	initial internal governance activities for project
inception.	
Comment of the later than the	
Summary of works in next quarter:	
Initial high-level project development, along with	initial internal governance activities for project
inception.	
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-165 - Alcemi Substation 400kV	Alcemi Substation 400kV Switchgear
Switchgear	
Overview of Works	
Project Completion Date	
Summary of works in last quarter:	
Initial high-level project development, along with	initial internal governance activities for project
inception.	
Summary of works in next quarter:	
Initial high-level project development, along with	initial internal governance activities for project
inception.	
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.
Design and installation of one 132kV circuit breal	ker with two 132kV disconnectors and associated
protection and control equipment.	
Project Completion Date	30/04/2026
Summary of works in last quarter:	
Initial high-level project development, along with initial internal governance activities for project	
inception.	
Summary of works in next quarter:	
Summary of works in next quarter: Continuation high-level project development, alc	ong with initial internal governance activities.
•	ong with initial internal governance activities.
•	ong with initial internal governance activities.
•	ong with initial internal governance activities.
•	ong with initial internal governance activities.
Continuation high-level project development, alc	ong with initial internal governance activities.
•	ong with initial internal governance activities.



TORI	Scheme	
SHET-RI-167 - Keith 275kV Sync Comp	Keith 275kV Sync Comp	
Overview of Works		
Project Completion Date		
Summary of works in last quarter:		
Initial high-level project development, along with	initial internal governance activities for project	
inception.		
Summary of works in next quarter:		
	along with initial internal governance activities	
Continuation of high-level project development, along with initial internal governance activities.		
Additional Comments:		
N/A		



TORI	Scheme				
SHET-RI-168 - Melvich to Connagill 132kV	Melvich to Connagill 132kV Connection				
Connection					
Overview of Works					
Transmission reinforcement works associated with the construction of a new 5.2 km, 132 kV overhead line between Melvich Community wind farm 132/33 kV substation and Connagill substation. The works include the connection to a 132kV bay at Connagil and a single 132kV busbar at Melvich Community Wind Farm.					
			Project Completion Date	31/10/2027	
			Summary of works in last quarter:		
			N/A		
Summary of works in next quarter:					
Begin initial development works					
Additional Comments:					
N/A					
•					