



# Transmission Owner Reinforcement Instruction (TORI) Quarterly Update Report Q2 April 2023 – June 2023

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

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

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

Should you have any questions or feedback on the report, please get in touch with us at <a href="mailto:transmission.commercial@sse.com">transmission.commercial@sse.com</a>

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TORI	Scheme
SHET-RI-007a - Beauly - Blackhillock 400 kV Double Circuit OHL	Beauly - Blackhillock 400 kV Double Circuit OHL
Boasic circuit ciri	

Establish a new double circuit 400kV overhead line approximately 110km from Beauly to Blackhillock. In an update from initial scope, the new OHL is to connect to a new 400kV busbar at Beauly and a new 400kV busbar at Blackhillock.

Proposed Consent Submission	01/11/2024
<b>Current Project Phase</b>	Design
Next Project Phase	Consenting
Next Stakeholder Event	November 2023
Project Completion Date	31/10/2030

# Summary of works in last quarter:

Public consultation for preferred route.

Appointment of ECI contractor.

Progression through Gate 1.

# **Summary of works in next quarter:**

Confirmation of proposed route.

Identification and development of alignment options.

Initiation of ECI works.

# **Additional Comments:**

Project is being developed in parallel to SHET-RI-137 Blackhillock – New Deer – Peterhead 400kV OHL with shared project team.

New Beauly 400kV Busbar to be connected to is captured in scope of SHET-RI-007b.

New Blackhillock 400kV Busbar to be connected to is captured in scope of TORI 199.



TORI	Scheme	
SHET-RI-007b - Beauly 400 kV Busbar	Beauly 400 kV Busbar	
Overview of Works		
Busbar extension at the existing Beauly sub	station.	
Proposed Consent Submission	tbc	
Current Project Phase	Optioneering	
Next Project Phase	Design	
Next Stakeholder Event	tbc	
Project Completion Date	01.04.2025	
Summary of works in last quarter:		
<ul> <li>Optioneering study</li> </ul>		
Summary of works in next quarter:		
<ul> <li>Progress design</li> </ul>		
Additional Comments:		
N/A		



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 operated at 275kV, with reactive compensation support. Also includes Errochty Thermal Relay Works scope.

Re-profile the existing Kintore-Tealing-Kincardine 275kV circuits and the existing Tealing-Westfield-Longannet 275kV circuits for higher temperature operation.

Install 275kV Phase shifting transformers on each of the Kintore – Tealing circuits (XT1/XT2) at Tealing substation.

<b>Proposed Consent Submission</b>	Complete
<b>Current Project Phase</b>	Execution
Next Project Phase	Operation
Next Stakeholder Event	TBC
<b>Project Completion Date</b>	31/10/2023

# Summary of works in last quarter:

**Errochty Thermal Relay Works (LT43):** All works complete – no further works required.

**Alyth Substation Works (LT139):** Completed the construction and testing of the Gas Insulated Switchgear, Gas Insulated Busbars and the high voltage cabling. Completion of the main transformer assembly on site. Continuation of the STATCOM and MSCDN construction.

# Summary of works in next quarter (Alyth Ssubstation):

Complete commissioning of the Gas Insulated Switchgear and commence the outage work to connect it on to the network,

Complete assembly of the STATCOM and MSCDN equipment and start commissioning works, Completion of exterior civil works.

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Additional Comments: N/A		



TORI	Scheme	
SHET-RI-013 - North Argyll Substation	North Argyll Substation	
Overview of Works		
Establish a new 275/132 kV Substation in Nort	th Argyll near the existing Inveraray/Taynuilt 132 kV	
line route with two 480 MVA 275/132 kV trans	sformers with provision for additional future feeder	
bays.		
Establish a new 275 kV double circuit OHL bety	ween Creag Dhubh (North Argyll) substation and a	
tie in point on existing Dalmally – Windyhill SP	EN circuit, near Dalmally.	
Proposed Consent Submission	Substation consented. Overhead line consent	
	subject to Public Local Inquiry.	
Current Project Phase	Refinement	
Next Project Phase	Execution	
Next Stakeholder Event	TBC	
Project Completion Date 30/11/2027		
Summary of works in last quarter:		
Concluded the tender processes and preparing for award of Initial Works contracts.		
Public Local Inquiry hearing held in June 23.		
Summary of works in next quarter:		
Award Initial Works contracts and progress design activities in preparation for governance ahead		
of execution phase.		
Additional Comments:		



TORI	Scheme
SHET-RI-019 - Dounreay - Orkney 220kV Subsea	Dounreay - Orkney 220kV Subsea HVAC Cable
HVAC Cable Link 1	Link 1

Establish a 220kV HVAC circuit over a distance of approximately 68km between the 275kV GIS substation at Dounreay on the mainland and the new 132kV substation in the vicinity of Finstown on Orkney. The HVAC circuit comprises of approximately 15km of land cable and 53km of subsea cable. Voltage Compensation devices will be installed at both cable ends within the substation compounds at Dounreay and Finstown.

Proposed Consent Submission	Complete	
<b>Current Project Phase</b>	Development	
Next Project Phase	Delivery	
Next Stakeholder Event	Island meet the buyer event 09 Aug	
	Public information day 10 Aug (TBC)	
Project Completion Date	Q2 2028	

# Summary of works in last quarter:

- Ofgem: Monitor FNC decision and negotiate multi-phased submission process for Project Assessment
- Governance: Progress towards July Gate 2, completing DAR, PSR, PAR & PIL
- Procurement:
  - Issue Renewed Information to suppliers
  - Complete Planning Consent Risk Assessment works with SBAM, and consider completing early substation Part A Works.



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 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 compris	es of approximately 15km of land cable and	
53km of subsea cable. Voltage Compensation dev	vices will be installed at both cable ends within	
the substation compounds at Dounreay and Finst	own. Finstown Substation is established as part	
of SHET-RI-019.		
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
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.		
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	30/09/2023	
Summary of works in last quarter:		
Please see project update for SHET-RI-025d Nortl	n East 400kV Reinforcement.	
Summary of works in next quarter:		
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Additional Comments:		
N/A		



TORI	Scheme
SHFT-RI-025h - Fastern Subsea HVDC Link	Eastern Subsea HVDC Link

Install a 2GW HVDC link between Peterhead (SHE-Transmission) and Drax (NGET).

This TORI describes the SSENT works.

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

Proposed Consent Submission	
Current Project Phase	Refinement
Next Project Phase	Construction
Next Stakeholder Event	
Project Completion Date	31/10/2029

# Summary of works in last quarter:

Received main EPC BAFO submission.

Concluded main EPC tender event and nominated preferred bidders for Converter and Cable.

Received Ofgem approval for Early Construction Funding

Submitted Project Assessment Phase 1A (non-EPC costs) to Ofgem.

Secured Pre-Construction Agreements with Preferred Bidders

Agreed HoTs with Crown Estate Scotland for seabed licence.

Agreed HoTs with three property owners adjacent to converter site

Secured Marine Licence from Marine Scotland (MS LOT)

Secured Section 37 for 132kV OHL Diversion

Incorporated JV agreement signed between SSENT and NGET

# Summary of works in next quarter:

Secure Crown Estate Scotland Option Agreement

Commence Early Works and Site Verification with Preferred Bidders

Award Enabling Works Part A Contracts (132kV Diversion and 400kV GIS Substation Extension)

Commence Enabling Part A Design development

Submit Ofgem Project Assessment Phase 2A (Non EPC cost & Risk) – end August

Submit Ofgem Project Assessment Phase 2B (EPC Costs) – end September

#### **Additional Comments:**

Conclude 400kV AC Scope of Works for HVDC converter interface at Peterhead.



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 under a separate project.

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Proposed Consent Submission	Complete
<b>Current Project Phase</b>	Execution
Next Project Phase	Operation Q4 2023
Next Stakeholder Event	
Project Completion Date	31/10/2023

#### **Summary of works in last quarter:**

275kV cables pulled on VV1 circuit from the existing 275kV Substation to the new 400kV platform. Protection and control panel commissioning will be ongoing to Stage 1 commissioning.

All RJM civil, HITACHI and GE snagging works will be complete end of June.

VND2 Outage commenced on the 3<sup>rd</sup> May 2023, allowing all outage works to commence; installation of CSE structures, cable lifting and cable terminations at the 275kV substation on VV1 circuit.

OHL works - redirecting of VND2 circuit from Tower 89 to new installed Towers 90/91, downleads from T91 to 400kV Substation gantry prior to First energisation.

#### Summary of works in next quarter:

VV1 terminations will be complete, cable HV testing, and busbars installed prior to first energisation Late July 2023.

Hitachi remedial works on GIS RBB gas leak to commence early July, with 1 week installation and HV test.

VND1 outage to commence 14<sup>th</sup> August 2023 – remaining outage works including VND1/VV1 P&C mods, OHL works from existing T89 to T90 & T91 connecting into 400kV Substation gantry and VV2 275kV cable will be installed late June, with CSE scaffolding, terminations, HV testing and busbar installation prior to full energisation October 2023.

Additional Comments:		
N/A		



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

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

Remove the two line connected 400/275kV, 1200MVA SGTs from Blackhillock Substation. Install two new 400/275kV, 1200MVA at Kintore for terminating the Rothienorman to Kintore double circuit overhead line onto the 275kV busbar at Kintore.

Install two 400/33kV Super Grid Transformers to connect the Rothienorman Grid Supply Point to the 400kV Rothienorman Busbar. Upgrade the Surge Arresters and Capacitive Voltage Transformers on six existing overhead line feeder bays from 275kV to 400kV.

Upgrade the Surge Arresters and Capacitive Voltage Transformers on four existing overhead line feeder bays and three cable circuit bays from 275kV to 400kV at New Deer substation and bring the whole substation to 400kV operating voltage.

Proposed Consent Submission	Complete
<b>Current Project Phase</b>	Commissioning
Next Project Phase	N/A
Next Stakeholder Event	N/A
Project Completion Date	31/10/2023

#### **Summary of works in last quarter:**

**OHL Works** – All OHL works are complete, with works now concentrated on Substation reconfiguration at Blackhillock for the transition to 400kV Operation.

**Rothienorman Substation Works** - Commissioning works will begin to replace the 275kV equipment with 400kV equivalents and transition the reserve busbar system and associated bays to 400kV.

**New Deer Substation Works** – Upgrade works will commence to replace the 275kV equipment with 400kV equivalents and transition the reserve busbar to 400kV operating voltage.

#### Summary of works in next quarter:

**OHL Works** – All OHL works are complete, with works now concentrated on Substation reconfiguration at Blackhillock for the transition to 400kV Operation.

Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-026 - Blackhillock 275 kV QBs	Blackhillock 275 kV QBs (PSTs)

At Blackhillock, install 2 x 865MVA (continuous rating) 275kV quadrature boosters with bypass on the existing 275kV circuits (AH1/HO2) to Knocknagael, rearranging the circuit terminations as appropriate.

Proposed Consent Submission	N/A
<b>Current Project Phase</b>	Development
Next Project Phase	Refinement
Next Stakeholder Event	N/A
Project Completion Date	31/10/2026

# Summary of works in last quarter:

PQQ was held for power flow controller – still awaiting clarity on preferred technology choice, due to excessive lead times noted for PSTs.

PSR2 was held for the project.

# **Summary of works in next quarter:**

Prepare Works Information to support ITT.

Ensure all governance is in place to progress through Gate 2.

Status Check to be held for project.

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TORI	Scheme
SHET-RI-028 – Thurso South to Gills Bay 132kV OHL	Thurso South to Gills Bay 132kV OHL
Onl	

It is proposed to construct a new 132kV GIS double busbar arrangement switching station at Phillipstoun Mains, near Gills Bay (west of John O'Groats) and connect in two radial circuits from Thurso south.

Construct a new suitably rated hybrid overhead line and underground cable double circuit, operated at 132kV, from Gills Bay to Thurso South.

Proposed Consent Submission	Consented
<b>Current Project Phase</b>	Development
Next Project Phase	Refinement
Next Stakeholder Event	N/A
Project Completion Date	01/04/2027

# Summary of works in last quarter:

Continued engagement with Developers further to outcome of CfD4 auction and subsequent Mod Apps to ascertain any potential impact on programme.

Continued engagement with landowners to secure outstanding land agreements.

Continued development of Needs Case and CBA for MSIP submission.

Continued engagement with landowners to secure outstanding land agreements. Continued development of Needs Case and CBA for MSIP submission.

Additional Comments:	
N/A	
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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 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.		
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Continued high-level project development, along with initial internal governance activities.		
Summary of works in next quarter:		
Continued high-level project development, along with initial internal governance activities.		
Additional Comments:		
N/A		



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



TORI	Scheme	
SHET-RI-046 - Taynuilt-North Argyll Rebuild	Taynuilt-North Argyll Rebuild	
Overview of Works		
Reinforce the transmission network between Taynuilt and North Argyll substation (established as		
part of SHET-RI-013). Rebuild approximately 12.5	5km of existing 132kV double circuit steel tower	
line between North Argyll and Taynuilt with a lar	ger capacity 132kV.	
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2028	
Summary of works in last quarter:		
Project on hold.		
Summary of works in next quarter:		
Project to be reinitiated through internal govern	ance and initial high-level project development	
commenced.		
Additional Comments:		
N/A		



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

Reinforce the 132kV Transmission Network in the Kintyre Peninsula. Rebuild approximately 48km of double circuit OHL between Port Ann and Crossaig. The tower line will be built for 275kV operation, but initially operated at 132kV.

Proposed Consent Submission	N/A
Current Project Phase	Execution
Next Project Phase	Handover to Operations
Next Stakeholder Event	N/A
Project Completion Date	31/10/2023

# Summary of works in last quarter:

Construction works completed and the overhead line was successfully energised June 2023. Reinstatement works have commenced comprising of the removal of temporary stone access tracks and compounds.

# Summary of works in next quarter:

Dismantling of the existing 132kV overhead line shall commence and the reinstatement of temporary access tracks and compounds shall continue.

# Additional Comments:



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.

Proposed Consent Submission	n/a
Current Project Phase	Construction
Next Project Phase	Commissioning
Next Stakeholder Event	n/a
Project Completion Date	24/06/2022

# Summary of works in last quarter:

The portion of the outstanding works, affected by the OR, is being carried out (under Outage) in May/June 2023; installation & commissioning at remote interfacing substations.

Completion of the Re-instatement works.

# **Summary of works in next quarter:**

Resolution of outstanding Defects. Dismantling of existing Lairg – Shin OHL (Qtr. 4)

# **Additional Comments:**



TORI	Scheme
SHET-RI-053 - Shetland 600 MW HVDC Link and	Shetland 600 MW HVDC Link and Kergord
Kergord 132kV Substation	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 10km of land cable and 260km of subsea cable between Shetland and the HVDC switching station in Caithness.

Proposed Consent Submission	July 2020 – Ofgem needs case approval		
Current Project Phase	Gate 3 – Kergord Construction Phase		
	Gate 3 – Cables (approaching Gate 4a July		
	2023)		
	Gate 5 – Noss Head (Energisation complete 2 <sup>nd</sup>		
	June)		
Next Project Phase	Gate 4a – Cables 24 <sup>th</sup> July 2023		
Next Stakeholder Event	July 2023 – Community Liaison Group Event		
	monthly. SSENT team in June 2023 attended-		
	a) STEM event on Shetland and b) Climate		
	Event by Shetland Islands Council on 10 <sup>th</sup> June		
Project Completion Date	01/07/2024		

# Summary of works in last quarter:

**Noss Head DC Switching Station:** Complete commissioning and energise Noss Head Switching Station in June 2023. Demobilisation of site continues to August 2023.

**Kergord HVDC Converter & AC Substation:** Complete civil works (with exception of final landscaping/reinstatement). Completed HVDC equipment installation and cable pulling/termination works and commenced Stage 1 commissioning for HVDC converters and AC substation. HV test completed for AC Substation – a substantial milestone.

**HVDC Cable:** Complete Offshore HVDC cable installation Campaign 2-c 57 km of cable install and prepare for Campaign 3 cable installation c100km. Campaign 3 loadout completed.

# Summary of works in next quarter:

# Kergord

- Buildings being fully fitted out and testing underway for M&E. The Reactor Hall- GIS substation troughing replacement works will finalise in July 2023, with the works to be finished in the HVDC buildings throughout June and July.
- Siemens BAM will continue with Stage 1 commissioning ongoing throughout July and August with completion planned on Sept 17th 2023.
- Hitachi Earthing of HE Equipment ongoing into July. Equipment testing will commence in the Valve Halls, DC Halls, Reactor Hall and AC Hall. Stage 1 commissioning commencing with SSENT operations and commissioning teams in support.

#### **Noss Head**

- Hitachi defect resolution planned to coincide with outage planned in Summer 2023.
- The civil contractor will continue all snagging and defect correction throughout the period, with as-builts to complete in the month as well.

#### **Cables**

- Campaign 3 cable lay operations commencing at the start of July. Trenching to commence in August along with end to end test in August 2023.
- On Shetland, the Fibre Optic Installation works are now complete, with the fibre optic installed end to end.

Additional	Comments:
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All works remain on schedule.



TORI	Scheme		
SHET-RI-058 - Beauly-Loch Buidhe 400kV OHL	Beauly-Loch Buidhe 400kV OHL Reinforcement		
Reinforcement			
Overview of Works			
This project is to build a new 400kV double circuit	it line between Beauly 2 400kV substation and		
Loch Buidhe 400 kV substation.			
Proposed Consent Submission			
<b>Current Project Phase</b>			
Next Project Phase			
Next Stakeholder Event			
<b>Project Completion Date</b>	31/10/2030		
Summary of works in last quarter:			
Reinforcement will be now be constructed at 400	0 kV based on NOA7 Refresh Option BLN4, with		
an EISD of 2031. Refreshed TORI-058 and LCP do	cumentation being prepared by SP&I.		
Summary of works in next quarter:			
Reinforcement will be now be constructed at 400	kV based on NOA7 Refresh Option BLN4, with		
an EISD of 2031.			
Additional Comments.			
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 with associated equipment. HVDC cables to be			
routed into the sea and then south towards England (landing point to be confirmed). This will be a			
joint project with National Grid.			
Proposed Consent Submission	On hold		
Current Project Phase	On hold		
Next Project Phase	On hold		
Next Stakeholder Event	On hold		
Project Completion Date	<mark>31/10/203</mark> 0		
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-061 - Skye Overhead Line	Skye Overhead Line Reinforcement			
Reinforcement				
Overview of Works				
Construct a new 132kV circuit from Fort Augustu	s 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 Edinba	ane to Ardmore (approximately 160km Fort			
Augustus 132kV substation to Ardmore 132kV su	bstation).			
Proposed Consent Submission				
Current Project Phase				
Next Project Phase				
Next Stakeholder Event				
Project Completion Date	mpletion Date 31/10/2026			
Summary of works in last quarter:				
Summary of works in next quarter:				
Additional Comments:				
N/A				



TORI	Scheme		
SHET-RI-065a - Beauly 132 kV Substation	Beauly 132 kV Substation Redevelopment		
Redevelopment			
Overview of Works			
Establish a new 132kV double busbar arrangeme	nt at Beauly substation and transfer of the		
circuits from the existing 132kV busbar to the new busbar. Connect the new 132kV double busbar			
to the existing 275kV busbar via two new 360MV	'A 275/132kV transformers. Provision of a third		
new 360MVA 275/132kV transformer will be und	dertaken under SHET-RI 065b		
Droposed Consent Submission	<u> </u>		
Proposed Consent Submission			
Current Project Phase			
Next Project Phase			
Next Stakeholder Event			
Project Completion Date	31/10/2024		
Summary of works in last quarter:			
Install and complete the main compound welfare & office facilities.			
Commence construction of the main building.			
Summary of works in next quarter:			
Complete the platform construction.			
Additional Comments:			
N/A			



IORI	Scheme		
ET-RI-065b - Beauly 3rd SGT Replacement Beauly 3rd SGT 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 132k	· · · · · · · · · · · · · · · · · · ·		
substation and transfer the circuits from the exist	ting 132kV busbar to the new busbar.		
Proposed Consent Submission			
Current Project Phase			
Next Project Phase			
Next Stakeholder Event			
Project Completion Date	31/10/2025		
Summary of works in last quarter:			
See TORI-065a			
Summary of works in next quarter:			
See TORI-065a			
Additional Comments:			



TORI	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 busba		
connected to the 400kV busbar via two 1200MVA 400/275kV Supergrid transformers. The 400kV		
busbar is part of SHET-RI-064 works.		
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date		
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.

Proposed Consent Submission	31/08/23
<b>Current Project Phase</b>	Development
Next Project Phase	Refinement
Next Stakeholder Event	August 2023
Project Completion Date	31/10/2027

# Summary of works in last quarter:

Submission of section 37 consent application

PAN events to support Town and Country Planning consent application for substation.

# Summary of works in next quarter:

Submission of TCP Planning Consent application

PAN(2) events to support Town and Country Planning consent application for substation Ongoing engagement with Statutory Authorities regarding TCP Scoping and s37 application feedback

Additional Comments:		
N/A		
,		



TORI SHET-RI-069 - Kinardochy Reactive	Scheme Kinardochy Reactive Compensation	
Overview of Works		
Reactive Compensation is required at a new Kinardochy substation for voltage support on the		

Reactive Compensation is required at a new Kinardochy substation for voltage support on the 275kV Beauly-Denny overhead line. The Reactive Compensation will require a capability of + 325MVAr and -225MVAr.

Proposed Consent Submission	Complete
<b>Current Project Phase</b>	Execution
Next Project Phase	Operate
Next Stakeholder Event	TBC
Project Completion Date	31/08/2024

# Summary of works in last quarter:

Completion of all the outdoor structure bases,

Completion of the internal fit out of the buildings – ready for switchgear assembly,

Delivery of the main Static Compensator Transformer

Site clearance for the commencement of work on the two new permanent terminal tower foundations.

# Summary of works in next quarter:

Erection of the two new terminal towers,

Delivery and initial assembly of the Gas Insulated Switchgear,

Delivery and erection of outdoor structures,

Completion of interior and exterior fencing.

Additional Comments:			
N/A			



TORI SHET-RI-075 - Orkney 132kV Infrastructure Finstown - Ellibster		Scheme Orkney 132kV Infrastructure Finstown - Ellibster	
Overview of Works SHET-RI-075 works forms part of the Orkney 132kV Local Onshore Transmission Infrastructure. The works includes the establishment of the 132 kV Switching Station at Ellibister and a 132kV OHL Trident wood pole connection from Ellibister to Finstown Substation. Note that Finstown 132kV Substation is established as part of SHET-RI-019 works.			
Proposed Consent Submission			
Current Project Phase			
Next Project Phase			
Next Stakeholder Event			
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-079a - Blackhillock Additional	Blackhillock Additional 275/132kV SGTs
275/132kV SGTs	

Reinforce the transmission network at Blackhillock substation by installing additional new 275/132kV Supergrid Transformer and connect the existing 132kV GIS busbar to the 275kV AIS busbar and all associated protection, control and ancilliary equipment. The transformer is to be rated at 360MVA.

Proposed Consent Submission	N/A
<b>Current Project Phase</b>	Refinement
Next Project Phase	Execution
Next Stakeholder Event	N/A
Project Completion Date	30/06/2027

# Summary of works in last quarter:

Prepare works information in advance of issuing as part of an Invitation to Tender (ITT) which is aligned to the Elchies WF connection.

**Summary of works in next quarter:** Progress preparation works information in advance of issuing as part of an Invitation to Tender (ITT) which is aligned to the Elchies WF connection.

# **Additional Comments:**

Project split from SHET-RI-079b. SHET-RI-079 originally consisted of 2 SGTs and has now been split into delivery of 1 initially (SHET-RI-079a) and another later if it is triggered (SHET-RI-079b).



TORI	Scheme
SHET-RI-079b - Blackhillock Additional	Blackhillock Additional SGTs
275/132kV SGTs	

Reinforce the transmission network at Blackhillock substation by installing additional new 275/132kV Supergrid Transformer and connect the existing 132kV GIS busbar to the 275kV AIS busbar and all associated protection, control and ancilliary equipment. The transformer is to be rated at 360MVA.

Project Completion Date	31/10/2026
Proposed Consent Submission	N/A
<b>Current Project Phase</b>	Optioneering
Next Project Phase	Development
Next Stakeholder Event	N/A

# **Summary of works in last quarter:**

Refine outline design and align programme to reinforcement driver.

# Summary of works in next quarter:

Commence engineering development.

#### **Additional Comments:**

Project split from SHET-RI-079a. SHET-RI-079 originally consisted of 2 SGTs and has now been split into delivery of 1 initially (SHET-RI-079a) and another later if it is triggered (SHET-RI-079b).



TORI	Scheme	
SHET-RI-086 - Craig Murrail Switching Station	Craig Murrail Switching Station	
Overview of Works		
Construct a new 275/33kV substation on the Inve	eraray to Crossaig OHL near Lochgilphead. The	
Port Ann GSP is to be transferred to the new Crai	g Murrail Substation via new 33kV cable circuits.	
Proposed Consent Submission	Granted	
<b>Current Project Phase</b>	Refinement	
Next Project Phase	Execution	
Next Stakeholder Event	TBC	
Project Completion Date	30/11/2028	
Summary of works in last quarter:		
The tender process was concluded and preparations for awarding the initial works contracts.		
Planning consent was granted in June 2023.		
Summary of works in next quarter:		
Initial Works contract to be awarded and commence main procurement and design activities.		
Undertake activities in preparation for governance review to progress to the Execution phase.		
Additional Comments:		
N/A		
1		



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 275kV double circuit OHL between Loch		
Buidhe and Dounreay (approximately 87km). The	·	
90°C which will increase the thermal capability of	the circuit.	
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/08/2025	
Summary of works in last quarter:	, ,	
SP&I continuing to develop initial needs case of in	ncreasing the operating temperature on the	
existing 275 kV circuit		
Summary of works in next quarter:		
SP&I continuing to develop initial needs case of increasing the operating temperature on the		
existing 275 kV circuit		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-089 - Farigaig SGT2 Upgrade	Farigaig SGT2 Upgrade

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

Proposed Consent Submission	No consent required for TORI. S37 Consent for
	NEST OHL in place. New application for S37
	Consent for steel trident OHL in process for
	Aberarder
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	N/A
Project Completion Date	30/08/2025

## Summary of works in last quarter:

SSER have purchased the Aberarder windfarm and will be delaying the TORI energisation date to August 2025. They are also considering reverting to an online Tx replacement.

# Summary of works in next quarter:

NGESO have awarder SSER a 3 month extension to their modapp which on 31<sup>st</sup> July will determine an off or on-line Tx replacement

### **Additional Comments:**

Order for SGT has been placed with manufacturer. Delivery in May 2025.



TORI	Scheme
SHET-RI-090 - Coupar Angus - Errochty 132kV	Coupar Angus - Errochty 132kV Reconductoring
Reconductoring	
O and the of March	

Reconductor approximately 15.4km of the existing 132kV double circuit OHL between Errochty and Clunie substations. This double circuit is to be reconductored with UPAS conductor (1 x 300mm2) and will operate at  $75^{\circ}$ C to give a minimum summer pre-fault rating of 176MVA.

Proposed Consent Submission	TBD
<b>Current Project Phase</b>	Project Team to be assigned
Next Project Phase	Optioneering
Next Stakeholder Event	N/A
Project Completion Date	31/10/2026

# Summary of works in last quarter:

Project on hold.

# Summary of works in next quarter:

Project has proceeded through internal governance and will be assigned to a project team

# **Additional Comments:**



TON	C.L.	
TORI	Scheme	
SHET-RI-093 - East Coast Phase 2 - 400kV	East Coast Phase 2 - 400kV Reinforcement	
Reinforcement		
Overview of Works	Alexandra de la companya de la compa	
Upgrade the existing Blackhillock / Rothienorman	1 / Kintore / Alyth	
/ Kincardine east coast 275kV circuits to 400kV c	apparation Establish a new 400kV double bushar	
at Kintore to enable this upgrade.	peration. Establish a new 400kV double busbar	
at Miltore to chable this approac.		
This upgrade also interfaces at Blackhillock 400k\	V Substation and with Scottish Power	
	will be responsible for all the 400kV OHL upgrade	
and substation works beyond the SSEN Transmis.	, , ,	
·	, , , ,	
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2026	
Summary of works in last quarter:		
Kintore Substation Works – TBC		
Fetteresso 400kV upgrade –		
East Coast OHL 400kV Upgrade Works – Access a	and foundation ungrade works continue	
	ayed but now underway and progressing well. No	
impact on completion date.	ryed but now underway and progressing well. No	
impact on completion date.		
Blackhillock PSTs –		
Summary of works in next quarter:		
Kintore Substation Works –		
Fetteresso 400kV upgrade – Foundation upgrade, and access works continue. Re-condcutoring		
works on XS2 circuit due to commence 17 <sup>th</sup> July.		
East Coast OHL 400kV Upgrade Works –		
Blackhillock PSTs –		
DIACKIIIIOCK P315 —		
Additional Comments:		
N/A		
IV/T		



TORI	Scheme	
SHET-RI-106b - Connagill 2nd SGT	Connagill 2nd SGT	
Overview of Works		
At Connagill substation, install a 2nd 275/132kV 3	360MVA supergrid transformer, to enable the	
connection of wind generation in the local area to	the Dounreay – Loch Buidhe 275kV circuit.	
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	18/08/2025	
Summary of works in last quarter:		
Issue ITT for the SGT and continue the works information for the remaining substation works.		
Summary of works in next quarter:		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-107 - North Argyll - Inveraray	North Argyll - Inveraray Reinforcement	
Reinforcement		
Overview of Works		
Reinforce the double circuit overhead line betwe	en North Argyll 275/132kV substation	
(established as part of SHET-RI-013) and the exist	ting Inveraray to Crossaig double circuit overhead	
(rebuilt as part of SHET-RI-050), approximately 2.	.8km away from Inveraray.	
	T	
Proposed Consent Submission	Submitted	
Current Project Phase	Refinement	
Next Project Phase	Execution	
Next Stakeholder Event	tbc	
Project Completion Date	30/11/2028	
Summary of works in last quarter:		
Initial Works (detailed design development) activity underway.		
Summary of works in next quarter:		
Continue Initial Works (detailed design development).		
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	
•	on 132kV double circuit overhead line (PCN/CAS).	
	=0= (, 6)	
Proposed Consent Submission	N/A	
<b>Current Project Phase</b>	N/A	
Next Project Phase	N/A	
Next Stakeholder Event	N/A	
Project Completion Date	31/10/2022	
Summary of works in last quarter:		
On Hold		
Summary of works in next quarter:		
On Hold		
Additional Comments		
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	rind generation in the area.	
	I	
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
<b>Project Completion Date</b>	01/07/2026	
Summary of works in last quarter:		
Project on hold		
Summary of works in next quarter:		
Project on hold		
Additional Comments:		
N/A		



TORI	Scheme		
SHET-RI-116 - Kergord - Yell 132kV Connection	Kergord - Yell 132kV Connection		
Overview of Works	<u> </u>		
On Shetland install a new 132kV single circuit bet	On Shetland install a new 132kV single circuit between the Kergord 132kV substation (established		
as part of SHET-RI-053) and a new 132kV switchir	ng station on Yell, to enable the connection of		
renewable generation.			
	T 0 4 000 4		
Proposed Consent Submission	Q1 2024		
Current Project Phase	Development		
Next Project Phase	Delivery		
Next Stakeholder Event	Q3 2023		
Project Completion Date	01/04/2027		
Summary of works in last quarter:			
Marine survey ongoing			
	Final design for Kergord platform entry completes.		
Route review Shetland mainland ongoing.			
OHL & UGC design options ongoing.			
Environmental assessment activities ongoing.			
Summary of works in next quarter:			
Public consultation on route option			
Environmental assessment activities ongoing.			
Completion of Marine activites			
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 rate	d busbar and replace with a new 4000A rated	
275kV double busbar complete with two bus cou	plers, one bus section and busbar selection on all	
feeder bays.		
Proposed Consent Submission		
<b>Current Project Phase</b>		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	18/11/2022	
Summary of works in last quarter:		
Project will be closed by end of May, some items to be tidied up before leaving site		
Summary of works in next quarter:		
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 second generator at Corriemoillie.		
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2024	
Summary of works in last quarter:		
Continued discussions on how best to proceed with project		
Summary of works in next quarter:		
Additional Comments:		
N/A		





TORI	Scheme
SHET-RI-121 - Errochty - Charleston 132kV	Charleston - Abernethy 132kV Reconductoring
Reconductoring	

Reconductor approximately 25km of 132kV OHL between Abernethy 132kV substation and Charleston 132kV substation. The circuit should be reconductored with a conductor capable of a minimum summer pre-fault rating of 150MVA.

Proposed Consent Submission	TBD
<b>Current Project Phase</b>	Awaiting Project Team
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2028

# Summary of works in last quarter:

Continuation of high-level project development, along with initial internal governance activities.

# Summary of works in next quarter:

Now Errochty – Charleston has proceeded through initial internal governance and awaiting Project team allocation

## **Additional Comments:**



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 substation will be radially connected into Loch			
Buidhe 132kV substation via the existing 132kV double circuit. TORI-123 project is to reconductor this 132kV double circuit overhead line between Shin substation and Loch Buidhe substation. The double circuit should be reconductored with a minimum summer pre-fault rating of 190MVA.			
Proposed Consent Submission			
Current Project Phase			
Next Project Phase			
Next Stakeholder Event			
Project Completion Date	31/10/2030		
Summary of works in last quarter:			
Summary of works in next quarter:			
Additional Comments:			
N/A			
,			



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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 Kergord 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.		
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2026	
Summary of works in last quarter:		
Project on hold.		
Commence of conduction and accordance		
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.
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	TBC if 2 <sup>nd</sup> circuit is required
Summary of works in last quarter:	
Project on hold	
Summary of works in next quarter:	
Project on hold	
Additional Comments:	
N/A	



TORI	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	
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
TORI on hold as this is not currently part of HND recommended projects.		
Summary of works in next quarter:		
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 with the construction of a new HVDC link from the new Spittal 2 275 kV substation (delivered under TORI SHET-RI-153) to Peterhead 400 kV substation.	
The HVDC link is approximately 145 km from Spittal 2 to Peterhead (115 km subsea cable and 30	
km underground cable).	
The works will be coordinated with the NOA recommendations	
Proposed Consent Submission	
<b>Current Project Phase</b>	
Next Project Phase	
Next Stakeholder Event	
<b>Project Completion Date</b>	31/10/2030
Summary of works in last quarter:	
TORI to be updated to 2 GW bi-pole HVDC link w	ith metallic return as per NOA7 Refresh option
PSDC.	
Summary of works in next quarter:	
Additional Community	
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 Farigai	g substation to a 240MVA SGT, to facilitate the	
connection of generation in the area.		
<b>Proposed Consent Submission</b>		
<b>Current Project Phase</b>		
Next Project Phase		
Next Stakeholder Event		
<b>Project Completion Date</b>	01/07/2025	
Summary of works in last quarter:		
Prepare and Issue ITT to Substation Contractor.		
Summary of works in next quarter:		
Additional Comments:		



TORI	Scheme
SHET-RI-130a - North Argyll - Craig Murrail	North Argyll - Craig Murrail 275kV Operation
275kV Operation	

Reinforce the network in the Argyll and Kintyre network to enable 275kV operation of the network from Creag Dhubh substation (established as part of SHET-RI-013) to Craig Murrail Substation. This will require the replacement of the An Suidhe and Crarae substations to enable connection onto the overhead line operating at 275kV.

Proposed Consent Submission	Granted
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	TBC
Project Completion Date	31/11/2028

# Summary of works in last quarter:

The tender process was concluded and preparations for awarding the initial works contracts. Planning consents were granted this quarter.

## **Summary of works in next quarter:**

Initial Works contract to be awarded and commence main procurement and design activities. Undertake activities in preparation for governance review to progress to the Execution phase.

Additional Comments:		
N/A		
IN/A		



TORI	Scheme
SHET-RI-130b - Craig Murrail - Crossaig 275kV	Craig Murrail - Crossaig 275kV Operation
Operation	
Overview of Works	

Reinforce the network in the Argyll and Kintyre network to enable 275kV operation of the network from Craig Murrail substation to a new double busbar substation to be established at Crossaig. This requires the construction of a new Crossaig North 275/132kV Substation adjacent to the existing Crossaig Substation.

5 5	
Proposed Consent Submission	Granted
Current Project Phase	Refinement
Next Project Phase	Execution
Next Stakeholder Event	TBC
Project Completion Date	30/11/2028

## Summary of works in last quarter:

The tender process was concluded and preparations for awarding the initial works contracts. Planning consent was granted in June 2023.

### Summary of works in next quarter:

Initial Works contract to be awarded and commence main procurement and design activities. Undertake activities in preparation for governance review to progress to the Execution phase.

dditional Comments:	
/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.		
Proposed Consent Submission		
<b>Current Project Phase</b>		
Next Project Phase		
Next Stakeholder Event		
<b>Project Completion Date</b>	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:		
On Hold		
Additional Comments:		
N/A		



TORI	Scheme	
SHET-RI-132 - Beauly-Blackhillock High	Beauly-Blackhillock High Temperature	
Temperature Reconductoring	Reconductoring	
Overview of Works		
Reconductor the Beauly - Blackhillock 275 kV double circuit line with high temperature		
conductors. The circuits to be reconductored comprise the existing 275kV overhead lines between		
Beauly and Knocknagael, and between Knocknag	gael and Blackhillock.	
The substation at Knocknagael is adjacent to the	existing Foyers line tee point.	
Proposed Consent Submission		
<b>Current Project Phase</b>		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	30/07/2027	
Summary of works in last quarter:		
ESO concluded Cost Benefit Analysis to determin	e the most economic and efficient solution	
Summary of works in next quarter:		
Determine way forward based on the ESO CBA analysis		
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.
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
<b>Project Completion Date</b>	30/07/2027
Summary of works in last quarter:	
Project put on hold.	
Summary of works in next quarter:	
Project put on hold.	
Additional Comments:	
N/A	



TORI	Scheme	
SHET-RI-134 – Beauly-Denny 2 <sup>nd</sup> Circuit upgrade	Beauly-Denny 2 <sup>nd</sup> Circuit upgrade from 275kV	
from 275kV to 400kV	to 400kV	
Overview of Works		
Upgrade the existing Beauly / Fasnakyle/ Fort Augustus / Tummel-Kinardochy / Braco West /		
Bonny Bridge 275kV circuit to 400kV, mirroring the ratings of the existing 400kV circuit, along the		
route		
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2029	
Summary of works in last quarter:		
Determine if wayleaves are required to be updated for new operating voltage		
Interface programmes to be created including new sites on Beauly - Denny line		
Summary of works in next quarter:		
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 t	o allow space provision for additional bays.
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
Project Completion Date	31/09/2027
Summary of works in last quarter:	
Change control completed to reflect revised cor	nections which require the additional bays,
pushing completion back from 2024 to 2027.	
Further investigation required to determine if n	eed for project remains.
This is pending findings of ongoing system studi	
Change Control required to reflect change in sco	ppe and drivers, update completion date and
budgets.	
Summary of works in next quarter:	
Additional Comments:	
	emains. There is opportunity to eliminate need for
additional bays with system studies required to support confirmation. These studies are pending	

outputs of HND2.



TORI	Scheme
SHET-RI-137 - Blackhillock-New Deer-Peterhead	Blackhillock-New Deer-Peterhead 400kV OHL
400kV OHL	

Establish a new 400kV double circuit overhead line from Blackhillock to New Deer (60km) and New Deer to Peterhead (22km). In an update from the initial scope, the line is to connect to new 400kV busbars at Blackhillock, New Deer and Peterhead.

<b>Proposed Consent Submission</b>	01/11/2024
<b>Current Project Phase</b>	Design
Next Project Phase	Consenting
Next Stakeholder Event	November 2023
Project Completion Date	31/10/2030

### Summary of works in last quarter:

Public consultation for preferred route.

Appointment of ECI contractor.

Progression through Gate 1.

## Summary of works in next quarter:

Confirmation of proposed route.

Identification and development of alignment options.

Initiation of ECI works.

## **Additional Comments:**

Project is to connect to proposed 'Blackhillock 2' (TORI199) 'New Deer 2' 400kV substation (SHET-RI-144) and 'Peterhead 2' 400kV substation, to be developed in separate projects, with SHET-RI-137 engaging closely to provide optimised solution.



TORI	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	on busbar at New Deer 400kV Substation.
Proposed Consent Submission	N/A
Current Project Phase	Opportunity
Next Project Phase	Development
Next Stakeholder Event	N/A
Project Completion Date	03/09/2029
Summary of works in last quarter:	
Project scope refinement, assessment of cur	rent substation design to inform number of bays
available to enable New Deer 2 Substation co	onnection.
Summary of works in next quarter:	
Continuation of engineering, with engageme	ent from site operations.
	·
Additional Comments:	
Additional Comments: N/A	



Scheme
2GW HVDC Link New Deer to England

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.

N/A		
initial internal governance		
Optioneering		
TBD		
31/10/2033		

# Summary of works in last quarter:

Continuation of high-level project development, along with initial internal governance activities.

## **Summary of works in next quarter:**

Continuation of high-level project development, along with initial internal governance activities.

# **Additional Comments:**



TORI	Scheme		
SHET-RI-140 - Thurso South 275 kV Substation	Thurso South 275 kV Substation		
	Redevelopment		
Redevelopment	Redevelopment		
Overview of Works			
Redevelop the existing Thurso South 275 kV subs	tation into a new 275 kV double busbar		
arrangement.			
Proposed Consent Submission			
<b>Current Project Phase</b>			
Next Project Phase			
Next Stakeholder Event			
<b>Project Completion Date</b>	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 De	er.		
Proposed Consent Submission			
Current Project Phase			
Next Project Phase			
Next Stakeholder Event			
<b>Project Completion Date</b>	31/10/2031		
Summary of works in last quarter:			
Option to be withdrawn and replaced by reinforcement SHET-RI-128.			
Summary of works in next quarter:			
Additional Comments:			
N/A			



TORI	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.			
Proposed Consent Submission			
Current Project Phase			
Next Project Phase			
Next Stakeholder Event			
<b>Project Completion Date</b>	31/10/2031		
Summary of works in last quarter:			
Option to be withdrawn and replaced by reinfor	cement SHET-RI-128.		
Summary of works in next quarter:			
Additional Comments:			
N/A			



TORI	Scheme
SHET-RI-143 - Kergord - Gremista GSP 132kV	Kergord - Gremista GSP 132kV Infrastructure
Infrastructure	

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.

Proposed Consent Submission	All submitted
<b>Current Project Phase</b>	Delivery
Next Project Phase	Operation
Next Stakeholder Event	TBC
Project Completion Date	30/04/2025

## Summary of works in last quarter:

Design ongoing

SHEPD civils construction ongoing to complete GSP platform

ECU final approval complete for s37 OHL planning

Mobilisation activities ongoing for construction start

### Summary of works in next quarter:

SHEPD civils due to complete August 2023 and GSP platform handed over for construction start OHL s37 pre-commencement conditions discharge and OHL construction start UGC construction start July 2023

Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-144 - New Deer 2 400kV Substation	New Deer 2 400kV Substation

Establish a new 400kV substation close to the existing New Deer 400kV substation and tie in the proposed 400kV circuits from Blackhillock to New Deer and New Deer to Peterhead (SHET-RI-137).

Proposed Consent Submission	08/11/2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	November 2023
Project Completion Date	31/10/2029

# Summary of works in last quarter:

- Appoint ECI contractor.
- Progress discussions with landowner at preferred site to secure an Options Agreement.
- Develop substation design.

# Summary of works in next quarter:

- GI Contractor Works.
- Environment Impact Assessment.
- Cable alignment to New Deer Substation.

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 with 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.			
Proposed Consent Submission	N/A		
Current Project Phase	initial internal governance		
Next Project Phase	Optioneering		
Next Stakeholder Event TBD			
Project Completion Date 31/10/2033			
Summary of works in last quarter:			
Continuation of high-level project development,	along with initial internal governance activities.		
Summary of works in next quarter:			
Continuation of high-level project development,	along with initial internal governance activities.		
Additional Comments:			



TORI	Scheme
SHET-RI-147 - Tealing 400kV Substation	Tealing 400kV Substation
Overview of Works	•
Establish a new 400kV substation close to the	e existing Tealing 275kV Substation.
<b>Proposed Consent Submission</b>	September 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	November 2023
Project Completion Date	31/10/2031
Summary of works in last quarter:	
Undertake public consultation on preferred site and progress environmental surveys and design.	
Summary of works in next quarter:	
Progress EIA Scoping, undertake ground investigations and progress initial design.	
Progress EIA Scoping, undertake ground inve	stigations and progress initial design.
Progress EIA Scoping, undertake ground inve	stigations and progress initial design.
Progress EIA Scoping, undertake ground inve	stigations and progress initial design.
Progress EIA Scoping, undertake ground inve	stigations and progress initial design.
	stigations and progress initial design.



TORI	Scheme
SHET-RI-148 - Alyth – Tealing 400kV	Alyth – Tealing 400kV Upgrade
Reinsulation	
Overview of Works	
Reconductor, reinsulate and any necessary up	grades to the 275kV double circuit overhead line
between Alyth and Tealing for 400kV operatio	·n.
Proposed Consent Submission	September 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	November 2023
Project Completion Date	31/10/2031
Summary of works in last quarter:	
Commence initial tower and foundations cond	litions surveys and clearance checks.
Summary of works in next quarter:	
Progress initial tower and foundations conditions surveys and clearance checks.	
Additional Comments:	
N/A	



TORI	Scheme	
SHET-RI-149 - Tealing – Glenrothes Westfield	Tealing – Glenrothes Westfield 400kV Upgrade	
400kV Rebuild		
Overview of Works		
Reconductor, reinsulate and any necessary upgra	des to the 275kV double circuit overhead line	
between Tealing and Glenrothes-Westfield for 400kV operation.		
Proposed Consent Submission	September 2024	
Current Project Phase	Development	
Next Project Phase	Refinement	
Next Stakeholder Event	November 2023	
Project Completion Date	31/10/2031	
Summary of works in last quarter:		
Commence initial tower and foundations conditions surveys and clearance checks.		
Summary of works in next quarter:		
Progress initial tower and foundations conditions surveys and clearance checks.		
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.		
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2029	
Summary of works in last quarter:		
Continuation of high-level project development,	along with initial internal governance activities.	
Summary of works in next quarter:		
Has gone through internal governance and will be	e assigned to a development PM	
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-151 - Peterhead – St Fergus 132kV Line	Peterhead – St Fergus 132kV Line Works
Works -	

Overhead line works to bring the 132kV circuit to ground, including any required modifications. Design and installation of one 132kV circuit breaker with three 132kV disconnectors and associated protection and control equipment for each of the two circuits.

Proposed Consent Submission	N/A
<b>Current Project Phase</b>	initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	31/10/2029

# Summary of works in last quarter:

Continuation of high-level project development, along with initial internal governance activities.

## **Summary of works in next quarter:**

Continuation of high-level project development, along with initial internal governance activities.

## **Additional Comments:**

N/A



TORI	Scheme	
SHET-RI-153 - Spittal 2 400kV Substation	Spittal 2 400kV Substation	
Overview of Works		
Construct a new 400 kV substation 'Spittal 2' close to the existing Spittal 275 kV substation in		
Caithness.		
Proposed Consent Submission		
<b>Current Project Phase</b>		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2028	
Summary of works in last quarter:		
Refinement of site options and selection of preferred site based on consultation feedback and		
field based studies		
Progression and development of site design and configuration		
Summary of works in next quarter:		
Works in the next quarter will include, Site design development and refinement, GI and site		
investigations, design studies and surveys and community/stakeholder engagement workshops		
and events		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-155 - Peterhead - Persley Tee 275kV	Peterhead - Persley Tee 275kV Works
Works	
Overview of Works	
Overhead line works to bring the VP 275kV overh	nead line circuit to ground, including any required
tower modifications. Design and installation of or	ne 275kV bus bar including a circuit breaker with
four 275kV disconnectors and associated protect	ion and control equipment.
Proposed Consent Submission	Q4 2023
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	TBC
Project Completion Date	31/05/2027
Summary of works in last quarter:	
Continued engagement with the associated Deve	loper.
Ongoing Environmental and Engineering works.	
Summary of works in next quarter:	
Continued engagement with the associated Deve	loper.
Ongoing Environmental and Engineering works.	
Additional Comments:	

N/A



TORI	Scheme
SHET-RI-165 - Alcemi Substation 400kV	Alcemi Substation 400kV Switchgear
Switchgear	

Overhead line works to bring the 400kV circuit to ground, including any required modifications. Design and installation of one 400kV circuit breaker with three 400kV disconnectors and associated protection and control equipment for the circuit.

Proposed Consent Submission	Q4 2024 / Q1 2025
<b>Current Project Phase</b>	Opportunity Assessment
Next Project Phase	Development
Next Stakeholder Event	TBC
Project Completion Date	31/10/2029

# Summary of works in last quarter:

Continued engagement with the Developer.

Continuation of high-level project development, along with initial internal governance activities.

# Summary of works in next quarter:

Continued engagement with the Developer.

Continuation of high-level project development, along with initial internal governance activities.

Additional Comments:	
N/A	



TORI	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.		
Dranged Consent Submission		
Proposed Consent Submission Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	30/04/2026	
Summary of works in last quarter:		
Continued engagement with the associated Developer.		
Ongoing Environmental and Engineering works.		
Summary of works in next quarter:		
Continued engagement with the associated Developer.		
Ongoing Environmental and Engineering works.		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-167 - Keith 275kV Sync Comp	Keith 275kV Sync Comp
Overview of Works	
Installation of a new 275kV disconnector swit	tch on the 275kV cable circuit side of the 275/132kV
Super Grid Transformer at Keith substation.	
Proposed Consent Submission	N/A
<b>Current Project Phase</b>	Internal Governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
Project Completion Date	01/08/2024
Summary of works in last quarter:	
Continuation of high-level project development, along with initial internal governance activities.	
Summary of works in next quarter:	
On Hold	
Additional Comments:	
N/A	



TORI	Scheme
SHET-RI-168 - Melvich to Connagill 132kV	Melvich to Connagill 132kV Connection
Connection	

Transmission reinforcement works associated with the construction of a new 5.2 km, 132 kV overhead line between Melvich Community wind farm 132/33 kV substation and Connagill substation. The works include the connection to a 132kV bay at Connagill and a single 132kV busbar at Melvich Community Wind Farm.

Project Completion Date	31/10/2027
Proposed Consent Submission	Jan-24
<b>Current Project Phase</b>	Opportunity
Next Project Phase	Development
Next Stakeholder Event	

# Summary of works in last quarter:

Engaged with interfacing Developers.

Reviewed route options alongside wider Connagill Cluster works.

## Summary of works in next quarter:

Determine requirement for this TORI alongside SHET-RI-191.

Conclude wider optioneering works for connection into Connagill and develop the overhead line solution to suit.

#### **Additional Comments:**

It is expected that this TORI will ultimately be superseded SHET-RI-191 - Strathy Switching Collector Station Connagill-Strathy double circuit OHL

TORI	Scheme	
SHET-RI-170 – 3 <sup>rd</sup> SGT at Keith 275/132kV	3 <sup>rd</sup> SGT at Keith 275/132kV	
Overview of Works		
Install a new 480MVA 275/132/33kV SGT at Keith 132kV Substation and approx. 2.5km of Cable between		
the new SGT and Blackhillock 275kV Substation.		
Project Completion Date 31/10/2026		
Proposed Consent Submission	N/A	
Current Project Phase	Opportunity	
Next Project Phase	Development	
Next Stakeholder Event	N/A	
Summary of works in last quarter:		
An options assessment of the project concluded the requirement for scope change due to		
substation constraints. A change control has been raised to close this scheme, enabling a load		
management scheme to be taken forward.		
Summary of works in next quarter:		
Creation of a load management scheme. Commencement of further engineering development.		
Additional Comments:		



TORI	Scheme	
SHET-RI-171 - OHL Cloiche / Dell to Melgarve	OHL Cloiche / Dell to Melgarve	
Overview of Works		
new double circuit 132kV overhead line to facilit	ate connection of Cloiche Wind farm and Dell	
Wind farm to the existing Melgarve substation.		
Project Completion Date	30/04/2026	
Proposed Consent Submission	Nov 23	
Current Project Phase	Development	
Next Project Phase	Refinement	
Next Stakeholder Event	N/A	
Summary of works in last quarter:		
Phase 2 intrusive site investigation works.		
Commence Phase 2 environmental surveys to support EIA preparation.		
Issue Report on Consultation		
Issue Scoping and Screening requests to inform EIA and section 37 consent application.		
Summary of works in next quarter:		
Use SI data to finalise design		
Design freeze to allow for complete of EIA		
Preparation of s37 submission		
Additional Comments:		
N/A		



TORI	Scheme
SHET-RI-172 - Dalwhinnie 400kV Substation	Dalwhinnie 400kV Substation
Overview of Works	
<b>Proposed Consent Submission</b>	
<b>Current Project Phase</b>	Opportunity
Next Project Phase	Development
Next Stakeholder Event	
Project Completion Date	31/10/2029
Summary of works in last quarter:	
Project to be kicked off and routeing optioneering	g process to be started.
Summary of works in next quarter:	
Additional Comments:	
N/A	



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



TORI	Scheme	
SHET-RI-174 -Upgrade of Keith SGTs	Upgrade of Keith SGTs	
Overview of Works	1	
Replace the existing 132/275kV 240MVA SGTs at Keith 132kV Substation with larger 480/360MVA		
units.		
Proposed Consent Submission	N/A	
Current Project Phase	initial internal governance	
Next Project Phase	Optioneering	
Next Stakeholder Event	TBD	
Project Completion Date	31/10/2028	
Summary of works in last quarter:		
Continuation of high-level project development, along with initial internal governance activities.		
Summary of works in next quarter:		
Continuation of high-level project development,	along with initial internal governance activities.	
Additional Comments:		
N/A		



TODI	Calcana	
TORI	Scheme	
SHET-RI-176 -Pauls Hill/Glenfarclas Circuit Turn	Pauls Hill/Glenfarclas Circuit Turn In	
In		
Overview of Works		
Move the existing open point from Keith 132kV S	ubstation to Pauls Hill substation and then turn	
in the Pauls-Hill/Glenfarclas circuit to Blackhillock	: 132kV Substation.	
Proposed Consent Submission	TBC	
<b>Current Project Phase</b>	Opportunity	
Next Project Phase	Development	
Next Stakeholder Event	TBC	
Project Completion Date	30/06/2028	
Summary of works in last quarter:		
Continuation of high-level project development,	proceeding through initial internal governance	
activities.		
Summary of works in next quarter:		
Continue project development, including fully res	sourcing the team and securing funding.	
Engage engineering consultants on the project, up until the end of the Development phase.		
Additional Comments:		
N/A		



TORI	Scheme	
TORI		
SHET-RI-177 - Tomatin Additional SGTs	Tomatin Additional SGTs	
Overview of Works		
Install a new 275kV indoor double busbar and two additional 275/132kV Super Grid Transformers		
at the Tomatin 275/132kV Substation.		
Proposed Consent Submission	April 25	
Current Project Phase	Opportunity	
Next Project Phase	Development	
Next Stakeholder Event	November 23	
Project Completion Date	31/10/2028	
Summary of works in last quarter:		
Engagement with Developer.		
Site visit with project team commenced. Initial platform extensions identified.		
·		
Summary of works in next quarter:		
Development to continue with optioneering of any site extension to Tomatin substation.		
Additional Comments:		



TORI	Scheme	
SHET-RI-178 - 275kV Switchgear on Blackhillock	SHET-RI-178 - 275kV Switchgear on Blackhillock	
to Kintore Circuit	to Kintore Circuit	
Overview of Works		
Creation of a new Tee off compound containing three disconnectors and a circuit breaker on the		
Blackhillock to Kintore 275kV OHL.		
Proposed Consent Submission	27/11/24	
<b>Current Project Phase</b>	Opportunity	
Next Project Phase	Development	
Next Stakeholder Event	TBC	
Project Completion Date	31/10/2028	
Summary of works in last quarter:		
Continuation of high-level project development,	Proceeding through initial internal governance	
activities.		
Summary of works in next quarter:		
Continue project development, including fully res	sourcing the team and securing funding.	
Engage engineering consultants on the project, up until the end of the Development phase.		
2.1.50.50 c.1.5.1.1.5 co.1.5.01.01.01.01.01.01.01.01.01.01.01.01.01.		
Additional Comments:		
Additional Comments.		



TORI	Scheme
SHET-RI-179 - Construction of a new Peterhead	Construction of a new Peterhead 132kV
132kV Substation	Substation

Construct a second 132kV Substation at Peterhead

Proposed Consent Submission	Q3 2024
Current Project Phase	Development
Next Project Phase	Refinement
Next Stakeholder Event	Q1 2024
Project Completion Date	31/07/2028

### Summary of works in last quarter:

Second public consultation event held in April 2023, review of stakeholder feedback, confirmation of site location.

Finalisation of site selection report.

Continued engagement with landowners, stakeholders and statutory consultees.

Bird / ecology surveys to commence.

Appointment of Ground Investigation contractor.

## Summary of works in next quarter:

Ground Investigation works to commence on site end June 2023.

Early Contractor Engagement to finalise with appointments to be in place by end of summer 2023. Design development of 132kV substation layout and how the layout interfaces with the other schemes in the Peterhead 2030 development.

Other surveys to be carried out including environmental, topographic/utility surveys, noise surveys.

#### **Additional Comments:**

Community Liaison Group (CLG) to be set up for the Peterhead 2030 development works.



TORI	Scheme
SHET-RI-180 - Second 400kV Peterhead	Second 400kV Peterhead Substation
Substation	

Construct a second 400kV Substation at Peterhead

Proposed Consent Submission	Q3 2024
<b>Current Project Phase</b>	Development
Next Project Phase	Refinement
Next Stakeholder Event	Q3/Q4 (OHL), Q1 2024 (Substation)
Project Completion Date	31/07/2028

## Summary of works in last quarter:

Conclusion of site selection process.

Continued engagement with landowners, stakeholders and statutory consultees.

Preparation for 2<sup>nd</sup> public consultation event in April 2023.

Review and progress 2<sup>nd</sup> Consultation feedback.

Bird / ecology surveys to commence.

Ongoing discussion with Contractors as part of early engagement proposals.

## Summary of works in next quarter:

Ground Investigation works to commence on site end June 2023.

Early Contractor Engagement to finalise with appointments to be in place by end of summer 2023. Design development of 400kV substation layout and how the layout interfaces with the other schemes in the Peterhead 2030 development.

Further development of OHL works in the Peterhead area.

Other surveys to be carried out including environmental, topographic/utility surveys, noise surveys.

### **Additional Comments:**

Community Liaison Group (CLG) to be set up for the Peterhead 2030 development works.



TORI	Scheme
SHET-RI-181 - Beauly to Loch Buidhe to	Beauly to Loch Buidhe to Dounreay 400kV
Dounreay 400kV	

This project is looking to create a 400kV connection between Beauly and Dounreay through Loch Buidhe Substation. This requires the establishment of two 400kV busbars one in each of the substations Loch Buidhe and Dounreay, the installation of two SGTs in each of those substations, and 153km of 400kV double circuit OHL

Proposed Consent Submission	
<b>Current Project Phase</b>	Optioneering
Next Project Phase	Development
Next Stakeholder Event	
Project Completion Date	

## Summary of works in last quarter:

Refinement of route options based on consultation feedback and field based studies Identification of alignment options

### Summary of works in next quarter:

Development and refinement of OHL routes, publication of report on consultation, identification of alignment options, technology studies and stakeholder engagement events and workshops.

## **Additional Comments:**

This project has been superseded by two TORIs to build 400 kV infrastructure between Beauly and Spittal as recommended by HND.



TORI	Scheme
SHET-RI-182 - Loch Buidhe to Spittal 2 400kV	Loch Buidhe to Spittal 2 400kV Reinforcement
Reinforcement	
Overview of Works	
Construction of a new 400 kV double circuit OH	L between Loch Buidhe and Spittal
Proposed Consent Submission	
Current Project Phase	Optioneering
Next Project Phase	Development
Next Stakeholder Event	
Project Completion Date	
Summary of works in next quarter:	
Development and refinement of OHL routes, publication of report on consultation, identification of alignment options, technology studies and stakeholder engagement events and workshops.	
Additional Comments:	



TORI	Scheme
SHET-RI-183 - SHET-RI-183-New 132kV Dundee	SHET-RI-183-New 132kV Dundee Substation
Substation	
Overview of Works	
Construction of a new 132kV double busbar subs	tation in Dundee to replace Dudhone GSP. This
busbar will be fed by turning in the current Dudhe	·
busbar will be rea by turning in the current butin	ope/winton or craigie 132kv circuits.
Proposed Consent Submission	Spring 2024
Current Project Phase	Opportunity Assessment
Next Project Phase	Development
Next Stakeholder Event	November 2023
Project Completion Date	31/10/2027
Summary of works in next quarter:	
·	
Progressing site selection process, engaging relev	rant stakeholders and developing initial design
·	rant stakeholders and developing initial design
Progressing site selection process, engaging relev	rant stakeholders and developing initial design
Progressing site selection process, engaging relev	rant stakeholders and developing initial design
Progressing site selection process, engaging relev	rant stakeholders and developing initial design
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Progressing site selection process, engaging relevand site requirements.	rant stakeholders and developing initial design



TORI	Scheme	
SHET-RI-184-Coupar Angus 2 Tee V2	Coupar Angus 2 Tee V2	
Overview of Works		
Establish 2x new 132 kV tee points of the HCS/HCN circuits between Coupar Angus GSP and		
Tealing/Charleston Tee for the connection to a new Coupar Angus 2 132/33 kV GSP substation.		
Proposed Consent Submission	N/A	
<b>Current Project Phase</b>	Assignment of Project team	
Next Project Phase	Optioneering	
Next Stakeholder Event	TBD	
Project Completion Date	31/08/2029	
Company of works in most acceptant		
Summary of works in next quarter: Initial internal governance complete. Project team to be assigned.		
	m to be assigned.	



TORI	Scheme	
SHET-RI-187-St Fergus 132kV Substation	St Fergus 132kV Substation	
Overview of Works		
Establish a new 132kV St Fergus double busba	r substation at the site of the existing St Fergus	
132kV Switching Station. Split the double busbars and establish an open point between them.		
Proposed Consent Submission	N/A	
<b>Current Project Phase</b>	Initial internal governance	
Next Project Phase	Optioneering	
Next Stakeholder Event	TBD	
<b>Project Completion Date</b>	31/10/2033	
Summary of works in last quarter: Continuation of high-level project development	nt, along with initial internal governance activities.	
•	nt, along with initial internal governance activities.	
Continuation of high-level project developments  Summary of works in next quarter:	nt, along with initial internal governance activities.  nt, along with initial internal governance activities.	
Continuation of high-level project developments  Summary of works in next quarter:		



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



TORI	Scheme
SHET-RI-189 - Strichen-Fraserburgh to St Fergus	Strichen-Fraserburgh to St Fergus 132kV OHL
132kV OHL Reconductoring	Reconductoring
Overview of Works	
Upgrade a section of the existing Strichen/Fraser	burgh to St Fergus Switching Station 132kV
SF1/SF2 OHL.	
Proposed Consent Submission	N/A
Current Project Phase	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
<b>Project Completion Date</b>	31/10/2027
Summary of works in last quarter:	
•	
Continuation of high-level project development.	
Continuation of high-level project development.  Summary of works in next quarter:	
Summary of works in next quarter:	
Summary of works in next quarter:	
Summary of works in next quarter:	
Summary of works in next quarter:  Continuation of high-level project development.	
Summary of works in next quarter:	
Summary of works in next quarter:  Continuation of high-level project development.	
Summary of works in next quarter:  Continuation of high-level project development.	
Summary of works in next quarter:  Continuation of high-level project development.	



<b>TORI</b> SHET-RI-191 - Strathy Switching Collector	Scheme Strathy Switching Collector Station Connagill-
,	
Ctation Connagill Ctrathy double sirguit OIII	Strathy double circuit OHL
Station Connagill-Strathy double circuit OHL	Stratify double circuit offE
Overview of Works	
Install a new 275kV double circuit (initially ener	
substation and a new 132kV switching collector station located at Strathy North Wind Farm	
substation to enable the connection of renewal	die generation.
Proposed Consent Submission	
Current Project Phase	
Next Project Phase	
Next Stakeholder Event	
<b>Project Completion Date</b>	31/07/2029
Summary of works in last quarter:	•
Will be presented to system development board	d in next quarter
Summary of works in next quarter:	
,	
Additional Comments:	



TORI	Scheme
SHET-RI-194 - Beauly 2 400kV Switching Station	Beauly 2 400kV Switching Station
Overview of Works	
Switching Station	
Proposed Consent Submission	tbc
Current Project Phase	Optioneering
Next Project Phase	Design
Next Stakeholder Event	tbc
Project Completion Date	31/10/2029
Summary of works in last quarter:	
Site Selection	
<ul> <li>Consultation events held</li> </ul>	
Summary of works in next quarter:	
Site Selection to be completed	
<ul> <li>Feedback to stakeholders on site selection</li> </ul>	on
Progression of design	
Additional Comments:	
n/a	



TORI	Scheme	
SHET-RI-195, Skye HVDC Link	Skye HVDC Link	
Overview of Works	<u> </u>	
Establish a 400MW HVDC link with associated equ	uipment and converter stations between Skye	
(East Coast of Skye, location to be determined) and the 400kV double busbar at Beauly		
(established under SHET-RI-194). The HVDC cable	(established under SHET-RI-194). The HVDC cable is to be approximately 100km. A 25km Double	
circuit 132kV OHL will be constructed from Edinbane Collector Substation to a new Skye HVDC		
Converter Station located on the East coast of Sky	ye.	
The HVDC infrastructure will interface with the 13	32kV double busbar at Edinbane and the 400kV	
double busbar at Beauly.		
Proposed Consent Submission	TBC	
Current Project Phase	Pre Gate 0	
Next Project Phase	Gate 0	
Next Stakeholder Event	TBC	
Project Completion Date	30/04/2034	
Summary of works in last quarter:		
Undertaking studies to confirm the need		
Summary of works in next quarter:		
The project will be in the development phase to further assess the need and carry out options		
analysis. If the need to is confirmed, we will progress with work required to prepare a LOTI		
submission to Ofgem.		
Additional Comments:		



TORI	Scheme
SHET-RI-196 - Whitehouse Substation 275kV	Whitehouse Substation 275kV Switchgear
Switchgear	
Overview of Works	
Construct a new 275kV line circuit breaker bay or	the 275kV Craig Murrail - Crossaig West circuit
at the future Whitehouse 275kV Substation.	
<b>Proposed Consent Submission</b>	
<b>Current Project Phase</b>	
Next Project Phase	
Next Stakeholder Event	
<b>Project Completion Date</b>	31/10/2034
Summary of works in last quarter:	
Initial government activities complete. Awaiting allocation of a project team.	
Summary of works in next quarter:	
Project initiated through internal governance and initial high-level project development commenced.	
Additional Comments:	



TORI	Scheme	
SHET-RI-197 - Kintyre to North Wales HVDC	Kintyre to North Wales HVDC Link	
Link		
Overview of Works		
Construction of a new AC/DC converter station, with the AC end connected to the Creag Dhubh		
275kV double busbar substation. The DC circuit is to be a bi-pole, solid return design, routed		
through the sea towards North Wales (landing po	oint to be confirmed).	
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2034	
Summary of works in last quarter:		
Initial government activities complete. Awaiting allocation of a project team.		
Summary of works in next quarter:		
Project initiated through internal governance and initial high-level project development commenced.		
Additional Comments:		



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



TORI	Scheme	
SHET-RI-199 - Blackhillock 2 400kV Substation	Blackhillock 2 400kV Substation	
Overview of Works		
Establish a new 400kV substation close to Blackhillock 400kV substation and tie in the proposed		
400kV circuits as part of the NOA BBNC/BPNC upgrade.		
Proposed Consent Submission	30/07/2024	
<b>Current Project Phase</b>	Development	
Next Project Phase	Refinement	
Next Stakeholder Event	November 2023	
Project Completion Date	31/10/2028	
Summary of works in last quarter:		
Appointment of ECI contractor.	Appointment of ECI contractor.	
Bird surveys initiated at the preferred site.		
Public consultation event held.		
All Gate 1 governance activities completed.		
Summary of works in next quarter:		
GI works to be initiated at the preferred site.		
Environmental Impact Assessment works.		
Additional Comments:		
N/A		



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



TORI	Scheme	
SHET-RI-201 - Foyers Substation Extension and	Foyers Substation Extension and Connection to	
Connection to Loch Kemp	Loch Kemp	
Overview of Works		
Foyers Substation Extension and Connection to Lo	och Kemp	
Extend the existing Foyers 275kV busbar to include	•	
from the Loch Kemp Pumped Storage 275/18kV S	Substation.	
Construct a 275kV busbar with three bays at the	Loch Kemn 275kV/18kV Substation	
construct a 275kV basbar with three bays at the	Eden Kemp 27 Sky Toky Substation.	
The Loch Kemp Pumped Storage 275/18kV Substa	ation will be connected to the existing Fovers	
275kV Substation by approximately 10.5km of sin	- · · · · · · · · · · · · · · · · · · ·	
Proposed Consent Submission		
Current Project Phase		
Next Project Phase		
Next Stakeholder Event		
Project Completion Date	31/10/2030	
Summary of works in last quarter:		
But also be to the second of t	and the second s	
Project to be initiated through internal governance commenced.	ce and initial high-level project development	
commenced.		
Summary of works in next quarter:		
Summary of Works in next quarters		
Additional Comments:		



	Scheme
SHET-RI-203 - Fetteresso 132kV Busbar Works	Fetteresso 132kV Busbar Works
Overview of Works	1
Fetteresso 132kV Busbar Works	
Add a bus section to the Fetteresso 132kV busbar.	
Proposed Consent Submission	N/A
<b>Current Project Phase</b>	Initial internal governance
Next Project Phase	Optioneering
Next Stakeholder Event	TBD
<b>Project Completion Date</b>	30/06/2029
	along with initial internal governance activities.
	diong with initial internal governance activities.
Summary of works in next quarter:	
Summary of works in next quarter:	



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

Decommissioning of the existing Fiddes 132/33 kV substation, including all buildings, bunds, plinths, GTs and 132 kV Quad Booster. Switchgear, GTs and Quad Booster should obtain asset condition reports to determine if they should be scrapped or placed into spared. All buildings, plinths and bunds should be broken down to below ground level and made available to others for use.

Decommissioning of the existing 132 kV single circuit overhead line between Craigiebuckler/Tarland/ Fiddes Tee Point and Brechin substation (CF-FB circuits). Construction of a new 275 kV double-busbar at Brechin with a single bus section, two bus couplers and a minimum of six feeder bays to turn-in/out XT1/XT2 between Kintore and Tealing and interconnect Brechin 275/132 kV substations. The site should have space provision to house the SGTs and ancillary equipment and potential four future feeder bays.

Construction of two 275/132 kV 240 MVA SGTs at Brechin 275 kV substation including two 275 kV circuit breakers, two 275 kV line isolators, two 132 kV circuit breakers and two 132 kV line isolators to interconnect Brechin 275 kV and 132 kV substations.

Construction of two 132 kV circuit breakers and four 132 kV line isolators at Brechin 132 kV substation to interconnect Brechin 275 kV and 132 kV substations.

Construction of approximately 4.5 km of 132 kV double-circuit overhead line between Brechin 275 kV substation and Brechin 132 kV substation

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

#### **Summary of works in last quarter:**

Continuation of high-level project development, along with initial internal governance activities.

## **Summary of works in next quarter:**

Initial government activities complete. Awaiting allocation of a project team.

#### **Additional Comments:**