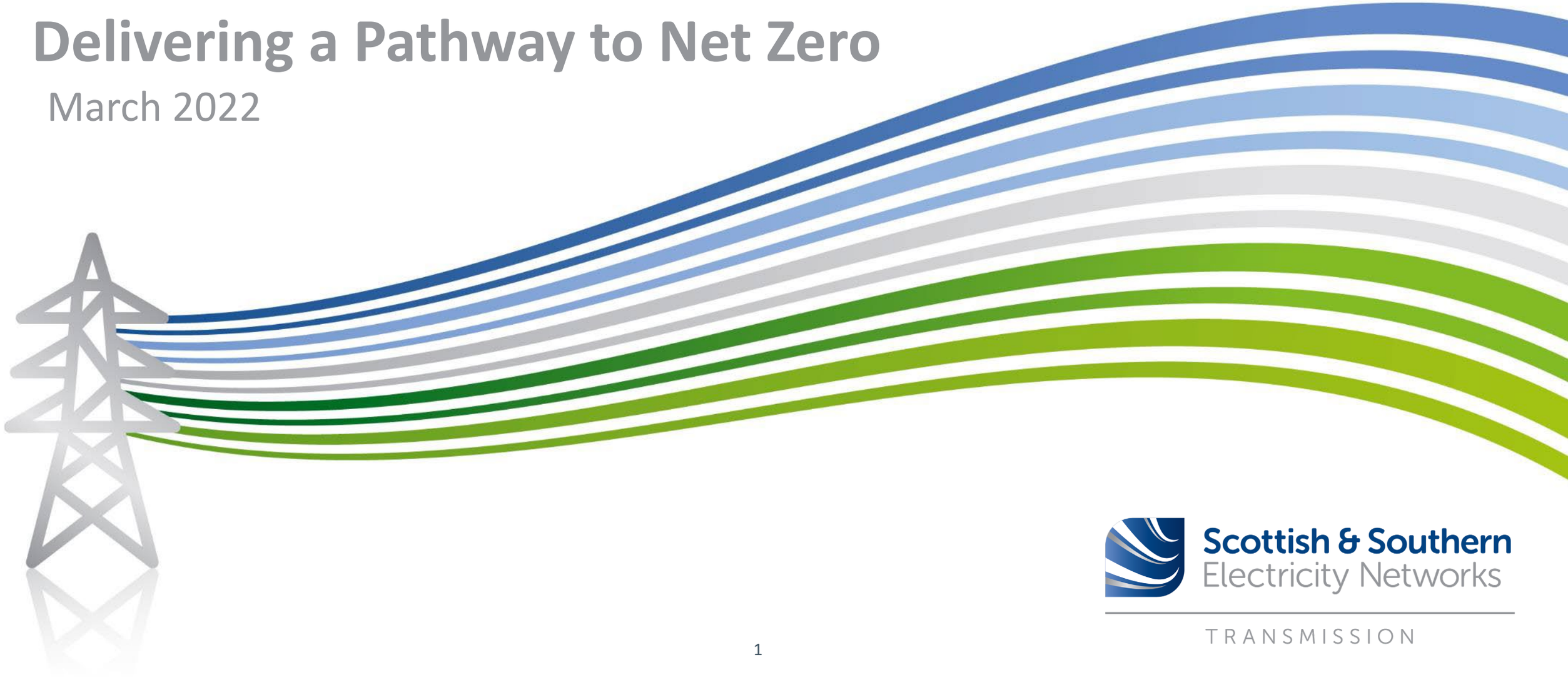
# North of Scotland

## Delivering a Pathway to Net Zero

March 2022



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# Agenda

| Topic: | Speaker: |
| --- | --- |
| Welcome & Introductions | Greg Clarke – Head of Corporate Affairs |
| Overview of SSEN Transmission & Net Zero | Rob McDonald – Managing Director, SSEN Transmission |
| Future Development Projects | Calum Watt – System Planning and Investment Manager |
| Projects in Construction | Kevin Smith – Project Director, Capital Development and Delivery |
| Supply Chain Regional Opportunities | Paul Leddie – Director of Procurement |
| Stakeholder Engagement & Future Events | Lesley Dow – Head of Community Engagement |
| Facilitated Q&A | Greg Clarke – Head of Corporate Affairs |



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# Handling feedback and information

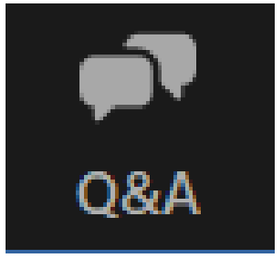
Everybody in SSEN Transmission works hard to encourage and demonstrate transparency around our projects, proposals and plans. All information and content in today's presentation, provided by us, can be shared with others outside of this engagement.

However, feedback gathered during today's engagement will not be associated with you specifically. As one of our contributing stakeholders, we may publish your feedback in any reports or submissions we subsequently produce, **but we will anonymise this**. Instead of quoting specific stakeholders, we will describe the origin of feedback using broad categories, such as "Local Resident" or "Landowner" as examples. We will also take care to avoid 'jigsaw identification'.

**Thank you in advance for your honest feedback and constructive participation.**

# Ask a Question

**To submit questions, click the Q&A button:**

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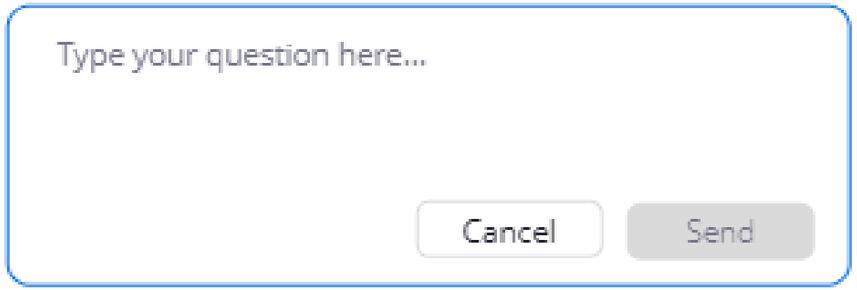


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# SSEN Transmission & The Pathway to Net Zero

Rob McDonald

Managing Director, SSEN Transmission



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# Who we are: SSEN Transmission

- Maintain and invest in the high voltage 132kV, 220kV, 275kV and 400kV electricity transmission network in the north of Scotland
- License area extends over a quarter of the UK's land mass, crossing some of its most challenging terrain
- Develop critical national infrastructure which is essential to deliver net zero and supports economic growth
- **5 Year Business Plan to 2026 "A Network for Net Zero"**
- Anticipated investment of £4bn in the five years to 2026*
- Part of SSE Group which also includes electricity distribution, renewable and thermal generation

*subject to regulatory approvals




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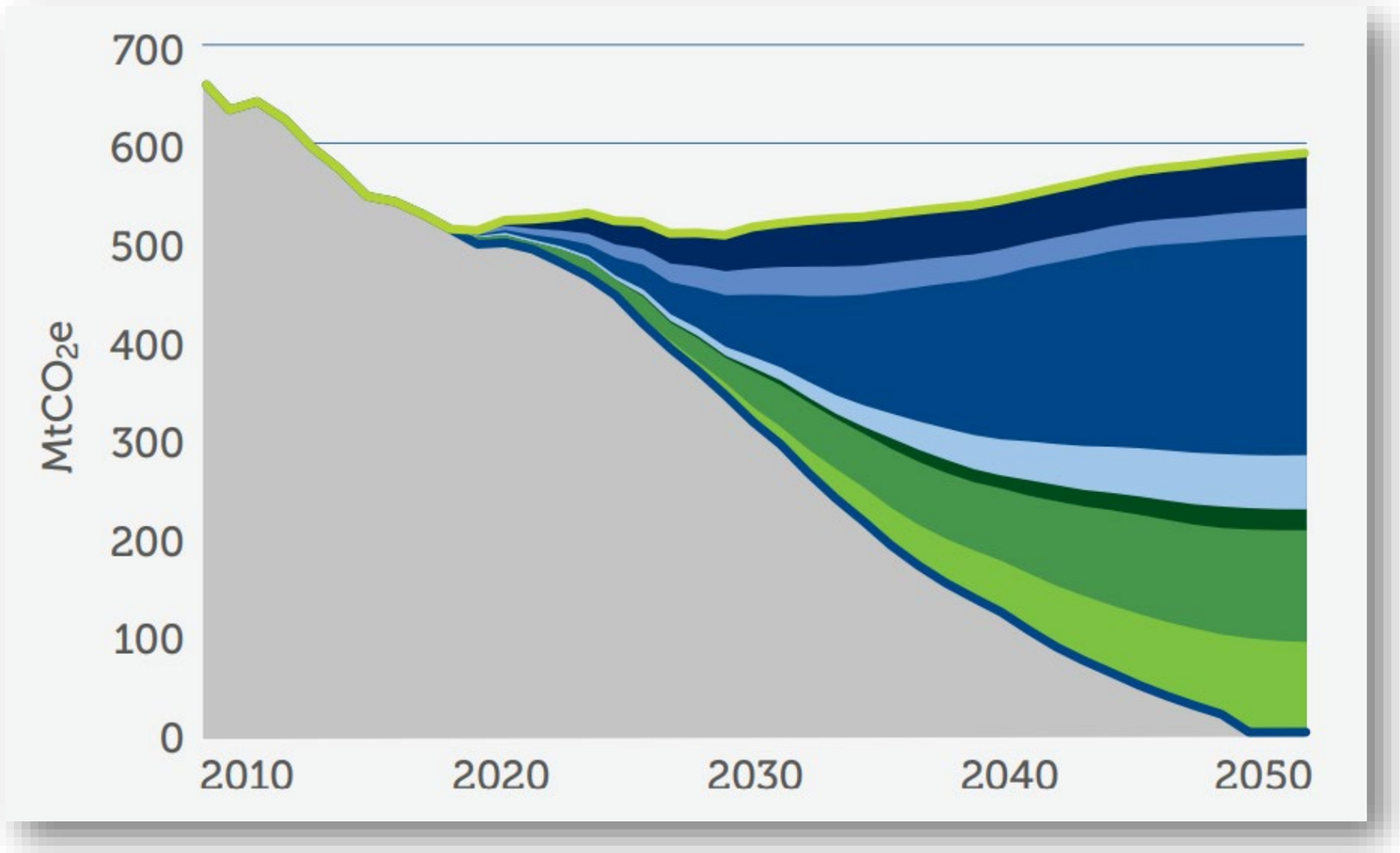
# Getting to Net Zero

## The critical contribution from energy generated in the north of Scotland





Source Getting to Net Zero: the critical contribution from electricity generated in the north of Scotland, SSEN Transmission, November 2021

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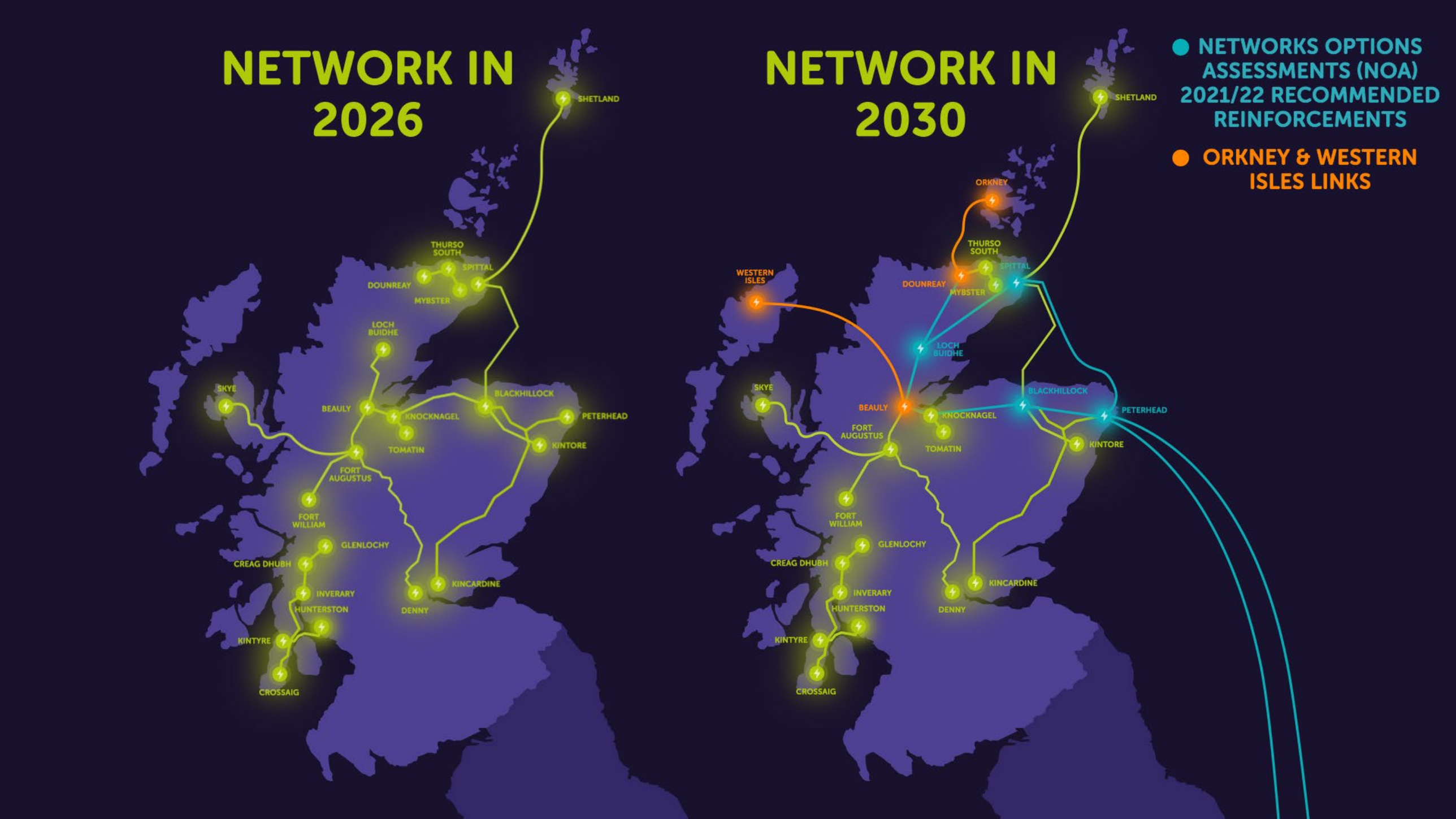
NETWORK IN 2026
SHETLAND
THURSO SOUTH
SPITTAL
DOUNREAY
MYBSTER
LOCH BUIDHE
SKYE
BEAULY
BLACKHILLOCK
KNOCKNAGEL
PETERHEAD
TOMATIN
KINTORE
FORT AUGUSTUS
FORT WILLIAM
GLENLOCHY
CREAG DHUBH
KINCARDINE
INVERARY
HUNTERSTON
DENNY
KINTYRE
CROSSAIG
NETWORK IN 2030
SHETLAND
ORKNEY
THURSO SOUTH
SPITTAL
WESTERN ISLES
DOUNREAY
MYBSTER
LOCH BUIDHE
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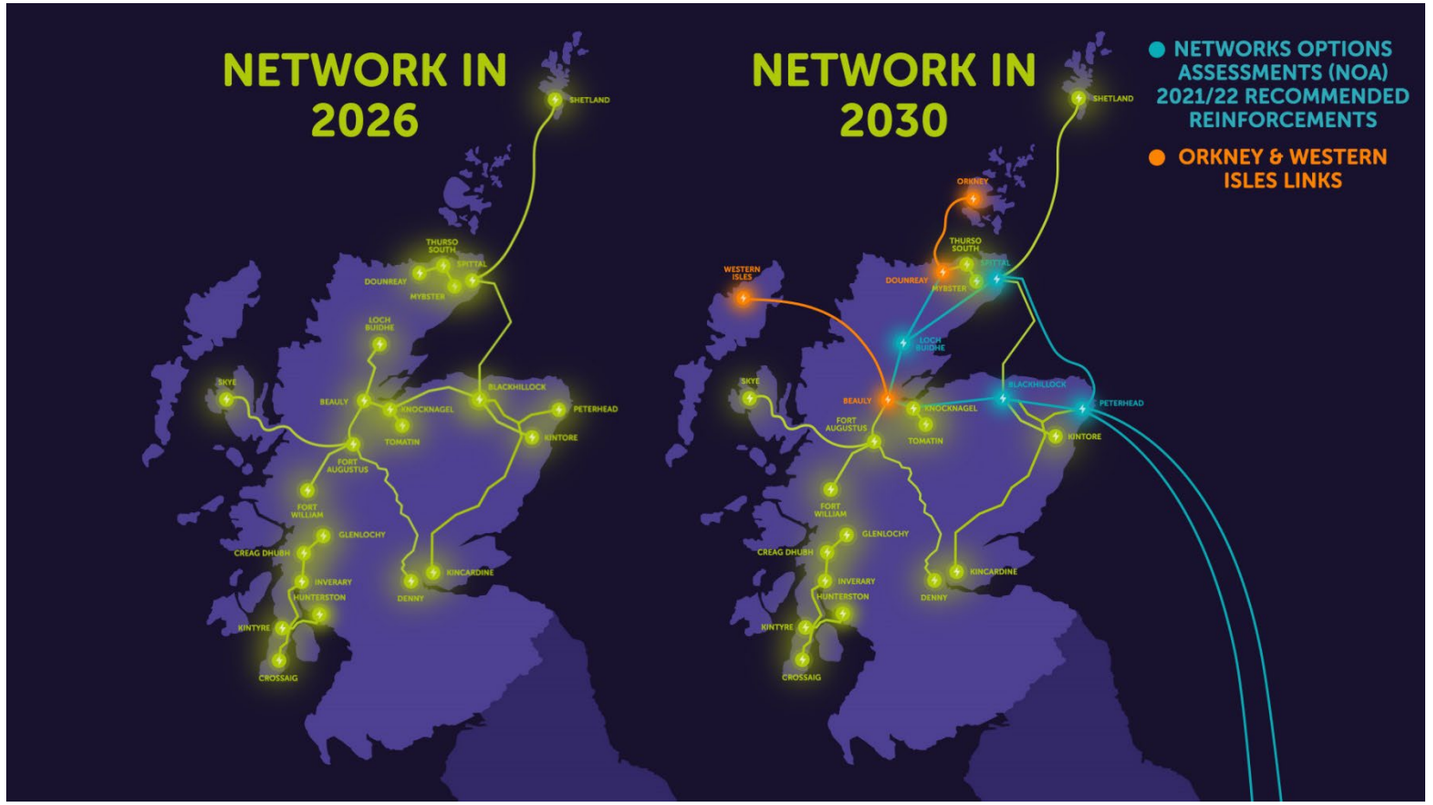
FORT WILLIAM
GLENLOCHY
CREAG DHUBH
KINCARDINE
INVERARY
HUNTERSTON
DENNY
KINTYRE
CROSSAIG
NETWORKS OPTIONS ASSESSMENTS (NOA) 2021/22 RECOMMENDED REINFORCEMENTS
ORKNEY & WESTERN ISLES LINKS

# Video: Delivering a Pathway to Net Zero




https://vimeo.com/692186953



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# Any Questions?

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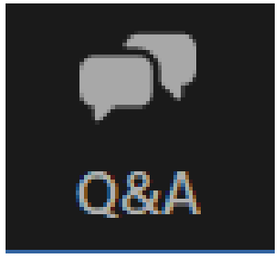


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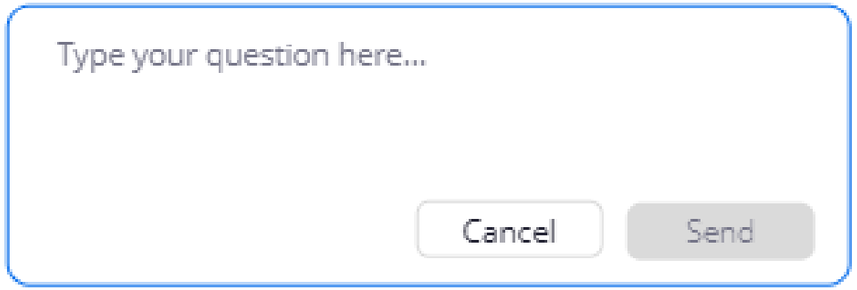


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# Future Development Projects

Calum Watt
System Planning and Investment Manager



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# What drives network development?

## New Connections

**New Connections to the Transmission Network**

**Driven by customer request to access the Transmission System**

**Generation or Demand**

## Asset Replacement

**Primarily driven by Condition Assessment to maintain security of supply or equipment damage inc. storm damage**

Network design requires co-ordinated approach

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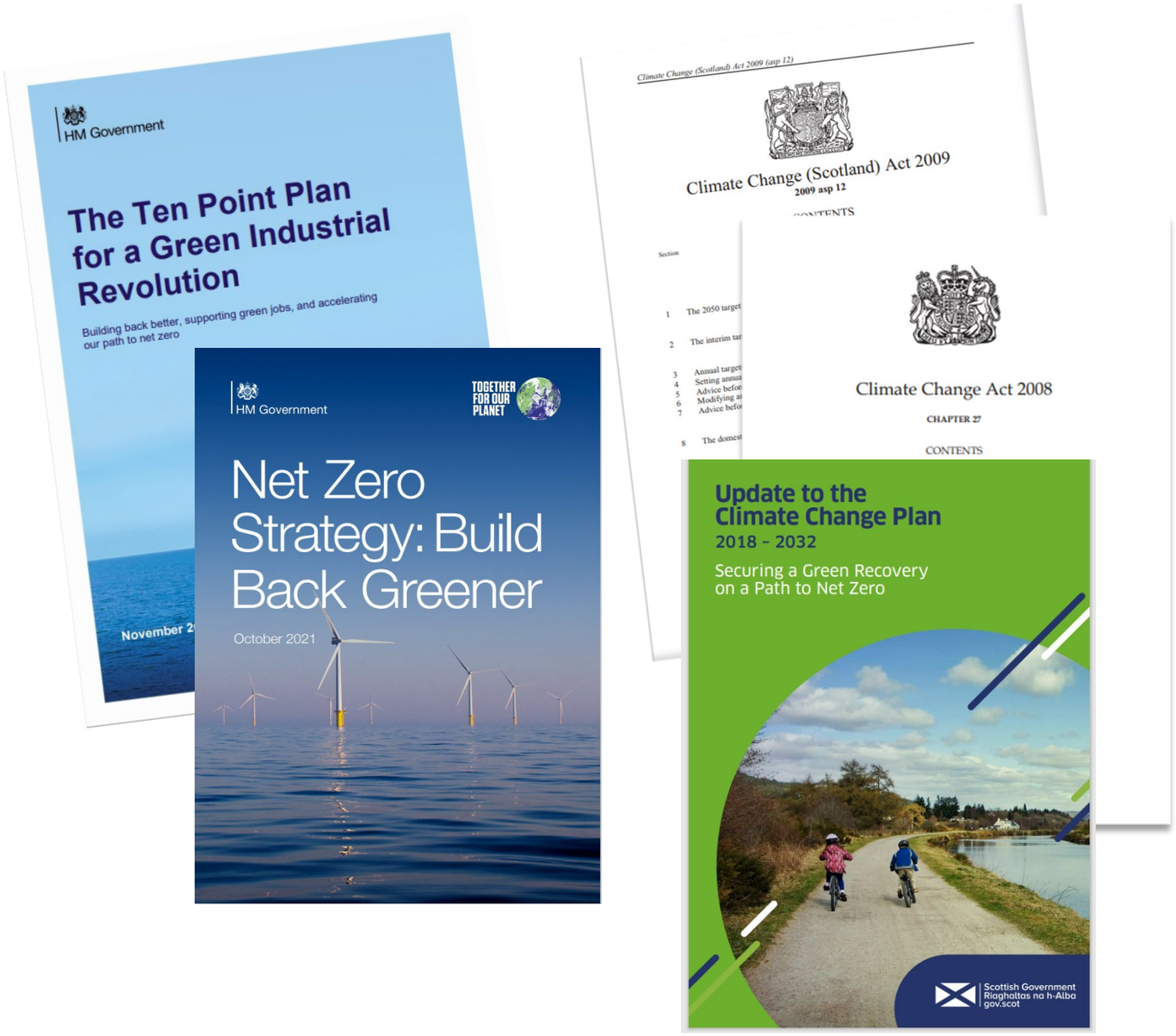
# Renewable Generation and Net Zero Targets




- Scottish Government's Net Zero goal by 2045
- UK Government's Net Zero Targets by 2050
- UK Government's 40GW by 2030 offshore wind target
- Scottish Government's 11GW offshore wind by 2030 target
- Scottish Government's 8-12GW of onshore wind by 2030 target

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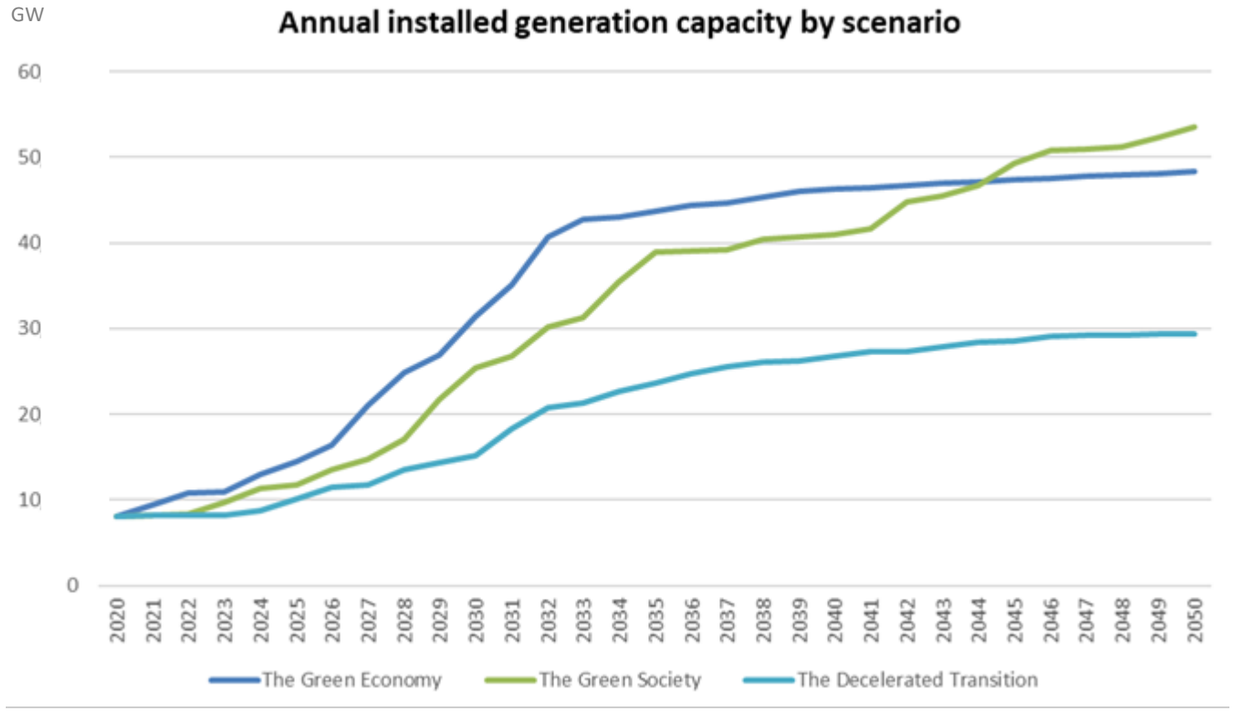
# North of Scotland: Renewable Generation Growth

- There is currently c.8GW of renewable generation capacity connected to our network
- This is expected to grow to between 30GW to 50GW by 2050 (an increase of 3 to 5 times existing)
- Wide range of technology type expected to connect including:
  - Onshore Wind
  - Offshore Wind
  - Pumped Storage Hydro
  - Solar
  - Battery/Storage Technology
  - Hydrogen
  - Interconnectors



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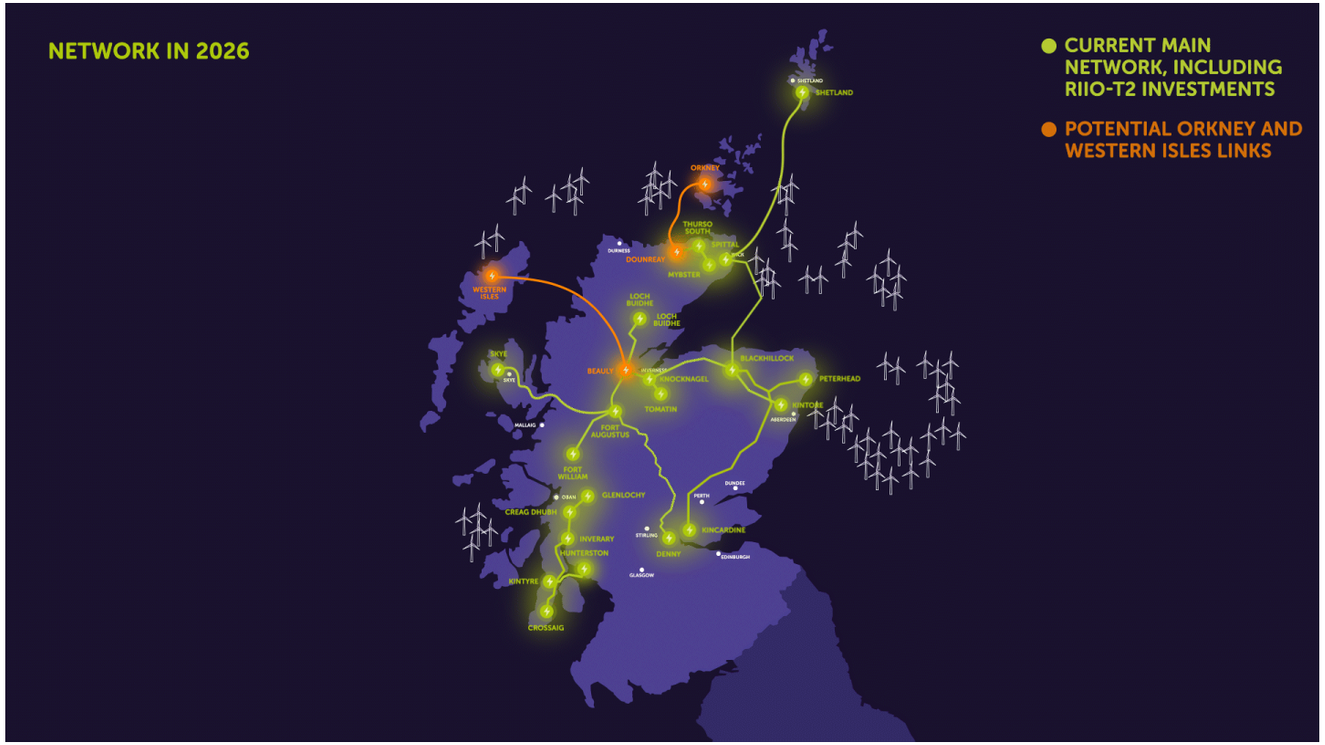
# ScotWind: Connecting Scotland's Offshore Windfarms

- Will play a significant role in achieving UK and Scottish Government's offshore wind and net zero targets
- 25GW of offshore capacity awarded in January 2022 through ScotWind
- This year's Network Options Assessment (NOA), set out onshore strategic reinforcement requirements
- Holistic Network Design (HND) for 10.7GW to be published in June 2022
- HND being developed to deliver offshore wind in a more coordinated manner, while ensuring an appropriate balance between environmental, social and economic costs
- NOA will be published in conjunction with the HND
- Follow up exercise to the HND to be completed in Q1 2023 for the remainder of ScotWind Projects enabling connection of up to 25GW

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# Network Options Assessment: ‘The NOA’

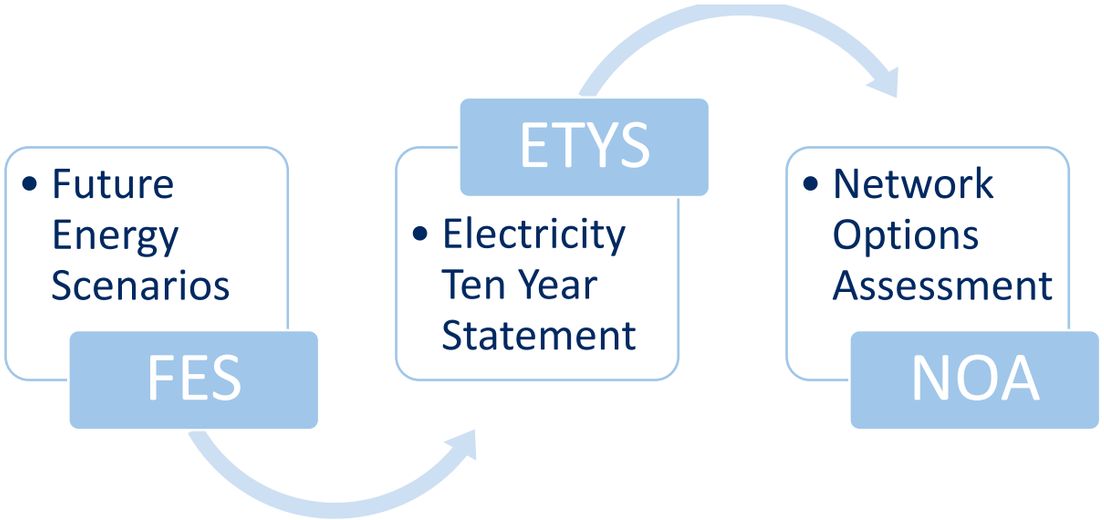
## What is it?

- The Network Options Assessment (NOA) is the System Operators recommendation for which reinforcement projects should receive investment
- These projects are major electricity transmission network reinforcements
- It looks at the whole of the GB electricity network system to decide which reinforcements are in the best interest of GB consumers


Future of Energy Scenarios (FES)
July 2020
Range of credible pathways for the future of energy from today to 2050.


Electricity Ten Year Statement
November 2020
The likely future transmission requirements on the electricity system.


Network Options Assessment
January 2021
The options available to meet reinforcement requirements on the electricity system.

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# The Consenting and Approval Process

Our development pipeline continues to evolve and to ensure we are delivering the right reinforcement at the right time, each project can be subject to the following:

- Refinement and engagement from SSEN Transmission with a wide range of local and national stakeholders
- Further assessment by the Energy System Operator (ESO)
- Regulatory approval from Ofgem
- Scottish Government and/or Local Planning & Environmental Consents

ofgem

Scottish Government
Riaghaltas na h-Alba
gov.scot

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# Next Steps for Reinforcing the Transmission Network

## Delivering a network to support Net Zero

- All the following projects recommended to proceed in Jan 2022 via annual Network Options Assessment (NOA), published by Energy System Operator (ESO)
  - Beauly to Dounreay 400kV Double Circuit
  - Beauly - Blackhillock - Peterhead 400kV Double Circuit
  - Beauly - Loch Buidhe - Spittal 275kV Double Circuit
  - HVDC Link Spittal - Peterhead
  - HVDC Link Eastern 1
  - HVDC Link Eastern 2
- At early stage of development in line with overhead line and underground cable routing guidance and substation selection guidelines
- Stakeholder consultations will be carried out to inform key project decisions throughout the development phase


Development from 2022 onwards

Construction 2026 - 2031

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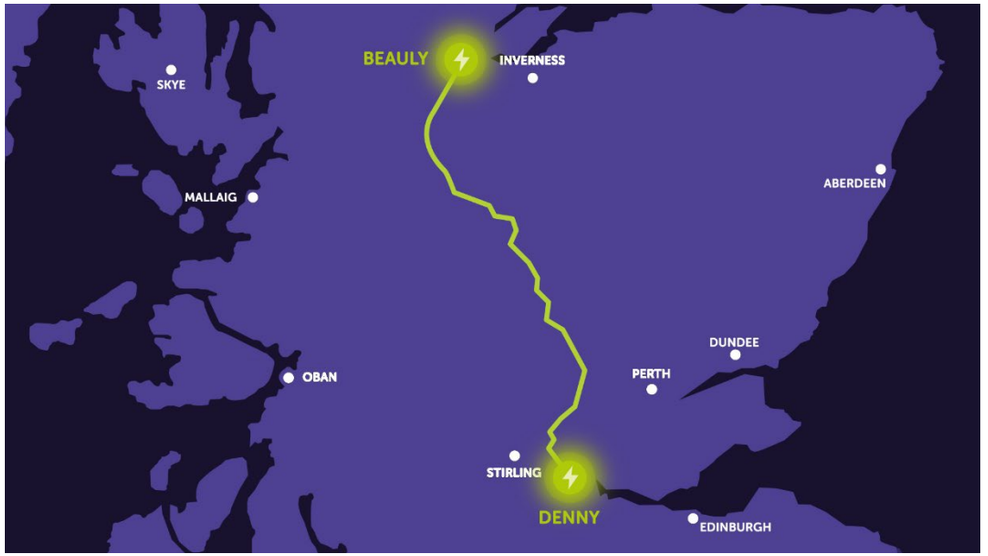
# Enhancing our Existing Network

## Beauly to Denny Overhead Line 275kV to 400kV Upgrade

- Project required to facilitate connection of further onshore generation, primarily pumped hydro in the Fort Augustus area
- Towers are already constructed to 400kV capability under the Beauly to Denny project completed in 2014
- No new additional overhead lines in relation to this project
- Focus will be existing substation upgrades to accommodate the higher voltage and required voltage transformation up from 275kV




Development from 2022 onwards

Construction 2026 - 2029

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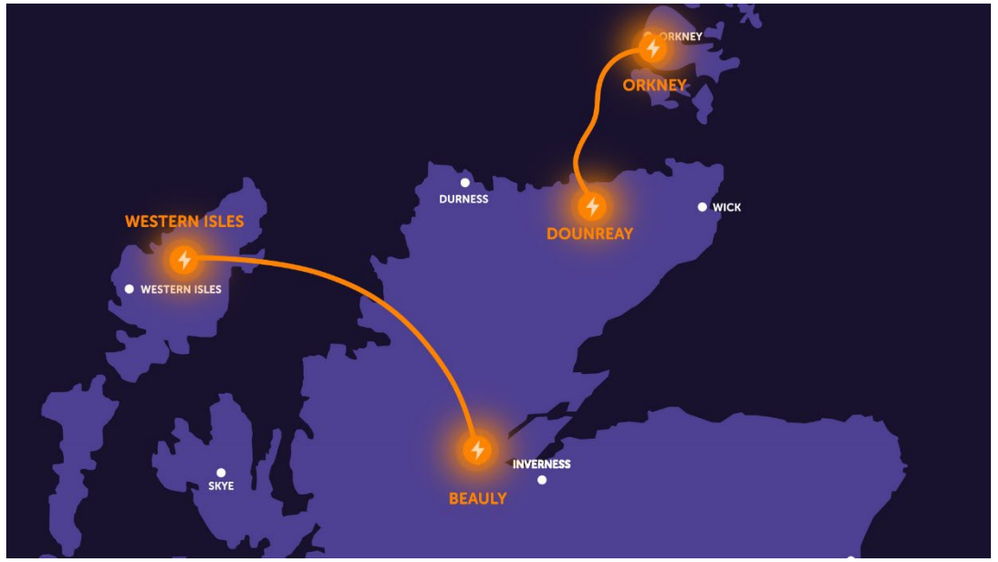
# Connecting the Islands

## Western Isles & Orkney

- We continue to work with stakeholders to develop and take forward advanced proposals to enable mainland transmission connections
- Both links remain subject to regulatory approval, which in turn is dependent on island developers demonstrating their commitment to progress, in line with Ofgem's expectations
- We are hopeful developers will make positive progress meeting Ofgem's expectations this year, allowing us to seek final regulatory approval in the summer




Ongoing Development

Earliest Completion 2027

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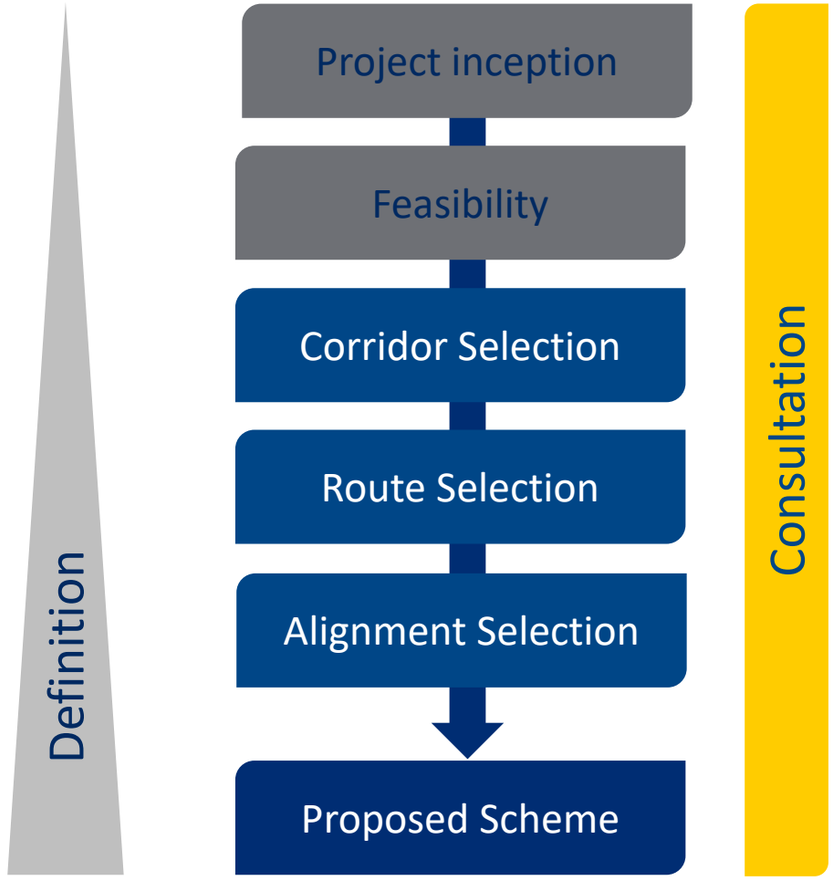
# Routing & Site Selection Process

Development & Consultation Stages




Network Options Assessment, Customer Connection

Strategic investment studies and options assessment

Environmental studies
Technical design studies
Cost analysis
Planning policy
Initial constraint surveys
Stakeholder engagement (Statutory, Landowner & Public)

Final design for consents (Multi-consent projects)

3 yrs

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# Our Commitment to the Environment

## Protecting Local Habitats

**Our commitments:**

- Delivering a greener grid focusing on habitat restoration and creating bio-diversity growth as we invest in our network
- Embedding biodiversity considerations into our project development process and project lifecycle
- No Biodiversity Net Loss on our new sites
- Biodiversity Net Gain on all new sites from 2025
- Compensatory tree planting for all major projects, working with suitable not-for-profit organisations and using native species where possible, ensuring that any loss of trees as a result of our projects are replaced


**Our commitment ensures that we don't just restore our natural habitats but actively improve them for the benefit of local communities, wildlife, flora and fauna**

Find out more here: SSEN Transmission - Biodiversity Net Gain on Vimeo

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# Any Questions?

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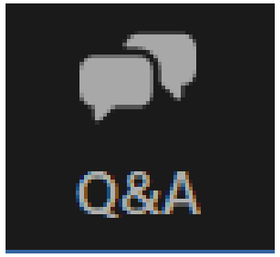


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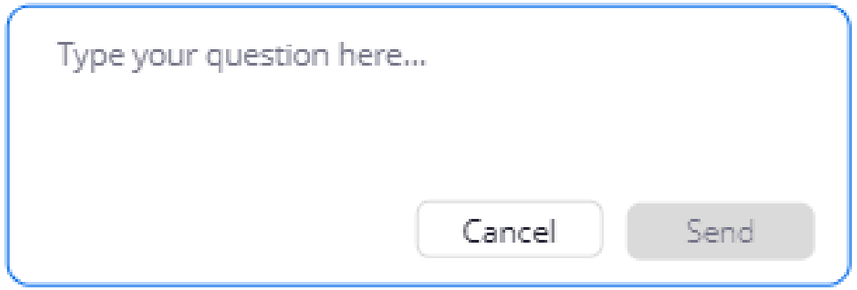


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# Delivering a Network for Net Zero

## Projects in Construction

Kevin Smith

Project Director, Capital Development and Delivery



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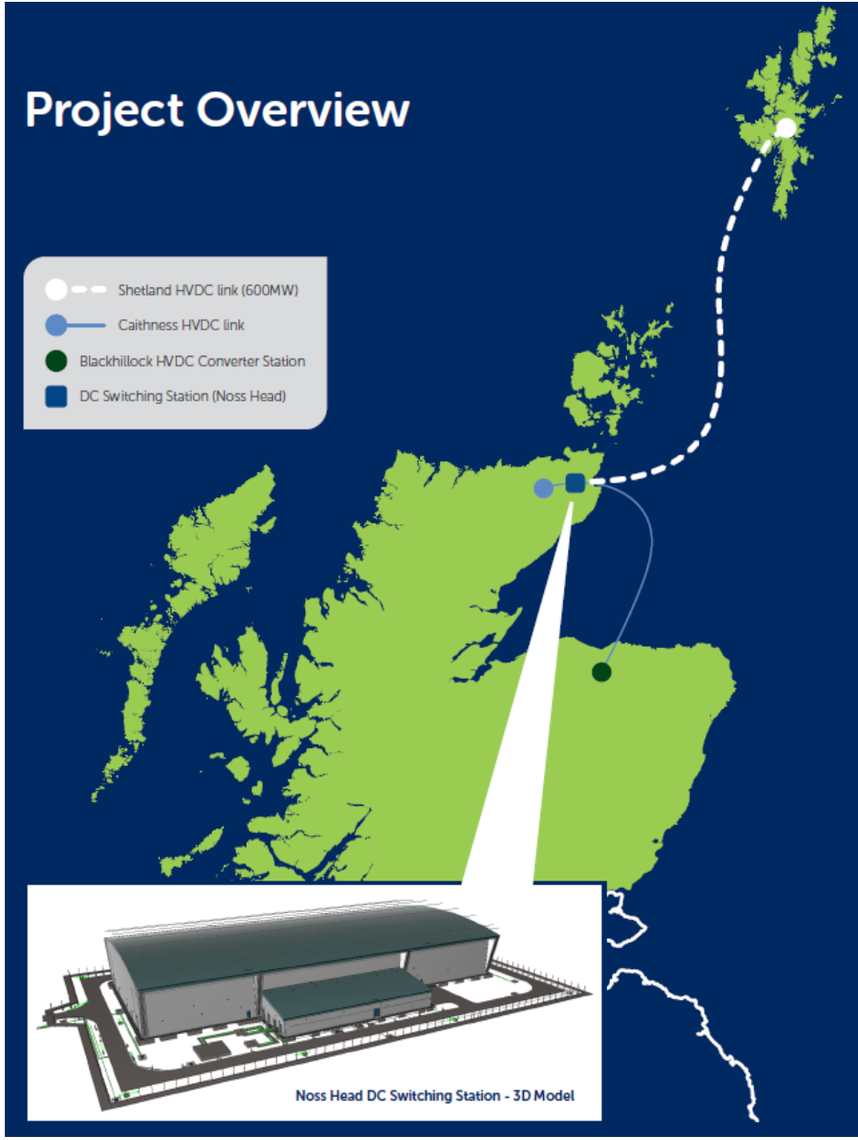
# Connecting Shetland to the GB Grid

## Shetland High Voltage Direct Current (HVDC)

- Project driver is connecting island renewable energy
- Connects Shetland to the GB Transmission Network
- 600MW HVDC Converter station and 132kV AC Substation at Upper Kergord
- 257km of subsea cable, 12km onshore
- Tie in to the Blackhillock/Spittal cable in 2023 at Noss Head DC Switching station




**Works Start**
Sept 2020

**Onshore cable works commenced**
Spring 2021

**Hitachi start on site**
Feb 2022

**Offshore cable installation campaigns commence**
June 22

**Completion**
July 2024

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# Network Reinforcement Connecting Renewable Generation

## Lairg Loch Buidhe Substation & Overhead Line




- Reinforcement to facilitate connection of renewable generation
- New 132kV Substation at Dalchork, Lairg
- 15km 132kV double circuit overhead line (OHL) from Dalchork to existing Loch Buidhe substation
- Overhead line routed taking account of local stakeholder feedback, consideration of local wildlife, Site of Special Scientific Interest (SSSI) and Species Protection Area (SPA) (hen harriers)
- Dismantling 10km existing 132kV OHL from Lairg grid supply point to Shin substation

**Works Start**
June 2020

**OHL works complete**
March 2022

**Full energy**
May 2022

**Works complete**
October 2022

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# Connecting New Wind Generation

## Creag Riabhach Windfarm

- New 22Km 132kV Trident wood pole overhead line (significant helicopter work)
- Underground cable adjacent to Crask Inn
- Overhead line routed to avoid deep peat and other sensitive areas
- Re-purposed insulator crates into bird boxes, installation of bat poles
- 132kV connection substation at windfarm site
- Connection into new Dalchork substation

**Works Start**
June 2021

**OHL works complete**
July 2022

**Energisation**
September 2022

**Completion**
October 2022

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# Network Reinforcement Connecting Renewable Generation

## Fort Augustus Substation

- Reinforcement to accommodate increased renewable generation
- Reducing carbon by installing our first 132kV g3 (Sf6 alternative) gas insulated switchgear
- Diversion of 132kV overhead lines and underground cables into new switchgear
- New super grid transformers & g3 busbar
- Flood prevention scheme for the site
- Community Liaison Group established to share project progress and seek feedback

**Works Start**
March 2020

**400kV Outages Complete**
September 2021

**132kV Energisation**
March 2022

**Energisation Complete**
May 2022



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# Upgrading the North East Scotland Network

## Increasing network voltage to 400kV to transport growing renewable generation


Reinforcements works planned for 2023 completion include:

- Significant substation works at Peterhead, *New Deer, *Rothienorman and Kintore
- Upgrade of the overhead line from 275 to 400 kV

*works at Rothienorman and New Deer not yet commenced

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# North-East 400kV Overhead Line

## Reducing overloading and congestion on the transmission network


- Conductor replacement and re-insulation to 400kV of 83km of double circuit overhead line
- Foundation upgrades and tower strengthening
- Diversion of the overhead line away from Keith, improving visual amenity in the area
- An increase of overhead line capacity of almost 100%

**Works Started**
May 2021

**Overhead Line Works Complete**
January 2023

**Full Energy**
October 2023

**Works Complete**
December 2023

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# Reinforcing the Network in the North of Scotland

## Peterhead 400kV Busbar

- New 400kV/275kV Substation
- Built with space to connect future projects in the area
- SF6 free gas (Econiq) used in the busbars to reduce carbon emissions
- 2 high voltage cable circuits to connect to existing 275kV Substation
- 2 new overhead line tower to connect 400kV circuits

**Works Started**
November 2021

**Gas Insulated Switchgear Contractor Mobilises**
April 2022

**Pre-Stage 1 Commissioning Complete**
January 2023

**Works Complete**
October 2023

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# World’s First SF6 Free 400kV Substation

## Reducing carbon at Kintore substation

Kintore Phase 1 North East 400kV and Kintore Phase 2 East Coast 400kV are being delivered as a single project

North East 400kV scope:

- Build new substation with 2 Super Grid Transformers
- Connect Rothienorman overhead line to existing Kintore @275kV

East Coast 400kV scope:

- Construct World’s first SF6 free 400kV Gas Insulated Switchgear substation to reduce carbon emissions
- Divert overhead line circuit from Cairnford to underground cable

**Works Start**
August 2021

**Complete Cut and Fill**
March 2022

**Phase 1 Energisation (NE 400kV)**
Aug 2023

**SF6 Free Switchgear Delivery**
Nov 2024

**Phase 2 (East Coast 400kV) Energisation**
Summer 2026

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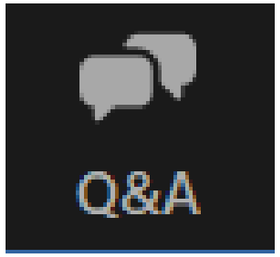


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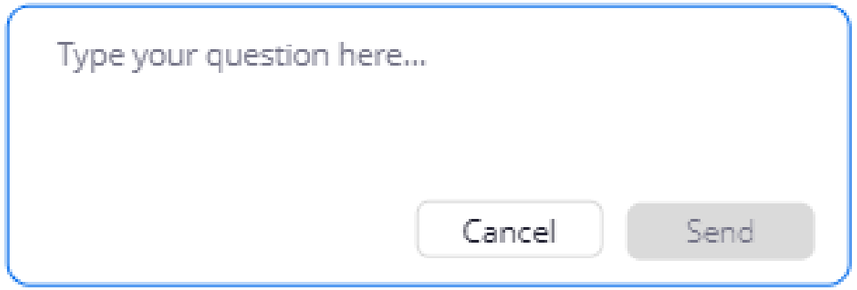


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# Regional Supply Chain Opportunities

Paul Leddie

Director of Procurement



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# The Need for a Sustainable Supply Chain

- SSEN Transmission anticipated spend of £4bn in the five years to 2026
- Part of SSE Group spend of £12.5bn NET ZERO ACCELERATION PROGRAMME
- ScotWind auction and Networks Options Assessment (NOA) indicate transformative programme of investment that will provide significant growth including for our supply chain
- Vital that we engage with our stakeholders and suppliers now to develop a strategy
- To secure a sustainable and resilient supply chain which supports the delivery of projects critical to deliver Net Zero
- Ensuring opportunities are maximised

# Sustainable Supply Chain

## Driving improved performance and local sourcing

**Procurement Process**

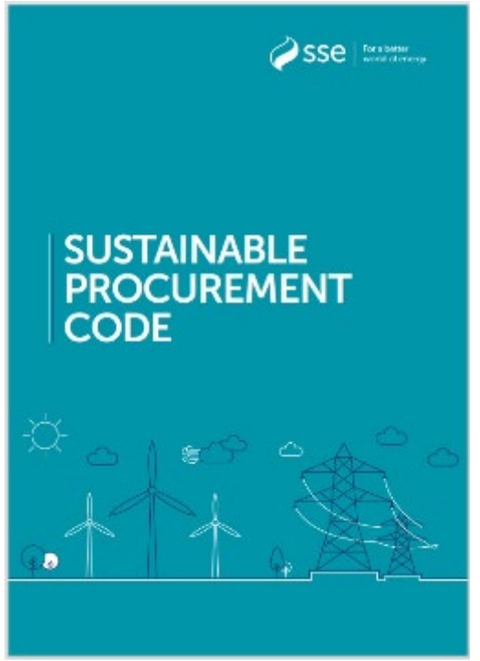
- Regulated business operating under the Utilities Contracts (Scotland) Regulations 2016
- Larger contracts compliant with regulated procurement process
- More flexible approach for smaller contracts
- Encourage Meet the Buyer events with our Tier 1 supply chain

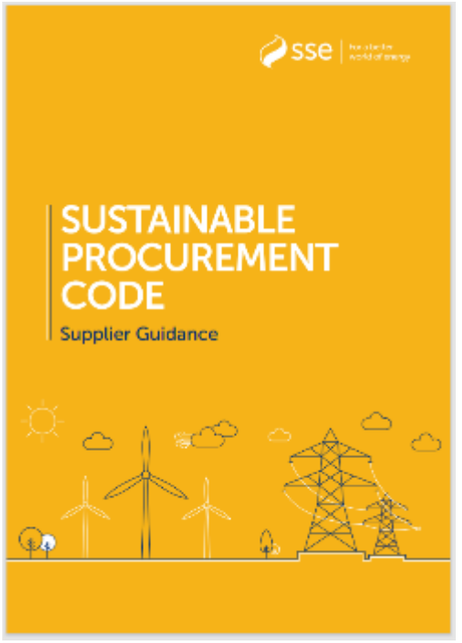
**Sustainable Procurement Code**

Operate in line with SSE's Sustainable Procurement Code which outlines our:

- core principles
- expectations on our supply chain
- the role of our supply chain in delivering common sustainability goals

**Our ambition is to influence and drive improved sustainability performance from the supply chain and minimise the potentially negative impacts our operations can have**




sustainable-procurement-code.pdf (sse.com)
sustainable-procurement-code_supplier-guidance.pdf (sse.com)



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# Meet The Buyer & Contractor Events

Local Supply Chain commitment made within out Tier 1 supply chain contracts

Enable local businesses and the local economy benefit from our construction projects

A key output of these events is to:

- Increase our use of local suppliers
- Increase our local spend on projects – using agreed measurement tools
- Increase the number of contractors taking part in our Meet the Buyer events
- Increase our visibility to the local community/supply chain
- Provide a clear communications structure for local suppliers to engage

*Supply Chain Roadshow 11th March*

For any enquiries further information on how to register your business with SSEN Transmission Procurement, please contact transmission.procurement@sse.com



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# Growing Our Workforce

## Our Transmission team is growing

The next four years will see significant growth in SSEN transmission,
it's an exciting time to join the business and be part of delivering net zero

We're looking to expand our workforce through:

- 'Earn and learn' placements, such as apprenticeships and trainee/graduate schemes
- Engage with schools, colleges, universities to deliver STEM opportunities
- Develop pipeline programmes with specialist partners


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# Recruitment Opportunities

## Join our team

We are currently recruiting across a wide range of disciplines

Current job opportunities include:

| Job Title | Location | Closing Date |
|---|---|---|
| Forestry Manager | Scotland | 3 April |
| Community Liaison Manager | Scotland | 3 April |
| Development Project Manager | Scotland | 5 April |
| Project Information Officer | Scotland | 11 April |
| Planning Engineer | Scotland | 18 April |

**Visit the SSE Careers page to find out more:**

www.careers.sse.com

FOLLOW US:
SSEN-Transmission

**Jobs coming soon include:**

- Engineers
- Project Managers
- Stakeholder Engagement

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# Any Questions?

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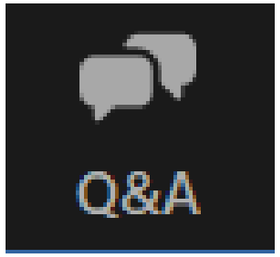


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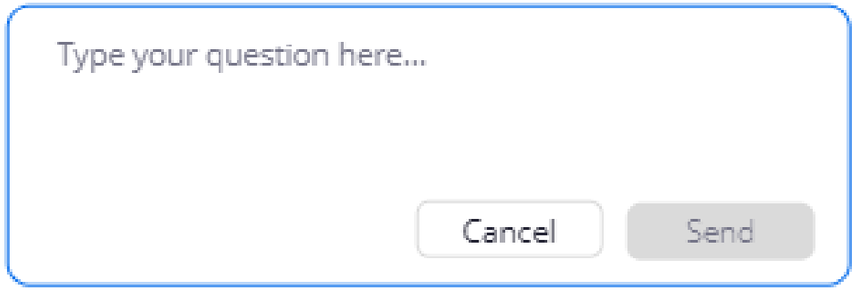


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# Stakeholder Engagement

Lesley Dow

Head of Community Engagement



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# Look Back…

## Keeping Critical National Infrastructure Projects on schedule during a global pandemic

Over **130 Interactive Virtual Public Consultation** events held, gathering feedback and valued input on **54 Projects**

To date – we have held approx. **60 online meetings** with Community Liaison Groups, Community Councils, Ward Council Meetings and Community Enhancement Groups

**Thank you!** Many thanks to everyone that took the time to join a virtual consultation or online meeting, your input is greatly appreciated



**In-person Events**

When it was safe to do so, we were able to host a number of in-person consultation events for the Skye – Fort Augustus Project, Shetland Wind Farm Connections, Melgarve Cluster, Elchies Wind Farm Connection, Peterhead and Kintore Substations. Many thanks to those that attended.

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# How we engage with our stakeholders

## Focus on Beauly – Blackhillock – Peterhead 400kV Reinforcement

**Since NOA Announcement - System Planning Assessments**
Environmental and Engineering Studies

**Late Summer 2022 – Initial Public Consultation**

**Evaluate Feedback**
Further Environmental and Engineering studies carried out

**Spring 2023 – Public Consultation**

**Evaluate Feedback**
Refine Design

**Spring 2024 – Public Consultation**


**In-person Public Consultation Events, 8 - 10 locations between Beauly and Peterhead**

**Interactive Online Events for those unable to attend in person**

**Direct engagement with Community Liaison Groups, Community Councils, Elected Members, Statutory Consultees and Local Authorities**

**Comprehensive Advertising Campaign across print and social media**

**Attendance at Agricultural Shows across the summer**



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# Working with Local Communities

## RIIO-T2 Infrastructure Stakeholder Engagement Survey

Understand stakeholders' perceptions and attitudes towards particular infrastructure projects and any engagement / communications from SSEN Transmission regarding the project(s)

Identify challenges faced by stakeholders with regards to infrastructure projects and engagement / communications from SSEN Transmission

Understand improvements that could be made and identify future opportunities for stakeholders with regards to infrastructure projects and engagement / communications from SSEN Transmission

## FINDINGS

- **94%** of stakeholders had contact with SSEN Transmission in the last 12 months
- **70%** were happy with the level of engagement on infrastructure projects
- **82%** of stakeholders felt that our engagement was proactive
- **95%** of stakeholders affected by infrastructure projects had at least some knowledge of the project
- **38%** suggested that our engagement helped reduce the impact caused by infrastructure projects
- **66%** of stakeholders had attended consultation events for projects.
  **17%** said they didn't know about consultation event
- **62%** of stakeholders lived within a mile of the infrastructure project
  **78%** said the project had a negative impact on them


# Upcoming Engagement Opportunities

Confirmed dates and venues will be published on our website and emailed to those on our email distribution lists.

Please email:
**transmission.stakeholder.engagement@sse.com**
to be added to our engagement email distribution list.

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**Over the coming months we will be consulting on the following projects and topics –**

- Coire Glas Hydro Pumped Storage Connection
- **Kintore 400kV Substation**
- Eastern Green Link 2 Marine Scheme
- **Red John Pumped Storage Hydro Scheme Connection**
- Beauly Cluster Project (Kilmorack, Aigias, Culligran and Deanie)
- **Beauly – Loch Buidhe 275kV Reconductoring**
- Arbroath GSP Upgrade
- **Western Isles HVDC Convertor Station**
- Willowdale Substation Upgrade (Aberdeen City)
- **Beauly – Blackhillock – Peterhead 400kV**
- Annual Stakeholder Engagement Plan

# Our Annual Engagement Plan Initiatives

## NET ZERO

- Inc ScotWind, NOA, Likely View & Advocacy
- End Consumer Engagement
- Carbon Reduction inc. SF6

## SUSTAINABILITY, LAND & ENVIRONMENT

- Bio-Diversity Net Gain & VISTA
- Land & Wayleaves
- Environmental & Social Value

## COMMUNITIES

- Over 100 projects in construction & development
- Cluster projects
- Local engagement & local value

## WHOLE ENERGY SYSTEM AND FUTURE SCENARIOS

- Whole Energy System Strategy
- Local Area Energy Plans
- Future Scenarios inc. hydrogen, repowering & land use

## SUPPLY CHAIN

- Sustainable Supply Chain
- Local Supply Chain
- People Supply Chain

## WORLD CLASS ASSET MANAGEMENT

- Data & Digitalisation in network info management
- Network Resilience
- Responding to climate change

## CUSTOMERS

- Customer Strategy
- Improving standards of service
- Addressing barriers to connection

## ENERGY MARKET REFORM

- Role of ESO
- Fragmentation
- TNUoS

We will be publishing our plan for consultation soon. www.ssen-transmission.co.uk/our-stakeholder-engagement/stakeholder-annual-engagement-plan

# Keeping in Touch

SSEN Transmission generation customer connection enquiries - transmission.commercial@sse.com

Supply Chain enquiries – transmission.procurement@sse.com

SSEN Transmission Communities & Landowner enquiries – https://www.ssen-transmission.co.uk/

Any other queries - transmission.stakeholder.engagement@sse.com

FOLLOW US: SSEN-Transmission

FOLLOW US @SSETRANSMISSION

## Eastern HVDC Link

Share

Project overview | Project updates | Project documentation | FAQs

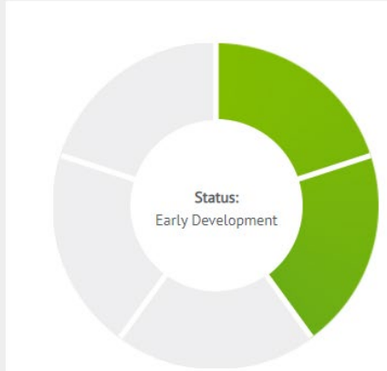
**Project Type:** Transmission reinforcement
**Location:** Aberdeenshire

### Contact Details

Liaison Manager | Land Manager

**Dav Lynch**

**Title:** Community Liaison Manager
**Email:** Dav.S.Lynch@sse.com
**Telephone:** 07918 404443
**Address:** Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ




### Latest

**Regional Webinar - 'SSEN Transmission- North of Scotland: Delivering the Pathway to Net-Zero'**
**Date:** 14 Mar 2022
View article / View all articles

**SSEN Transmission, SPEN and NGET unite to deliver underwater energy super-highway**
16 Nov 2020
View article

### About the Project

The Eastern HVDC Link project is a proposal to install a sub-sea high-voltage direct current (HVDC) cable from Sandford Bay, at Peterhead, to Drax in England.

There is currently a large amount of forecasted generation that will require connection to the electricity network in the coming years and as such we are proposing several upgrades to the transmission network across the north of Scotland to facilitate this. The Eastern HVDC Link will play a key role in helping achieve our Net-Zero targets.

Along with the installation of the sub-sea cable, we will



**Visit our website**
www.ssen-transmission.co.uk

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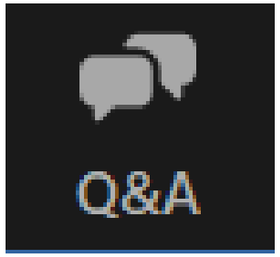


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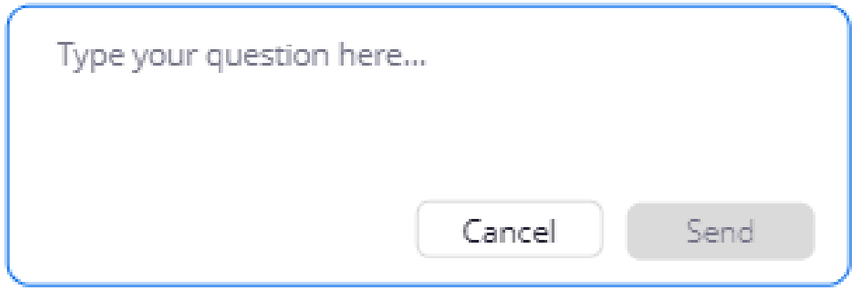


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# Video: SSEN Transmission - Getting to Net Zero

https://vimeo.com/647279628

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# Q&A Session

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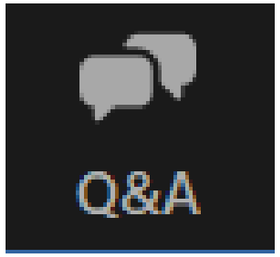


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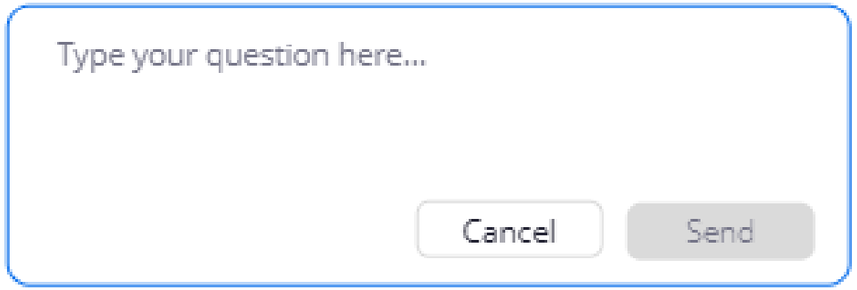


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# Thank you for joining us

A recording of this webinar and the associated slide pack will be available on www.ssen-transmission.co.uk in the next few days

## Sharing your views

**We'll now share with you a short feedback survey**

We're keen to discover:

- Your views on the usefulness of this webinar
- Which subjects you'd like engage with us on e.g.net zero, communities, environment, supply chain
- Which engagement methods you find most suitable and how frequently you'd like to engage e.g. webinars, newsletters, roundtables, townhalls
- You can request to be added to our distribution list to receive updates from us, you can unsubscribe from these communications at any time

SSEN Transmission committed to continuing to improve our stakeholder engagements. We work to achieve the externally accredited AA1000 Stakeholder Engagement Standard and is proud to be operating within the 'Accomplished' level of AccountAbility's Stakeholder Engagement Maturity Ladder

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