Delivering a Network for Net Zero

Tommy Hart BLE (Hons) MRTPI Lead Consents and Environment Manager (East and Argyll Region)

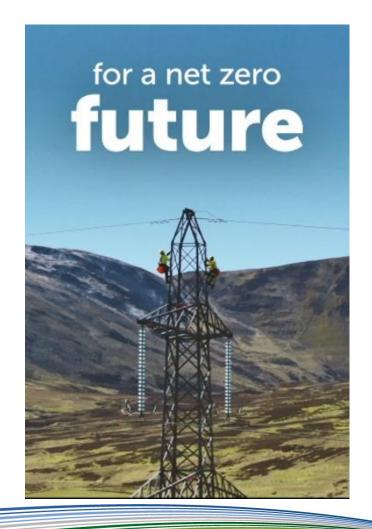
Tommy.Hart@sse.com



About SSEN Transmission

Powering change; delivering a network for net zero

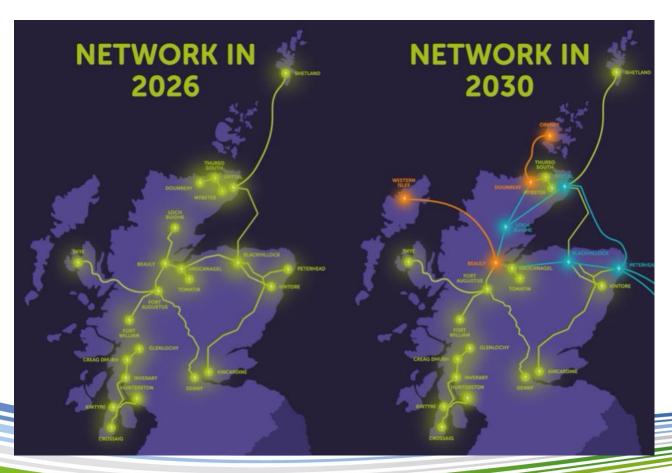
- We own, operate and develop the high voltage electricity transmission system in the north of Scotland and remote islands.
- As a regulated business, delivering critical national infrastructure, our job is to connect the renewable energy needed to support UK and Scotland's emissions reduction targets, delivering a network for net zero.
- We're the first network company to commit to an externally accredited <u>science-based</u> <u>target</u> and the first to consult and implement a sector leading <u>Biodiversity Net Gain</u> <u>strategy</u>.
- Through the current Transmission price control, RIIO-T2, we're planning to invest at least **£2.8bn** between now and 2026, potentially increasing to over **£4bn**, to deliver a network for net zero in the north of Scotland.
- To deliver this we'll need to almost double our workforce between now and 2026.

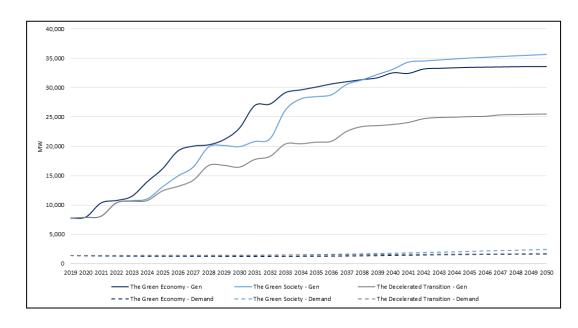




Our purpose: delivering a network for net zero

Our network area in the north of Scotland, will play an outsized role in meeting the UK and Scotland's renewable energy targets, **contributing up to 10% of the UK Net Zero target.**







Our Team







Biodiversity Net Gain



SSEN Transmission - Biodiversity Net Gain on Vimeo



Natural Environment - Case study - Spittal





Wildflower Seeding

In line with the aims of the Scottish Government's Pollinator Strategy, the biodiversity strategy at the site has included wildflower seeding that will provide foraging and nesting habitat for pollinators such as the Great Yellow Bumblebee and other wildlife from moths to Goldfinches. There are 29 species in our wildflower mix which encourage long-lasting plant life and reduce the growth of grasses.



Tree and scrub Planting

Over 20,000 trees and scrub plants have been planted across the area. The following tree species have been planted: Downy birch, Alder, Rowan, Aspen and Bird cherry.



Rare scrub habitat

This habitat is being created using the following species: Eared willow, Grey willow, Goat willow, Hazel, Hawthorn and Blackthorn. It is hoped to encourage rare, local plants and inverterates as well as valuable nesting and feeding habitats for various birds.



Swallow

Swallows use the pond and wetland to feed and nest around the buildings. British swallows spend their winter in South Africa - they travel through western France, across the Pyrenees, down eastern Spain into Morocco and across the Sahara. Migrating swallows cover 200 miles a day, mainly during daylight, at speeds of 17-22 miles per hour.



Wetland Creation

A large area of pond and wetland has been established at the south west of the site which will be an important habitat for birds, aquatic insects, amphibians and foraging for bats.



Pine Marten

Pine Marten can be found in the woodland adjacent to the site. The planted areas will in time extend the available habitat. They prefer woodland habitats, climbing very well and living in tree holes, old squirrel dreys or old birds' nests. It feeds on small rodents, birds, eggs, insects and fruit. During the summer mating season, they make shrill, cat-like calls. The following spring, the female will have a litter of between one to five kits, which are independent by autumn.





Woodland

Woodland loss identified

• EIA/EA

On-site compensation

- wayleave redesign
- regenerate old wayleaves

Off-site compensation

Local planting options

Strategic Delivery Partner No Net Loss from 2021 onwards



Not for profit (3rd Sector) - Example









SF₆ Alternatives



Kintore Substation Carbon reduction



VISTA Project



Killin - In development

Removal of 132kV overhead line infrastructure by installing underground cables behind the village of Killin (9km).

Loch Lomond and Trossachs National Park

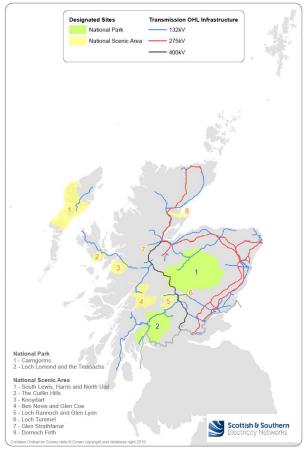


Glen Strathfarrar - In development

Removal of 132kV overhead line infrastructure by installing underground cables from Deanie Power along the side of Loch Beannacharan (3.5km).

Glen Strathfarrar NSA

Glen Falloch final tower removal





Identifying Priorities

- · Identification of transmission infrastructure;
- Screening of transmission infrastructure;
- Initial Landscape & Visual Assessment;
- Identify most important impacts.



Defining the Projects

- · Review priority areas;
- · Identify mitigation options;
- Appraisal of options & potential benefits;
- Selection of infrastructure & mitigation proposals to be progressed.



Developing the Projects

- · Review priority proposals in more detail;
- Technical, Environmental & Economic Feasibility Studies;
- Detailed development of projects in collaboration with Stakeholders.



Consent & Implementation of Projects

- Consultation with consultees & authorities;
- Environmental Assessment (EA);
- Consent applications;
- Submission of Projects to Ofgem.
- Implementation construction & maintenance.











SSEN Transmission



Planning: an enabler for net zero

- Scotland's planning framework has been **fundamental** in supporting the Scottish Government's world leading climate targets to date huge success story.
- However levels of investment in renewables and grid will be unprecedented to support 2030 targets and beyond timescales will be challenging based on current processes.
- **NPF4** is a key opportunity to address current challenges, working with communities and wider stakeholders.
- In addition, the UK Government's recent British Energy Security Strategy
 outlines commitments to accelerate consenting timescales for offshore wind
 projects from 4 years to 1 and reduce timescales for onshore transmission
 projects by 3 years.
- Vital that consenting timescales in Scotland are also **rapidly accelerated**, **and resources increased** to match this level of ambition and ensure a level playing field for projects that enable decarbonisation in Scotland.





Thanks for your time – questions?

