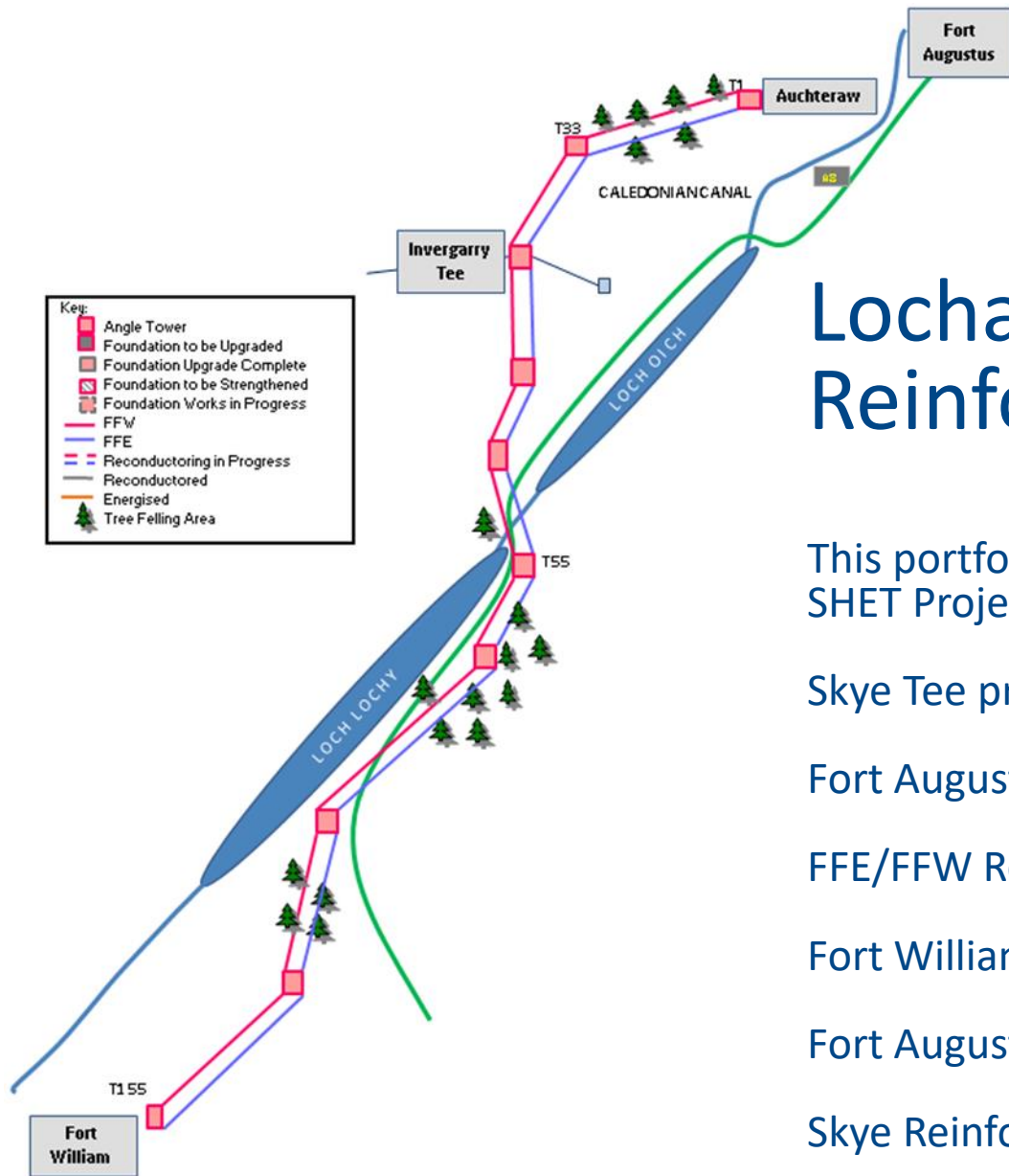


Fort Augustus CLG Update on all local projects

November 2018



Scottish & Southern
Electricity Networks



Lochaber Network Reinforcement portfolio

This portfolio of projects covers the following key SHET Projects across the Lochaber region:

Skye Tee project

Fort Augustus S/S Reinforcement

FFE/FFW Restrtringing project

Fort William GSP project

Fort Augustus S/S 132kV Package Works

Skye Reinforcement project

FA Skye Tee update

Substation works

- Phase 1 complete.
- Phase 2 design complete. BB were back on site early January 2018.
- Phase 1 energised in May 2017.
- Phase 2 S/S works progressing well. BBPTD have now demobilized and will now complete works in June 19.

Underground Cable works

- Phase 1 complete.
- Phase 2 design involved a 2nd cable per phase within already installed ducts.
- Phase 1 energised on programme.
- Phase 2 works have now been postponed until June 2019.

Overhead Line works

- Phase 1 complete.
- Phase 2 work involved installation of one additional single woodpole.
- Phase 1 energised on programme.
- Phase 2 to go live this month.
- Steelwork installation on Terminal poles fully complete.

Woodland works

- Works on OHL build complete.
- Timber extraction complete.
- Works for spine road now complete.
- No further woodland works required to accommodate Phase 2.

New Skye Tee Circuit energised on 22/05/17 as planned. This helped alleviate the over-loading on the Fort William – Fort Augustus 132kV line.

All designs were concluded on schedule for the Phase 2 works. BBPTD Cabling team returned to site and installed the 2nd Cables, with energisation of Phase 2 now on course for completion by late June 2018.

Due to wider network issues, it was not possible to complete the works on the connection of the 2nd Cables – this work has had to be postponed until June 2019 – this has now been booked.

Fort Augustus Substation Redevelopment

400/132kV and 400/275kV Gas Insulated Switchgear

- SHE Transmission's planned works at the Substation were approved by The Highland Council in October 2018.
- The Principal Contractor (GE/Amey) have now been appointed and the focus has now turned to the planning and delivery of the pre-commencement works (Between November 2018 – March 2019).
- SHE Transmission have placed the required order for the new Grid Transformers that will form part of the works.
- Construction works for the main project remain on course to commence in Spring 2019.
- All construction works (Phase I & II) are expected to be complete by October 2023.

FFE / FFW Restringing project

Access Track works

- All required tree felling and thinning works are complete.
- Liaison ongoing with THC & FCS / FES.
- Some small scale works will be required in 2019 (FFE restringing).

Tower / Restringing works

- FFW Overhead Line Circuit now fully restrung – all on target.
- FFE Overhead Line Circuit will be restrung during 2019 (Apr – Oct)
- All reinstatement works & Final Records complete by end of 2020.

Underground Cabling works

- FFW Underground Cable section constructed during 2018 (Apr – Nov) – works complete and on course for energisation.
- FFE Underground Cable section will be constructed during 2019 (Apr – Oct) – Designs complete and ducts fully installed.
- All reinstatement works & Final Records complete by end of 2020.

All overhead line restringing works for this year (2018) were complete ahead of programme. Focus is now on final testing of the Underground Cable elements. Everything remains on programme.

In order to accommodate additional and new renewable energy projects in the West of the country, it is necessary for SHE Transmission to upgrade the existing Fort William to Fort Augustus 132kV overhead line.

This existing overhead line will be restrung using the ACCC Monte Carlo conductor, previously utilised on the Bhlairidh / Beinneun Scheme.

This conductor will allow more than double the volume of power to be carried on the existing infrastructure, without the need for the construction of a new overhead line. Works are being delivered between 2017 and 2020 – all progressing well.

Fort William GSP Redevelopment

Part of the Lochaber Network Infrastructure Reinforcement portfolio

- SHE Transmission have now completed a full refurbishment and upgrade of the Fort William GSP Substation, as part of the wider Lochaber portfolio of works.
- Both 132kV Grid Transformers have been replaced with new units, although all four have been retained temporarily as part of the wider portfolio strategy – retaining all four transformers (until both FFW & FFE Circuits have been fully restrung) will act as a contingency in the event that one of our new transformers develops a fault.
- The Principal Contractor (Siemens BAM) have now completed all of the contractual works and the Fort William team are focusing on the close out of snagging and defects works. A final outage is scheduled between 12/11/18 – 16/11/18. This will conclude the works at Fort William (with the exception of snagging).
- A further outage is scheduled at the end of November to facilitate the transfer of the Kinlochleven Circuit from the FFE Bay over to the FFW Bay. The site will then be fully demobilised until next year.
- All planned works remain on schedule for the remainder of this year.
- Following completion of the FFE overhead line restrung, the two “old” Grid Transformers will be decommissioned and removed from the Fort William site (Circa Nov/Dec 2019).

Fort Augustus S/S “Package” works

<h2>132kV Earthmat</h2> <ul style="list-style-type: none">The 132kV earth mat is now substantially complete with approximately 15% of the works remaining. The works should be complete by Friday 21 December 18.	<h2>Protection Mods</h2> <ul style="list-style-type: none">These no-disruptive works are happening in the background and will continue in the 2019.
<h2>ESQCR works</h2> <ul style="list-style-type: none">In line with H&S Executive Regulations,, some minor works will be carried out including signage replacements, culvert clearing, gravel top-ups, fencing and other smaller jobs within the substation building. Most of these works will be completed early 2019..	<h2>General / Building repairs</h2> <ul style="list-style-type: none">There are some repairs and maintenance of the fittings and fixtures required to the substation building including gutter repair/replacements, signage within the building and w/c upgrades. Most of these works will be completed early 2019..

Fort Augustus Substation has been a hive of activity, in terms of the Scottish Electricity Network, for many years now.

As a result of this, there are numerous small works all around the Substation, left behind as outstanding legacy works from different projects over the years.

A Scope of Works has now been drawn up to capture all of these quality and snagging type jobs around the Substation and these works are being delivered as part of a “Package” contract.

BBPTD are delivering these works for SHET at the S/S.

Skye 2nd 132kV Circuit project

- SHE Transmission has completed the initial overhead line design and held public consultations events at various locations during November 2017.
- The overhead line alignment consultation document was published early in 2018 to provide information on the project and seek comments from stake holders including members of the public.
- A number of objections were received from landowners which SHE Transmission are now assessing and looking at possible alternatives.
- One of the landowner objections relates to our preferred overhead line alignment into Fort Augustus substation which would have followed the recently completed FAST overhead line.
- We are now in discussion with the landowner (FES) to progress a cable alternative for the final part of the circuit into Fort Augustus.

Key Contact names for Projects ongoing at Fort Augustus Substation

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FA Skye Tee Project

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FW-FA Line Restrunging Project

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UGC – Johannes Smit (SSE PM) 07584 011571

OHL - Rob Christie (BBPTD PM) 07971 614155

UGC – Anthony Buist (BBPTD PM) 07849 095781

FAUG S/S Redevelopment Project

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Scott Gray (Construction Mgr) 07469 411810

Contractor confirmed as GE/Amey

Contractor Site / Construction Mgr - TBC

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