Scottish & Southern Electricity Networks

TRANSMISSION

Emmock 400kV Substation
Environmental Impact Assessment (EIA)
Volume 4 | Appendix 5.1

Cumulative Developments

November 2024

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1. INTRODUCTION

The Proposals

This appendix presents a tabulated list of developments, within 3km of the Site with the potential for cumulative effects when considered in conjunction with the Proposed Development. These developments will be referred to in each technical chapter in their assessment of cumulative effects, as necessary.

It should be read in conjunction with **Chapter 5: EIA Process and Methodology, Chapter 14: Cumulative Effects Assessment** and the cumulative effects assessment in each of the technical chapters of the EIA Report.

Table 5.1: Cumulative Developments

Development	Description
Associated SSEN Transmission Developments	
Kintore to Tealing 400 kV OHL	Concurrent with the Proposed Development, these works will form part of the 400 kV East Coast Upgrade. This proposal will connect the Proposed Development, via 106km of new 400kV overhead transmission line with associated towers, to two further substations. One in Fetteresso Forest and a terminal substation outside Kintore. Current buildout is anticipated 2026-2029.
Alyth to Tealing 275 kV OHL tie-in	Contiguous with the Proposed Development, the works comprise a new section of 400kV to be installed on 7 new towers approximately 50m high for a distance of 2.2km from Tower 680 southwards. Existing towers east of Tower 680 to be dismantled and foundations grubbed up. Current buildout is anticipated 2026-2030.
Westfield to Tealing 275 kV OHL tie-in	Contiguous with the Proposed Development, the works comprise a new section of 400kV to be installed on 2 new towers approximately 50m high for a distance of 350m from tower 180 eastwards. Current buildout is anticipated 2026-2030.
2 x 275 kV OHL tie-backs between Emmock and Tealing	Contiguous with the Proposed Development, the works comprise the installation of two short sections of parallel 275kV OHL 'tiebacks' between the proposed Emmock substation and the extant Tealing Substation. Each section will be approximately 1km in length on towers circa 50m high. Current buildout is anticipated 2026-2030.
Other SSEN Transmission Developments	
Alyth to Tealing Reconductoring Not in planning system	Adjacent to the Site. The OHL upgrade works would involve replacing the conductors, insulators and fittings on the existing OHL steel lattice towers between Alyth substation and the existing Tealing substation. This project would upgrade the capability of the line from 275kV to 400kV. Current buildout is anticipated 2026--2029.
Westfield to Tealing Reconductoring Not in planning system	Adjacent to the Site. The OHL upgrade works would involve replacing the conductors, insulators and fittings on the existing OHL steel lattice towers on circa 38km of OHL between the existing Tealing substation and the SSEN Transmission boundary with Scottish Power Energy Networks (SPEN) licence area. This project would upgrade the capability of the line from 275kV to 400kV. Current buildout is anticipated 2026--2029.
Other Third Party Projects (in public domain)	
Fithie Energy Park 24/00124/EIASCR Angus Council ECU00005034 Energy Consents Unit (ECU)	Located adjacent to the Site, approximately 300 m north of Myreton of Claverhouse Farm, Myreton of Claverhouse, Strathmartine. This development comprises construction of up to 1400MW battery energy storage system (BESS) and associated infrastructure combined with an, in excess of, 50MW solar array. Current buildout is anticipated 2031-2032.

Development	Description
Myreton BESS 24/00123/EIASCR Angus Council	Located approximately 900 m south-east of the Site. This development proposal comprises a battery energy storage system with an installed capacity of around 750MW. The timeframe for buildout is not currently in the public domain.
Balnuith Farm BESS ECU00004803 Energy Consents Unit (ECU)	Approximately 200 m east of the Site (immediately northwest of Tealing Substation) The construction and operation of a Battery Energy Storage Facility for the storage of up to a 249 MW of electricity together with associated infrastructure, substation, security fencing, CCTV, security lighting and landscaping. The timeframe for buildout is not currently in the public domain.