

PUBLIC INFORMATION

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Green Recovery Scheme Investment – Doughty Road Primary Substation Grimsby

Project overview			
Project name	Doughty Road Primary Substation	Total investment (£)	£0.2m
Voltage	33kV	Location or relevant substation	Area around Grimsby, DN32
Capacity released (MW)	2	Targeted completion	2023
Project description	To replace cables with higher capacity ones to create additional demand and generation capacity. The project will mitigate for existing network constraints and release the full transformer capacity, supporting development of the Freeport and local economic regeneration.		

Northern Powergrid is investing £53m in vital local electricity networks as part of a national Green Recovery Scheme which aims to accelerate green-growth projects and stimulate the economy. A total of 14 projects in 17 locations across our region are set to benefit.

We have completed the detailed design work required for each of the 14 projects and following final approval, work on the Doughty Road project is now underway. From this point onwards, any relevant new connections offers that are issued will factor in the capacity made available through the Green Recovery Scheme, meaning that applicants could benefit from significantly cheaper connections costs.

This document provides potential applicants with an overview of the project and the information required to apply for a new connection.

For more information on the Green Recovery Scheme visit our website northernpowergrid.com/green-recovery or email greenrecovery@northernpowergrid.com

Project specification

The scheme is one of 14 projects that was shortlisted by Northern Powergrid for the Green Recovery Scheme and has subsequently been approved by Ofgem.

Intelligence from the Green Recovery Scheme call for evidence, where stakeholders were invited to make the case for why their locality should be selected for investment and Northern Powergrid's own network data identified future demand growth within the Grimsby Freeport area. Accelerated network investment in this area would enable a diverse range of green-growth projects including Electric Vehicle (EV) charging hubs and garden cities to come forward quicker and general load growth in the area.

Doughty Road 33/11 kV primary substation and Moss Road supply point are located within the Grimsby DN32 area. They are surrounded by a mixture of residential, commercial and industrial buildings with a big green field to the south. The two substations are connected by a pair of cable circuits of short distance (approximately 0.35 km) between the two substations and are mostly laid in public roads as shown in figure 1 below.

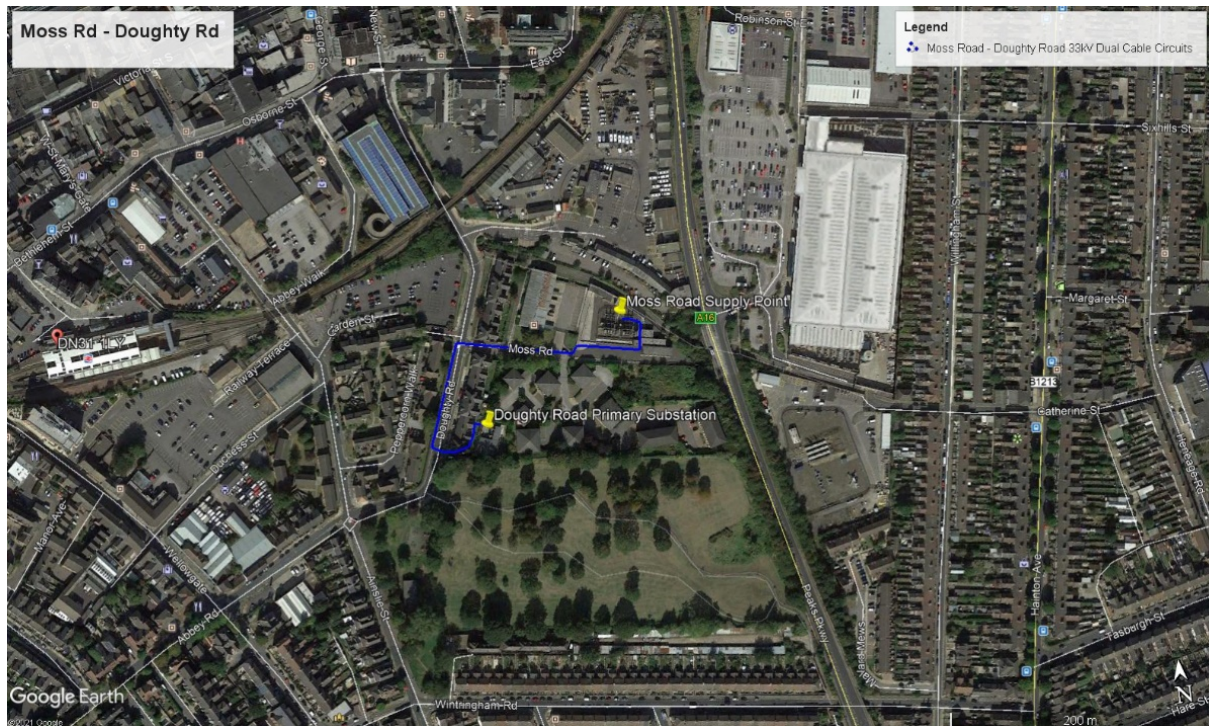


Figure 1 – Existing cable route between the Moss Road and Doughty Road substations

Doughty Road primary substation had a maximum demand of approximately 18MVA in 2018/19. Demand data shows a maximum demand of 20.5MVA over the last 12 months. It has a firm capacity of 20.9MVA, which is limited by the existing 33kV feeder cable circuits. Replacing the dual cable circuits would increase the firm capacity to that of the transformer 11kV switchgear rating of 22.9MVA. The next limiting factor is the 33/11kV transformer rating, which is 24MVA. The circuits will be sized to allow for future upgrade of the transformers and allow a firm capacity of 30MVA in the future.