



Moyvannan Electricity Substation

Environmental Impact Assessment Report

Annex 9.3: Landscape & Ecological Mitigation Plan

Energia Renewables ROI Limited

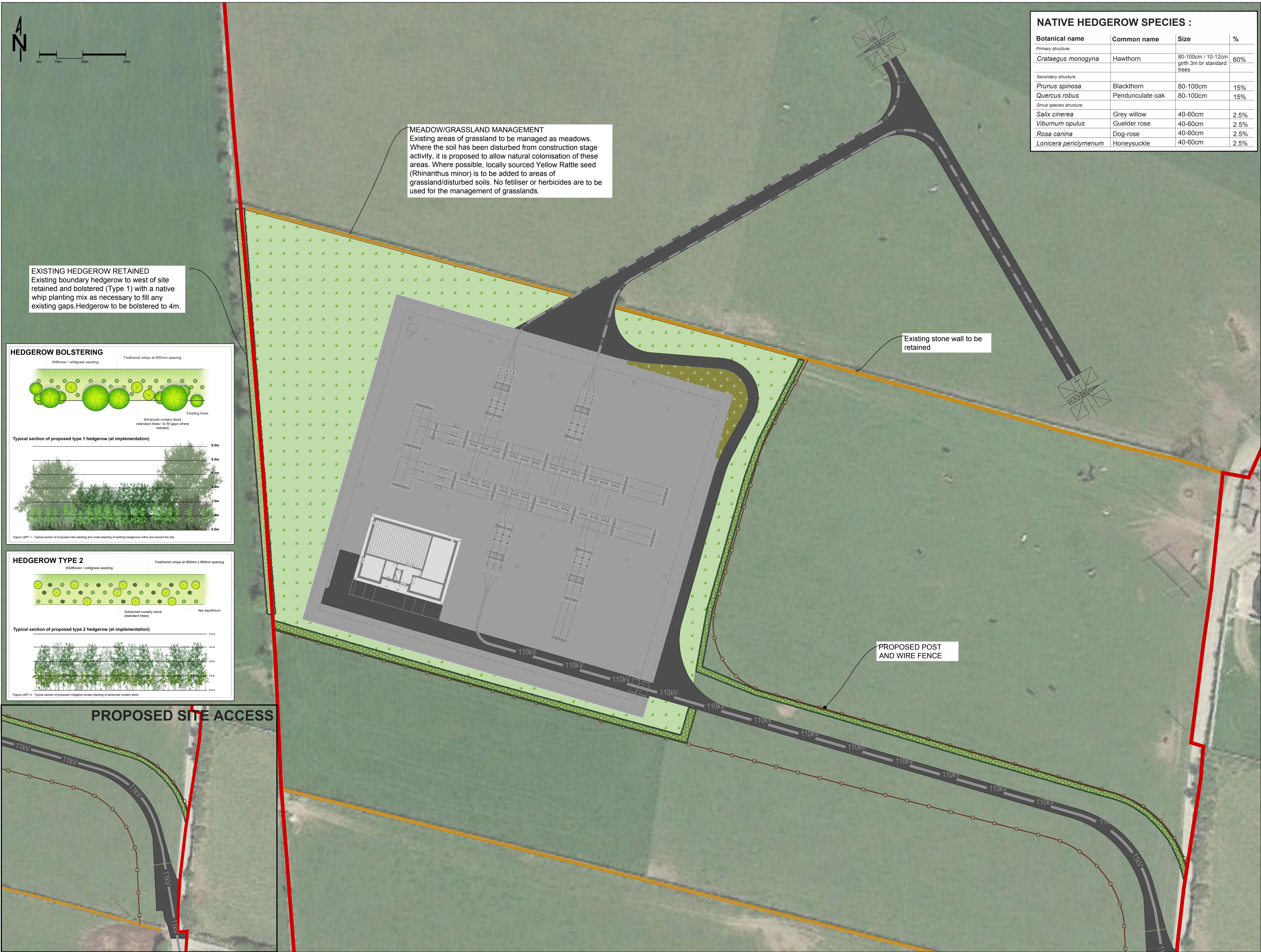
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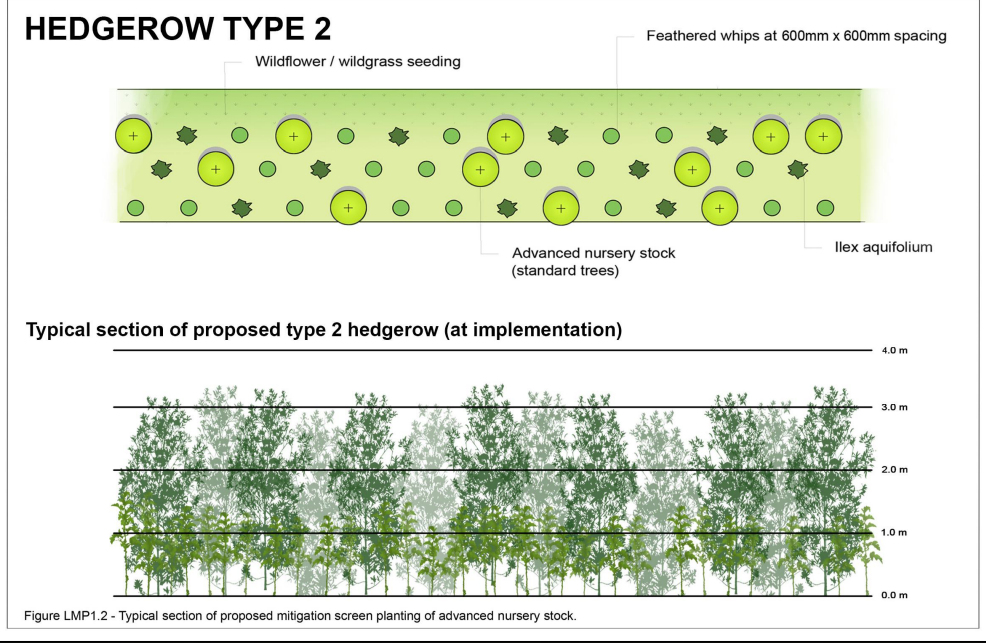
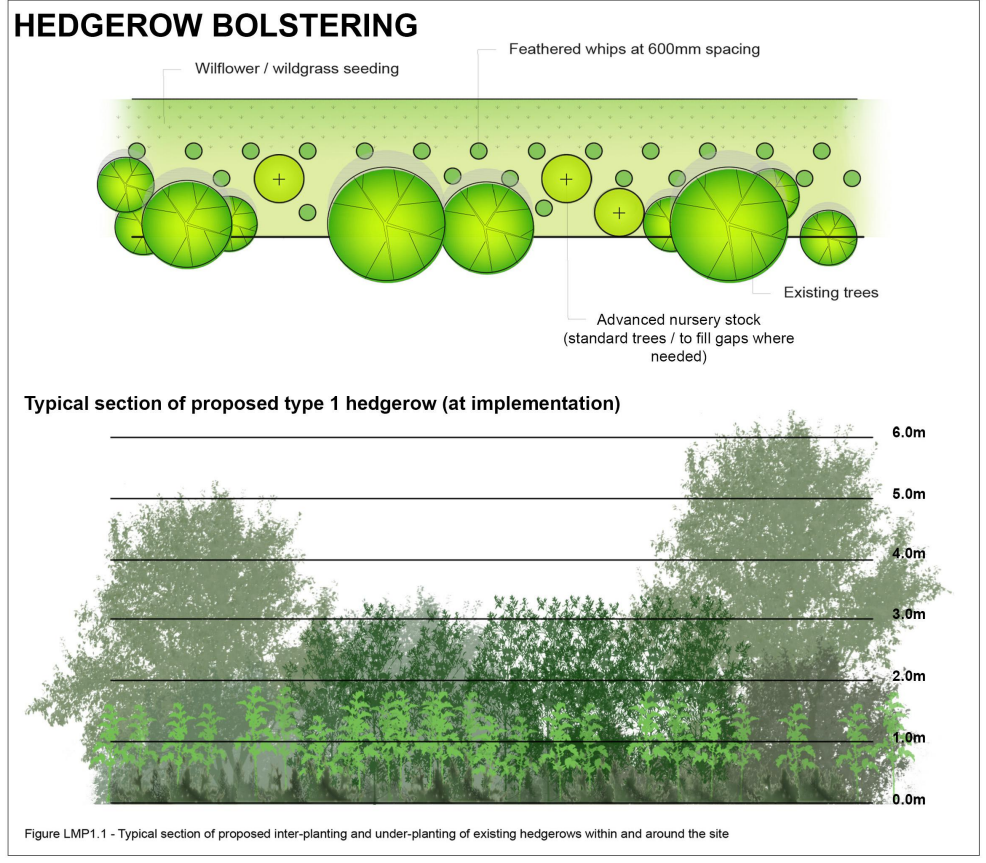
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MEADOW/GRASSLAND MANAGEMENT
Existing areas of grassland to be managed as meadows. Where the soil has been disturbed from construction stage activity, it is proposed to allow natural colonisation of these areas. Where possible, locally sourced Yellow Rattle seed (*Rhinanthus minor*) is to be added to areas of grassland/disturbed soils. No fertiliser or herbicides are to be used for the management of grasslands.

EXISTING HEDGEROW RETAINED
Existing boundary hedgerow to west of site retained and bolstered (Type 1) with a native whip planting mix as necessary to fill any existing gaps. Hedgerow to be bolstered to 4m.



NATIVE HEDGEROW SPECIES :

Botanical name	Common name	Size	%
Primary structure:			
<i>Crataegus monogyna</i>	Hawthorn	80-100cm / 10-12cm girth 3m br standard trees	60%
Secondary structure:			
<i>Prunus spinosa</i>	Blackthorn	80-100cm	15%
<i>Quercus robur</i>	Pendunculate oak	80-100cm	15%
Shrub species structure:			
<i>Salix cinerea</i>	Grey willow	40-60cm	2.5%
<i>Viburnum opulus</i>	Gelder rose	40-60cm	2.5%
<i>Rosa canina</i>	Dog-rose	40-60cm	2.5%
<i>Lonicera periclymenum</i>	Honeysuckle	40-60cm	2.5%



Legend:

- EXISTING HEDGEROW (TYPE 1)
- PROPOSED HEDGEROW (TYPE 2)
- GRASSLAND/MEADOW MANAGEMENT
- NATURAL REGENERATION
- EXISTING STONE WALL TO BE RETAINED
- PROPOSED FENCE
- SITE BOUNDARY

Notes:

The function of the proposed mitigation planting is primarily for screening, but it will also enhance the ecological corridors that area already present within the surrounding trees lines and hedgerows.

It is imperative to use native Irish species in so far as possible as they are adapted to Irish conditions and therefore more likely to thrive compared to imported stock. Selected species should also represent woodland and hedgerows in the surrounding environs although non-native species are not to be used, unless otherwise agreed with the Planning Authority.

All plants supplied shall be exactly true to name as shown in the plant schedules. Varieties with variegated and/or coloured leaves will not be accepted, and any plant found to be of this type upon leafing-out shall be replaced by the contractor. Bundles of plants shall be marked in conformity with BS3936: Part 1: 1965 and BS3936: part 4: 1966. The nursery supplier shall replace any plants which, on leafing out, are found not to conform to the labels.

Trees to be planted varying at between 1.5m x 1.5m to 3.0m x 3.0m spacings, whilst a mixed arrangement of shrubs are to be planted between 900mm and 1500mm.

Hedgerows

Mitigation screen planting shall consist of a mixture of native hedgerow species that are prevalent in the immediate area. Planting to consist of feathered whips (of various sizes) and advanced nursery stock (where necessary) in staggered rows at a spacing of 600mm.

All native species will be planted as whips, with the primary and secondary structure species to be of a minimum height of 80-100cm and the other shrub species to be of a minimum height of 40-60cm.

Existing and new sections of hedgerow to be planted and bolstered as per diagram LMP1.1 and LMP1.2 and maintained at a height of 3-4m unless otherwise specified.

Field Margins/Grassland Management

Field margins and residual areas of the site to be planted. It will be important to flail these areas every year during the period of September 15th to February 28th. A full management regime in accordance with best practice will be adhered to, ensuring that the species will thrive through natural regeneration. Such grassland and management techniques have been shown to increase biodiversity at similar development sites, with numbers of pollinators clearly benefiting from these food sources and an increased presence of other animals in these margins being evident as well when compared to improved grassland margins managed more intensely.

Species mix to be finalised in conjunction with the project ecologist.

Landscape Figures

Existing Hedgerow Bolstered (Type 1) - 247 linear meters
New Hedgerow (Type 2) - 808 linear meters

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Site location:

COUNTY ROSCOMMON

Drawing Title:
LANDSCAPE AND ECOLOGICAL MITIGATION PLAN

Project:
MOYVANNAN SUBSTATION

Drawn by:
RAH

Checked by:
RC

Drawing Ref:
LD.SVNHLIS-SBST 1.0

Scale:
1:500 @ A1

Date:
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DRAFT

