Landscaping Proposal

Timoleague Agri Gen,
Barryshall,
Timoleague,
Bandon,
Con Cork

NRGE Ltd

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NRGE Ltd

2. Introduction

NRGE Ltd were engaged by Timoleague Agri Gen, Timoleague, Bandon, Co. Cork to prepare a landscaping proposal as an attachment to the EIS for Timoleague Agri gen regards the proposed development which will consist/consists of a Biogas Plant consisting of 2 no digester tanks, 2 no validation tanks, 1 no Homogenising tank, 3 no geo-membrane lined manure storage basins, 1 no fibre store, 1 No Feed Tank, Reception Building, Plant Building, Pasteurisation Tanks, Weighbridge and associated site works including an Integrated Constructed Wetlands to produce renewable energy and fertilizer at Barryshall, Timoleague, Co. Cork.

3. Description

The proposed landscaping and tree planting will be carried out on the site of the proposed development in Barryshall, Timoleague, Co. Cork, as identified on folio maps provided by Timoleague Agri Gen . A site visit was undertaken to inspect the above site, on behalf of NRGE Ltd, Mooresfort, Lattin Co. Tipperary. It was found that the site is on an incline and is partially visible from a number of locations adjacent to the public roadway.

An Integrated Construction Wetland system (CW) will also be constructed (see report compiled by Aila Carthy of VESI Environmental) as part of the overall project. This ICW will have a screening specific to the construction and running of an ICW of its own as covered in said report.

There is some existing screening, but this proposed development will require more screening in the form of a burm using soil unearthed during construction activity.

To limit any potential environmental or aesthetic issue species of trees will be planted to fit in with local species.

On the North-western and South-western Boundaries existing mature trees will remain. The historic along the North-eastern boundary will also be maintained and strengthen. All non-native species as well as dead or diseased plants to be removed, with native hedgerow species to be planted as infill.

According to most specifications, screening buildings in coastal exposed sites should include the following recommended species:

Trees;

42 of the following will be planted as saplings; Sycamore (*Acer pseudoplatanus*), Alder (*Alnus glutinosa*), Hazel (Corylus), each 1.5 metres high at 6 metre spacing's, 1 metre out from the inner fence surrounding the biogas plant.

Screen Fencing:

Plant Hawthorn/Beech and Holly 0.6 metres in height, in a single row (at c. 600mm centres) between the trees.

Attached to this landscaping proposal is a map showing where the proposed trees are to go – 032 Site Plan Landscaping Planting.

The constructed burm on the South Eastern side of the proposed site will be approximately 3m high with the sides sloped at a gradient of 1 m. The elevated section at the centre of the burm will vary in width from 4m to 9m. Planting on the top of the burm will be in 2.5m x 2.5m grids consisting Sycamore (Acer pseudoplatanus), Alder (Alnus glutinosa), Hazel (Corylus).

The burm constructed along the Eastern Side of the farm will vary in height from 2.5m to 3m and will follow the contour of the land the slopes for the burm will again have a gradient at the sides of 1 in 1. The planting of the trees will be 1.5 metres high at 6 metre spacing's, 1 metre out from the inner fence surrounding the biogas plant.

Alder is a member of the birch family of trees, *Betulaceae*, and can reach 25 metres in height. Like the birches, it is a pioneer species which grows quickly and is relatively short-lived, with the maximum age typically being 150 years. The annual rate of growth can be up to 90 cm a year when the tree is young, and after the death of the original trunk, new shoots can sprout from the base, forming a multi-stemmed clump of new growth.

Hazel is a member of the birch family of trees, Betulaceae, and can grow to a height of 10 metres, although in Scotland it is usually no more than 6 metres tall. Typically it has a number of shoots or trunks branching out at, or just above, ground level, and this growth habit has led to some people referring to it as a bush rather than a tree, because it doesn't meet the strict definition for a tree, of having a single stem that is unbranched near the ground.

Hazel's ability to produce multiple stems gives it a dense, spreading appearance and has led to its extensive use for coppicing. It is a short-lived tree, reaching 50-70 years in age, but if it is coppiced, either by people or naturally through damage to its trunks, it will live much longer.

The sycamore tree grows very fast, and its branches spread out to give it a large, rounded shape. It is a native tree to central and southern Europe. It usually only lives for about 150 years and the flowers of a sycamore tree are yellow-green in colour, and hang down from the branches in clusters.

Planting will be carried out in the first growing season after planning has been granted and when soil from excavation is available to construct the burm.

4. Recommendations

- Aftercare should include trimming to control Hawthorn growth
- Grass control around saplings.
- Spray the site with round-up (4 litres/Ha) pre-planting to eliminate competing weeds.
- Any trees that fail must be replanted.

This report has been prepared by NRGE Ltd with all reasonable skill, care and diligence. Information report herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

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Dermot Leahy BAgrSc

(Environmental Science)

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- Photo of proposed development area. (IV)
- (V) Site Plan of proposed development.
- (VI) Site Plan of Integrated Constructed Wetland system (ICW).

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Photo of proposed development area



