

Indicative Planting Mixes						
Latin Name	Common Name	Mix %	Height/girth	Age	Root/ Container	Form
Feathered Trees						
Feathered Trees to be added as part of the Screen Mix below.						
<i>Alnus glutinosa</i>	Alder	20	350--~400 cm	3x	RB	Feathered/Standard
<i>Prunus padus</i>	Bird Cherry	15	250~300 cm	2x	BR	Feathered/Standard
<i>Quercus petraea</i>	Sessile Oak	20	350--~400 cm	3x	RB	Feathered/Standard
<i>Malus sylvestris</i>	Crab Apple	20	300--~350 cm	3x	RB	Feathered/Standard
<i>Sorbus aria</i>	Whitebeam	25	350--~400 cm	3x	RB	Feathered/Standard
Hedgerow Mix						
Planted as double staggered rows at 6 per metre and spacing of 300-400mm between rows or as individual whip planting through existing gaps as required.						
<i>Corylus avellana</i>	Hazel	8	60-90 cm	1+1	BR	Transplant
<i>Crataegus monogyna</i>	Hawthorn	55	60-90 cm	1+1	BR	Transplant
<i>Euonymus Europaeus</i>	Spindle	8	60-90 cm	1+1	BR	Transplant
<i>Ilex aquifolium</i>	Holly	10	40-60 cm		C	
<i>Prunus spinosa</i>	Blackthorn	10	60-90 cm	1+1	BR	Transplant
<i>Rosa canina</i>	Dog Rose	2	60-90 cm	1+1	BR	Transplant
<i>Viburnum opulus</i>	Gueider Rose	7	60-90 cm	1+1	BR	Transplant
Screening Mix						
Planted at 3m ² in groups of no more than 7 of the same species and to consist of the following mix:						
<i>Alnus glutinosa</i>	Alder	25	120-150 cm	1+2	BR	Transplant
<i>Crataegus monogyna</i>	Hawthorn	25	120-150 cm	1+2	BR	Transplant
<i>Euonymus Europaeus</i>	Spindle	8	60-90 cm	1+1	BR	Transplant
<i>Ilex aquifolium</i>	Holly	2	60-80 cm	3L	C	
<i>Prunus spinosa</i>	Blackthorn	10	100-120 cm	1+1	BR	Transplant
<i>Sambucus nigra</i>	Elderberry	5	60-90 cm	1+1	BR	Transplant
<i>Viburnum opulus</i>	Gueider Rose	10	60-90 cm	1+1	BR	Transplant
<i>Salix cinerea</i>	Grey Willow	15	100-120 cm	0+1	BR	Transplant

Grassland and Wildflower Mixes					
Note: Final parameters chosen to best suit the underlying soil conditions and to be approved by the ecologist.					
Species Rich Grassland Mix					
Sow rate of 20kg/ha.					
Latin Name	Common Name	Mix %	Latin Name	Common Name	Mix %
<i>Agrostis capillaris</i>	Common Bent	4	<i>Cynosurus cristatus</i>	Crested Dog's Tail	4
<i>Festuca rubra</i>	Red Fescue	35	<i>Festuca ovina</i>	Sheep's Fescue	27
<i>Poa pratensis</i>	Smooth Stalked Meadow Grass	15	<i>Poa trivialis</i>	Rough Stalked Meadow Grass	15
Wildflower Mix					
Sow rate of 40kg per ha with 80% grass and 20% wildflower ratio.					
Latin Name	Common Name	Mix %	Latin Name	Common Name	Mix %
<i>Lotus corniculatus</i>	Birds Foot Trefoil	8	<i>Leucanthemum vulgare</i>	Ox-eye Daisy	8
<i>Centaurea nigra</i>	Black Knapweed	5	<i>Silene dioica/latifolia</i>	Red/White Campion	2.00
<i>Medicago lupulina</i>	Black Medick	3	<i>Trifolium repens</i>	Red Clover	10
<i>Vicia sativa</i>	Common Vetch	4	<i>Prunella vulgaris</i>	Selfheal	5
<i>Gallium verum</i>	Lady's Bedstraw	2.00	<i>Onobrychis vicifolia</i>	Sainfoin	36
<i>Lathyrus pratensis</i>	Meadow Vetchling	3	<i>Achillea millefolium</i>	Yarrow	6
<i>Ranunculus acris</i>	Meadow Buttercup	3	<i>Rhinanthus minor</i>	Yellow Rattle	3

Indicative Wild Bird Seed Mix		
Sow rate of 250kg/ha.		
Latin Name	Common Name	Mix %
<i>Sinapis arvensis</i>	Mustard	10
<i>Triticum spp</i>	Spring Wheat	25
<i>Panicum miliaceum</i>	White Millet	20
<i>Panicum miliaceum</i>	Red Millet	10
xTriticosecale	Triticale	10
<i>Hordeum vulgare</i> L.	Barley	25

Outline Landscape Specifications:

Existing Vegetation:

Any necessary works being undertaken within close proximity and to the retained tree lined hedgerows should be carried out in accordance with BS 3998:2010 Tree work Recommendations and BS 5637:2012 Trees in relation to design demolition and construction.

Proposed Planting:

Planting to be supplied in accordance with BS 3936-1:1992 Nursery Stock. specification for trees and shrubs, BS 3936 4:2007 Nursery Stock.Specification for forest trees, poplars and willows, BS 8545:2014 Trees:from nursery to independence in the landscape. All landscaping works to be in accordance with BS4428:1989 "General Landscaping Works." All planting should be sourced from local provenance certified seed stock where possible and from an approved supplier of the Green, Low-Carbon, Agri-Environment Scheme (GLAS),other sources will need to be approved.

Feathered Tree Planting:

Trees will be planted into tree pits 2-3 times the width of root spread and to the depth of root spread. The tree pit's sides are to be loosened, base aerated and later backfilled with the existing excavated subsoil and topsoil. All trees to be supported with a suitable tree guard and staked with adjustable tree ties.

Hedgerow Planting:

The new hedgerows will be planted into a hand dug trench, measuring a min of 600mm wide and 300mm deep, allowing enough width and depth for the roots. Similarly, infill planting of whips along existing hedgerows to be carried out by slit planting or trenching. Layering may be considered where it can possibly achieve better filling out of gaps of less than 1m wide. Prior to planting up gaps in the existing hedgerows any scrub or ivy should be cleared from around their bases. The existing soil should be improved by digging in well rotten Farm Yard Manure or other soil improver. All hedging will be supported with rabbit guards and canes and 1m wide mulch matting.Temporary stock proof fencing should be used to prevent grazing of new hedgerows by livestock if necessary.

Grassland & Wildflower Planting:

The fields will be sown with a low growing species rich grassland mix, which will be lightly grazed by sheep or cutting. This seeding mix should be applied only to areas of disturbed lands within the areas indicated on the plan. The areas of wildflower and wild bird seed mixes will be separated from this grassland by a stock-proof fencing to prevent any possible grazing by animals.

Ver.	Date	Comments

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Project: Coolshamrock Solar Farm
Client: RES Ltd.
Drawing: Landscape & Ecology Management Plan

Key

Landscaping & Ecology Measures

- Existing Trees and Hedgerows (with heights) to be retained
- Hedgerow and Trees to be removed
- Proposed Hedgerow planting
- Proposed Species Rich Grassland Mix
- Proposed Screen planting
- Existing River and Drains
- Proposed Wildflower Mix
- Proposed Hibernaculum - 4no.
- Proposed Bird Box - 10no.
- Proposed Bat Box - 8no.

Proposed Site Features

- PLANNING APPLICATION BOUNDARY (OUTSIDE OF LINE DENOTES BOUNDARY)
- TRACK
- INVERTER SUBSTATION
- HARDSTANDING
- TEMPORARY CONSTRUCTION COMPOUND
- SUBSTATION AREA FOR FUTURE APPLICATION
- FENCING
- INDICATIVE SOLAR PV ARRAY
- CCTV (SIZE SHOWN INDICATIVELY)
- UNDERGROUND CABLE
- DIRECTIONAL DRILLING
- CABLE UNDERPASS
- HDD LAYDOWN WORKING AREA
- 110kV BUFFER AREA
- DOUBLE ACCESS GATE
- SINGLE ACCESS GATE
- SITE ENTRANCE

Project No.: NEO00848

Drawing No. : NEO00848_025L_A Figure 1:10

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