AENC-ARC-ENV-REP-0179

Norwich to Tilbury

Volume 7: Other Documents

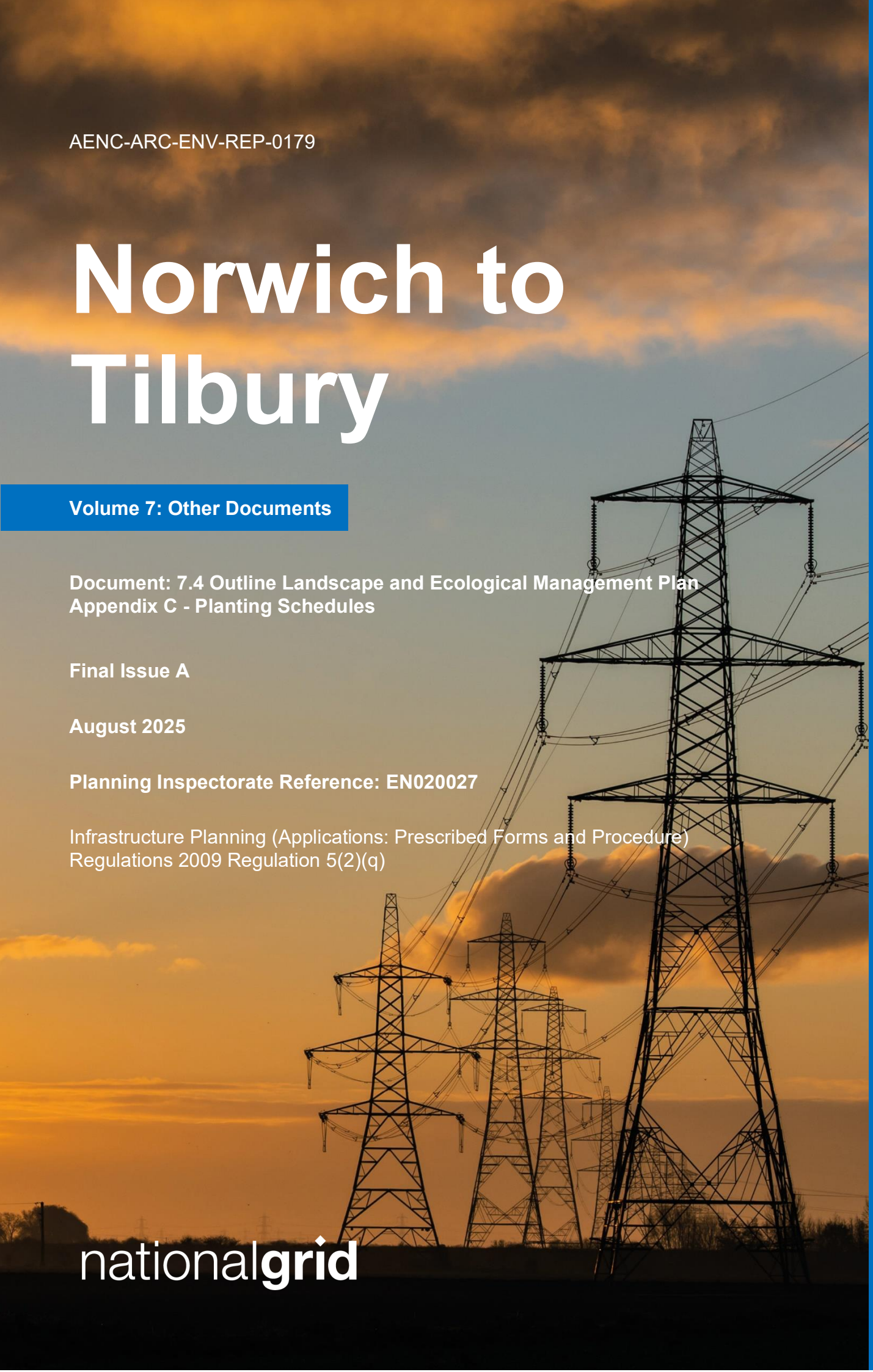
Document: 7.4 Outline Landscape and Ecological Management Plan Appendix C - Planting Schedules

Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(q)



nationalgrid

Contents

1. Introduction

1.1 Summary

1.1.1 National Grid Electricity Transmission plc ('National Grid') owns and maintains the national high voltage electricity transmission network throughout England and Wales.

1.1.2 National Grid has developed plans for Norwich to Tilbury (the 'Project'). The Project would support the UK's net zero target through the connection of new low carbon energy generation in East Anglia and by reinforcing the transmission network.

1.1.3 The Project comprises reinforcement of the transmission network between the existing Norwich Main Substation in Norfolk and Tilbury Substation in Essex, via Bramford Substation, the new East Anglia Connection Node (EACN) Substation and the new Tilbury North Substation.

1.1.4 The following indicative planting schedules sit with the Outline Landscape and Ecological Management Plan (LEMP) (document reference 7.4). It is recognised that there may be minor refinements to the planting schedules through the examination process and as details designs develop as part of the application for development consent. The planting schedules have been developed to accompany the following outline landscape proposals included in Appendix D of the Outline LEMP (document reference 7.4):

- 12055-LUC-XX-XX-DR-L-0001 – Land around Norwich Main Substation – Landscape Proposals
- 12055-LUC-XX-XX-DR-L-0003 – Land around EACN Substation – Landscape Proposals
- 12055-LUC-XX-XX-DR-L-0006 – Land around Wenham Grove Cable Sealing End (CSE) Compound – Landscape Proposals
- 12055-LUC-XX-XX-DR-L-0007 – Land around Great Horkesley (EACN Side) CSE Compound - Landscape Proposals
- 12055-LUC-XX-XX-DR-L-0008 – Land around Great Horkesley (Tilbury Side) CSE Compound – Landscape Proposals
- 12055-LUC-XX-XX-DR-L-0009 – Land around Fairstead (EACN Side) and Fairstead (Tilbury Side) CSE Compounds – Landscape Proposals
- 12055-LUC-XX-XX-DR-L-0011 – Land around Tilbury North Substation and Tilbury North (Warley Side) and Tilbury North (Tilbury Side) CSE Compounds (without Lower Thames Crossing) – Landscape Proposals
- 12055-LUC-XX-XX-DR-L-0012 – Land around Tilbury North Substation and Tilbury North (Warley Side) and Tilbury North (Tilbury Side) CSE Compounds (with Lower Thames Crossing) – Landscape Proposals.

1.2 Woodland and Enhancement of Existing Vegetation

1.2.1 Proposals for new and replacement woodland and enhancement of existing areas of vegetation are illustrated on the outline landscape proposals in Appendix D of the Outline LEMP (document reference 7.4) and include the following:

- **EV-1:** Existing vegetation retained and enhanced – introduce supplementary tree and scrub planting.
- **EV-2:** Existing vegetation to be managed under overhead lines – any tree planting to be removed below the overhead lines – extents to be advised by the Engineering Team.
- **EV-3:** Existing vegetation retained and enhanced – supplement any gaps with native hedgerow species and native tree species.
- **PV-1:** Proposed Native Woodland Mix – to provide screening, enhance existing woodlands and wildlife corridors. Minimum depth 20 m, unless indicated. A range of sizes to be planted – whips (80%), feathered trees (15%) and light standards (5%).

1.2.2 Species from the following indicative planting list would be used in these areas.

Table C1 Proposed native woodland mix

Species	Common Name	% Mix	Height (cm)	Specification	Grown	Density
Acer campestre	Field Maple	20	80% whips - 60 to 80 cm/ 40 to 60 cm 15% feathered trees - 1.25 to 1.5 m 5% light standard - 6 to 8 cm girth, 2 to 2.5 m	Branched 3 breaks 2x feathered with breaks 2x feathered with 5 breaks	Bare Root (BR)	1/m²
Alnus glutinosa	Alder	15			BR	1/m²
Carpinus betulus	Hornbeam	10			BR	1/m²
Prunus avium	Wild Cherry	5			BR	1/m²
Quercus robur	Common Oak	10			BR	1/m²
Corylus avellana	Hazel	5			BR	1/m²
Crataegus monogyna	Hawthorn	20			BR	1/m²
Ilex aquifolium	Holly	5			Container Grown (C/G) 3L pot	1/m²
Prunus spinosa	Blackthorn	5			BR	1/m²
Salix fragilis	Crack Willow	5			BR	1/m²

1.3 Native Trees

1.3.1 Proposals for native trees are illustrated on the outline landscape proposals in Appendix D of the Outline LEMP (document reference 7.4) and include the following:

- **PV-2:** Proposed Native Trees – to provide structure to field boundaries, hedgerows and areas of proposed native scrub.
  - Field boundaries/ Hedgerows – Select Standards
  - Proposed native scrub areas – Light Standards and Standards

1.3.2 Species from the following indicative planting list would be used.

Table C2 Proposed native trees

Species	Common Name	% Mix	Field Boundaries/ Hedgerows - Height (cm)	Native Scrub Areas - Height (cm	Specification
Acer campestre	Field Maple	30	Select Standards (10 to12 cm girth, 3.0 to 3.5 m height, clear stem 1.75 to 2 m)	Light Standards (6 to 8 cm girth) Standards (8 to 10 cm girth)	2x feathered with breaks
Quercus robur	English Oak	20			2x feathered with breaks
Carpinus betulus	Hornbeam	30			2x feathered with breaks
Malus species	Crab Apple	10			2x feathered with breaks
Prunus avium	Wild Cherry	10			2x feathered with breaks

1.4 Native Scrub

1.4.1 Proposals for areas of native scrub (including scrubby woodland edge mixes) are illustrated on the outline landscape proposals in Appendix D of the Outline LEMP (document reference 7.4) and include the following:

- **PV-3:** Proposed Native Scrub mix – Increased areas of shrub planting to maximise biodiversity enhancement and provide screening, enhance existing woodlands and vary structure planting.

1.4.2 Species from the following indicative planting list would be used.

Table C3 Proposed native scrub mix

Species	Common Name	% Mix	Height (cm)	Specification	Grown	Density
Corylus avellana	Hazel	20	60 to 80	1 +1 transplant	BR	

Species	Common Name	% Mix	Height (cm)	Specification	Grown	Density
Crataegus monogyna	Hawthorn	40	60 to 80	1 +1 transplant	BR	3/ m² in groups of 3 to 5
Prunus spinosa	Blackthorn	15	60 to 80	1 +1 transplant	BR	
Ligustrum vulgare	Wild Privet	5	60 to 80	1 +1 transplant	BR	
Euonymus europaeus	Spindle	10	60 to 80	1 +1 transplant	BR	
Cornus sanguinea	Dogwood	5	60 to 80	1 +1 transplant	BR	
Rosa canina	Wild Rose	5	60 to 80	1 +1 transplant	BR	

1.5 Native Hedgerow

1.5.1 Proposals for native hedgerow are illustrated on the outline landscape proposals in Appendix D of the Outline LEMP (document reference 7.4) and include the following:

- **PV-4:** Proposed Native Hedgerow – To provide low level screening to visual receptors, reinstate lost field boundaries and enhance landscape character, provide green infrastructure connectivity, additional habitat for nesting birds and wildlife corridors.

1.5.2 Species from the following indicative planting list would be used.

Table C4 Proposed native hedgerow mix

Species	Common Name	% Mix	Height (cm)	Specification	Grown	Density
Acer campestre	Field Maple	10	40 to 60	1+1 transplant	BR	Planted at 300 mm centres – six plants per linear m in double staggered rows, species evenly distributed
Crataegus monogyna	Hawthorn	40	40 to 60	1+1 transplant	BR	
Carpinus betulus	Hornbeam	15	40 to 60	1+1 transplant	BR	
Corylus avellana	Hazel	10	40 to 60	1+1 transplant	BR	
Prunus spinosa	Blackthorn	5	40 to 60	1+1 transplant	BR	
Ligustrum vulgare	Wild Privet	5	40 to 60	1+1 transplant	BR	
Euonymus europaeus	Spindle	10	40 to 60	1+1 transplant	BR	
Rosa canina	Wild Rose	5	40 to 60	1+1 transplant	BR	

1.6 Neutral Grassland

1.6.1 Proposals for neutral grassland are illustrated on the outline landscape proposals in Appendix D of the Outline LEMP (document reference 7.4) and include the following:

- **PV-5:** Proposed Neutral Grassland.

1.6.2 Neutral grassland seed mixes would be site specific and specified at detailed design stage.

1.7 Emergent/ Marginal Planting

1.7.1 Proposals for emergent/ marginal planting are illustrated on the outline landscape proposals in Appendix D of the Outline LEMP (document reference 7.4) and include the following:

- **PV-6:** Emergent/ Marginal Planting – Wetland seed mix around the proposed Suds – to favour amphibians and invertebrates use of ponds

1.7.2 Wetland seed mixes would be site specific and specified at detailed design stage.

Abbreviations

Abbreviation	Definition
BR	Bare Root
C/G	Container Grown
CSE	Cable Sealing End
EACN	East Anglia Connection Node
LEMP	Landscape and Ecological Management Plan

Glossary

Term	Description
Cable Sealing End compound	Electrical infrastructure used as the transition point between overhead lines and underground cables. A compound on the ground acts as the principal transition point.
Local Planning Authority	The public authority whose duty it is to carry out specific planning functions for a particular area.
Nationally Significant Infrastructure Projects (NSIPs)	The UK government considers these projects to be of national significance due to their size, impact, and potential benefits to the wider community and economy.
Outline LEMP	The Outline Landscape and Ecological Management Plan outlines the intentions and overarching principles which support the Development Consent Order application (document reference 7.4).
Overhead line	Conductor (wire) carrying electric current, strung from pylon to pylon.
Substation	Substations are used to control the flow of power through the electricity system. They are also used to change (or transform) the voltage from a higher to lower voltage to allow it to be transmitted to local homes and businesses.

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