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Bramford to Twinstead Reinforcement

2.3 Preliminary Environmental Information Report

Volume 3 Figures

January 2022

nationalgrid



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FIGURE 1.1

- Section boundaries
- Draft Order Limits
- Proposed Grid Supply Point (GSP) Substation
- Existing Bramford Substation
- Local authority districts
 - Area of Outstanding Natural Beauty (AONB)

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Proposed Pylon	Ancient Woodland Inventory Site				
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Existing Pylon					
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- Section Boundaries
- Draft Order Limits
- **T** Study Area (5km)
- Distance Marker (3km)
- Distance Marker (1km)
- Local authority districts
- Dedham Vale Area of Outstanding Natural Beauty
- 🔀 Stour Valley Project Area
- Special Landscape Areas (SLA)





- Section Boundaries
- Draft Order Limits
- **[]** Study Area (5km)
- Distance Marker (3km)
- Distance Marker (1km)
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- 🔀 Stour Valley Project Area
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Legend

- Section Boundaries
- **Draft Order Limits**
- Study Area (5km)
- Distance Marker (3km) 27
- Distance Marker (1km)
- Local authority districts
- Potential Ancient Woodland (PoAW)
- Ancient Woodland

National Foresty Inventory

Woodland



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- Section Boundaries
- Draft Order Limits
- **T** Study Area (5km)
- **[]** Distance Marker (3km)
- Distance Marker (1km)
- Local authority districts
- Potential Ancient Woodland (PoAW)
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National Foresty Inventory

Woodland

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Legend

- Section Boundaries
- Existing overhead line
- \square Existing Bramford Substation
- **Draft Order Limits**
- Study Area (5km)
- Distance Marker (3km) 53
- Distance Marker (1km)
- Local authority districts
- **Urban Settlements**
- Railway Line +
- 🚃 A Road
- B Road

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Legend

- Section Boundaries
- Existing overhead line
- Existing Bramford Substation
- Draft Order Limits
- Study Area (5km)
- Distance Marker (3km) 53
- Distance Marker (1km)
- Local authority districts
- Urban Settlements
- +Railway Line
- A Road C
- B Road



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FIGURE 6.5







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FIGURE 6.13



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FIGURE 7.1

Legend

- - Section Boundaries

- Draft Order Limits
- Study Area (2km)
- Main Rivers
- Ordinary Watercourses
- Special Protection Areas (SPA)
- Wetlands of International Importance (RAMSARs)
- Site of Special Scientific Interest (SSSI)
 - Local Nature Reserve (LNR)

Statutory designated sites shown where these lie within the 2km study area or a potential impact pathway has been identified beyond 2km.

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Legend

N

S

- - Section Boundaries

- Draft Order Limits
- Study Area (2km)
- Main Rivers
- Ordinary Watercourses
- Special Protection Areas (SPA)
- Wetlands of International Importance (RAMSARs)
- Site of Special Scientific Interest (SSSI)
 - Local Nature Reserve (LNR)

Statutory designated sites shown where these lie within the 2km study area or a potential impact pathway has been identified beyond 2km.

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Legend - Habitat Type

- × A2.2 Scattered scrub
- A3.1 Scattered broad-leaved tree
- A3.2 Scattered coniferous tree
- × C1.2 Scattered bracken
- Conifer Hedge
- A2.1 Scrub dense/continuous
 - B6 Poor semi-improved grassland
- G1 Standing water
- G2 Running water
- J2.11 Native species-rich intact hedge
- ----- J2.12 Species-poor intact hedge
- J2.21 Native species-rich defunct hedge
- – – J2.22 Species-poor defunct hedge
- J2.31 Native species-rich hedge and trees
- J2.32 Species-poor hedge and trees
- HITHIN J2.4 Fence

		J2.6 - Dry ditch		B5 -
		A1.1.1 - Semi-natural broad-leaved woodland	SI SI SI SI SI SI	B6 -
		A1.1.2 - Plantation broad-leaved woodland		C1.1
		A1.2.2 - Plantation coniferous woodland		C3.1
		A1.3.2 - Plantation mixed woodland		E2.1
		A2.1 - Dense/continuous scrub		F1 -
		A2.2 - Scattered scrub		G1 -
		A3.1 - Broad-leaved parkland/scattered trees		G2 -
		A5 - Orchard	A A A A A A A A	J1.1
e		B1.1 - Unimproved acid grassland	A A A A A A A A	J1.2
	SI SI SI	B1.2 - Semi-improved acid grassland		J1.3
		B2.1 - Unimproved neutral grassland		J1.4
	SI SI SI SI SI SI	B2.2 - Semi-improved neutral grassland		J2.2
	M M M M M M M M	B2.3 - Species-rich modified neutral grassland		J3.6
	M M M I M M M I	B2.4 - Species-poor modified neutral		J3.7

I I I I I I

MMMM

grassland

B4 - Improved grassland

- Marsh/marshy grassland

- Poor semi-improved grassland

.1 - Continuous bracken

.1- Tall ruderal

1 - Acid/neutral flush

- Swamp

- Standing water

- Running Water

1 - Arable

2 - Amenity grassland

3 - Ephemeral/short perennial

4 - Introduced shrub

2.2 - Defunct hedge - species-poor

6 - Buildings

J3.7 - Track

J4 - Bare ground





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Figure 7.6: Badger Baseline (CONFIDENTIAL)

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FIGURE 7.7a



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BRAMFORD TO TWINSTEAD

Drawing Title

Bat Baseline (Field Survey Results)

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쓝 🛛 Soprano Pipistrelle Bat Bat Activity Transect Record 2012/3

🛧 Unknown

2012/3 Bat Activity Field Survey

- Common pipistrelle
- Pipistelle spp
- Soprano pipstrelle
- 🔵 Unknown

Bats Roosts in Trees – Potential Survey 2021 (up to July 2021)

- 🔺 High
- 🛕 Moderate
- 🛦 Low
- Brown Long-Eared Bat

Brown Long-eared Bat

Common Pipistrelle

Myotis Species

O Pipistrelle Species

Soprano Pipistrelle

Bat Transect

🔂 Barbastelle bat

Noctule Bat

O Unknown

2012/3 Survey

Legend

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FIGURE 7.8a

Legend	Section Boundaries	HS	House Sparrow
	Draft Order Limits	$\tilde{\mathbf{O}}$	Lapwing
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_	Site of Special Scientific Interest		Linnet
	(SSSI)	LP	Little Ringed Plover
225	County Wildlife Site (CWS)	MT	Marsh Tit
••••	Essex Wildlife Trust (EWT) Nature Reserves	M	Mistle Thrush
2021	Desk Study	N	Nightingale
Sched	lule 1 Species	~	
BO	Barn Owl	S.)	Skylark
(KF)	Kingfisher	ST	Song Thrush
(KT)	Red Kite	SF	Spotted Flycatcher
Red Li	ist	SG	Starling
CK	Cuckoo	TD	Turtle Dove
CU	Curlew	W	Yellow Wagtail
P.	Grey Partridge	(Y)	Yellowhammer
GL	Grey Wagtail		

Only Designated Sites with breeding birds and raptors in citation are displayed.

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Legend	Section Boundaries	HS	House Sparrow
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	(SSSI)	LP	Little Ringed Plover
200	County Wildlife Site (CWS)	MT	Marsh Tit
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BO	Barn Owl	s.)	Skylark
(KF)	Kingfisher	ST	Song Thrush
(C)	Red Kite	SF	Spotted Flycatcher
Red Li		SG	Starling
CK	Cuckoo	Ē	Turtle Dove
CU	Curlew	W	Yellow Wagtail
P	Grey Partridge	8	Yellowhammer
GL	Grey Wagtail	Ţ	

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FIGURE 7.8a

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Legend	Section Boundaries	HS	House Sparrow
	Draft Order Limits	$\tilde{\mathbf{O}}$	Lapwing
	Study Area (1km)		Lesser Spotted Woodpecke
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	Site of Special Scientific Interest	(LI)	Linnet
	(SSSI)	LP	Little Ringed Plover
200	County Wildlife Site (CWS)	MT	Marsh Tit
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BO	Barn Owl	S	Skylark
(KF)	Kingfisher	ST	Song Thrush
(KT)	Red Kite	SF	Spotted Flycatcher
Red L	ist	SG	Starling
CK	Cuckoo	TD	Turtle Dove
CU	Curlew	W	Yellow Wagtail
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	🌖 Skylark		Meadow Pipit	
	Song Thr	ush	🛞 Mistle Thrush	
	😵 Starling		50 Stock Dove	
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	Lapwing			k-backed Gull
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	 Skylark Song Thr 	ush	🛞 Mallard	
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	Lapwing		ĸ	Kestrel	ooupeen	-	
F	Linnet		(P)	Meadow	Pipit		
	Marsh Tit		14	Mallard			
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	BoCC = Birde of	Conservation Concern					
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v Far		es (BoCC) and S41 NERC Act		BoCC)
/	Species		🐼 Common Gull	
-	Linnet		🐵 Great Black-ba	cked Gull
T	Marsh Tit		😥 🛛 Green Woodpe	cker
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Legend				
 Section Boundaries 	P)	Grey Partridge	Y.	Yellowhammer
Draft Order Limits	GL	Grey Wagtail	CK	Cuckoo
Study Area (1km) Schedule 1 Species	HG	Herring Gull	GE	Green Sandpiper
BO Barn Owl	HS	House Sparrow	SP	Scaup
BL Brambling	Ŀ	Lapwing	ML	Merlin
FF) Fieldfare	LR	Lesser Redpoll	N	Nightingale
(KF) Kingfisher		Linnet	Amb	er List
(PE) Peregrine	MT	Marsh Tit	RK	Redshank
(KT) Red Kite	M·	Mistle Thrush	Othe	-
	s.	Skylark	RP	Common Ringed Plover
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Red List	(MK)	Woodcock		
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For English Wintering Birds Survey study area summary see inset table. Survey Area beyond scale of figure.





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Draft Order Limits	GL)	Grey Wagtail	CK	Cuckoo
Study Area (1km) Schedule 1 Species	HG	Herring Gull	GE	Green Sandpiper
	HS	House Sparrow	SP	Scaup
BO Barn Owl	0	nouse spanow	S	Seaup
BL Brambling	Ŀ	Lapwing	ML	Merlin
(FF) Fieldfare	LR	Lesser Redpoll	N	Nightingale
(KF) Kingfisher		Linnet	Amb	er List
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For English Wintering Birds Survey study area summary see inset table. Survey Area beyond scale of figure.





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Draft Order Limits	GL	Grey Wagtail	CK	Cuckoo
📰 📔 Study Area (1km)	HG	Herring Gull	GE	Green Sandpiper
Schedule 1 Species	U	······	9	
BO Barn Owl	HS	House Sparrow	SP	Scaup
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(FF) Fieldfare	LR	Lesser Redpoll	N	Nightingale
(KF) Kingfisher		Linnet	Amb	er List
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For English Wintering Birds Survey study area summary see inset table. Survey Area beyond scale of figure.





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Legend

- - Section Boundaries
- Draft Order Limits
- Study Area (1km)

2012/3 Field Survey

- GCN Assumed Present
- GCN Assumed Absent 0

2021 Desk Study

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Great Crested Newt Desk Study Record 0

Great Crested Newt Habitat

- Core Terrestrial Habitat (50m)
- Intermediate Terrestrial Habitat

(250m)





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Legend

- - Section Boundaries
- Draft Order Limits
- Study Area (1km)
- Designated Sites with Reptiles Cited
- County Wildlife Site (CWS)
- 2013 Field Survey
- Slow Worm
- Common Lizard
- 🕀 Grass Snake
- 2021 Desk Study
- ★ Common Lizard
- ☆ Grass Snake
- 🚖 Slow-worm

Only CWS with Reptiles cited are shown





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N E		FIGU	RE 7.13	
	Draft Draft Study Main Non- Designated Mammals C	Main Rivers <u>Sites with Ripar ted</u> cy Wildlife Site (CWS) <u>Field Survey</u> r Vole <u>Study</u>	Otter rian A Footpr Sprain O Undefi 2021 Field St Water Vole Burrow	ghting ay ined record int t t ined Record <u>urvey (May to July 2021)</u> v ed vegetation bile
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	FIGUE	RE 7.1	13		
Draft Draft Study Main Non- Designated Mammals C Coun	ty Wildlife Site (CWS) <u>Field Survey</u> r Vole <u>Study</u> w	▲ Li ♥ Pa ● UI Otter M ← Fc UI 0 UI 2021 Fie Water Vc ● Bi ▲ Cr ↓ Fc		cord May to July 20	<u>021)</u>
	Riparian Mammals cited are displa	Conta Copyrig		Ipswic gh ita © Crowi tabase righ 2021	
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	FIC	GURE	7	.13
Draf Stud Mair Non Designated Mammals Cour 2012/2011 Mate 2021 Desk Water Vole Mater Vole Mater Vole	<u>Lited</u> hty Wildlife Site (CW <u>3 Field Survey</u> er Vole r <u>Stud</u> Y	<u>Riparian</u> S)	Otter	Latrine Live sighting Pathway Undefined record Footprint Spraint Undefined Record Field Survey (May to July 20) r Vole Burrow Cropped vegetation Food pile Pathway
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Caddisfly - Nationally Notable Dragonfly - Near Threatened

Moth - Species of Principal Importance in England

Z	Bee - Species of Principal Importance in England						
z	Butterfly	- Species of Principal Importance in England					
	Stag Bee	tle					
No	te: Only C	NS with Terrestrial Invertebrate citation are sh	own.				
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FIGURE 7.15

Lege	nd		
	Section Boundaries	Plant	t - Schedule 9
	Draft Order Limits	÷	Bohemian Knotweed
<u> </u>	Study Area (1km)	÷	Elodea canadensis
<u>2021</u>	Desk Study	÷	Elodea nuttallii
Anim	al - Schedule 9	4	Giant Hogweed
\triangle	American Mink	4	Giant Knotweed
\triangle	Canada G∂ose	_	Himilayan Balsam
\triangle	Chinese Muntjac	7	-
\land	Red-eared Terrapin	-	New Zealand Pigmyweed
\wedge	Ring-necked Parakeet	Plant	t - Other INNS
	Signal Crayfish		Alexanders
_	Turkish Crayfish		Butterfly-bush
Anim	al - Other INNS	\bigcirc	Canadian Goldenrod
	Crangonyx pseudogracilis/floridanus	\bigcirc	False-acacia
	Drosophila suzukii (fly)	\bigcirc	Fringed Water-lily
-		\bigcirc	Italian Alder
	Harlequin Ladybird	0	Least Duckweed
	Jenkins' Spire Snail	0	Lesser Bulrush
	New Zealand Mud Snail	~	Turkey Oak

- 🔵 Turkey Oak
- Winter Heliotrope

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FIGURE 7.15

Lege	nd		
• •	Section Boundaries	Plant	t - Schedule 9
	Draft Order Limits	÷	Bohemian Knotweed
<u> </u>	Study Area (1km)	÷	Elodea canadensis
2021	Desk Study	÷	Elodea nuttallii
Anim	nal - Schedule 9	4	Giant Hogweed
\triangle	American Mink	4	Giant Knotweed
\triangle	Canada G∂ose	4	Himilayan Balsam
\triangle	Chinese Muntjac	<u> </u>	New Zealand Pigmyweed
\triangle	Red-eared Terrapin		
\wedge	Ring-necked Parakeet	Plan	t - Other INNS
_	Signal Crayfish		Alexanders
_	Turkish Crayfish	0	Butterfly-bush
Anim	nal - Other INNS	\bigcirc	Canadian Goldenrod
	Crangonyx pseudogracilis/floridanus	\bigcirc	False-acacia
	Drosophila suzukii (fly)	\bigcirc	Fringed Water-lily
		\bigcirc	Italian Alder
	Harlequin Ladybird	0	Least Duckweed
	Jenkins' Spire Snail	0	Lesser Bulrush
	New Zealand Mud Snail	0	Turkey Oak

- Winter Heliotrope
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Invasive Non-Native Species Baseline

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FIGURE 7.15

Lege	nd		
5	Section Boundaries	Plan	t - Schedule 9
	Draft Order Limits	÷	Bohemian Knotweed
21	Study Area (1km)	4	Elodea canadensis
2021	1 Desk Study	÷	Elodea nuttallii
Anim	nal - Schedµle 9	4	Giant Hogweed
\triangle	American Mink	÷	Giant Knotweed
\triangle	Canada Gøose	4	Himilayan Balsam
\triangle	Chinese Muntjac	÷	New Zealand Pigmyweed
\triangle	Red-eared Terrapin	Plan	t - Other INNS
\triangle	Ring-necked Parakeet		Alexanders
\triangle	Signal Crayfish		Butterfly-bush
\triangle	Turkish Crayfish		Canadian Goldenrod
Anim	nal - Other INNS	~	False-acacia
	Crangonyx pseudogracilis/floridanus	0	
	Drosophila suzukii (fly)	0	Fringed Water-lily
	Harlequin Ladybird	0	Italian Alder
	Jenkins' Spire Snail	0	Least Duckweed
	New Zealand Mud Snail	0	Lesser Bulrush
			Turkey Oak

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Note: Only Contaminated Land within the Order Limits has been labelled





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N E	FIGURE 10.2
S	Legend
iCE	Section Boundaries
areve -	Draft Order Limits
1 B	[] Wider Study Area (1km)
	County Council Area
	Mineral Extraction Sites
A.S.	Proposed Mineral Extraction Sites
TIT	Mineral Consultation Areas
A.	Minerals and Waste Sites
Hdrai Wood HAR	Minerals and Waste Sites Safeguarding
Sprough Mano Indu	Mineral Safeguarding Area Chalk 2019
	Mineral Safeguarding Area Sand and Gravel 2019
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FIGURE 10.2



- - Section Boundaries
- Draft Order Limits
- Wider Study Area (1km)
- County Council Area
- Mineral Extraction Sites
- Proposed Mineral Extraction Sites
- Mineral Consultation Areas
- Minerals and Waste Sites
- Minerals and Waste Sites Safeguarding
- Mineral Safeguarding Area Chalk 2019
- Mineral Safeguarding Area Sand and Gravel 2019





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Legend

- - Section Boundaries

Draft Order Limits

Locations of proposed ALC surveys

Proposed Grid Supply Point (GSP) Substation

Proposed Cable Sealing End Compound

Agricultural Land Classification (ALC)

- Grade 2
- Grade 3
- Grade 4
- Non Agricultural
- Urban





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- - Section Boundaries

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Legend

- - Section Boundaries

- Draft Order Limits
- Felling licence applications
- Woodland grant schemes
- Environmental stewardship agreements
- Entry level plus higher level stewardship
- Higher level stewardship





Legend

- - Section Boundaries

- Draft Order Limits
- Felling licence applications
- Woodland grant schemes
- Environmental stewardship agreements
- Entry level plus higher level stewardship
- Higher level stewardship





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- - Section Boundaries

- Draft Order Limits
- Felling licence applications
- Woodland grant schemes
- Environmental stewardship agreements
- Entry level plus higher level stewardship
- Higher level stewardship





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FIGURE 12.1

Legend

- - Section Boundaries
- Draft Order Limits
- Access Point
- Construction Traffic Route
- AP Access Point Reference
- CR Construction Traffic Route Reference





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FIGURE 12.1

Legend

- - Section Boundaries
- Draft Order Limits
- Access Point
- Construction Traffic Route
- AP Access Point Reference
- CR Construction Traffic Route Reference





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Legend

- - Section Boundaries
- Draft Order Limits
- Access Point
- Construction Traffic Route
- AP Access Point Reference
- CR Construction Traffic Route Reference





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FIGURE 13.1

Legend

- Section Boundaries
- Draft Order Limits
- Dust Risk Assessment study area (350m)
- Construction Route Study Area (200m)
- Air Quality Management Area (AQMA)

Residential and Community Receptors (based on AddressPlus data)

- 🔵 0 20m
- 20 50m
- **o** 50 100m
- O 100 200m
- O 200 350m
- Access Point
- Construction Traffic Route

Note : Distance calculated for receptors are from draft order limits.

Note 2 : Ecological receptors can be found on Figures 7.1, 7.2 and 7.3.





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FIGURE 13.1

Legend

- Section Boundaries
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- **5**0 100m
- O 100 200m
- O 200 350m
- Access Point
- Construction Traffic Route

Note : Distance calculated for receptors are from draft order limits.

Note 2 : Ecological receptors can be found on Figures 7.1, 7.2 and 7.3.





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FIGURE 13.1

Legend

- Section Boundaries
- Draft Order Limits
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- Construction Route Study Area (200m)
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Residential and Community Receptors (based on AddressPlus data)

- o 20m
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- **o** 50 100m
- O 100 200m
- O 200 350m
- Access Point
- Construction Traffic Route

Note : Distance calculated for receptors are from draft order limits.

Note 2 : Ecological receptors can be found on Figures 7.1, 7.2 and 7.3.





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Legend

- - Section boundaries
- Draft Ørder Limits
- 👖 📱 Study Area (10km)

Applications within 1km

- Planning applications Long List (Stage 1)
- Planning applications Short list (taken forward to Stage 3)
- Development Consent Orders

Applications/Allocations between 1-10km

- Development allocations
- Planning applications Long list (Stage 1)
- Planning applications Short list (taken forward \bigcirc to Stage 3)

NOTE: This 10km study area excludes significant urban areas, including Ipswich and south of the A12 (see Chapter 15: Cumulative Effects for details). The following proposed developments are excluded from the figure for clarity and/or lack of details on the location but are included within the long and short lists as appropriate: Anglian Water pipeline (ID 461), East Anglia Green (ID462 and 463) and three National Grid projects involving uprating of existing circuits (ID 465, 466 and 467).

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FIGURE 15.1 Legend Section boundaries Draft Ørder Limits 💶 📱 Study Area (10km) Applications within 1km Planning applications - Long List (Stage 1) Planning applications - Short list (taken forward to Stage 3) **Development Consent Orders** Applications/Allocations between 1-10km O Development allocations \bigcirc Planning applications - Long list (Stage 1) Planning applications - Short list (taken forward to Stage 3)

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- Section boundaries
- Draft Ørder Limits
- 👖 📱 Study Area (10km)

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- Development Consent Orders

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- Section boundaries
- Draft Ørder Limits
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Legend

- Section boundaries
- Local authority districts Indicative approach to Bramford Substation for East Anglia GREEN
- Windfarm Sites
- Existing National Grid Network
- 400kV

Bramford to Twinstead Project features

- Existing Bramford Substation
- Draft Order Limits

- Proposed overhead line
- Proposed underground cables
- Modification works to the existing overhead line
- Proposed realignment of existing overhead line
- Temporary 400kV overhead line during construction
- Proposed overhead line removal

These assumptions for East Anglia GREEN (ATNC and AENC in NOA 2021) have been made to support the statutory consultation on the Bramford to Twinstead Reinforcement. The actual East Anglia GREEN proposals taken forward will reflect the outcome of ongoing siting and routeing work, environmental assessment and will be subject to separate consultation.

This figure has been produced to help communicate the information available for the preliminary cumulative effects assessment presented in the PEI Report. For simplicity, this only shows one Bramford to Twinstead option, in this case Option 1. The cumulative effects assessment presented within the Environmental Statement will be based on the option that is selected following the statutory consultation

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