

North Norfolk District Council: Experience of solar farm developments

Cathy Batchelar

And

Kerys Witton







Guidance Documents

nmental benefits

nmon with other forms of renewable and low carb le part of the UKs energy future. This information / of advice relating to solar parks, their siting, thei ion requirements for the safeguarding of the natues there may be for financial support through envin is to help developers and landowners consider pomental benefits of a solar park whilst avoiding twironmental features. If you would like to discuss her Information section below for contact details.

tions of multiple solar lles, usually mounted 1.5r greenfield or brownfield n 2 and 15 hectares, d on current installations s note will be updated as tumstances develop, be written as and when in becomes available.

pment, solar parks have he landscape, natural logical and archaeological be caused during les are being erected or ulative impacts might also sited close to one another. Archaeological irronmental impacts, but and benefits to the w carbon energy.

need planning permission ority, for more information icil. If you are considering you can avoid any d costs by discussing your proposals with Natural earliest opportunity.



German solar farm with she

Our specialists should be ab from the outset on what to de environment. To date (June England has recommended all onshore energy schemes 100% of those offshore. Sch progress smoothly share sor characteristics, including eng Natural England well before consultation phase required

The development of large scale (>50kW) solar PV arrays

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Department for Communities and

Local Government

Planning practice guidance for renewable and low carbon energy



Planning guidance for the development of large scale ground























Department for Communities and Local Government



Direct Impacts

relating to solar parks, their sitting, the ments for the land a bitateloss by developers and a bitateloss

 Least productive land for agriculture (Grade 3b or above, paragraph 112 of NPPF) may be better in nature conservation terms

Renewable Energy Planning Guidance Note 2

Loss of habitat for rare arable weeds and invertebrates scale (>50kW) solar PV arrays

Fragmentation

Security fencing acting as a barrier to movement

displacement of species



Indirect Impacts

Land-use change







Avoidance and mitigation

Planning guidance for the development of large scale ground

Retain existing landscape features such as hedgerows or mature trees

Time construction to avoid sensitive periods e.g. bird breeding season

Use of pile foundations in preference to concrete foundations

Minimise the use of security lighting

COU

need planning permission ority, for more information icil. If you are considering t you can avoid any id costs by discussing

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Band basedwish for energy
section and planning



- Enhancement Opportunities
 - >5m Buffer strips between solar panels and hedges
 - Conversion to grassland or wildflower rich meadows
 - Grazing by sheep, chickens or geese
 - Enhance hedgerows as part of screening

July 2013 artment for Communities and Local Government



EIA Screening for large scale solar arrays

- Not listed under Schedule 2 of the Regulations
- Could have a likely significant effect on the environment
- Proposal should be assessed against the selection criteria identified in Schedule 3 of the Regulations
 - Characteristics of the development
 - Location of the development
 - Characteristics of the potential impact



EIA Screening Opinion Requests – not taken forward to full application (to date)

Reference	Location	Size (Ha)	Output (MW)
DE21/11/0039	Stody Estate	20	5
DE21/12/0125	Extension to Carlton Farm, North Walsham	21	6
DE21/12/0229	Extension to Carlton Farm, North Walsham	5	4
DE21/12/0236	Norwich Road, North Walsham	25	7
DE21/12/0237	Worstead Farm, North Walsham	15	9
DE21/12/0230	Horning Road, Hoveton	28	10
DE21/12/0235	Grange Farm, Hoveton	17	4
DE21/12/0268	Mill Lane, Plumstead	35	12
DE21/12/0275	Stody Estate	31	11
DE21/12/0276	Sandy Hills, North Walsham	11	5
DE21/13/0042	Foulsham Airfield	6	4
DE21/13/0074	Becketts Farm, Hempstead	25	15
DE21/13/0106	Reepham Road, Briston	15	7
DE21/13/0162	Top Farm, Great Snoring	15	7
	TOTAL	269	79



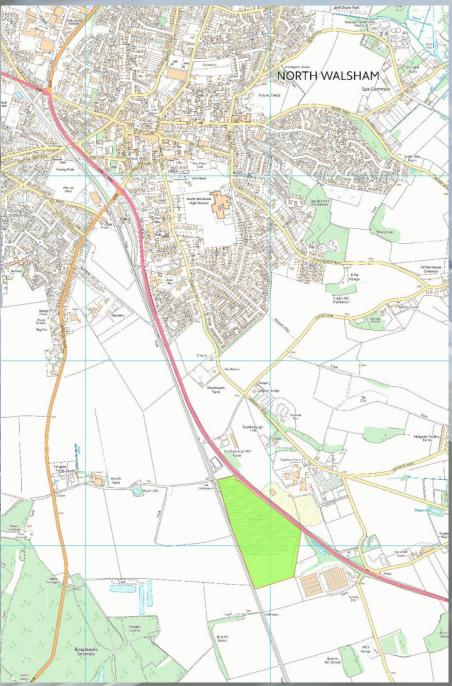
Scheme	Submission Date	Planning Reference	Area of proposal (Ha)	Size of Output (MW)	Planning Permission Granted	Operational status
Carlton Farm, Worstead, North Walsham	March 2011	PF/11/0418	16	5	Yes – 24 th May 2011	Operational
Manor Farm, Crossdale Street, Northrepps	July 2012	PF/12/0816	26	10	Yes – 15 th November 2012	Under Construction
North Creake Airfield, Egmere, Walsingham	February 2013	PF/13/0168	42	20	Yes – 21 st March 2013	Under Construction
Hall Farm, East Beckham	June 2013	PF/13/0772	25	10	Yes – 23 rd September 2013	Preparing for Construction
Pond Farm, Bodham	August 2013	PF/13/0960	8	3.6	Pending	-
Former Airfield, West Raynham, Fakenham	October 2013	PF/13/1166	96	49.9	Pending	-
		TOTAL	213	98.5		

	Scheme	Submission Date	Planning Reference	Area of proposal (Ha)	Size of Output (MW)	Planning Permission Granted
	Scottow Road, Scottow	November 2012	PF/12/1094	31	13	Withdrawn
	Strawberry Lane, Saxthorpe	November 2012	PF/12/1113	14	6	Withdrawn
1	Belaugh Road, Hoveton (partly within Broadland DC)	November 2012	PF/12/1142	8	12	Withdrawn
			TOTAL	53	31	



NORTH NORFOLK Carlton Farm, Worstead







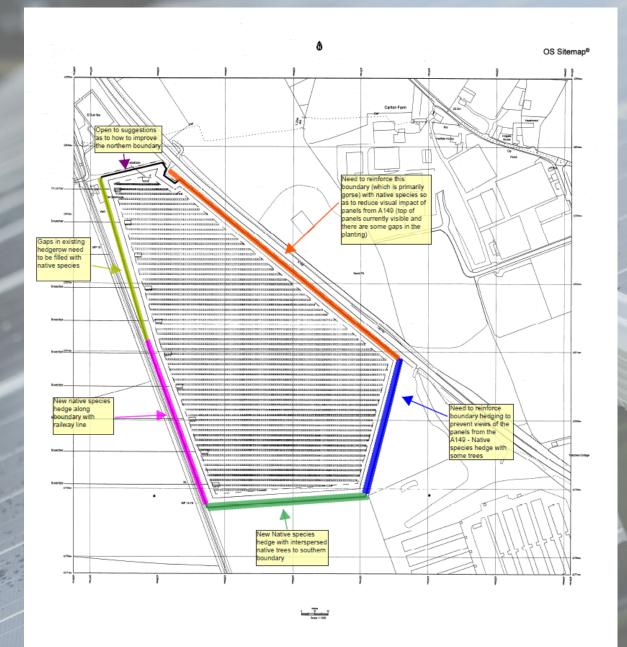
- 16Ha
- 5MW
- Single intensively cropped arable field
- Poor field boundaries
- Adjacent to railway
- Potential scope for ecological enhancements







- No Ecological Report or LVIA
- Basic landscaping plan
- Very basic ecological and landscape enhancements proposed

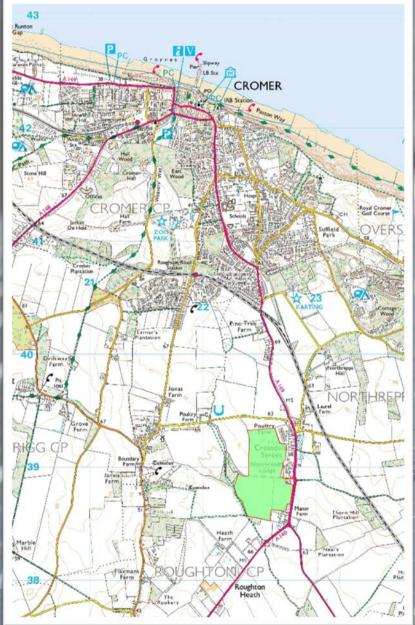












Manor Farm, Crossdale Street Northrepps

- Comprises 3 former agricultural fields
- 26 Hectares
- Will generate approximately11MW of electricity
- In the Norfolk Coast AONB
- Adjacent to A140 main tourist route into Cromer









Phase 1 Habitat Map

Semi-improved grassland

Species Rich hedgerows

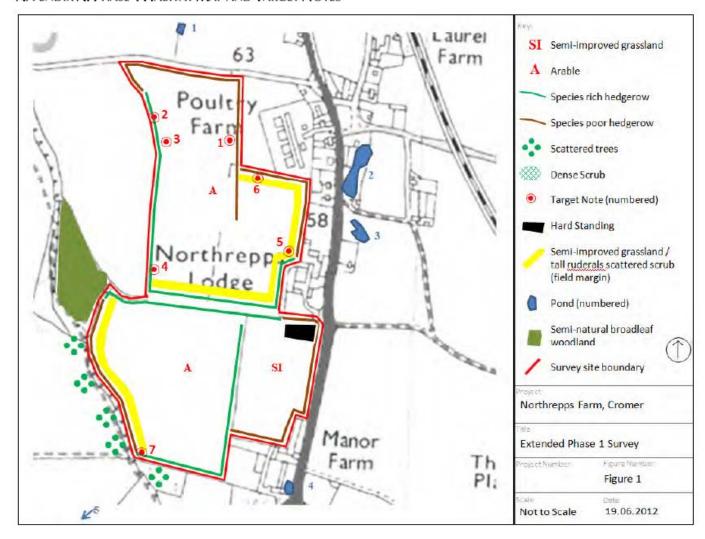
semi-natural broadleaf woodland

Some oak trees identified as potential bat roosts

Skylarks/Hares

Recommended ecological buffer zone of 6 metres

APPENDIX A: PHASE 1 HABITAT MAP AND TARGET NOTES











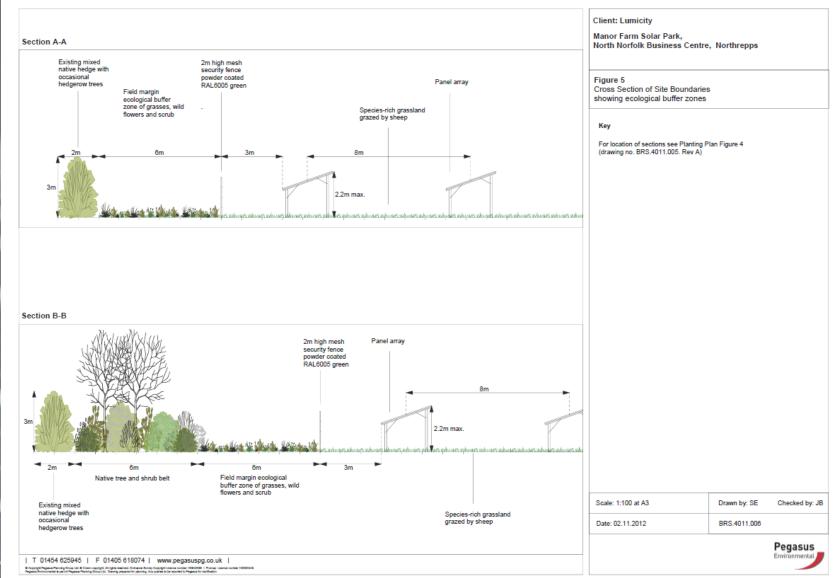


Site Layout: Before and after



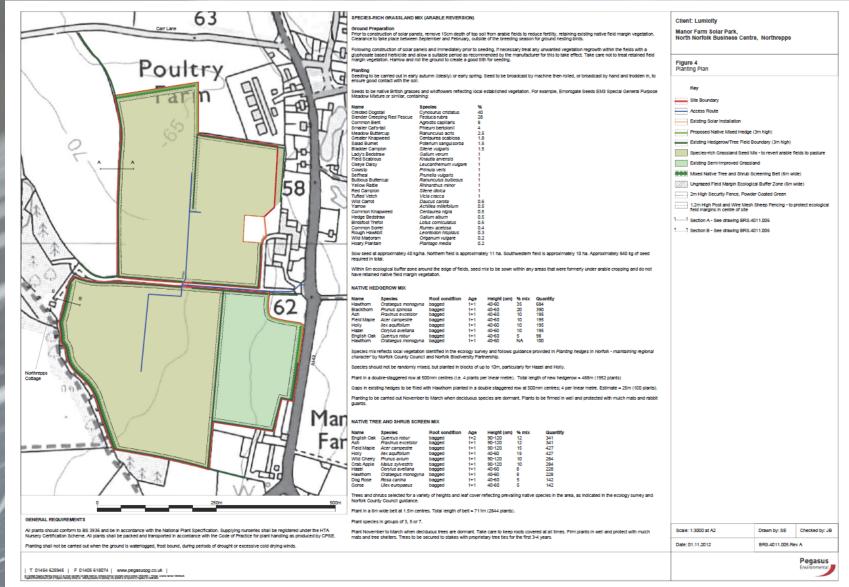


Cross Sections for boundary planting





Planting Plan







Fencing and CCTV detail





Solar System with cameras mounted every 50 metres along the fence line



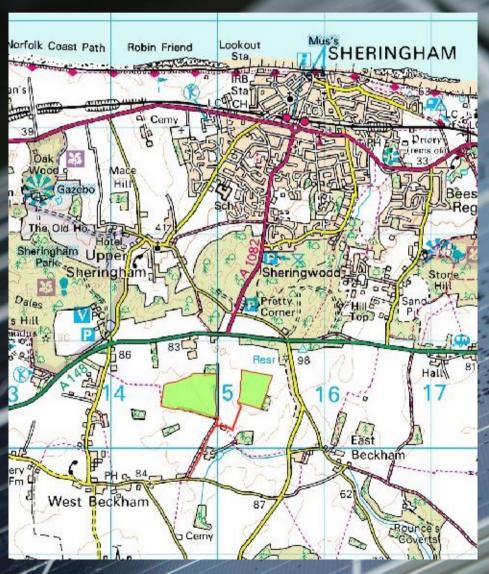
CCTV cameras and detection sensors mounted on separate posts along the fence



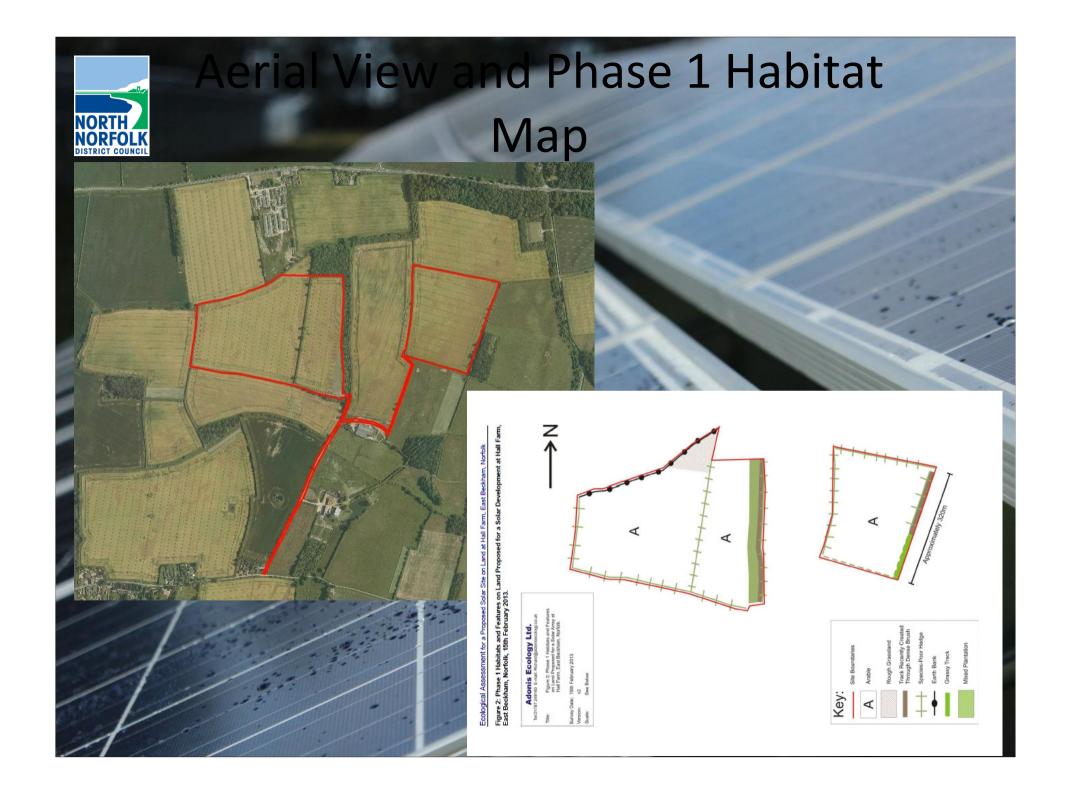
CCTV Design NNBC.doc Page 3/3 28/06/2013



Hall Farm, East Beckham



- 23ha
- 10MW
- 500m from AONB
- Split across two fields
- Reduced in size since pre-application discussions/screening opinion







Proposed view at Year10









ATGC renewables



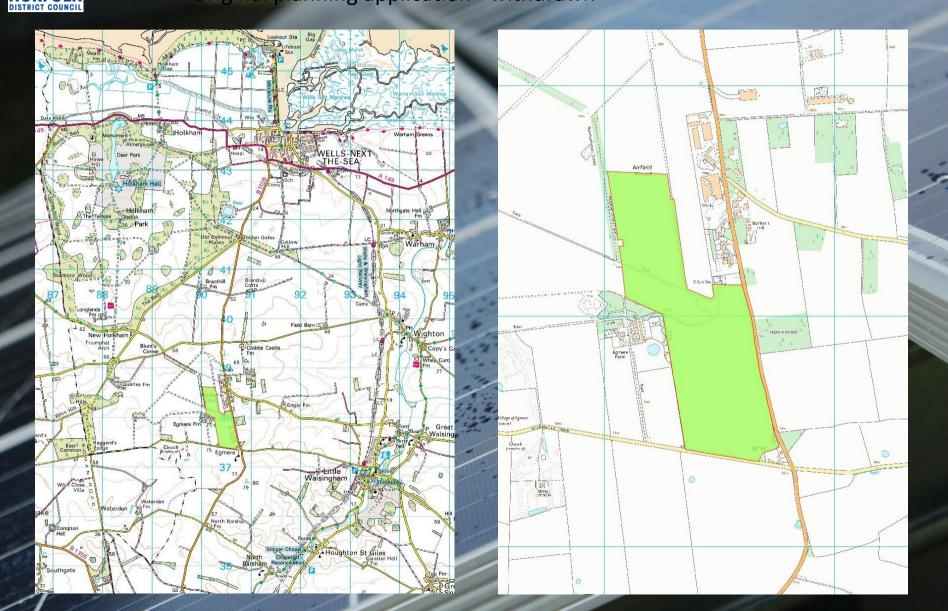






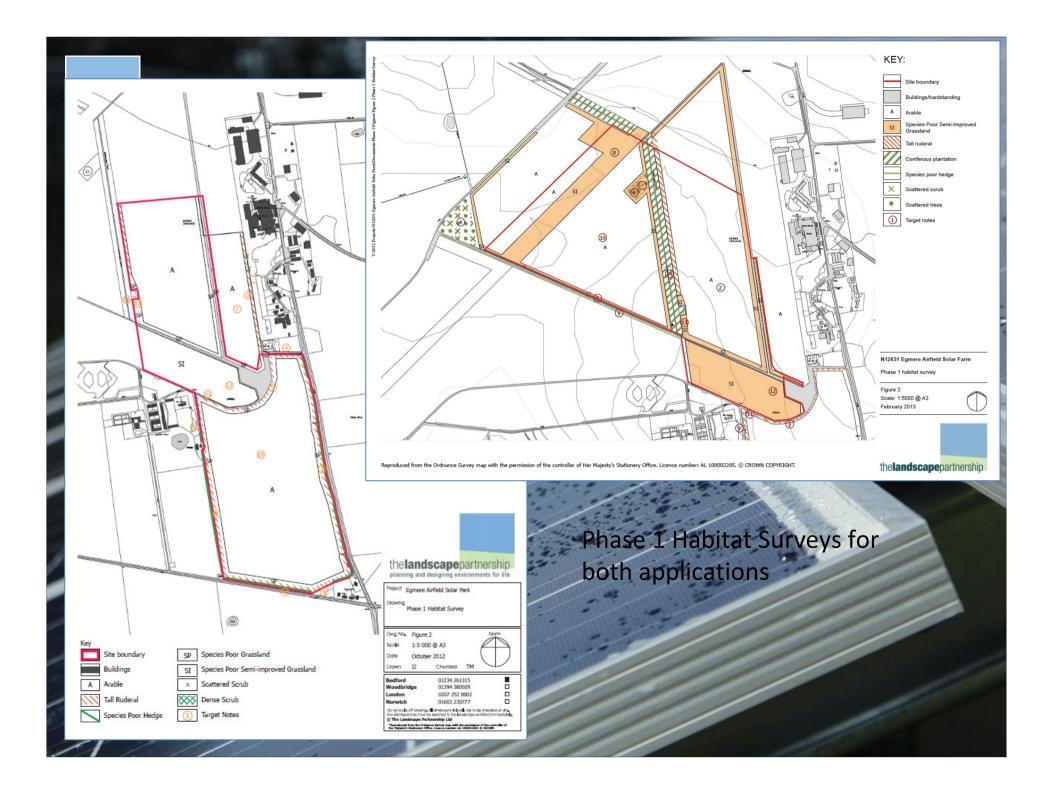
North Creake Airfield, Egmere

Original planning application - withdrawn



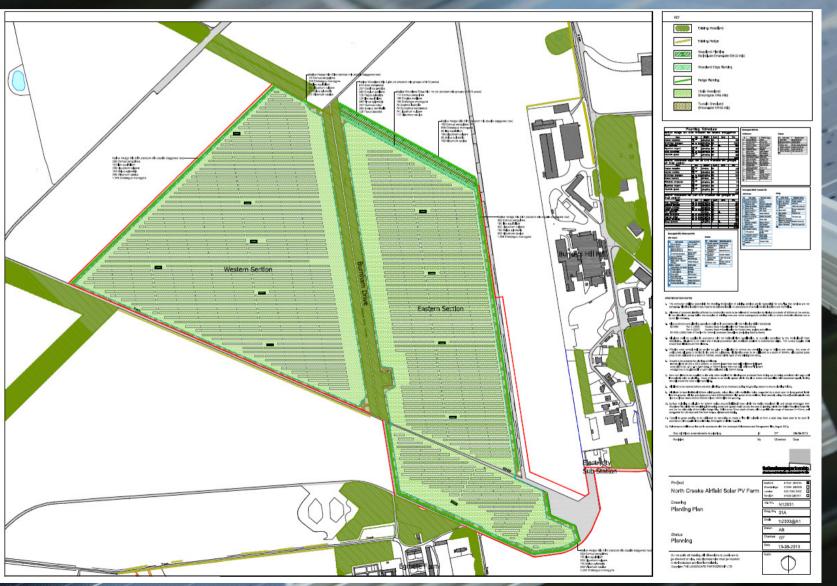








Planting Proposals







Viewpoint 2a continued.



Viewpoint 2b continued.

N12631 North Creake Airfield, Egmere, Norfolk

Viewpoint Photographs

Figure 09

October 2012

the**landscape**partnership











Landscape Masterplan





RAF West Raynham

- Current planning application at former RAF base
- Largest site to date

