

infinis

Onshore Wind Development

Nicola Riley, Business Development Manager

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Infinis Limited





Infinis

- The largest purely renewable generator in the UK
- A diversified platform comprising landfill gas, hydro and wind.
- Financially strong
 - Established operations delivering predictable high cashflow
 - Financially powerful owner in Terra Firma
- Develop – Build – Operate capabilities, including power contracting
- Acquired Novera Energy in December 2009 to give:
 - Operating 138 generating stations UK-wide (inc Lissett)
 - Remotely monitored and despatched from industry leading logistics centre in Northampton
- Offices – Northampton, Edinburgh, Glasgow and London with c. 400 employees



Infinis UK Wind Portfolio - 2010

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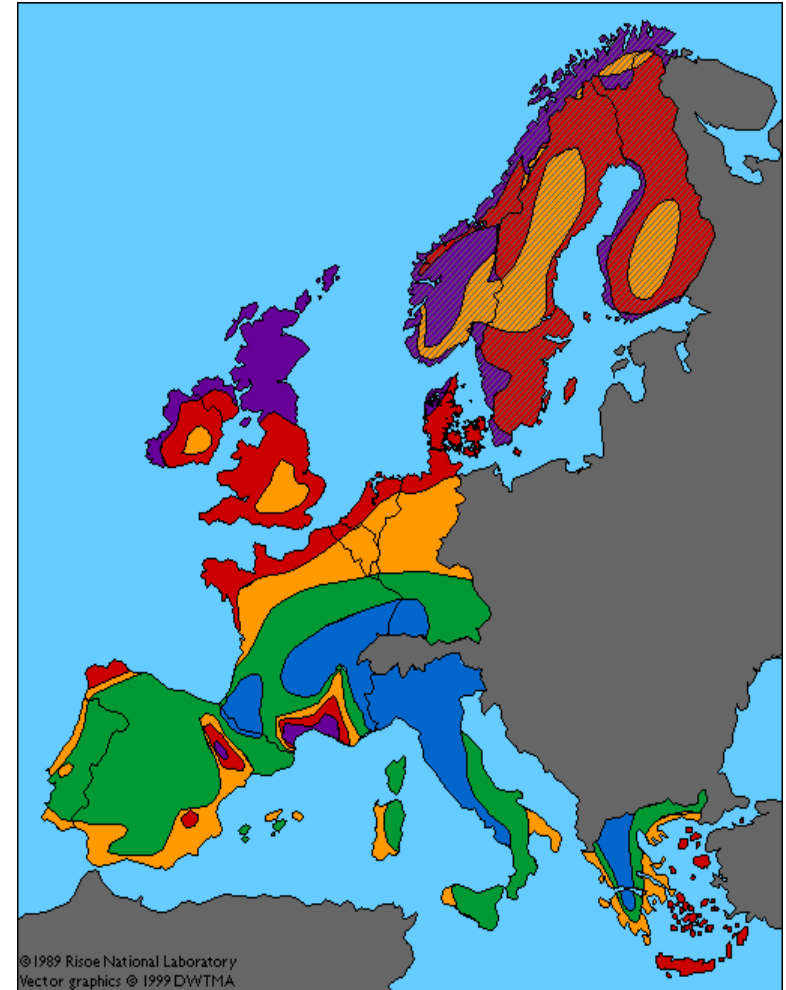
	Operational – 75MW
	Consented - 100MW
	In Planning – 150MW
	EIA









- **Established track record**
 - Development
 - Construction
 - Operation
 - Procurement
 - Financing
 - PPAs/ Power Sales



WHY WIND?

- Security of supply & continuity of service
- Climate Change
- Renewables Obligation
 - UK target of 20% renewable generation by 2020 (currently 5.8%)
 - Aspiration to reduce CO2 emissions by 80% by 2050
- Onshore wind – a proven technology, currently the most cost effective renewable energy source
- Economics of onshore wind
- UK has 40% of the total European wind energy resource of which Northern England and Scotland account for over 25 per cent



	>6.0	>250	>7.5	>500	>8.5	>700	>9.0	>800	>11.5	>1800
	5.0-6.0	150-250	6.5-7.5	300-500	7.0-8.5	400-700	8.0-9.0	600-800	10.0-11.5	1200-1800
	4.5-5.0	100-150	5.5-6.5	200-300	6.0-7.0	250-400	7.0-8.0	400-600	8.5-10.0	700-1200
	3.5-4.5	50-100	4.5-5.5	100-200	5.0-6.0	150-250	5.5-7.0	200-400	7.0-8.5	400-700
	<3.5	<50	<4.5	<100	<5.0	<150	<5.5	<200	<7.0	<400
			>7.5							
			5.5-7.5							
			<5.5							

Development – What we do

- Identify Site Development Opportunities
- Assess Feasibility
- Secure Landowner Agreements
- Project development – Wind, Grid, Technical, EIA, Finance, PA & PR
- Liaise with Planning Authorities/Govt Departments



Criteria

Our evaluation and risk assessment covers more than 50 criteria including:




- Wind Speed
- Size and number of turbines
- Grid capacity and availability
- Speed to consent
- Local Authority Development Plans
- Competitors/cumulative impact
- Radar, airports, MoD, CAA
- Telecommunications
- National and Local Designated Landscapes
- Distance to homes and settlements
- Access to site
- Initial investment parameters including:
 - Total capital cost (£/MW)
 - Capacity factor



1:15,000 Scale @ A3
0 0.25 0.5 Km



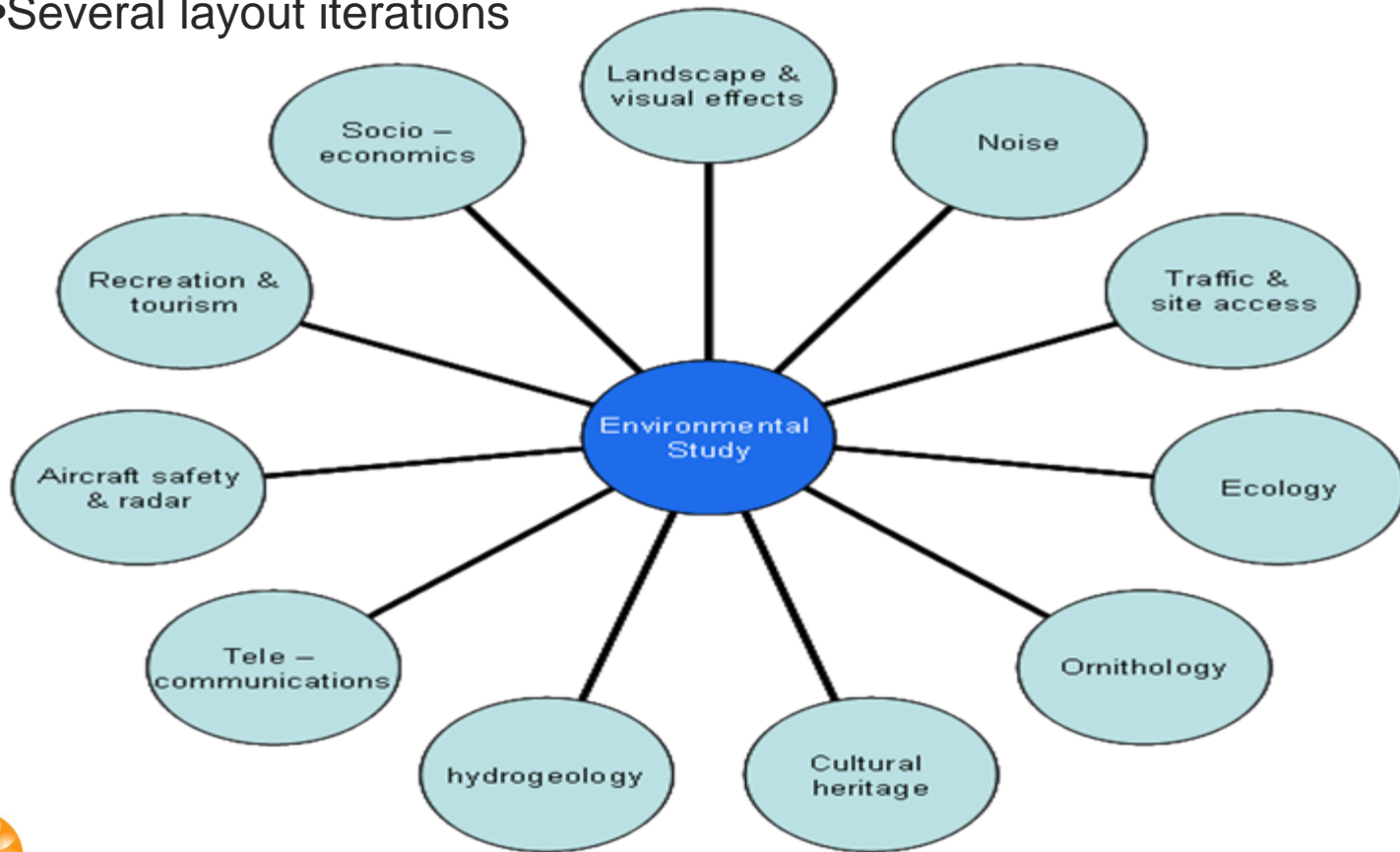
Key

-  Site Boundary
-  Turbines
-  125m Buffer of Roads
-  50m Buffer of Watercourses
-  125m Buffer of Public Rights of Way
-  500m Buffer of The Chirm
-  500m Buffer of Houses

Environmental Impact Assessment

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- Bird studies conducted over a minimum 12-month period
- Consultation with key stakeholders including LPA, Natural England and the RSPB
- Several layout iterations



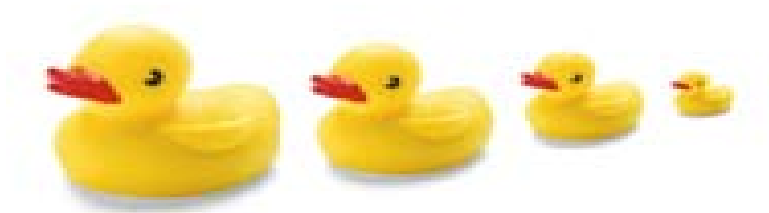
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Stepping stones for Development

- **Site Identification and Feasibility**
- **Early Consultation**
- **Bird Surveys**
- **Scoping Study (incl. further consultation)**
- **Environmental Impact Assessment (EIA)**
- **Wide Public Consultation**
- **Wind Measurement**
- **Planning Application**
- **Formal Consultation**
- **Determination**



Pre Construction – “get ducks in a row”



- Discharge of Conditions
- S75 or S106 agreements to be finalised
- Habitat Management plans to be prepared
- Land leases to be signed
- Grid Connection work to be expedited
- Ongoing community liaison

Legal – Contracts
Construction Team Interface
Operations Interface

Planning Lawyers
Property Lawyers
Ecologists

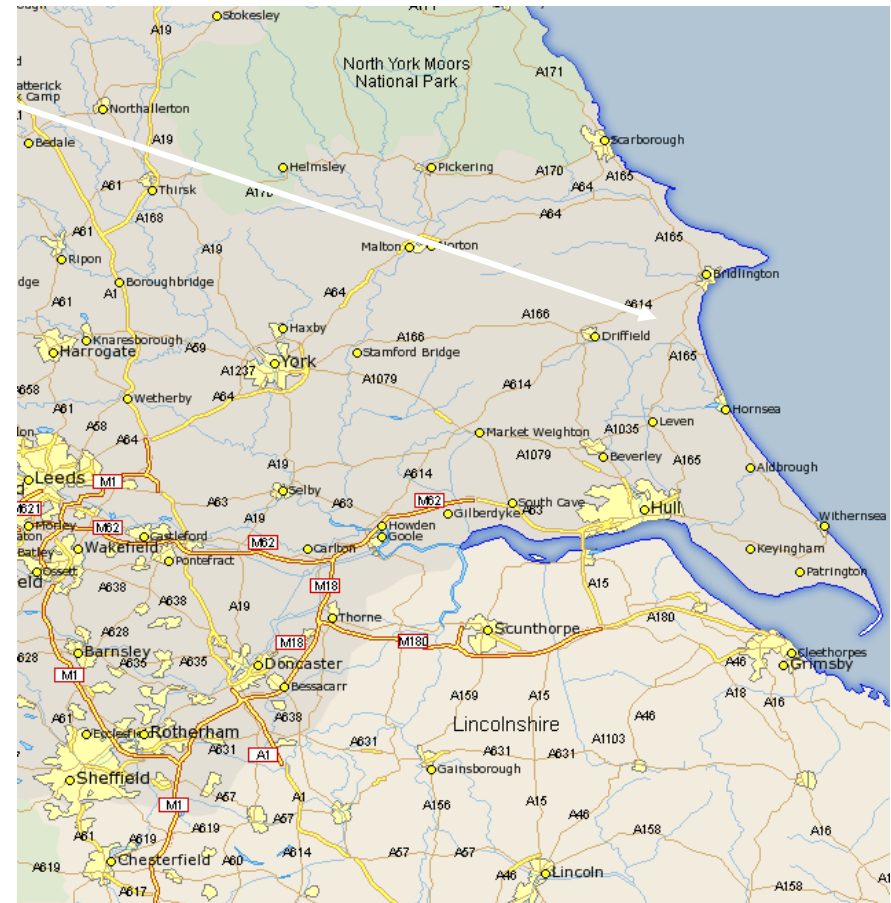
Local Benefits

- **Economic benefits** - Renewable energy industry is now important growth sector in the UK
- **Investment in local area** – turbine manufacturers mostly based continental Europe/USA but some looking to manufacture and assemble in the UK
- **Infinis has preference for local contractors during construction** – Infinis holds supplier/contractor meeting for local companies
- **Employment** – significant job opportunities - DTI “Renewable Supply Chain Gap Analysis” report (January 2004) notes on average 10 jobs per Megawatt (MW) of renewable power generation under development, under construction and in operation
- **Wind farm operation and maintenance** – 2 local employees taken on by Nordex to operate Lissett plus infrastructure maintenance e.g. Tracks
- **Local shops, hotels and service providers** benefit during the development phase of the project
- **Business Rates** – paid by wind farms and fed back into the economy
- **Decommissioning bond** – would be made available to Council at commencement of development and reviewed regularly to ensure funds available to decommission turbines at 25 years and restore site to previous appearance.
- **And of course turbines generate clean, green electricity which** contributes to the local and UK Government’s targets

Lissett Airfield Wind Farm

Number of turbines	12
Turbine size	2.5MW
Capacity	30MW
Total project cost	£38 million
Debt quantum	£29.5m / 78%

2005	Site identification
2005	A&E Agreement with Landowner
Jul-06	Planning application
Feb-07	Planning committee resolution to consent
Jul-07	Planning notice (full consent)
Mar-07	Nordex Turbines selected
Nov-07	Financial Close
Dec-07	Project construction started
Nov-08	First turbines delivered
Feb-09	First production
Apr-09	Fully commissioned



Turbine Installation

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Involving the Community – Lissett Airfield

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Lissett Memorial to 158 Squadron

- Proposed by Novera
- Tribute to those who served and died
- First memorial of its kind to Bomber Command
- Bold silhouette of 7 men
- Names of 851 to be etched onto the figures



Presentation to over 70 veterans of WWII, based at the former airfield, September 2008

Annie Watson, local rep of 158 Squadron Association, and Sarita at Lissett Village Fete, August 2008



Remembrance Sunday, Lissett Village

Questions

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Nicola Riley
Business Development Manager
Infinis plc
Suite 15, Merlin House
Hillington Park
Glasgow G52 4XZ

Phone: +44 (0) 141 891 8290
Mob: +44 (0) 7798 770564
E-mail: nicola.riley@infinis.com
Web: www.infinis.com

