

# E4environment

## Wind Energy Project List

### Offshore Wind Farms

- Site selection and feasibility studies, such as examining seascape, landscape and visual issues of potential Round 2 Strategic Areas Review for Npower Renewables Ltd.
- Seascape, landscape, visual and cumulative assessments for offshore wind farm developments and associated onshore facilities.
- Presented evidence on seascape, landscape, visual and cumulative issues at public inquiry.

| Location                  | Developer                     | Date                    |
|---------------------------|-------------------------------|-------------------------|
| Off North Wales Coast     | wind farm developer           | 2006 - 2007             |
| Off East Coast of England | Npower                        | 2005                    |
| Rhyl Flats                | Celtic Offshore Wind Ltd      | 2001 – 2002 - permitted |
| Scarweather Sands         | United Utilities Green Energy | 2002 – 2003 - permitted |

### Onshore Wind Farms

#### Feed in Tariff Onshore Wind Turbines

- Reviewing the viability of sites for small and medium-sized wind turbines under the UK Government's Feed in Tariff (FITs) scheme.
- Examining the potential constraints and opportunities of each site in terms of technical, planning, environmental and financial issues.
- Undertaking landscape and visual assessments, including cumulative, and some cultural heritage assessment work as part of planning applications.

| Location                   | Developer         | Date                  |
|----------------------------|-------------------|-----------------------|
| Cannock, West Midlands     | ProWind           | 2011 - ongoing        |
| Leicestershire             | Private landowner | 2011 - ongoing        |
| Suffolk – 2 sites          | Private landowner | 2011 – ongoing        |
| Bedfordshire               | Private landowner | 2011 - ongoing        |
| Durham                     | Private landowner | 2011 - ongoing        |
| Leicestershire – 2 sites   | Private landowner | 2010 - ongoing        |
| Cranford, Northamptonshire | Private landowner | 2010 - ongoing        |
| Abbots Moor, Shropshire    | Private landowner | 2010 – 2011 Permitted |

#### Site selection and feasibility studies

- Review the potential site constraints and opportunities in terms of landscape, visual, cumulative and cultural heritage issues.

| Location                                    | Developer           | Date        |
|---|---------------------|-------------|
| Somerset                                    | wind farm developer | 2009 - 2010 |
| Devon – 5 sites                             | wind farm developer | 2008 - 2009 |
| Greater London – 3 sites                    | wind farm developer | 2008        |
| Leicestershire & Northamptonshire – 3 sites | wind farm developer | 2008        |
| Cumbria                                     | wind farm developer | 2008        |
| Scotland – 11 sites                         | wind farm developer | 2008        |
| North East & Yorkshire – 20 sites           | wind farm developer | 2007 - 2008 |
| West Midlands – 10 sites                    | wind farm developer | 2007 - 2008 |
| Devon & East Midlands                       | wind farm developer | 2007 - 2008 |
| Northumberland & Borders – 4                | wind farm developer | 2007        |

|                             |                                 |                      |
|-----------------------------|---------------------------------|----------------------|
| sites                       |                                 |                      |
| Scotland – 2 sites          | wind farm developer             | 2005 - 2007          |
| UK – 25+ sites              | wind farm developer             | 2004 - ongoing       |
| North Wales                 | wind farm developer             | 2004                 |
| UK – across 6 counties      | wind farm developer             | 2004 - 2006          |
| Shropshire                  | Private landowner               | 2002, 2010 - ongoing |
| Eastern Region - countywide | Dulas & TXU Europe<br>Power Ltd | 2002                 |
| Scottish Borders            | Private individual              | 2001                 |
| North Devon                 | West Coast Energy Ltd           | 2000                 |

## EIA project management

- Manage team of consultants (including sub-consultants) undertaking the assessment of environmental effects, and producing the environmental statements, non technical summaries, associated reports and graphics to support the planning applications.
- Inputs to site design, consultations, landscape and visual assessment, and assessment of effects on the settings of listed buildings, historic parks and gardens and conservation areas.
- Support for commons application and post submission liaison with LPA and consultees.

| Location                               | Developer           | Date  |
|--|---------------------|---|
| Hyndburn Wind Farm,<br>Lancashire      | Energiekontor Ltd   | 2006 – 2009 - permitted                       |
| Lincolnshire                           | wind farm developer | 2006 – 2008 – not<br>progressed               |
| Winscales Moor Wind Farm,<br>Cumbria   | Your Energy Ltd     | 2004 – 2007 - permitted                       |
| Milton Keynes Wind Farm                | Your Energy Ltd     | 2005 – 2007 - permitted                       |
| Laughton Wind Farm I,<br>Lincolnshire  | Your Energy Ltd     | 2003 – refused and<br>appealed                |
| Laughton Wind Farm II,<br>Lincolnshire | Your Energy Ltd     | 2006 – reapplication,<br>refused and appealed |
| Cilciffeth Wind Farm, Wales            | National Wind Power | 1998 – 1999 - refused                         |
| Rookhope Wind Farm,<br>County Durham   | National Wind Power | 1996 – 1999 – not<br>progressed               |
| Jordanston Wind Farm, South<br>Wales   | National Wind Power | 1997 – 1998 – refused                         |

## Landscape, visual and cultural heritage impact assessments

- Undertake landscape and visual assessment, cumulative assessment and assessment of effects on the settings of listed buildings, historic parks and gardens and conservation areas.
- Assist with post submission additional information and liaison with LPA and other consultees.
- Assist with variation to consent applications.

| Location   | Developer                         | Date           |
|--|-----------------------------------|----------------|
| Thornholme Wind Farm, East<br>Riding of Yorkshire  | Wind Prospect<br>Developments Ltd | 2010 – ongoing |
| Burton Wold Wind Farm<br>South, Northamptonshire   | Infinergy Ltd                     | 2010 – ongoing |
| Cambridgeshire                                     | Private landowner                 | 2009 – ongoing |
| Whealers Cross Wind Farm,<br>Devon                 | Wind Prospect<br>Developments Ltd | 2009 – ongoing |
| Treading Wind Farm,<br>Cambridgeshire/Lincolnshire | Wind Ventures Ltd                 | 2010 – ongoing |
| Foxton Lane Wind Farm,<br>County Durham            | Wind Prospect<br>Developments Ltd | 2009 – ongoing |

|   |  |                            |
|---|--|----------------------------|
| Two wind turbine sites, Greater London        | Wind Farm Developer                                  | 2008 – 2009                |
| Middlewaick Wind Farm, Essex                  | RidgeWind  | 2008 – 2011                |
| Upper Holton Wind Farm, Suffolk               | Bernard Matthews Farms                               | 2007 – 2010                |
| Cottam Wind Farm, Nottinghamshire             | ProWind  | 2007 – ongoing             |
| Palmers Hollow Wind Farm, Leicestershire      | RidgeWind  | 2007 – 2010                |
| Boundary Lane Wind Farm, Northumberland       | Wind Prospect Developments Ltd                       | 2006 – ongoing             |
| Grange Wind Farm, North Lincolnshire          | Wind Prospect Developments Ltd                       | 2006 – ongoing             |
| Benington Wind Energy Project, Hertfordshire  | Engena Ltd and landowner                             | 2007 – ongoing             |
| Hyndburn Wind Farm, Lancashire                | Energiekontor  | 2006 – 2009                |
| Tir Gwynt Wind Farm, Mid Wales                | West Coast Energy                                    | 2006 – 2008                |
| Tillyrie Wind Farm, Scotland                  | Lomond Energy  | 2006 – 2007                |
| Mynydd y Gwair Wind Farm, South Wales         | Npower Renewables Ltd                                | 2005 – 2007                |
| Winscales Moor Wind Farm, Cumbria             | Your Energy Ltd                                      | 2004 – 2007                |
| West Wight Wind Farm, Isle of Wight           | Your Energy Ltd                                      | 2003 – 2007                |
| Pyewipe Wind Farm, Lincolnshire               | West Coast Energy                                    | 2003 – 2004                |
| Laughton Wind Farm, Lincolnshire              | Your Energy Ltd                                      | 2002 – 2007                |
| Green Rigg Wind Farm, Northumberland          | Wind Prospect Developments Ltd                       | 2004 – 2009                |
| Pendragon Fach Wind Farm, South Wales         | Eco2/ Hyder  | 2006                       |
| Fforch Nest Wind Farm, South Wales            | RWE Npower   | 2004 – 2006                |
| Milton Keynes Wind Farm                       | Your Energy Ltd                                      | 2004 – 2006                |
| Little Raith Wind Farm, Scotland              | West Coast Energy                                    | 2004 – 2005                |
| Bagmoor Windcluster, North Lincolnshire       | Wind Prospect Developments Ltd                       | 2004 – 2006                |
| Walkway Windcluster, County Durham            | Wind Prospect Developments Ltd                       | 2004 – 2006                |
| Blaen Bowi Wind Farm & extension, South Wales | WindJen Power Ltd                                    | 1999, 2004 – 2005          |
| Carno Wind Farm extension, Mid Wales          | Amegni/ Dulas  | 2003 – 2004                |
| Haffoty Ucha III Wind Farm, North Wales       | Dulas Ltd  | 2003 – 2004                |
| Braich Ddu Wind Farm, North Wales             | National Wind Power Ltd                              | 2003 – 2004                |
| West Hinkley Wind Farm, Somerset              | Your Energy Ltd                                      | 2003 – 2007                |
| Denshaw Wind Farm, Greater Manchester         | wind farm developer<br>United Utilities Green Energy | 2003 – 2006<br>2002 – 2004 |
| Earlsburn Wind Farm, Scotland                 | RDC Ltd  | 2003                       |
| Boyndie Wind Farm, Scotland                   | RDC Ltd  | 2003                       |
| Lower Winterbourne Wind Farm, Dorset          | Your Energy Ltd                                      | 2003                       |

|   |   |                   |
|---|---|-------------------|
| Burton Wold Wind Farm & extension, Northamptonshire   | Your Energy Ltd & landowner                   | 2003, 2007        |
| Mynydd Gwrhyd, South Wales                            | Community Group                               | 2003 – 2006       |
| Bu Farm Wind Farm extension, Orkney Isles             | Farm Energy                                   | 2002              |
| Baydon Meadows Wind Turbine, West Berkshire           | National Wind Power & private individual      | 2002, 2006 – 2007 |
| Ben Aketil Wind Farm, Isle of Skye                    | RDC Ltd                                       | 2002 – 2005       |
| Scout Moor Wind Farm, Lancashire                      | United Utilities Green Energy & Peel Holdings | 2002 – 2005       |
| White Hill Wind Farm, Lancashire                      | United Utilities Green Energy                 | 2002 – 2003       |
| Ferndale Wind Farm, South Wales                       | United Utilities Green Energy                 | 2002 – 2004       |
| Series of small wind farms in Wales and West Midlands | Dulas & National Wind Power                   | 2002 – 2005       |
| Red House Wind Farm, Lincolnshire                     | Wind Prospect Developments Ltd                | 2001 – 2005       |
| Glassmoor Wind Farm, Cambridgeshire                   | Wind Prospect Developments Ltd                | 2001 – 2005       |
| Bicker Fen Wind Farm, Lincolnshire                    | Wind Prospect Developments Ltd                | 2001 – 2005       |
| Red Tile Wind Farm, Cambridgeshire                    | Wind Prospect Developments Ltd                | 2001 – 2005       |
| Morris Fen Wind Farm, Cambridgeshire                  | Wind Prospect Developments Ltd                | 2001 – 2005       |
| Deeping St Nicholas Wind Farm                         | Wind Prospect Developments Ltd                | 2001 – 2002       |
| Forestmoor Wind Farm, Devon                           | West Coast Energy Ltd & EnergieKontor         | 2001 – 2005       |
| Mynydd Llanellian Wind Farm, North Wales              | WindJen Power Ltd                             | 2000 – 2001       |
| Pentland Road Wind Farm, Isle of Lewis                | Farm Energy & TXU                             | 2000 – 2002       |
| Arnish Moor Wind Farm, Isle of Lewis                  | Farm Energy & TXU                             | 2000 – 2001       |
| Mid Wales Wind Farm                                   | National Wind Power                           | 1999              |
| Hafotty Ucha II Wind Farm, North Wales                | Dulas Ltd                                     | 1999 – 2000       |
| Mynydd Glyn Lws Wind Farm, North Wales                | WindJen Power Ltd                             | 1999 – 2000       |
| Llethercynon Wind Farm, Mid Wales                     | Dulas Ltd                                     | 1999              |
| Hore Down & Old Racecourse Wind Farms, North Devon    | Dulas & Eastern Generation                    | 1999 – 2000       |
| Rhoscrowther Wind Farm, South Wales                   | Dulas & Eastern Generation                    | 1999 – 2000       |
| South Wales Wind Farm                                 | Dulas & Eastern Generation                    | 1999 – 2000       |
| Cumbrian Wind Farm                                    | Dulas & Eastern Generation                    | 1999 – 2000       |
| Gelligaer Wind Farm                                   | National Wind Power                           | 1998 – 2000       |
| Jordanston Wind Farm, South Wales                     | National Wind Power                           | 1997 – 1998       |
| Low Houses Wind Farm, Cumbria                         | National Wind Power                           | 1995 – 1996       |
| Mynydd yr Hendre Wind Farm, Mid Wales                 | Manweb/Kenetech                               | 1993 – 1995       |

## Appeals and public inquiries

- Prepare written evidence on landscape and visual matters in form of Hearing Statements, Written Statements and Public Inquiry proof of evidence.
- Give expert evidence at Hearings and Public Inquiries.

| <b>Location</b>                                   | <b>Developer</b>                          | <b>Date</b>                 |
|---|---|-----------------------------|
| Cottam Wind Farm, Nottinghamshire                 | ProWind                                   | 2010 - ongoing              |
| Middlewaick Wind Farm, Essex                      | RidgeWind                                 | 2010 – 2011 - permitted     |
| Pollnalaght Wind Farm, Northern Ireland           | Cornavarrow Wind Farm Ltd                 | 2010 – permitted            |
| Grange Wind Farm, North Lincolnshire              | RidgeWind/ Wind Prospect Developments Ltd | 2009 - ongoing              |
| Palmers Hollow Wind Farm, Leicestershire          | RidgeWind Ltd                             | 2009 – 2010 – refused       |
| Benington Wind Farm, Hertfordshire                | Private landowner                         | 2009 – refused              |
| Moorsyde Wind Farm, Northumberland                | Your Energy Ltd                           | 2008 – 2009 – refused       |
| Blaen Bowi Wind Farm Extension, Wales             | WindJen Power Ltd                         | 2009 – refused              |
| Mynydd y Gwrhyd, South Wales                      | Community Scheme                          | 2008 – 2009 – permitted     |
| Green Rigg Wind Farm, Northumberland              | Wind Prospect Developments Ltd            | 2007 – 2008 – permitted     |
| Mynydd y Gwrhyd, South Wales                      | Community Scheme                          | 2006 – refused              |
| Laughton Wind Farm, Lincolnshire                  | Your Energy Ltd                           | 2002 – 2006 – refused       |
| Greenock Wind Farm, Scotland                      | Airtricity                                | 2005 – refused              |
| Baydon Meadows Wind Turbine, West Berkshire       | Private individual                        | 2004, 2007 – 2009 - refused |
| Llithercynon Wind Farm, Mid Wales                 | WindJen Ltd                               | 2004 – refused              |
| Scarweather Sands Offshore Wind Farm, South Wales | United Utilities Green Energy             | 2003 – permitted            |
| White Hill Wind Farm, Lancashire                  | United Utilities Green Energy             | 2003 – refused              |
| Forestmoor Wind Farm, Devon                       | West Coast Energy & Energiekontor         | 2003 – permitted            |
| Wandysteads Windcluster, Northumberland           | National Wind Power                       | 2002 – 2003 – refused       |
| Deeping St Nicholas Windcluster, Lincolnshire     | Wind Prospect Developments Ltd            | 2002 – 2003 – permitted     |
| Pentrefoelas Wind Farm, North Wales               | National Wind Power                       | 2001 – withdrawn            |
| Cwm Llwyd Wind Farm, Mid Wales                    | National Wind Power                       | 2000 – 2001 – refused       |
| Jordanston Wind Farm, South Wales                 | National Wind Power                       | 2000 – refused              |
| Mynydd Glyn Lws Wind Farm, North Wales            | WindJen Power Ltd                         | 2000 – refused              |
| Hore Down and Old Racecourse Wind Farms, Devon    | TXU                                       | 2000 – 2001 – refused       |
| Eastfield Farm Wind Farm, East Yorkshire          | RES                                       | 1999 – 2000 – refused       |
| Parc Cynog Wind Farm, South Wales                 | M & N Windpower Ltd                       | 1999 – permitted            |
| Cemmaes B Wind Farm                               | First Windfarm Holdings Ltd               | 1998 – permitted            |
| Kirkheaton Wind Farm, Northumberland              | Border Wind                               | 1998 – permitted            |

## Design and construction issues

- Liaison with local authorities and other consultees regarding post permission design and screening aspects.
- On site and off site planting schemes.

| Location                      | Developer                      | Date        |
|-------------------------------|--------------------------------|-------------|
| Rusholme Wind Farm            | Wind Prospect Developments Ltd | 2006 - 2010 |
| Burton Wold Wind Farm         | Your Energy Ltd                | 2003 - 2004 |
| Llyn Alaw Wind Farm, Anglesey | Manweb/ Kenetech               | 1993 - 1995 |

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## Research and national guidance

### **Wind Energy Guidance England**

**Client: Natural England  
2009**

Attended several workshops which were run by Natural England to guide the production of this document which is intended to inform Natural England Regional officers when providing consultation responses to wind farm applications.

### **Guidance on the Assessment of Cumulative Impacts of Onshore Wind Farms England**

**Client: DECC  
2007 - 2009**

Member of the Landscape Steering Group that has been consulted on the various outputs of Phase 1 (literature review) and Phase 2 (guidance document).

### **Visual Representation of Wind Farms Good Practice Guidance Scotland**

**Client: Scottish Natural Heritage  
2005 - 2006**

Member of the steering group that guided the production of this SNH good practice guidance document. Although intended for Scotland only, this good practice guide is now considered to be the leading guidance document for the production of visual representations for wind farms and is referred to by developers, practitioners, planning officers and others for proposed developments in England and Wales, as well as Scotland.

### **Potential environmental impacts of marine renewable technologies Wales**

**Client: ABPMer (for CCW)  
2004 - 2005**

Considered the potential seascape, landscape and visual impacts of a wide range of marine renewable technologies (under development and conceptual) on the coastal and inland water areas around Wales. In conjunction with ABPMer (who considered a range of other technical, planning and environmental issues), devised checklists and data sheets to guide CCW as a consultee in any future applications for such installations.