Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.16: Leicester, Leicestershire and Rutland onshore wind energy opportunity plan

Key
- County boundary
- Local Authority boundaries
- Small-scale wind (<6kW)
- Potential for community schemes
  - Government Offices
  - Tourism-related buildings
  - Community buildings
- Commercial-scale onshore wind
  - Highest potential (outside of sensitive areas)
    - Large (4 turbines/km²)
    - Medium (10 turbines/km²)
    - Small (20 turbines/km²)
  - Potential within areas with medium bird sensitivity
    - Large (2 turbines/km²)
    - Medium (5 turbines/km²)
    - Small (10 turbines/km²)
  - Potential within areas with high bird sensitivity
    - Large (1 turbines/km²)
    - Medium (2.5 turbines/km²)
    - Small (5 turbines/km²)
- No potential
  - Constrained (0 turbines/km²)

Source: Ordnance Survey, Natural England, DECC, English Heritage, RSPB, MOD, CAA

Date: 02/03/2011

Reproduced from Ordnance Survey information with the permission of The Controller of Her Majesty's Stationery Office, Crown Copyright, Land Use Consultants, Licence Number 100019265

File: S:\5000\5013 East Midlands Council\6B Project Working\GIS\Themes\ArcGIS9\5013-01_028_Leicestershire_Wind.mxd
Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.17: Summary of potential for on-shore commercial-scale and small-scale wind (<6kW)

Key

Protected Landscapes

- Peak District National Park
- Indicates need to consider National Park purposes*
- Lincolnshire Wolds AONB
- Indicates need to consider AONB purposes*

*Indicative zone only - distance will vary according to circumstances

Potential 2020 (MW)

- Negligible
- 0.1 - 0.5
- 0.6 - 2.0
- 2.1 - 4.0
- 4.1 - 10.0
- 10.1 - 15.0
- 15.1 - 25.0
- 25.1 - 42.8

Small turbines as defined in the Peak Sub-Region Study have been included in this category as the sizes are comparable.

Source: Ordnance Survey, Natural England

Date: 30/03/2011

File: S:\5000\5013 East Midlands Councils\B Project Working\GIS\Themes\ArcGIS9\5013-01_029_Wind_Summary_RevA.mxd

Reproduced from Ordnance Survey information with the permission of The Controller of Her Majesty's Stationery Office, Crown Copyright, Land Use Consultants, Licence Number:100019265/0 30 6015 Km

Commercial-scale wind (large turbines)

Commercial-scale wind (medium turbines)

Commercial-scale wind (small turbines)

Small-scale wind (<6kW)
Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.18: Summary of potential for plant biomass (elec)

Key

Protected Landscapes

- Peak District National Park
- Lincolnshire Wolds AONB

Please note: For some sources of renewable energy generation looked at in this study there is no specific technical potential set out specifically for the Peak District National Park and the Lincolnshire Wolds AONB. For details of the data that is available specifically for these two designated areas please see Table 4.7.

Reproduced from Ordnance Survey information with the permission of The Controller of Her Majesty’s Stationery Office, Crown Copyright, Land Use Consultants, Licence Number 100019265/0 30 6015 Km

Date: 30/03/2011

Source: Ordnance Survey, Natural England
Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.19: Summary of potential for plant biomass (heat)

Key

Protected Landscapes
- Peak District National Park
- Lincolnshire Wolds AONB

Please note: For some sources of renewable energy generation looked at in this study there is no specific technical potential set out specifically for the Peak District National Park and the Lincolnshire Wolds AONB. For details of the data that is available specifically for these two designated areas please see Table 4.7.
Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.20: Summary of potential for animal biomass and waste

Key

Protected Landscapes
- Peak District National Park
- Lincolnshire Wolds AONB

Please note: For some sources of renewable energy generation looked at in this study there is no specific technical potential set out specifically for the Peak District National Park and the Lincolnshire Wolds AONB. For details of the data that is available specifically for these two designated areas please see Table 4.7.
Map 4.17: Summary of potential for on-shore commercial-scale and small-scale wind (<6kW)

Key

Protected Landscapes

- Peak District National Park
- Indicates need to consider National Park purposes*
- Lincolnshire Wolds AONB
- Indicates need to consider AONB purposes*

*Indicative zone only - distance will vary according to circumstances
Map 4.18: Summary of potential for plant biomass (elec)

Key

Protected Landscapes
- Peak District National Park
- Lincolnshire Wolds AONB

Please note: For some sources of renewable energy generation looked at in this study there is no specific technical potential set out specifically for the Peak District National Park and the Lincolnshire Wolds AONB. For details of the data that is available specifically for these two designated areas please see Table 4.7.
Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.19: Summary of potential for plant biomass (heat)

Key

Protected Landscapes
- Peak District National Park
- Lincolnshire Wolds AONB

Please note: For some sources of renewable energy generation looked at in this study there is no specific technical potential set out specifically for the Peak District National Park and the Lincolnshire Wolds AONB. For details of the data that is available specifically for these two designated areas please see Table 4.7.
Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.20: Summary of potential for animal biomass and waste

Key

Protected Landscapes
- Peak District National Park
- Lincolnshire Wolds AONB

Potential 2020 (MW)
- Negligible
- 0.1 - 0.3
- 0.4 - 0.8
- 0.9 - 1.5
- 1.6 - 3.0
- 3.1 - 5.0
- 5.1 - 10.0
- 10.1 - 17.7

Please note: For some sources of renewable energy generation looked at in this study there is no specific technical potential set out specifically for the Peak District National Park and the Lincolnshire Wolds AONB. For details of the data that is available specifically for these two designated areas please see Table 4.7.

Reproduced from Ordnance Survey information with the permission of The Controller of Her Majesty's Stationery Office, Crown Copyright, Land Use Consultants, Licence Number 100019265

File: S:\5000\5013 East Midlands Councils\B Project Working\GISThemes\ArcGIS9\5013-01_031_Animal_biomass_biogas_Summary_RevB.mxd

Date: 30/03/2011

Source: Ordnance Survey, Natural England
Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.21: Summary of potential for biogas, biomass co-firing and hydropower

Key

Protected Landscapes

- Peak District National Park
- Lincolnshire Wolds AONB

Please note: For some sources of renewable energy generation looked at in this study there is no specific technical potential set out specifically for the Peak District National Park and the Lincolnshire Wolds AONB. For details of the data that is available specifically for these two designated areas please see Table 4.7.
Low Carbon Energy Opportunities for Local Planning Areas across the East Midlands

Map 4.22: Summary of potential for microgeneration

Key

Protected Landscapes

- Peak District National Park
- Lincolnshire Wolds AONB

Solar PV

Potential 2020 (MW)

- Negligible
- 0.1 - 5.0
- 5.1 - 10.0
- 10.1 - 30.0
- 30.1 - 50.0
- 50.1 - 93.7

Solar thermal

Potential 2020 (MW)

- Negligible
- 0.1 - 15.0
- 15.1 - 25.0
- 25.1 - 40.0
- 40.1 - 75.0
- 75.1 - 100.0
- 100.1 - 212.3

Heat pumps

Potential 2020 (MW)

- Negligible
- 0.1 - 50.0
- 50.1 - 100.0
- 100.1 - 150.0
- 150.1 - 200.0
- 200.1 - 300.0
- 300.1 - 375.0
- 375.1 - 490.6

Source: Ordnance Survey, Natural England,
Date: 03/03/2011

Reproduced from Ordnance Survey information with the permission of The Controller of Her Majesty's Stationary Office, Crown Copyright, Land Use Consultants, Licence Number 100019265

File: S:\5000\5013 East Midlands Council\B Project Working\GIS\Themes\ArcGIS9\5013-01_033_microgen_Summary_RevA.mxd