

15th April 2009

Our ref: R00096

Freedom of Information Request - Regional Renewable Energy Target and Windfarms

Your request is:

Please let me have (or direct me to your website entry giving the requested information) your regional target for renewable energy together with your County sub-targets. Also, please let me have a list of windfarms already approved (with no. of turbines and MW sizes), a list of those already in operation, and a list of current planning applications for new windfarms

Information provided

The regional renewable energy target is set out in the Regional Economic Strategy - Objective 3:

Sustainable Prosperity

Climate change and energy – Reduce CO2 emissions attributable to the South East by 20% from the 2003 baseline by 2016 as a step towards the national target of achieving a 60% reduction on 1990 levels by 2050, and increase the contribution of renewable energy to at least 10% of energy supply in the South East by 2010 as a step towards achieving 20% by 2020.

This is also repeated as Target 11 of the Regional Economic Strategy.

The Regional Economic Strategy sets no County-level targets.

We anticipate that regional targets may be raised as part of the new Integrated Regional Strategy (work on which will commence later this year), reflecting the Government's commitment to an 80% reduction in carbon emissions by 2050.

Windfarm Information



SEE Stats <http://www.see-stats.org/> is the most up-to-date source of information on installed capacity. It is currently being updated to 2009. This work will appear on the website by June.

SOUTH EAST REGIONAL TARGETS FOR RENEWABLES

Extracts from current report in preparation for SEERA/SEEDA.

Document	Date	Target (minimal) details
The South East Plan: (SEERA) & Regional Spatial Strategy	2005 & 2006	2010 – 620 MWe (5.5%) 2016 – 895 MWe (8%) 2020 – 1,130 MWe (10%) 2026 – 1,750 MWe (16%)
Regional Economic Strategy or RES 2006 – 2016 (SEEDA)	2006	2010 – 10% of electricity demand (4,167GWh/a) 2020 – 20% of electricity demand (8,335GWh/a)*

Regional and sub-regional targets are set out in the RSS ref: http://www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/008_seera_sep_d05.pdf

Sub-region	2010 Target (MWe)	2016 Target (MWe)
Thames Valley & Surrey	140	209
East & West Sussex	57	68
Hampshire & The Isle of Wight	115	122
Kent	111	154

*Note only on-shore resources are included in the figures above

The split by technology (e.g. all wind energy) can be seen on the map shown on page 132 of the document referenced above.

County breakdown in support of targets can also be seen at http://www.southeast-ra.gov.uk/documents/sustainability/aeat_se_regional_re_targets_final_consultation_revisions_march_03.pdf

The latest review of progress against targets carried out in 2008 showed that there was a strong likelihood of meeting the 2010 SE Regional Plan target based on installed capacity (MWe) that includes off-shore wind, but a certainty of falling short of a higher target based on meeting 10% of electricity demand by 2010. ***To note that the 2020 figure in the RES has been amended to be in line with the National aspiration of achieving a 15% renewables contribution to energy consumption by 2020 (so heat, power and transport fuels).**

CURRENT ACTIVITIES – SOUTH EAST PLAN UPDATE

Three scenarios are being considered to reflect possible future increases in the contribution that renewables might make to the SE Region by 2020. These will reflect:

- Business as usual (BAU) moving from the existing 1.2% to 5.4% contribution
- Medium growth (MGS) reaching 8.6% contribution
- High growth (HGS) reaching 15% contribution

The Business as Usual (BAU) scenario assumes little positive change from the current position where planning decisions remain highly uncertain. All scenarios assume zero growth from 2011 – 2012 as a result of the economic slowdown. This scenario is modelled on projecting the SEE-STATS database information forward (existing and planned projects) and giving ‘straight line’ growth.

The Medium Growth Scenario (MGS) assumes that all of the measures that are proposed in the DECC consultation come to pass swiftly and are reinforced by Regional Governance Bodies’ initiatives sweeping away many of the non-technical barriers over a period of 10 years. However, due to the economic slowdown, a ‘lag phase’ of 2 years is predicted where projections run at zero growth before accelerating away.

The High Growth Scenario (HGS) assumes all of the positive benefits of the MGS plus a dramatic ‘national and regional campaign’ which mandates urgent and priority action. This would in essence consider Climate Change to be a major threat to our way of life. The limitation here would be the technical ability to deliver (including industrial capacity) and the limit on resources – ultimately land and sea area. For biomass, import of fuel might be a further consideration to boost capacity. The economic slowdown is assumed to be counteracted by progressive public sector fiscal policies and measures to stimulate ‘green growth’. Nevertheless, a lag phase is also built in of 2 years.

The medium growth scenario will be the one we will be recommending as most likely to be achievable (but stretching). This will then be considered further through workshops/ consultation.

Type	Installed Capacity (MWe) Medium Growth Scenario
On-shore renewables total	1,649
Off-shore renewables total	1,359
Total	3,008

The sub-regional split is yet to be finalised. The on-shore wind contribution to the on-shore total is 404MWe.

EXISTING SCHEMES

For wind turbines >50kW. Latest data - at April 2009.

Please note this information is being updated at the moment. As such the data may be revised - in particular more schemes may be included - up to the time it is published on the SEE stats website.

Name	Status	No turbines	Installed Capacity (MWe)
Facombe	Existing	1	0.3
Green park	Existing	1	2
Westmill	Existing	5	6.5
Little Cheyne Court	Under construction	30	59.8
Milton Keynes	Approved	7	14
Glyndbourne	Approved	1	0.85
Cheverton Down	In planning	3	9
Nun wood	In planning	3	9
Port of Sheerness	Pre-planning	4	10
Queensway (Hastings)	Pre-planning	1	2
Rushy Mead (Reading University)	Pre-planning	5	12.5
Oxford City Council	Pre-planning	2	5