

# Cumulative Impact of Wind Farms In The Outer Clyde Estuary

## A Study By ArgyllWindFarms.com

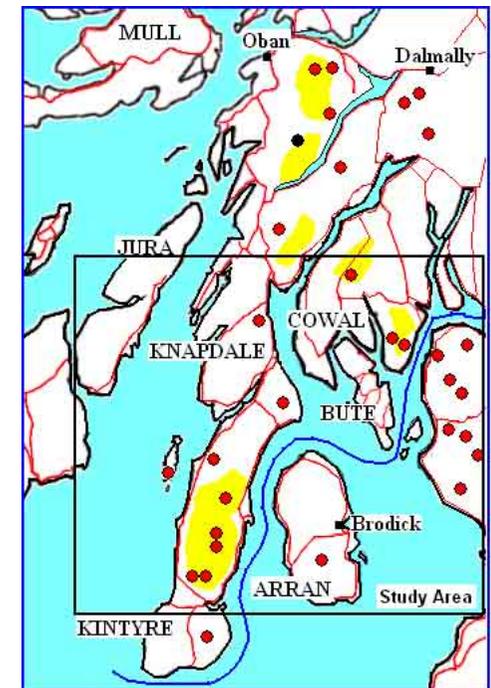


A study of the Outer Clyde Estuary, covering Kintyre, Cowal, Arran, Bute, Inverclyde and North Ayrshire, conducted by AWF, demonstrates the huge and increasing pressure on the area from wind farm developers. It concludes, that if all the wind farms in or approaching the planning system at present are approved, the level of cumulative impact will degrade the environment of this unique area to a totally unacceptable extent. It would not be an exaggeration to state that every transport route (road or ferry) would have a prominent view of at least one wind farm. The need for a strategic review is overwhelming.

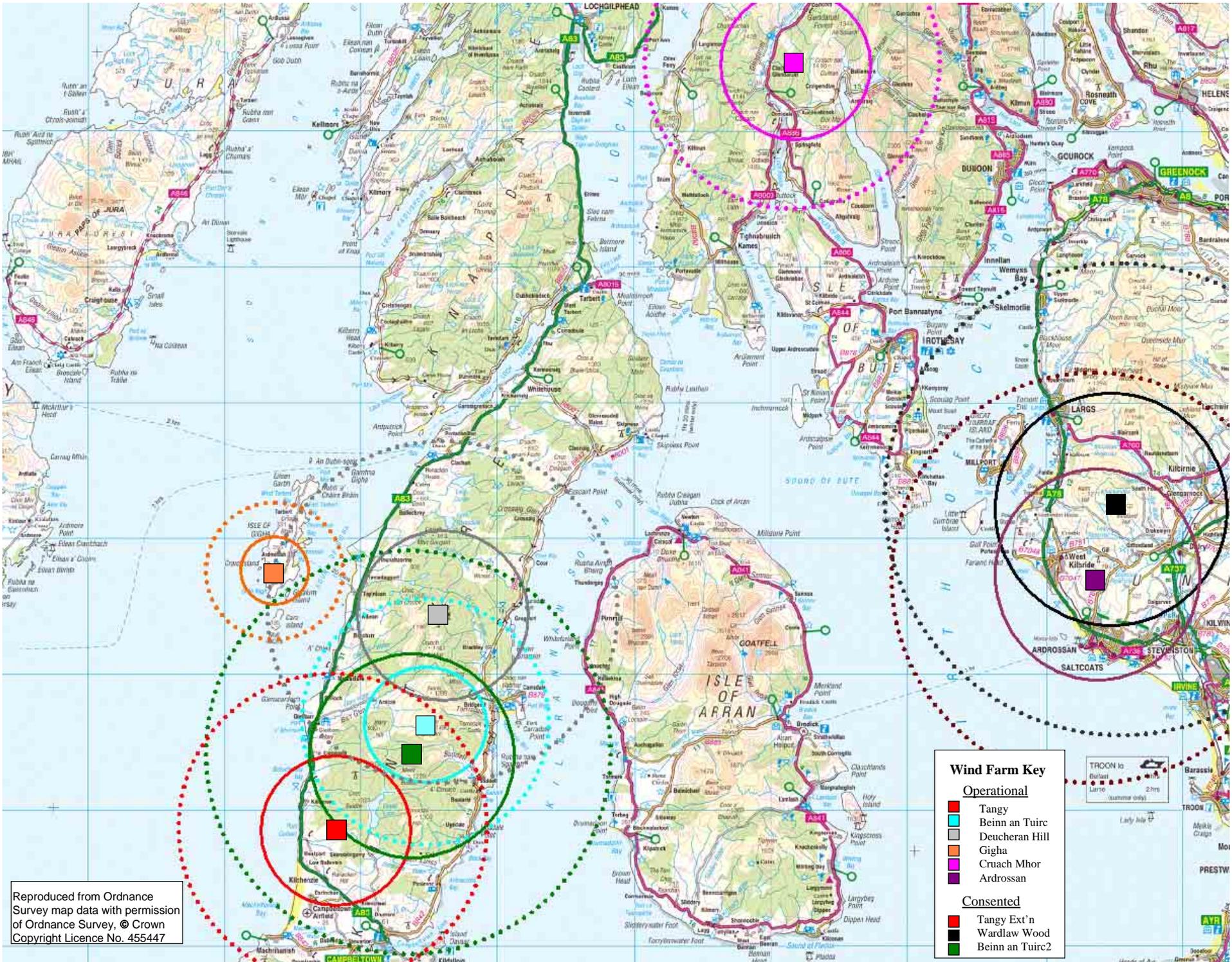
The potential cumulative effect of wind farms in the Outer Clyde Estuary has been studied and is illustrated on two maps. The first (Map 1) shows the location of all wind farms that are already built or consented. The second (Map 2) shows the location of all wind farms that are already built or consented plus the location of wind farms for which applications are awaiting determination and those for which a planning application is anticipated in 2006. The two circles around each wind farm are regions within which visibility of the turbines will be *dominant* (inner circle) or *prominent* (outer, dashed circle) unless affected by geographical features such as intervening hills. Where the circles overlap, the developments are, in theory, inter-visible at the relevant distances. The distance the circles extend outwards varies with turbine height. A modern 100 metre high turbine is *prominent* up to 15km away. It has a *dominant* effect within 7.5km. Rotor blade movement is clearly visible on a clear day from 30km and can add to cumulative impact. However, for the sake of clarity this latter distance has not been shown.

Many of the current planning applications have the potential for marked visual impact on their own through a combination of turbine size, and inappropriate location. The potential cumulative effect is self evident from Map 2.

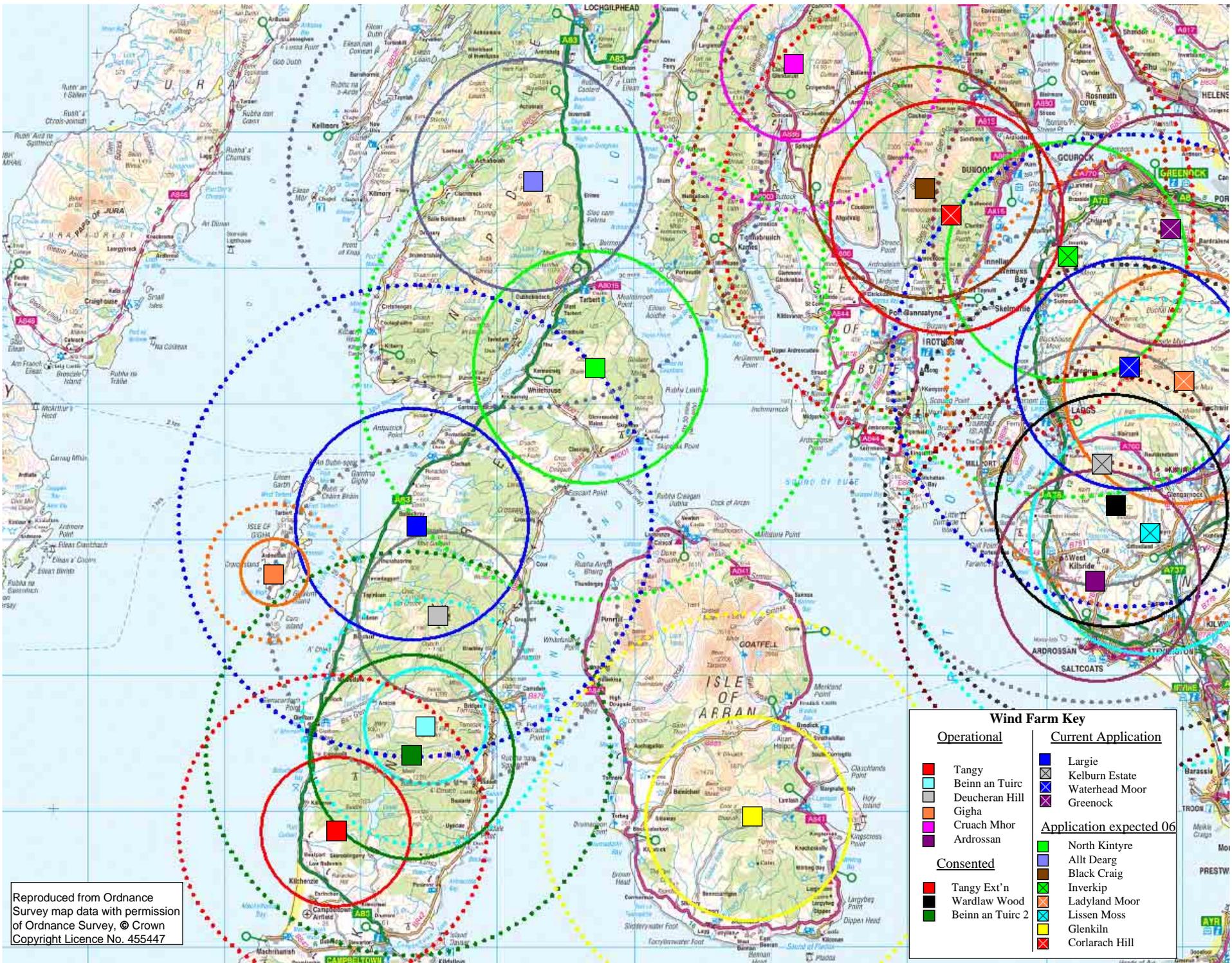
The last page contains a list of wind farms evaluated in this document. It is likely that there are other wind farms planned for the area which have not yet come to AWF's attention.



# Map 1: Existing & Consented Wind Farms



# Map 2: Existing, Consented & Planned Wind Farms

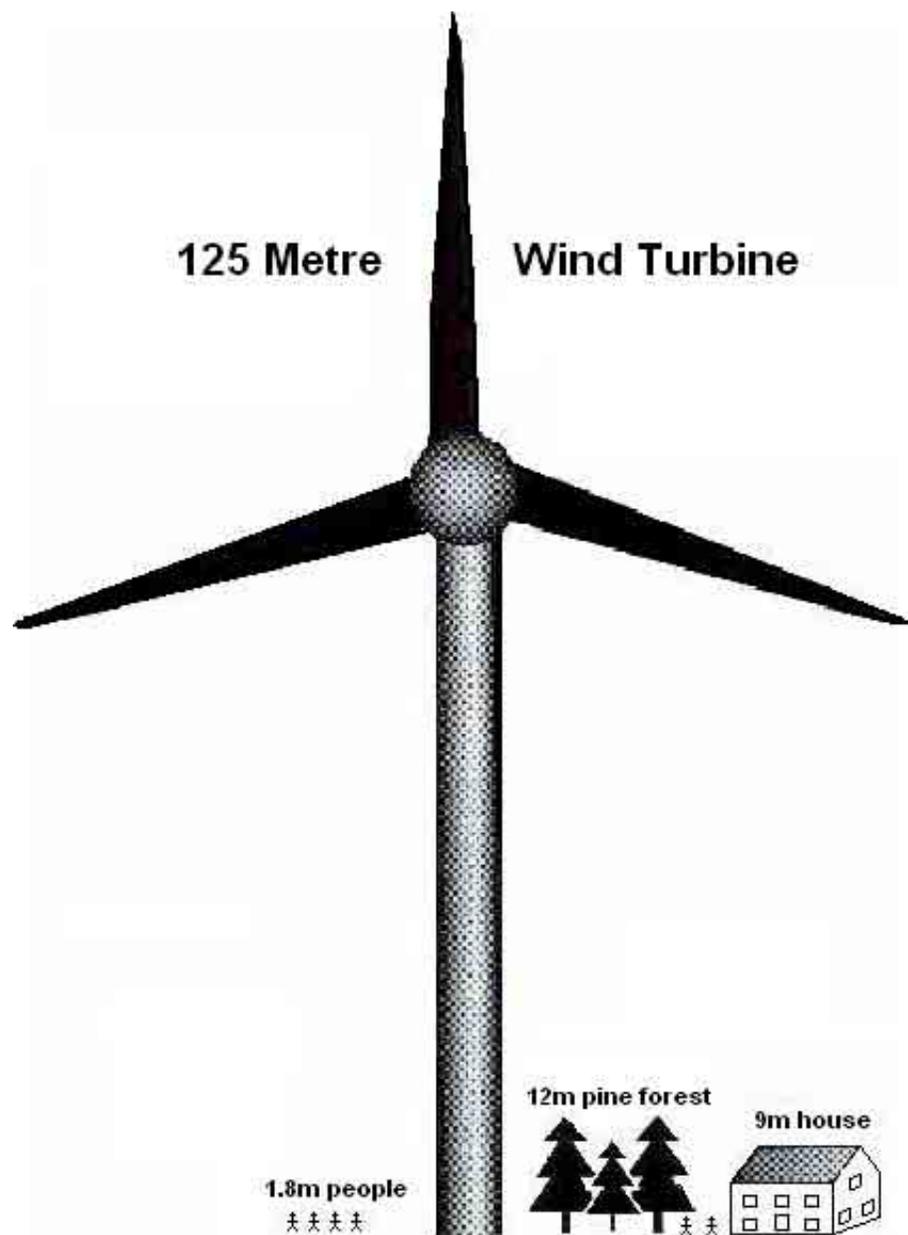


Wind Farm Key	
Operational	Current Application
■ Tangy	■ Largie
■ Beinn an Tuirc	■ Kelburn Estate
■ Deucheran Hill	■ Waterhead Moor
■ Gigha	■ Greenock
■ Cruach Mhor	
■ Ardrossan	
Consented	Application expected 06
■ Tangy Ext'n	■ North Kintyre
■ Wardlaw Wood	■ Allt Dearg
■ Beinn an Tuirc 2	■ Black Craig
	■ Inverkip
	■ Ladyland Moor
	■ Lissen Moss
	■ Glenkiln
	■ Corlarach Hill

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Wind Farm	No. Turbines	Turbine Height (Metres)	ZVI Limit (km)
<b>Operational</b>			
Tangy	15	75	22.5
Beinn an Tuirc	44	64	18
Deucheran Hill	9	79 & 93	25
Gigha	3	30	10
Ardrossan	12	100	30
Cruach Mhor	35	71	22
<b>Consented</b>			
Tangy Extension	7	75	22.5
Beinn an Tuirc 2	21	100	30
Wardlaw Wood	6	122	35
<b>Planning Application</b>			
Largie	19	107	35
Greenock	23	100+	35
Kelburn Estate	19	102	35
<b>App'n Expected 06</b>			
North Kintyre	22	118	35
Allt Dearg	14	115	35
Black Craig	19	125	35
Inverkip	10	125	35
Ladyland Moor	56	100+	35
Lissen Moor	unknown	unknown	35?
Glenkiln	8	100?	30?
Corlarach Hill	12	125	35
<b>Turbines prominent at half &amp; dominant at one quarter ZVI limit</b>			

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