Gazetteer of wind power in Scotland

The

Scottish Wind Assessment Project

Produced by *The Scottish Wind Assessment Project*January 2005

The Scottish Wind Assessment Project is an ongoing programme of research which seeks to collate existing studies and commission new research to promote a thorough investigation of the claims made for and against the use of wind-generated energy. It is supported by private donations.

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Front cover: turbines on the *Cairn Uish* site in Moray viewed from the outskirts of Elgin, which is approximately seven miles away.

The case for a wind-power gazetteer

SEEKING TO SUPPORT its Climate Change Programme, Westminster announced a policy in 2001 to stimulate development so that the electricity generation industry could meet 10 per cent of the UK's needs from renewables by 2010. Its five key aims were to:

- meet targets for emissions reduction;
- provide secure, diverse, sustainable and competitive energy supplies;
- stimulate the development of new renewables technologies;
- make the renewables industry competitive and provide employment;
- make a contribution to rural development.

Although responsibility for Britain's energy supplies generally remains with Westminster, implemening its renewable energy policy is delegated to the Scottish Executive. Scotland's target was originally 18 per cent although, since it has traditionally exported power south, it has never been clear whether it was 18 per cent of production or consumption. The Executive has since increased this to an ambitious '40 per cent by 2020' although doubts persist as to what these figures mean.²

Despite repeated calls from local authorities, statutory consultees, NGOs, environmental lobbyists, opposition MSPs and others for a strategy for renewable electricity generation, the Executive has instead chosen to follow Westminster's market-led approach combined with occasional small grants to R&D projects in Scotland.

The markets in question were created not by natural demand but by a series of regulatory interventions. These established a complex system of levies on consumers which are designed to escalate over the next decade.³ They are aimed at making 'renewables' an attractive short-to mid-term investment for an otherwise sceptical electricity supply industry. At the same time they coerce suppliers to invest according to a timetable that obliges them to have recourse to generation systems which the engineering profession generally views with suspicion.

The DTI predicts that by 2010 these levies will be worth £1 billion a year to the industry. Being in essence speculative, they can be lucrative, although the corollary – that prices may collapse rapidly if there is an excess of supply from unpredictable sources – is less generally acknowledged.

Despite the costs that consumers will incur under current policy, there is no mechanism for measuring whether the technologies chosen by electricity generators do actually either cut emissions or contribute to Westminster's other stated aims. The Scottish Executive recently repeated its belief that there is no need. This is disturbing because evidence is emerging that wind-power on the scale proposed for Scotland is destabilising in power engineering terms and ineffective at reducing emissions.⁴

Equally worrying is that there is no mechanism short of judicial review for stopping a planning application provided only it meets certain planning criteria assessed according to standards that many competent observers feel are lower than they should be.

In October 2004, Holyrood debated a unanimous report from its cross-party Enterprise and Culture Committee. This sharply criticised Executive policy as lacking in direction and as over-reliant on on-shore wind power. The Executive's response, described by one committee member as 'anodyne and self-congratulatory', rejected the charge. Its position was later

confirmed when Deputy First Minister Jim Wallace replied to an open letter from an environmental umbrella group, Views of Scotland, to say that:

'Your representation of the Executive's renewables policy as being in thrall to wind development is an extremely inaccurate reflection of our position.'

The Holyrood debate took place in a context of emerging doubt about the ability of wind-power to replace Scotland's ageing generation plant and concern that the Executive is pursuing a policy with potentially-serious economic, environmental and social consequences that have not been competently thought through. It might therefore be useful to clarify whether or not the Scottish Executive is indeed 'in thrall to wind'. To attempt to provide an answer requires at least a first order approximation as to how much Installed Capacity looks likely to be built if the Executive's exuberant confidence that market forces can plan a power supply system better than engineers goes unchecked.

Without a doubt, there is more information in the public domain than there was when a national sites map was first published about two years ago but it is still difficult to assess to what extent Jim Wallace's claim can be regarded as valid.

The available information is often incomplete, hard to find and harder to read. It can be unreliable with different sources saying different things. Local authority data can be difficult to correlate with Executive reports; proposals are often recorded relatively late in the planning cycle; the data provided by the industry is for marketing rather than analytical purposes. And so on. A curious feature of the scene is the way that developers change the name of proposals or applications so frequently as to appear wilful. This can lead to difficulties.



One of the smaller borrow-pits from the 28-turbine Cairn Uish site near Elgin and (inset) a turbine base nearing completion at the same site



A view over the Isle of Lewis, earmarked by the wind-power industry for particularly intense development

Although statutory or *de facto* statutory consultees such as Scottish National Heritage and the RSPB are privy to most, probably all, of what is being mooted, it seems that 'commercial confidentiality' prevents this knowledge being made public. Few outside the industry (nor, one suspects, that many in it) are fully aware of the number and extent of wind power sites proposed for Scotland. Without this information, the debate cannot but be distorted.

For its inaugural research project, the Scottish Wind Assessment Project (SWAP) set out to provide as full a picture as is practicable of the Scottish wind energy scene given the fragmented and often elusive nature of the material. What is presented here is a strategic overview rather than a technical assessment but remains, for now at least, probably the best picture available to the public at large as to how Scotland's decision makers envision the growth of wind energy provision – and of how radically different will be the landscape and environment we leave to our children and their visitors as a result.

The research on which this paper reports was made possible by the generosity of the sponsors of the Scottish Wind Assessment Project. Volunteers and staff alike thank them for their support and express the hope that the report makes a useful contribution to a vital national debate.

Notes

- ¹ See, e.g. New and Renewable Energy, Prospects for the 21st Century, DTI, n.d. but published in 2001.
- ² *Phil Gallie:* Will the Minister clarify whether the 18 percent target was set on the basis of sent-out megawatts or of the capacity of units that could be generated? If it is based on the latter, on what load factors has the Executive based its targets?
 - Lewis Macdonald: ... we have attempted to predict where we think electricity generation requirements will go and to encourage electricity companies to apply to provide the necessary share of the capacity that is set out in our targets. (Scottish Parliamentary Questions, November 2003).
- ³ The system, known as the Renewables Obligation and the Reneweables Obligation (Scotland) is administered by OFGEM, which publishes explanatory papers. In practice, the systems is less transparent than they make it seem.
- ⁴ See, e.g. The Impact of Wind Power Generation in Ireland on the Operation of Conventional Plant and the Economic Implications, ESB National Grid, 2004; E.On Netz, Wind Report 2004; Reduction in Carbon Dioxide emissions: estimating the potential contribution from wind power, Renewable Energy Foundation, 2004.

How the gazetteer was compiled

THE DEVELOPMENT and construction of renewable energy projects are governed by UK-wide legislation. Proposals for wind-power sites under 50MW capacity are determined by local authorities, which publish the applications locally. Some authorities, notably Highlands and Islands, have lists on their web sites though not always in the most amenable of formats.

The project had to start by monitoring Scotland's 32 local authorities. Only one (curiously, the one responsible for Holyrood) has yet to receive a significant wind-power application.

Proposals for sites in Scotland over 50MW Installed Capacity, known as section 36 or s.36 applications, are determined by Scottish ministers with local authorities relegated to the role of consultees. After a coy start, core information can now be obtained from the Scottish Executive about s.36 and other schemes though we suggest that researchers independently confirm points of detail.

The progress of s.36 applications once they have been lodged and the submission of Environmental Assessment and other documentation to the authorities can be monitored in *The Edinburgh Gazette*. The content of announcements is beyond the control of its publishers and, not infrequently, OS grid references and other details are incorrect and/or incomplete.

The national and local press have both followed the development of the wind-power industry and are invaluable sources of information, even if, at least until recently, they have tended to be oddly uncritical of industry claims. In particular, reports about the happy resolution of this or that hitch at this or that site should be treated with caution.

Due, one assumes, to unexpected public scepticism, developers seem more reluctant than formerly to publicise proposals early in the planning cycle. But we find that data on capacity and location published by them or by the British Wind Energy Association are generally reliable once approval has been obtained. For approved or operational sites only, discrepancies between these and other sources are generally resolved by reliance on BWEA and developers' data – provided it is remembered that their material is marketing publicity, not a research tool.

Autonomous or semi-autonomous community groups are a source of information about 'community' projects although the relationship between some of the material they circulate and the wider wind industry is not always as clear as it might be.

Web sites run by environmental lobby groups with a strong pro-wind and increasingly commerical bias such as Friends of the Earth, Greenpeace and the World Wildlife Fund (who jointly sponsor the Yes2Wind web site) cannot, in our experience, be relied on although Yes2Wind has improved since its risibly inaccurate early days. For aficionados only.

Finally, there are several web sites run by local campaigners against wind-power. The information they contain generally reflects lengthy liaision with planning authorities as well as local research. Although this report has not used data from these sites without independent verification, it should be acknowledged that most are generally reliable and often feature useful maps. Without them, this gazetteer would not have been as comprehensive as it is.

Two teams worked separately on compiling lists before bringing their findings together. The relatively few discrepancies that came to light as a result suggest that, whilst it is known that there are many embryonic proposals hidden from the public eye, what has made it into the public domain is captured here with reasonable accuracy. Errors will be acknowledged and corrected.

Principally the Electricity Act (1989), the Utilities Act (2000) and the Energy Act (2004).

Summary of sites by Planning Authority

Aberdeenshire	1	East Lothian		Strathy	111	Corbie Shank	07
Auchnagatt	159	Aikengall	034	Strathy North Forest	116	Craik Forest	10
Boyndie Airfield	177	Johnscleugh	050	Strathy South Forest	117	Crystal Rig	01
Chapel of Barras	083	East Renfrewshire		Stroupster	240	Crystal Rig extn	03
Clashindarroch Forest	003		4.40	Upper Breakish	100	Dun Law	03
Dummuies	176	Ardoch Farm	148	Inverclyde		Dun Law extn	16
Fetteresso	008	Myres Hill	049	Gryff Reservoir	080	Fallago Ridge	22
Glens of Foudland	005	Falkirk		Outerwards	107	Lamberton Moor	03
Hill of Garvock	105	Slammanan Plateau	195		107	Long Park	21:
Insch	006	Fife		Midlothian		Longpark	22
Kildrummy	004	Clatto Hill	169	Auchencorth Moss	216	Minch Moor	11:
Meikle Carewe	007	Hill of Allison	059	Moray		Monashee Farm	03
Stoneyhill	001	Little Raith	217	Aultmore	060		
Tullo	236	Glasgow		Balnamoon Farm	249	Sell Moor	16
		Castlemilk	218	Berry Burn	255	Toddleburn	05
Angus			210	Cairn Uish	061	Shetland	
Ark Hill	010	Highland		Cairn Uish extn	201	Burra Dale	12
Careston Estate	158	Abriachan Woods	263	Drummuir	062	Burra Dale extn	10
Dusty Drum	250	Achany	086	Findhorn	063	Busta Estate	19
Montreathmont	246	Achnacarry	180	Findhorn extn	021	Fair Isle	14
Muir of Pert	245	Achormlarie	087	Paul's Hill	064	Hamari Field	12
Shandford	011	Akron	103	Paul's Hill extn	200	Muckla Moor	23
Argyll & Bute		A'Mhoine	088	North Ayrshire		Susseter Hill	12
Allt Dearg	030	Ardnamurchan, Morvernl	198	Ardeer	065	Tresta	12
An Suidhe	012	Baillie	045	Ardrossan	066		19
Beinn an Tuirc	014	Beinn Tharsuinn	081	Hunterston	161	Yell	19
Beinn an Tuirc extn	136	Ben Aketil	132	Kaim Hill	068	South Ayrshire	
Beinn Ghlas	016	Bettyhill	115	Kelburn Estate	168	Hadyard Hill	13
	002	Bilbster	089		228	Mark's Hill	24
Carraig Gheal Clachan Flats	002	Boblainy Forest	175	Ladyland Moor	165		
Cruach Mhor	017	Borrowston	041	Lissens Moss Wardlaw Wood	153	South Lanarkshire	
	205	Boultach	204		155	Black Law	06
Dervaig		Braemore	257	North Lanarkshire		Calla Farm	22
Deucharan Hill	022	Broubster	038	Blacktongue Farm	179	Camps Reservoir	21
Ederline	266	Buolfruich	039	Bracco	184	Clyde Valley Windfarm	18
Gigha	207	Burn of Whilk	252	Ferrieshaw	247	Daer Reservoir	21
Inverleiver Forest	025	Cairn Duhie	174	Offshore		Dunduff Quarry	21
Isle of Luing	135	Cambusmore	219	Aberdeen Harbour	199	Dungavel Hill	24
Kintry Farm	076	Camster	015	Beatrice Field	055	East Kilbride	09
Largie	028	Carn Dearg Hill	023		098	Gair Farm	17
Machrihanish	026	Causeymire	040	Robin Rigg	090	Glengavel	18
Meall Mhor	029	Corriemoillie Forest	149	Orkney		Glespin	13
Muasdale Farm	187	Dalchork Wood	090	Bu Farm	120	Greenaton Farm	15
North Kintyre	206	Dalreavoch	220	Bu Farm extn	185	Hagshaw Hill	09
Stacain	112	Dunmaglass	056	Burgar Hill	142	Harburn Estate	18
Stronachulin	181	Dunmaglass extn	057	Burgar Hill extn	192	Harrow's Law	09
Tangy Farm	027	Durran	146	Burray	167		
Tangy Farm extn	238	Edinbane	133	Isle of Flodda	191	Headsmuir Farm	17
Clackmannanshire		Farr	058	Orphir	122	Spireslack	14
Burnfoot	251	Forss	042	Powdykes	121	Stallashaw Moss	05
	201	Forss extn	043	Rothiesholm	243	Whitelee Forest	04
Dumfries & Galloway		Glen Bernisdale	020	Spur Ness	124	Stirling	
Allfornought Hill	009	Glen Kirk	270	Thorfin	123	Ardeonaig	26
Artfield Fell	261	Glen Moriston	154	Ward Hill	235	Ballindalloch Muir	26
Balmaclellan	259	Glen Ullinish	208	West Hill	234	Braes of Doune	07
Craig	099	Gordonbush	109	Perth & Kinross		Buchlyvie Muir	25
Dalswinton	067	Hallin	268	Abercairny	202	Cairnoch Hill	25
Ewe Hill	211	Hill of Fearn	147	Balado	160	Cowiehall	01
Hareshaw Rig	156	Hill of Lieurary	182	Calliacher	203	Duntreath	13
Harestanes	095	Keoldale	108	Drumderg	152		
Harestanes Height	157	Kilbraur	110	_		Glenogle Farm	07
Minsca	241	Lairg Estate	227	Easter Newborn	075 267	Hart Hill (East)	23
Torrs Hill	097	Lochluichart	082	Green Knowes	I	Kippen Muir	22
Wether Hill	264	Lorgill	052	Griffin Forest	077	Limmer Hill	15
Windy Standard	101	Marybank	224	Knowehead	173	Slymaback	24
Windy Standard extn	102	Melvich	150	Little Law	225	Touch Reservoirs	23
Dundee		Nigg Hill	210	Lochelbank	193	West Dunbartonshire	
	440	Novar	084	Logiealmond	231	Kilpatrick Hills	04
Michelin Tyre Factory	118	Novar extn	085	Mellock Hill	230	•	04
East Ayrshire		Oust	256	Pole Hill	078	Western Isles	
Afton	141	Reay	188	Snowgoat Glen	074	Arnish Moor Wind Cluster	12
Benquhat Hill	265	Scoolary	044	Tillyrie Hill	271	Eisgen Estate	17
Dersalloch	254	Shebster	239	Trinafour	079	Lewis Wind	13
Hare Hill	046	Sleat	134	Scottish Borders		Linsiadar	16
Kyle Forest	229	Spean Bridge	178	Black Hill	031	Lionacleit	14
,			096		071		
Little Kilmain	051	Spittal Hill					10
Little Kilmain Mid Hill & Glen Gary	051 162	Spittal Hill Stirkoke		Bowbeat Hill Broadmeadows		Pairc Estate	14
Little Kilmain Mid Hill & Glen Gary Pencoe Forest	051 162 269	Spittal Hill Stirkoke Strath Brora (East)	119 114	Broadmeadows Carcant	094 037	Pairc Estate Pentland Road South Uist Estate	14 13 19

Key to sites

001	Stoneyhill	069	Black Law	136	Beinn an Tuirc extn	204	Boultach
002	Carraig Gheal	070	Braes of Doune	137	Duntreath	205	Dervaig
003	Clashindarroch Forest	071	Bowbeat Hill	138	Glespin	206	North Kintyre
004	Kildrummy	072	Glenogle Farm	139	Hadyard Hill	207	Gigha
005	Glens of Foudland	073	Corbie Shank	140	Pairc Estate	208	Glen Ullinish
006		073		141	Afton	210	Nigg Hill
	Insch Mailde Carrera		Snowgoat Glen				
007	Meikle Carewe	075	Easter Newborn	142	Burgar Hill	211	Ewe Hill
800	Fetteresso	076	Kintry Farm	143	Fair Isle	212	Long Park
009	Allfornought Hill	077	Griffin Forest	144	Spireslack	213	Dunduff Quarry
010	Ark Hill	078	Pole Hill	145	Lionacleit	214	Camps Reservoir
011	Shandford	079	Trinafour	146	Durran	215	Daer Reservoir
012	An Suidhe	080	Gryff Reservoir	147	Hill of Fearn	216	Auchencorth Moss
013	Crystal Rig	081	Beinn Tharsuinn	148	Ardoch Farm	217	
	, .	1		_			Little Raith
014	Beinn an Tuirc	082	Lochluichart	149	Corriemoillie Forest	218	Castlemilk
015	Camster	083	Chapel of Barras	150	Melvich	219	Cambusmore
016	Beinn Ghlas	084	Novar	151	Greenaton Farm	220	Dalreavoch
017	Clachan Flats	085	Novar extn	152	Drumderg	221	Calla Farm
018	Cowiehall	086	Achany	153	Wardlaw Wood	222	Fallago Ridge
019	Cruach Mhor	087	Achormlarie	154	Glen Moriston	223	Longpark
020	Glen Bernisdale	088	A'Mhoine	155	Limmer Hill	224	Marybank
021	Findhorn extn	089	Bilbster	156	Hareshaw Rig	225	,
		1			•		Little Law
022	Deucharan Hill	090	Dalchork Wood	157	Harestanes Height	226	Kippen Muir
023	Carn Dearg Hill	091	Harrow's Law	158	Careston Estate	227	Lairg Estate
025	Inverleiver Forest	092	East Kilbride	159	Auchnagatt	228	Ladyland Moor
026	Machrihanish	093	Hagshaw Hill	160	Balado	229	Kyle Forest
027	Tangy Farm	094	Broadmeadows	161	Hunterston	230	Mellock Hill
028	Largie	095	Harestanes	162	Mid Hill & Glen Gary	231	Logiealmond
029	Meall Mhor	096	Spittal Hill	163	Sell Moor	232	-
		1		164			Hart Hill (East)
030	Allt Dearg	097	Torrs Hill	_	Dun Law extn	233	Muckla Moor
031	Black Hill	098	Robin Rigg	165	Lissens Moss	234	West Hill
032	Crystal Rig extn	099	Craig	166	Linsiadar	235	Ward Hill
033	Dun Law	100	Upper Breakish	167	Burray	236	Tullo
034	Aikengall	101	Windy Standard	168	Kelburn Estate	237	Touch Reservoirs
035	Lamberton Moor	102	Windy Standard extn	169	Clatto Hill	238	Tangy Farm extn
036	Monashee Farm	103	Akron	170	Gair Farm	239	Shebster
037	Carcant	104	Craik Forest	171	Headsmuir Farm	240	
038		_		172			Stroupster
	Broubster	105	Hill of Garvock		Eisgen Estate	241	Minsca
039	Buolfruich	106	Burra Dale extn	173	Knowehead	242	Slymaback
040	Causeymire	107	Outerwards	174	Cairn Duhie	243	Rothiesholm
041	Borrowston	108	Keoldale	175	Boblainy Forest	244	Mark's Hill
042	Forss	109	Gordonbush	176	Dummuies	245	Muir of Pert
043	Forss extn	110	Kilbraur	177	Boyndie Airfield	246	Montreathmont
044	Scoolary	111	Strathy	178	Spean Bridge	247	Ferrieshaw
045	Baillie	112	Stacain	179	Blacktongue Farm		
		1		180	•	248	Dungavel Hill
046	Hare Hill	113	Minch Moor		Achnacarry	249	Balnamoon Farm
047	Kilpatrick Hills	114	Strath Brora (East)	181	Stronachulin	250	Dusty Drum
048	Whitelee Forest	115	Bettyhill	182	Hill of Lieurary	251	Burnfoot
049	Myres Hill	116	Strathy North Forest	183	Clyde Valley	252	Burn of Whilk
050	Johnscleugh	117	Strathy South Forest	184	Bracco	253	Buchlyvie Muir
051	Little Kilmain	118	Michelin Tyre Factory	185	Bu Farm extn	254	Dersalloch
052	Lorgill	119	Stirkoke	186	Harburn Estate	255	Berry Burn
053	Stallashaw Moss	120	Bu Farm	187	Muasdale Farm		-
054	Toddleburn	121	Powdykes	188		256	Oust
			-		Reay	257	Braemore
055	Beatrice Field	122	Orphir	189	Glengavel	258	Cairnoch Hill
056	Dunmaglass	123	Thorfin	190	Yell	259	Balmaclellan
057	Dunmaglass extn	124	Spur Ness	191	Isle of Flodda	260	Ballindalloch Muir
058	Farr	125	Burra Dale	192	Burgar Hill extn	261	Artfield Fell
059	Hill of Allison	126	Hamari Field	193	Lochelbank	262	Ardeonaig
060	Aultmore	127	Susseter Hill	194	South Uist Estate	263	Abriachan Woods
061	Cairn Uish	128	Tresta	195	Slammanan Plateau		
062	Drummuir	129	Arnish Moor Wind	196	Busta Estate	264	Wether Hill
		1				265	Benquhat Hill
063	Findhorn	130	Lewis Wind	198	Ardnamurchan,	266	Ederline
064	Paul's Hill	131	Pentland Road	199	Aberdeen Harbour	267	Green Knowes
065	Ardeer	132	Ben Aketil	200	Paul's Hill extn	268	Hallin
066	Ardrossan	133	Edinbane	201	Cairn Uish extn	269	Pencoe Forest
067	Dalswinton	134	Sleat	202	Abercairny	270	Glen Kirk
068	Kaim Hill	135	Isle of Luing	203	Calliacher	271	
	1 300711 1 1111					- 211	Tillyrie Hill

Wind-power sites proposed for Scotland 199 0 10 20 30 40 50

Proposal or application Approved or operational • Recently failed

Scottish wind power in context

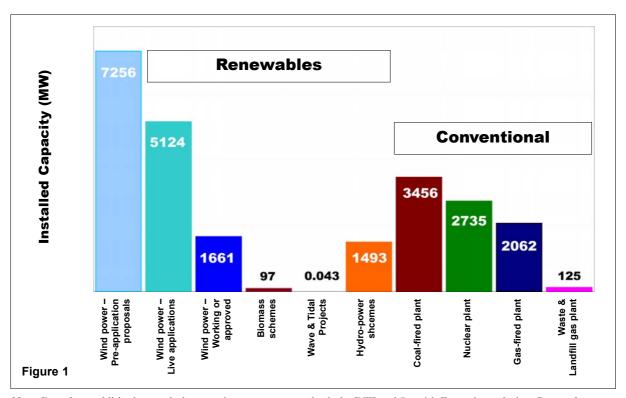
Atthough frequently cited as proof that generating power from the wind is not only viable but environmentally beneficial vis a vis conventional generation, the claim that Denmark obtains 20 per cent of its electricity from its 3,100MW of wind-power capacity is not tenable without qualification. A (fortuitously) favourable system of cross-border Interconnectors masks the fact that, in practice, wind provides on average no more than about five per cent of Denmark's power. Around 80 per cent is exported, much of it in ways that inhibit emissions cuts.

Germany, Europe's largest investor in wind power, has 14,350MW Installed Capacity (about double that of the United States but, by coincidence, comparable to that mooted for Scotland – see below). Despite the gloss, grid operator E.ON Netz's *Wind Report 2004* is pessimistic, linking grid instability, low productivity and high costs to increases in wind capacity.

Ireland's grid structure, like Scotland's, lacks the robustness of the Danish model. Grid operator ESB had to impose a moratorium on the connection of new wind power in December 2003, following operational problems associated with a modest 210MW wind-power penetration (approx 4% by IC). This was lifted in July after a modified grid code imposed new conditions on generators but it is not known how successful this has been.

Experienced engineers reportedly share the concerns of lay people as to how, in the light of the European experience, more than a fraction of the capacity envisaged for Scotland can be accommodated within the UK, let alone locally. England and Wales are already pursuing their own programme for wind-power which will itself test local infrastructure resilience.

Nor is clear how the power generated in Scotland will get to the rest of the UK given that the Scotland-England Interconnector is limited to 2,000MW. There has been little public discussion of the need to fund substantial upgrades between Scotland's Central Belt and at least the nothernmost of England's population centres. There almost seems to be a perception in political circles that Stornoway to Stirling will do the trick.



Note: Data for established non-wind generation sources are on both the DTI and Scottish Executive web sites. Pumped storage and Inverkip (not in use and currently for sale) are omitted. Apart from wind (shown separately) the figures include applications and consents, the most significant being the 400MW gas-fired plant at Westfield, Fife consented in June 2003.

'Representation of the Executive's renewables policy as being in thrall to wind development is an extremely inaccurate reflection of our position'

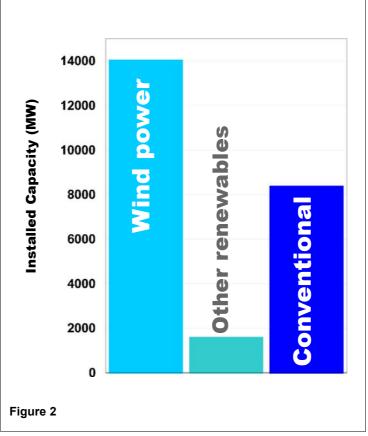
Deputy First Minister Jim Wallace

Figures 1 and 2 compare the total wind capacity mooted for Scotland to the known totals for hydro and other renewables on the one hand and conventional plant on the other.

It is acknowledged that some of the proposals (such as Wind Energy's 500-turbine proposal for Ardanmurchan, Morvern and Mull or Shetland Council's proposal to develop a 300-turbine scheme on its Busta Estate) are, in the opinion of many, 'aspirational', but the fact remains that they are in the public domain and that there is no mechanism for the competent independent evaluation of their technical or commercial merit.

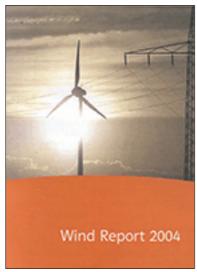
Consideration as to whether the generation infrastructure can absorb their input or whether they consequently contribute to a reduction of emissions is explicitly excluded from Scottish Executive policy.

In thrall to wind? There is certainly a case to answer.



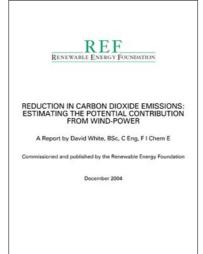
The generating capacity either installed or mooted for installation in Scotland under the Scottish Executive's current energy regime

Three important papers examining the relationship between significant input from wind power in a generation mix, the electricity grid systems with which it integrates and the efficacy of the emissions-reduction programme that purportedly drove their construction. They are available on the Internet.

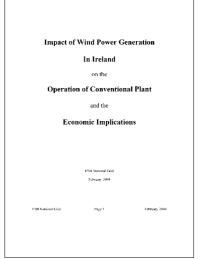


Explains the effect of wind generation on grid stability and the need for reserve capacity.

Published by E.ON



Exhaustively challenges the notion that wind power cuts CO₂ emissions. Published by the Renewable Energy Foundation



Examines aspects of the cost of wind generation and its impact on system integrity. Published by ESB National Grid

A Gazetteer of Scottish wind-power National Summary

	Number of Sites	Number of Turbines	Installed Capacity	
Proposals	67	1,702	3,623	
Anemometery	33	632	1,270	
Scoping	33	1,070	2,504	
Live Application	54	1,872	4,858	
On appeal	6	85	186	
Rejected but resubmitted	3	47	80	
Approved but not started	25	360	745	
Under construction	8	246	554	
Operational (11 are 1 or 2 turbines only)	27	367	362	
Totals	256	6,519	14,411	MW
Rejected or withdrawn	8	121	196	
Rejected after Public Inquiry	2	17	34	
Totals	10	138	230	MW

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					Page 13
	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
Ab	erdeenshire				
	Auchnagatt	Not known	Anemometery	NJ 94 38	
		Between Auchnagatt and Ellon off A948	•		
177	Boyndie Airfield	Renewable Development Company	Approved, not started	NJ 62 64	
	•	4km W of Banff		7 x 2.5	17.5 MW
083	Chapel of Barras	St John's Hill Ltd	Proposal	NO 835 775	;
	·	5km NW of Kenner	·	10 x 2	20 MW
003	Clashindarroch Forest	AMEC Wind	Live application	NJ 43 29	s.36
		9km SW of Huntly		47 x 2.8	129.25 MW
176	Dummuies	Tetro Energy Ltd	Approved, not started	NJ 56 35	
		6km SE of Huntly		7 x 1.5	10.5 MW
800	Fetteresso	Olsen Renewables	Approved, not started	NO 801 869)
AKA	Mid Hill, Cairn o'Mount	16km W of Stonehaven		23 x 2	46 MW
005	Glens of Foudland	Renewable Energy Systems	Under construction	NJ 61 37	
AKA	Bissell Moss, Hill of Foudland	Between Inverurie and Huntly		21 x 1.3	27.3 MW
105	Hill of Garvock	Garvock Hill Wind Farm	Rejected or withdrawn	NO 73 70	
AKA	Laurencekirk	2km E of Laurencekirk	-	8 x 1.5	12 MW
006	Insch	Olie Oldgard & BRDR Mayjand	Anemometery	~NJ 63 28	
		26km ENE of Inverurie			
004	Kildrummy	nPower Renewables	Proposal	NJ 41 21	
AKA	Clashnarae Hill	4km W of Lumsden		20 x 1.7	34 MW
007	Meikle Carewe	Renewable Energy Systems	Rejected but resubmitted	NO 82 92	
		6km NW of Stonehaven		10 x 0.6	5.7 MW
001	Stoneyhill	Dudley Developments	Rejected or withdrawn	NK 07 39	
AKA	Baillie, Buchan Windfarm	Nr Hatton, 8km SW of Peterhead		24 x 1.5	36 MW
236	Tullo	Tullo Wind Farm Ltd	Approved, not started	NO 765 715	<u> </u>
AKA	Garvock Hill	2km E of Laurencekirk		8 x 1.5	12 MW
Tota	I for Aberdeenshire	13 Applications, 2 Rejected	153 7	Turbines	302.25 MW
An	gus				
	Ark Hill	Renewable Energy Systems	Rejected but resubmitted	NO 38 46	
		6km S of Glamis		8 x 1.3	10.4 MW
158	Careston Estate	Renewable Energy Systems	Live application	NO 48 67	s.36
		13km NW of Brechin		26 x 2	52 MW
250	Dusty Drum	Private Developer	Scoping	NO 555 415	
200	- a.c., - a				

	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
246	Montreathmont	Wind Prospect	Scoping	NO 576 543	
		14km NE of Forfar		20 x 2	40 MW
245	Muir of Pert	Private Developer	Scoping	NO 655 635	
		5km NE of Brechin		4 x 1	4 MW
011	Shandford	E.ON UK Renewables	Anemometery	NO 49 64	
		11km NW of Brechin			
Tota	al for Angus	6 Applications, None rejected		62 Turbines	110.4 MW
Δr	gyll & Bute	1			
		» Dower Denovebles	Canina	ND 025 700	
030	Allt Dearg Ormsary	nPower Renewables	Scoping	NR 835 799	45 NAVA
——	Omisary	9km SW of Lochgilphead		15 x 3	45 MW
	An Suidhe	E.ON UK Renewables	Approved, not started		
AKA	Dalmally	10km W of Inverary		24 x 1.8	42 MW
014	Beinn an Tuirc	CRE Energy	Operational	NR 75 37	
		7km SW of Carradale, Mull of Kintyre		46 x 0.7	30.36 MW
136	Beinn an Tuirc extn	CRE Energy	Proposal	NR 75 37	s.36
		7km SW of Carradale, Mull of Kintyre		28 x 2.5	70 MW
016	Beinn Ghlas	nPower Renewables	Operational	NM 97 25	
		6km WSW of Taynuilt		14 x 0.6	8.4 MW
002	Carraig Gheal	Green Power	Live application	NM 96 20	s.36
AKA	Fernoch, Loch Nant	13km SE of Oban		36 x 2	72 MW
017	Clachan Flats	AMEC Wind	Approved, not started	I NN 185 155	
AKA	Corriechrevie, Ardkinglas	By Cairndow nr head of Loch Fyne	,	9 x 1.8	15.75 MW
019	Cruach Mhor	CRE Energy	Operational	NR 985 865	
		28km SW of Crianlarich head of glendaruel		35 x 0.9	30.1 MW
205	Dervaig	Sgurr Energy/Private Developer	Proposal	NM 454 501	
		12km SW of Tobermory, Isle of Mull		8 x 1	8 MW
022	Deucharan Hill	E.ON UK Renewables	Operational	NR 76 44	
AKA	Cruach Mor Cruach	8km NW of Carradale		9 x 1.8	15.75 MW
266	Ederline	nPower Renewables	Scoping	NM 945 025	s.36
AKA	An Suidhe	6km SE of Ford	. •	60 x 2	120 MW
207	Gigha	Gigha Renewable Energy	Under construction	NF 766 048	
	O.g.iu	Isle of Gigha		3 x 0.6	1.8 MW
025	Inverleiver Forest	CRE Energy	Proposal	~NM 91 12	
020	mvenerver Forest	Due S of Loch Avich	rioposai	~NW 91 12	34 MW
405	Table of Ladie		O		
135	Isle of Luing	Private	Operational	NM 74 10	0.05.8484
		S of Mull and NE of Colonsay		1 x 0.0	0.05 MW

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	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
)76	Kintry Farm	Elsam A/S	Anemometery	NR 307 442	
		Oa, Islay			
)28	Largie	Eurus Energy	Live application	NR 735 505	
AKA	Achnafad	E of Tayinloan		19 x 2	38 MW
026	Machrihanish	nPower Renewables	Anemometery	NR 63 20	
		3km W of Campbeltown, Kintyre			
029	Meall Mhor	Pole Hill Power	Live application	NR 83 74	
		6km N of Tarbert, Kintyre		1 x 1	0.96 MW
187	Muasdale Farm	Eurus Energy	Anemometery	NM 918 227	
		5km SE of Kilmore			
206	North Kintyre	nPower Renewables	Scoping	NR 865 625	
AKA	Kennacraig	2km ESE of Kennacraig		35 x 1.3	45.5 MW
112	Stacain	Wind Prospect	Proposal	NN 169 215	
AKA	Glen Shira	By Lochan Shira, 16km NE of Inverary		17 x 2.5	42.5 MW
181	Stronachulin	Renewable Energy Systems	Proposal		
		11km N of Tarbert		4 x 1	3.8 MW
)27	Tangy Farm	Scottish and Southern Energy	Operational	NS 72 28	
		8km NW of Campbeltown, Kintyre		15 x 0.9	12.75 MW
238	Tangy Farm extn	Scottish and Southern Energy	Live application	NR 674 286	
		8km NW of Campbeltown, Kintyre		7 x 2	14 MW
Tota	ıl for Argyll & Bute	24 Applications, None rejected	,	403 Turbines 6	50.72 MW
CI	ackmannanshire				
251					
	Burnfoot	Wind Prospect	Proposal	NN 904 030	
	Burnfoot	Wind Prospect 7km NE of Tilliecoultrie	Proposal	NN 904 030 20 x 2	40 MW
Tota	Burnfoot	•	Proposal		40 MW 40 MW
		7km NE of Tilliecoultrie	Proposal	20 x 2	
Dι	ıl for Clackmannanshire	7km NE of Tilliecoultrie	Proposal	20 x 2	
	Il for Clackmannanshire	7km NE of Tilliecoultrie 1 Application None rejected		20 x 2 20 Turbines	
D u	Il for Clackmannanshire	7km NE of Tilliecoultrie 1 Application None rejected Renewable Energy Systems		20 x 2 20 Turbines	
D u	Ifor Clackmannanshire Imfries & Galloway Allfornought Hill	7km NE of Tilliecoultrie 1 Application None rejected Renewable Energy Systems 8km SW of Langholm	Anemometery	20 x 2 20 Turbines NY 299 788	40 MW
D t 009	Ifor Clackmannanshire Imfries & Galloway Allfornought Hill	7km NE of Tilliecoultrie 1 Application None rejected Renewable Energy Systems 8km SW of Langholm Scottish and Southern Energy	Anemometery	20 x 2 20 Turbines NY 299 788 NX 230 670	40 MW
D t 2009	In for Clackmannanshire Imfries & Galloway Allfornought Hill Artfield Fell	7km NE of Tilliecoultrie 1 Application None rejected Renewable Energy Systems 8km SW of Langholm Scottish and Southern Energy 17km NE of Stranraer	Anemometery Under construction	20 x 2 20 Turbines NY 299 788 NX 230 670 15 x 1.3	40 MW 19.95 MW s.36
D t 009 261	Il for Clackmannanshire Imfries & Galloway Allfornought Hill Artfield Fell Balmaclellan	7km NE of Tilliecoultrie 1 Application None rejected Renewable Energy Systems 8km SW of Langholm Scottish and Southern Energy 17km NE of Stranraer DP Energy Cork	Anemometery Under construction	20 x 2 20 Turbines NY 299 788 NX 230 670 15 x 1.3 NX 681 790 45 x 1.5	40 MW 19.95 MW

					Page 1
	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
067	Dalswinton	Airtricity	Live application	NX 945 893	
AKA	Glenmaid Moor, Pennyland Moor	11km NNE of Dumfries		16 x 2	32 MW
211	Ewe Hill	CRE Energy	Live application	NY 284 876	s.36
		10km W of Langholm		37 x 2.5	92.5 MW
156	Hareshaw Rig		Anemometery	NY 01 98	
		11km SW of Moffat			
095	Harestanes	Scottish and Southern Energy	Live application	NX 98 89	s.36
AKA	Forest of Ae	14km E of Thornhill		94 x 3	282 MW
157	Harestanes Height		Anemometery	NS 998 014	
		7km SW of Moffat			
241	Minsca	Airtricity	Approved, not started	NY 228 814	
AKA	Waterbeck	5km E of Lockerbie		17 x 2	34 MW
097	Torrs Hill	Torrs Hill Wind Farm	Approved, not started	NX 52 89	
		10km NW of New Galloway		2 x 2	4 MW
264	Wether Hill	CRE Energy	Live application	NX 702 941	
AKA	Moniavie	6km NW of Moniaive	••	14 x 3	42 MW
101	Windy Standard	nPower Renewables	Operational	NS 61 01	
AKA	Benbrack	8km NE of Carsphairn	·	36 x 0.6	21.6 MW
102	Windy Standard extn	Natural Power	Live application	NS 61 01	s.36
	•	8km NE of Carsphairn		36 x 3	108 MW
Tota	al for Dumfries & Galloway	14 Applications, None rejected	31	7 Turbines 7	706.55 MW
Di	undee				
	Michelin Tyre Factory	Michelin	Approved, not started	NO451327	
110	michelli Tyre ractory	Between Dundee & Broughtly Ferry	Approved, not started	3 x 1.5	4.5 MW
Tota	al for Dundee	1 Application None rejected		3 Turbines	4.5 MW
-	ant Armabina				
	ast Ayrshire	F ON LIK Day workland	I has assured	NO 007 0 (0	
141	Afton	E.ON UK Renewables 8km SSE of New Cumnock	Live application	NS 627 042 27 x 2.7	s.36 72.9 MW
265	Benquhat Hill	Benquhat Windfarm	Live application	NS 465 105	s.36
	Chalmerston	2km N of Dalmellington		25 x 2	50 MW
254	Dersalloch	CRE Energy	Scoping	NS 421 039	s.36
		3km W of Dalmelington		31 x 3	93 MW
046			-	110 0= 00	
0.0	Hare Hill	CRE Energy 5km SE of New Cumnock	Operational	NS 65 09 20 x 0.7	13.2 MW

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	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
229	Kyle Forest	AMEC Wind	Live application	NS 456 105	s.36
		5km NNE of Dalmelington		103 x 2.5	257.5 MW
051	Little Kilmain	EcoGen	Proposal	NS 41 10	
		8km NW of Dalmellington		6 x 1.3	7.8 MW
162	Mid Hill & Glen Gary	Community Windpower	Proposal	NS 58 30	
		10km N of Cumnock		6 x 2	12 MW
269	Pencoe Forest	North British Wind Power	Scoping	NS 61 08	s.36
		5km ENE of Dalmelington		28 x 3	84 MW
Tota	al for East Ayrshire	8 Applications, None rejected		246 Turbines	590.4 MW
Ea	ast Lothian				
034	Aikengall	Natural Power	Scoping	NT 72 66	
AKA	Heart Law, Greater Moynut	9km SSE of Dunbar		24 x 2	48 MW
050	Johnscleugh	Renewable Energy Systems	Anemometery	~NT 58 70	
		1km SW of Dunbar			
Tota	al for East Lothian	2 Applications, None rejected		24 Turbines	48 MW
		•			
Ea	ast Renfrewshire				
148	Ardoch Farm	CRE Energy	Approved, not starte	d NS 58 48	
		2km SE of Eaglesham		3 x 2	6 MW
049	Myres Hill	Thorfinn Wind "A"	Operational	NS 5746	
		3km SW of Eaglesham		2 x 0.9	1.8 MW
Tota	al for East Renfrewshire	2 Applications, None rejected		5 Turbines	7.8 MW
Fa	alkirk				
195	Slammanan Plateau	I	Anemometery		
		9km E of Cumbernauld	·		
Tota	al for Falkirk	1 Application None rejected		0 Turbines	0 MW
Fi	fe				
169		CRE Energy	On appeal	NO 34 06	
100	- atto i iii	5km N of Kennoway	on appear	17 x 2	34 MW
059	Hill of Allison	Pure Wind	Failed	NO 42 02	
	Loumuth	4km NE of Leven	i unod	140 72 02	
			Proposal	NT 205 045	
217 AKA	Little Raith Mosmorran	2km E of Cowdenbeath	Proposal	NT 205 915 9 x 1.5	13.5 MW
, 11	omorran	ZMII L OI OUWUGIIDGAUI		3 X 1.0	13.3 10100

					Page 18
	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
Tota	I for Fife	3 Applications, None rejected		26 Turbines	47.5 MW
Gla	asgow				
	Castlemilk	Castlemilk Econ	Proposal	NS 625 585	
		SE of Glasgow, nr East Kilbride		3 x 2	6 MW
Tota	l for Glasgow	1 Application None rejected		3 Turbines	6 MW
Hig	ghland				
	Abriachan Woods	Private Developer	Live application	NH 558 360	
		5km NE of Drumnadrochit		2 x 2	4 MW
086	Achany	Scottish and Southern Energy	Anemometery	NC 513 040	
		8km SW of Lairg			
180	Achnacarry	North British Wind Power	On appeal	NN 16 87	
		14km NNE of Fort William			
087	Achormlarie	AMEC Wind	Anemometery	NC 66 97	
		15km NW of Dornoch			
103	Akron	Scottish and Southern Energy	Proposal	NC 912 609	
		20km ESE of Thurso		15 x 2.3	34.5 MW
088	A'Mhoine	Atlantic Energy	Proposal	NC 51 60	
		7km WNW of Tongue		2 x 0.5	1 MW
198	Ardnamurchan, Morvern & Mull	Wind Energy	Anemometery	NM 68 54	s.36
		Morvern Peninsula and N end of Mull		500 x 2	1000 MW
045	Baillie	Baillie Wind Farm	Live application	ND 035 655	s.36
AKA	Westfield	4km SSE of Borrowston		25 x 3	75 MW
081	Beinn Tharsuinn	CRE Energy	Approved, not started	NH 617 819	
AKA	Struie, Edderton	12km NNW of Alness		17 x 1.8	29.75 MW
132	Ben Aketil	Renewable Development Company	Live application	NG 33 46	
	Dunvegan	7km E of Dunvegan, Isle of Skye	upp	14 x 1.5	21 MW
115	Bettyhill	North British Windpower	Proposal	NC 74 60	
113	Dettyriii	4km SE of Bettyhill	Fioposai	50 x 2.5	s.36 125 MW
		<u>, </u>			
089 ^K^	Bilbster Flex Hill	Private Developer	Live application	ND 271 518	0.844
ANA	I ICY LIII	11km WNW of Wick		3 x 2	6 MW
175	Boblainy Forest	AMEC Wind	Rejected or withdraw	n NH 48 38	
		12km S of Muir of Ord			
041	Borrowston	CRE Energy	On appeal	ND 0 068	
AKA	Dounreay	1km NE of Dounreay		10 x 1.7	17 MW

					Page 19
	Name	Developer Approx Location	Status	Grid Ref Turbines	Installed
					Capacity
204	Boultach	Fivestones 5km NNE of Dunbeath	Proposal	ND 175 355	2 1414/
		5km NNE of Dunbeath		1 x 2	2 MW
257	Braemore	Renewable Development Company Ltd	Proposal	ND 105 305	s.36
AKA	Dunbeath Estate	5km W of Dunbeath		26 x 2	52 MW
038	Broubster	Scottish and Southern Energy	Scoping	ND 05 59	s.36
		10km SW of Thurso		58 x 2.5	145 MW
039	Buolfruich	Enercon	Approved, not started	ND 160 355	
		5km N of Dunbeath		15 x 0.6	9 MW
252	Burn of Whilk	nPower Renewables	Scoping	ND 296 415	
AKA	Yarrow	11km SW of Wick		10 x 2	20 MW
174	Cairn Duhie	Renewable Energy Systems	Proposal	NH 980 420	
		5km SE of Ferness		24 x 1.5	36 MW
219	Cambusmore	Renewable Energy Systems	Live application	NH 665 994	s.36
AKA	Loch Buidhe	15km NW of Dornoch		33 x 2	66 MW
015	Camster	E.ON UK Renewables	Proposal	~ND 26 44	s.36
		15km SW of Wick		25 x 2	50 MW
023	Carn Dearg Hill	Private Developer	Live application	NM 424 795	
020	54 254.g	Port Mor, Isle of Muck	zivo appiioation	2 x 2	4 MW
040	Caucaymira	nPower Renewables	Operational	ND 155 505	2.26
040	Causeymire	17km S of Thurso	Operational	22 x 2.3	s.36 50.6 MW
149	Corriemoillie Forest	CRE Energy	Scoping	NH 346 678	40 100
		5km N of Levin		20 x 2	40 MW
090	Dalchork Wood	AMEC Wind	Anemometery	NC 59 12	
		6km NE of Lairg			
220	Dalreavoch	Renewable Development Company	Scoping	NC 721 111	
AKA	Strath Brora (West)	10 Km WNW of Golspie		23 x 2	46 MW
056	Dunmaglass	Private Developer	Failed	NH 593 197	
000					
000		26km S of Inverness at Foyers			
_	Dunmaglass extn	26km S of Inverness at Foyers Renewable Energy Systems	Proposal	NH 644 190	s.36
057	Dunmaglass extn	<u> </u>	Proposal	NH 644 190 36 x 3	s.36 108 MW
	Dunmaglass extn	Renewable Energy Systems	Proposal Live application		
057	-	Renewable Energy Systems 26km S of Inverness at Foyers		36 x 3	108 MW
057 146 AKA	Durran Spittal Hill, Banniskirk	Renewable Energy Systems 26km S of Inverness at Foyers Scottish and Southern Energy 8km SE of Thurso	Live application	36 x 3 ND 18 64 22 x 3	108 MW
057 146 AKA	Durran	Renewable Energy Systems 26km S of Inverness at Foyers Scottish and Southern Energy		36 x 3 ND 18 64	108 MW
057 146 AKA 133	Durran Spittal Hill, Banniskirk Edinbane	Renewable Energy Systems 26km S of Inverness at Foyers Scottish and Southern Energy 8km SE of Thurso AMEC Wind Head of Loch Greshornish, Isle of Skye	Live application Live application	36 x 3 ND 18 64 22 x 3 NG 354 467 27 x 1.8	108 MW s.36 66 MW 47.25 MW
057 146 AKA 133	Durran Spittal Hill, Banniskirk	Renewable Energy Systems 26km S of Inverness at Foyers Scottish and Southern Energy 8km SE of Thurso AMEC Wind	Live application	36 x 3 ND 18 64 22 x 3 NG 354 467	108 MW s.36 66 MW
057 146 AKA 133	Durran Spittal Hill, Banniskirk Edinbane	Renewable Energy Systems 26km S of Inverness at Foyers Scottish and Southern Energy 8km SE of Thurso AMEC Wind Head of Loch Greshornish, Isle of Skye nPower Renewables	Live application Live application	36 x 3 ND 18 64 22 x 3 NG 354 467 27 x 1.8 NH 735 290	108 MW s.36 66 MW 47.25 MW s.36

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	Name	Developer Approx Location	Status	Grid Ref Turbines	Installed Capacity
043	Forss extn	Renewable Energy Systems	Scoping	ND 021 695	
AKA	Hill of Forrs 2, Melvich 1	5km W of Thurso		4 x 1	4 MW
020	Glen Bernisdale	AMEC Wind	Proposal	NG 393 483	
		15km E of Dunvegan, Isle of Skye			
270	Glen Kirk	Eurus Energy	Scoping	NH 864 315	s.36
		2km E of Tomatin		25 x 2	50 MW
154	Glen Moriston	Renewable Development Company	Live application	NH 29 08	
AKA	The Millienium Site, Invergarry, Achlain	Glenmoriston, 10km W of Fort Augustus		21 x 2.3	48.93 MW
208	Glen Ullinish	Skye Renewable Energy	Proposal	NG 333 387	
AKA	Ose	2km S of Edinbane, Isle of Skye		6 x 2	12 MW
109	Gordonbush	Scottish and Southern Energy	Live application	NC 865 150	s.36
AKA	Meallan Liath Beag	12km NW of Brora		40 x 2.5	100 MW
268	Hallin	RLS	Proposal	NG 260 585	
AKA	Waternish	By Waternish, Isle of Skye		7 x 2	14 MW
147	Hill of Fearn	Shell Wind Energy	Anemometery	NH 83 76	
AKA	Nigg	7km SE of Tain			
182	Hill of Lieurary	Scotrenewables	Live application	ND 080 620	
		7km SW of Thurso		3 x 3	9 MW
108	Keoldale	AMEC Wind	Proposal	NC 38 66	s.36
		5km S of Durness		100 x 3	300 MW
110	Kilbraur	Renewable Development Company	Live application	NC 81 08	
AKA	Strath Brora, Braegrudie, Scriberscross	10km NW of Brora		19 x 1.8	34.2 MW
227	Lairg Estate	Bell Ingram	Anemometery	NC 597 028	
		4km SSE of Lairg			
082	Lochluichart	Infinenergy	Scoping	NH 325 685	s.36
		By Garve, 28km NW of Dingwall		75 x 3	225 MW
052	Lorgill	AMEC Wind	Proposal	NG 17 42	
		Nr Glendale, Skye			
224	Marybank	Scottish and Southern Energy	Proposal	NH 43 52	
AKA	Muir of Ord, Fairburn	10km SW of Strathpeffer		25 x 1.8	45 MW
150	Melvich	Scottish and Southern Energy	Scoping	NC 860 640	
AKA	Akron Farm	2km SE of Melvich		6 x 2	12 MW
210	Nigg Hill	Shell Wind Energy	Proposal	NH 81 67	
		Cromarty Firth, 10km E of Nigg		17 x 2.3	39.1 MW
004	Novar	nPower Renewables	Operational	NH 52 75	
084	110141		-		

085 AKA 256 AKA 188 1	Novar extn Meall an Turc Oust Cairnmore Hillock Reay	Developer Approx Location nPower Renewables 12km WNW of Alness 5km ESE of Thurso	Status Live application Proposal	Grid Ref Turbines NH 550 710 18 x 3 ND 060 675	Installed Capacity s.36 54 MW
256 (AKA (AKA (AKA (AKA (AKA (AKA (AKA (AK	Meall an Turc Oust Cairnmore Hillock	nPower Renewables 12km WNW of Alness		NH 550 710 18 x 3	Capacity s.36
256 (AKA (188 188 1044 188 1044 188 1044 188 1044 188 1044 188 1044 188 18	Meall an Turc Oust Cairnmore Hillock	12km WNW of Alness		18 x 3	
256 (AKA (188 I	Oust Cairnmore Hillock		Proposal		54 MW
188 I	Cairnmore Hillock	5km ESE of Thurso	Proposal	ND 060 675	
188 I		5km ESE of Thurso		140 000 075	
044	Reay			15 x 2.5	37.5 MW
			Proposal	NC 952 164	s.36
		15km WSW of Thurso		25 x 3	75 MW
AKA I	Scoolary	British Energy Renewables	Scoping	ND 290 690	s.36
	Hill of Slickly	17km E of Thurso		48 x 1.5	72 MW
239	Shebster	C W Sutherland	Scoping	ND 017 627	s.36
		3km SSE of Dounreay		25 x 2	50 MW
134	Sleat	AMEC Wind	Proposal	NG 607 020	
AKA S	S Skye	S tip of Isle of Skye			
178	Spean Bridge	Alcan Primary Metals Europe	Anemometery	NN 270 780	
		5km SE of Spean Bridge			
096	Spittal Hill	Spittal Hill Wind Farm	Proposal	ND 160 560	s.36
		13 km SSE of Thurso		47 x 3	141 MW
119	Stirkoke		Proposal	ND 309 501	
AKA S	Stemster Hill, Achairn	5km W of Wick		3 x 1.7	4.95 MW
		approximately 31km SE of Borrowston.			
114	Strath Brora (East)	Renewable Development Company	Live application	NC 71 14	
		5km WNW of Golspie		24 x 2	48 MW
111 3	Strathy	RenGen Ltd	Proposal	NC 86 63	s.36
		3km SE of Strathy		35 x 1.5	52.5 MW
116	Strathy North Forest	Scottish and Southern Energy	Scoping	NC 808 573	s.36
		10km E of Bettyhill		25 x 2	50 MW
117	Strathy South Forest	Scottish and Southern Energy	Scoping	NC 782 507	s.36
		13km SE of Bettyhill		50 x 3	150 MW
240	Stroupster	nPower Renewables	Scoping	ND 342 664	s.36
		10km E of Thurso		25 x 2	50 MW
100	Upper Breakish	Scottish and Southern Energy	Proposal	NG 632 249	s.36
		Nr Broadford, Skye		20 x 2.5	50 MW
Total	for Highland	66 Applications, 1 Rejected		1766 Turbines 3	914.9 MW
Inv	erclyde				
080	Gryff Reservoir	Airtricity	On appeal	~NS 32 74	s.36
	Corlick Hill, Greenock, Devol Moor	2km S of Greenock		23 x 2.5	57.5 MW

Grid Ref Turbines NS 231 656 44 x 3	
NS 231 656	Capacity s.36
44 x 3	
	132 MW
rbines	189.5 MW
NT 20 56	s.36
30 x 2	60 MW
rbines	60 MW
NJ 46 58	s.36
29 x 2.2	63.8 MW
NJ482 556	,
1 x 1	1 MW
NJ 084 440	s.36
32 x 2.5	80 MW
NJ 17 50	s.36
28 x 2	56 MW
NJ 17 50	
10 x 2	20 MW
NJ 36 47	
21 x 2	42 MW
NJ 0364	
1 x 0.3	0.3 MW
NJ 0364	
3 x 0.6	1.8 MW
NJ 11 40	s.36
28 x 2	56 MW
NJ 11 40	
10 x 2	20 MW
rbines	340.9 MW
NS 2740	
34 x 0.9	28.9 MW
NS 23 42	
3 r 2 1 2 1 r	NJ 46 58 29 x 2.2 NJ482 556 1 x 1 NJ 084 440 32 x 2.5 NJ 17 50 10 x 2 NJ 36 47 21 x 2 NJ 0364 1 x 0.3 NJ 0364 3 x 0.6 NJ 11 40 28 x 2 NJ 11 40 10 x 2 Thines

	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
161	Hunterston	CRE Energy	On appeal	~NS 21 56	
		By Fairlie		14 x 2.5	35 MW
068	Kaim Hill	Renewable Energy Systems	Rejected or withdrawn	NS 23 53	
		6km NE of West Kilbride		5 x 1	5 MW
168	Kelburn Estate	Renewable Energy Systems	Live application	NS 23 56	
AKA	Fairlie	5km NE of Hunterston Visitors Centre		19 x 2	38 MW
228	Ladyland Moor	Hunterston Hydrogen	Scoping	NS 301 594	s.36
AKA	Mistylaw Muir	10km NE of Largs		56 x 3	168 MW
165	Lissens Moss		Proposal	NS 34 46	
		Between Dalry & Kilwinning			
153	Wardlaw Wood	Community Wind Power	Approved, not started	~NS 26 52	
AKA	Baidland Hill	4km NW of Dalry		6 x 2	12 MW
Tota	al for North Ayrshire	8 Applications, 2 Rejected	10	9 Turbines	281 MW
Nia	orth Lanarkshire				
		Foot of Cootland Water	A	NC 700740	
179	Blacktongue Farm	East of Scotland Water 3km S of Cumbernauld	Anemometery	NS 782710 1 x 2	2 MW
404	B		Down and		
184 aka	Bracco Caldercruix	Airtricity Between Caldercruix and Salsburgh, by	Proposal	NS 826 650 30 x 2.5	s.36 75 MW
					75 10100
247	Ferrieshaw	Airtricity Ltd 1km NE of Wishaw	Proposal	~NS 81 60 11 x 2	22 MW
		TRITINE OF WISHAW		11 X Z	22 10100
T-4-	al fan Nawih I ananizabina	2 Applications Name privated		10 T	00 8414/
Tota	al for North Lanarkshire	3 Applications, None rejected	4	12 Turbines	99 MW
		3 Applications, None rejected	2	2 Turbines	99 MW
	al for North Lanarkshire	3 Applications, None rejected	2	12 Turbines	99 MW
		Aberdeen Renewable Energy Group	Proposal	NJ 975 084	s.36
Of	ffshore				
Of	ffshore	Aberdeen Renewable Energy Group		NJ 975 084	s.36
Of	ffshore Aberdeen Harbour	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog	Proposal	NJ 975 084 20 x 2.5	s.36 50 MW
Of	ffshore Aberdeen Harbour	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog Talisman Energy/SSE	Proposal	NJ 975 084 20 x 2.5 ND 08 14	s.36 50 MW s.36
Of 199 055	Aberdeen Harbour Beatrice Field	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog Talisman Energy/SSE Due E of Helmsdale	Proposal Proposal	NJ 975 084 20 x 2.5 ND 08 14 400 x 2.5	s.36 50 MW s.36 1000 MW
0f 199 055 098 AKA	Aberdeen Harbour Beatrice Field Robin Rigg	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog Talisman Energy/SSE Due E of Helmsdale E.ON UK Renewables	Proposal Proposal Approved, not started	NJ 975 084 20 x 2.5 ND 08 14 400 x 2.5 NX 95 47	s.36 50 MW s.36 1000 MW
0f 199 055 098 AKA	Aberdeen Harbour Beatrice Field Robin Rigg RockCliffe Offshore	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog Talisman Energy/SSE Due E of Helmsdale E.ON UK Renewables Solway Firth, S of Dalbeattie	Proposal Proposal Approved, not started	NJ 975 084 20 x 2.5 ND 08 14 400 x 2.5 NX 95 47 60 x 3	s.36 50 MW s.36 1000 MW s.36 180 MW
Off 199 055 098 AKA	Aberdeen Harbour Beatrice Field Robin Rigg RockCliffe Offshore al for Offshore	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog Talisman Energy/SSE Due E of Helmsdale E.ON UK Renewables Solway Firth, S of Dalbeattie	Proposal Proposal Approved, not started	NJ 975 084 20 x 2.5 ND 08 14 400 x 2.5 NX 95 47 60 x 3	s.36 50 MW s.36 1000 MW s.36 180 MW
Off 199 055 098 AKA	Aberdeen Harbour Beatrice Field Robin Rigg RockCliffe Offshore al for Offshore	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog Talisman Energy/SSE Due E of Helmsdale E.ON UK Renewables Solway Firth, S of Dalbeattie	Proposal Proposal Approved, not started	NJ 975 084 20 x 2.5 ND 08 14 400 x 2.5 NX 95 47 60 x 3	s.36 50 MW s.36 1000 MW s.36 180 MW
Off 199 055 098 AKA Tota	Aberdeen Harbour Beatrice Field Robin Rigg RockCliffe Offshore al for Offshore	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog Talisman Energy/SSE Due E of Helmsdale E.ON UK Renewables Solway Firth, S of Dalbeattie 3 Applications, None rejected	Proposal Proposal Approved, not started	NJ 975 084 20 x 2.5 ND 08 14 400 x 2.5 NX 95 47 60 x 3	s.36 50 MW s.36 1000 MW s.36 180 MW
Off 199 055 098 AKA Tota	Aberdeen Harbour Beatrice Field Robin Rigg RockCliffe Offshore al for Offshore	Aberdeen Renewable Energy Group Aberdeen Harbour to Black Dog Talisman Energy/SSE Due E of Helmsdale E.ON UK Renewables Solway Firth, S of Dalbeattie 3 Applications, None rejected Farm Energy	Proposal Proposal Approved, not started	NJ 975 084 20 x 2.5 ND 08 14 400 x 2.5 NX 95 47 60 x 3 80 Turbines	s.36 50 MW s.36 1000 MW s.36 180 MW

					i age 24
	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
142	Burgar Hill	nPower Renewables	Operational	HY 36 28	
		Gurness, Orkney mainland		1 x 2.8	2.75 MW
192	Burgar Hill extn	nPower Renewables	Approved, not started	HY 36 28	
		Gurness, Orkney mainland		2 x 2.5	5 MW
167	Burray		Approved, not started	ND 487 985	
		Nr Northfield		1 x 1	1 MW
191	Isle of Flodda	Scot Reneweables	Approved, not started	-	
		Location unknown		1 x 2	2 MW
122	Orphir	nPower Renewables	Proposal	HY 34 06	
		11 km SW of Kirkwall.		4 x 1	4 MW
121	Powdykes		Proposal	HY 42 44	
	-	Fitty Hill, Westray Island		1 x 0.3	0.32 MW
243	Rothiesholm	I & H Brown	Proposal	HY 620 242	
		Rothiesholm Head, Stronsay	·	8 x 0.9	7.2 MW
124	Spur Ness	Scottish and Southern Energy	Under construction	HY 6033	
12-7		Spur Ness, Sanday		4 x 2.5	10 MW
123	Thorfin	NEG-Micon UK	Operational	HY 34 25	
		Elvie, 14km NW of Kirkwall	•	1 x 1.5	1.5 MW
235	Ward Hill	Tech Serv, Orkney	Live application	~HY 254 101	
		Stromness		1 x 1	1 MW
234	West Hill	Scotrenewables	Live application	~ND 351 939	
		Flotta		1 x 1	1 MW
Tota	al for Orkney	13 Applications, None rejected		34 Turbines	43.87 MW
Pe	erth & Kinross				
202	Abercairny	Catamount Energy	Live application	NN 890 270	s.36
AKA	Broadmeadows	2km E of Crieff		22 x 3	66 MW
160	Balado	Glendevon Energy Co	Rejected after Public Inquiry	NO 095 024	
		Balado Airfield, 2km W of Kinross		3 x 2	6 MW
203	Calliacher	I & H Brown	Live application	NN 860 425	s.36
	Calliacher Amulree, Meall Odhar	I & H Brown 6km S of Aberfeldy	Live application	NN 860 425 46 x 2	
AKA	Amulree, Meall Odhar		Live application Live application		
AKA	Amulree, Meall Odhar	6km S of Aberfeldy		46 x 2	92 MW
152	Amulree, Meall Odhar	6km S of Aberfeldy Scottish and Southern Energy		46 x 2 ~NO 17 54	92 MW
152	Amulree, Meall Odhar Drumderg	6km S of Aberfeldy Scottish and Southern Energy	Live application	46 x 2 ~NO 17 54 16 x 2	92 MW
	Amulree, Meall Odhar Drumderg	6km S of Aberfeldy Scottish and Southern Energy Between Alyth and Bridge of Cally.	Live application	46 x 2 ~NO 17 54 16 x 2	92 MW

	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
077	Griffin Forest	Green Power	Live application	NN 936 446	s.36
AKA	Kinnaird Estate	10 Km NW of Dunkeld		86 x 2.5	215 MW
173	Knowehead	British Energy Renewables	Live application	NO 04 11	s.36
		5km SE of Dunning		24 x 2.5	60 MW
225	Little Law	Green Power	Live application	NN 99 08	
		8km SE of Auchterarder		14 x 2.5	35 MW
193	Lochelbank	nPower Renewables	Live application	NO 120 125	s.36
AKA	Path of Condie	2km N of Glenfarg		17 x 3	51 MW
231	Logiealmond	AMEC Wind	Scoping	NN 986 344	s.36
AKA	Little Glenshee	4km NW of Methven		32 x 2	64 MW
230	Mellock Hill	West Coast Energy	Live application	NO 025 065	s.36
		4km NNE of Yetts o Muckart		30 x 3	90 MW
078	Pole Hill	Pole Hill Wind	Proposal	NO 19 26	
		7km NE of Perth	·	2 x 0.5	1 MW
074	Snowgoat Glen	nPower Renewables	Live application	NO 005 105	
	3	4km SW of Dunning		16 x 1	16 MW
271	Tillyrie Hill	John Lawrie (Tillyrie)	Anemometery	NO 103 080	
	,	3km SW of Glenfarg			
N 7 9	Trinafour	-	Proposal	~NN 72 64	
		2km SE of Loch Errochty	i iopoodi	1414 72 04	
		2km SE of Loch Errochty			758 MW
	ll for Perth & Kinross	2km SE of Loch Errochty 16 Applications, 1 Rejected		23 Turbines	758 MW
Tota	ll for Perth & Kinross	· · · · · · · · · · · · · · · · · · ·			758 MW
Tota		16 Applications, 1 Rejected			758 MW
Tota	ll for Perth & Kinross	16 Applications, 1 Rejected Renewable Energy Systems		NT 73 56	
Tota	ol for Perth & Kinross	16 Applications, 1 Rejected	32	3 Turbines	758 MW 28.6 MW
Sc 031	ol for Perth & Kinross	16 Applications, 1 Rejected Renewable Energy Systems	32	NT 73 56	
Sc 031	ottish Borders Black Hill	16 Applications, 1 Rejected Renewable Energy Systems 6km NW of Duns	Approved, not started	NT 73 56 22 x 1.3	
Sc 031 071 AKA	ottish Borders Black Hill Bowbeat Hill	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables	Approved, not started	NT 73 56 22 x 1.3 NT 29 46	28.6 MW
Sc 031 071 AKA 094	eottish Borders Black Hill Bowbeat Hill Emly Bank, Roughside Hill	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables 8km NNE of Peebles	Approved, not started Operational	NT 73 56 22 x 1.3 NT 29 46 24 x 1.3	28.6 MW
Sc 031 071 AKA 094 AKA	eottish Borders Black Hill Bowbeat Hill Emly Bank, Roughside Hill Broadmeadows	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables 8km NNE of Peebles Green Power	Approved, not started Operational	NT 73 56 22 x 1.3 NT 29 46 24 x 1.3 NT 384 327	28.6 MW 31.2 MW
Sc 031 071 AKA 094 AKA	Bowbeat Hill Emly Bank, Roughside Hill Broadmeadows Broomy Law	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables 8km NNE of Peebles Green Power 5km NW of Selkirk.	Approved, not started Operational Proposal	NT 73 56 22 x 1.3 NT 29 46 24 x 1.3 NT 384 327 25 x 1.5	28.6 MW 31.2 MW
Sc 031 071 AKA 094 AKA	Bowbeat Hill Emly Bank, Roughside Hill Broadmeadows Broomy Law	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables 8km NNE of Peebles Green Power 5km NW of Selkirk. Renewable Development Company	Approved, not started Operational Proposal	NT 73 56 22 x 1.3 NT 29 46 24 x 1.3 NT 384 327 25 x 1.5	28.6 MW 31.2 MW
Sc 031 071 AKA 094 AKA	cottish Borders Black Hill Bowbeat Hill Emly Bank, Roughside Hill Broadmeadows Broomy Law Carcant	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables 8km NNE of Peebles Green Power 5km NW of Selkirk. Renewable Development Company 12km W of Oxton	Approved, not started Operational Proposal Scoping	NT 73 56 22 x 1.3 NT 29 46 24 x 1.3 NT 384 327 25 x 1.5 NT 52 37	28.6 MW 31.2 MW 37.5 MW
Sc 031 071 AKA 094 AKA	cottish Borders Black Hill Bowbeat Hill Emly Bank, Roughside Hill Broadmeadows Broomy Law Carcant	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables 8km NNE of Peebles Green Power 5km NW of Selkirk. Renewable Development Company 12km W of Oxton Renewable Development Corporation	Approved, not started Operational Proposal Scoping	NT 73 56 22 x 1.3 NT 29 46 24 x 1.3 NT 384 327 25 x 1.5 NT 52 37	28.6 MW 31.2 MW 37.5 MW
Sc 031 071 AKA 094 AKA	Black Hill Bowbeat Hill Emly Bank, Roughside Hill Broadmeadows Broomy Law Carcant Corbie Shank	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables 8km NNE of Peebles Green Power 5km NW of Selkirk. Renewable Development Company 12km W of Oxton Renewable Development Corporation 12km N of Langholm	Approved, not started Operational Proposal Scoping Scoping	NT 73 56 22 x 1.3 NT 29 46 24 x 1.3 NT 384 327 25 x 1.5 NT 52 37 NY 357 984 30 x 2	28.6 MW 31.2 MW 37.5 MW
Sc 031 071 AKA 094 AKA 037	Black Hill Bowbeat Hill Emly Bank, Roughside Hill Broadmeadows Broomy Law Carcant Corbie Shank	Renewable Energy Systems 6km NW of Duns E.ON UK Renewables 8km NNE of Peebles Green Power 5km NW of Selkirk. Renewable Development Company 12km W of Oxton Renewable Development Corporation 12km N of Langholm AMEC Wind	Approved, not started Operational Proposal Scoping Scoping	NT 73 56 22 x 1.3 NT 29 46 24 x 1.3 NT 384 327 25 x 1.5 NT 52 37 NY 357 984 30 x 2	28.6 MW 31.2 MW 37.5 MW

	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
032	Crystal Rig extn	Olsen Renewables	Under construction	NT 660 680	s.36
		15km S of Dunbar		56 x 3	168 MW
033	Dun Law	CRE Energy	Operational	NT 48 57	
		7km NW of Lauder		26 x 0.7	17.16 MW
164	Dun Law extn	CRE Energy	Anemometery	NT 470 575	
		7km NW of Lauder			
222	Fallago Ridge	North British Wind Power	Scoping	NT 580 599	s.36
		10km SSE of Haddington		57 x 2	114 MW
035	Lamberton Moor	Renewables Development Co	Proposal	NT 96 57	
		1km N of Berwick		22 x 1	22 MW
212	Long Park	Wind Prospect	Live application	NT 473 404	
AKA	Hawkburn	2km NNW of Galasheils		18 x 2.5	45 MW
223	Longpark	Wind Prospect	Live application	NT 481 417	
		5km NNW of Galasheils		15 x 3	45 MW
113	Minch Moor	AMEC Wind	Live application	NT 38 36	
AKA	Walkerburn	2km S of Walkerburn		17 x 2	34 MW
036	Monashee Farm	B Baker - West Coast Windfarms	Rejected or withdrawn	NT 80 61	
		7km N of Duns		11 x 2	22 MW
163	Sell Moor	Renewable Development Company	Live application	NT 48 44	
AKA	Lauder Common	11km N of Galasheils		17 x 2.5	42.5 MW
054	Toddleburn	Toddleburn WF Co	Live application	NT 45 63	
		6km NNW of Lauder		12 x 2	24 MW
Tota	al for Scottish Borders	18 Applications, 1 Rejected	36	7 Turbines	720.96 MW
Q k	netland]			
125		Shetland Aerogenerators	Operational	HU 42 42	
125	Dulla Dale	5km SW of Lerwick	Operational	3 x 0.7	2.1 MW
106	Burra Dale extn		Operational		
100	Burra Dale extir	Shetland Aerogenerators 5km SW of Lerwick	Operational	2 x 0.9	1.7 MW
106	Bueta Fatata		Drangal	2 X 0.0	
190	Busta Estate	Viking Energy Nestling	Proposal	150 x 2	s.36 300 MW
440	Patricle		Ou	100 X Z	
143	Fair Isle	Fair Isle Electricity Co Fair Isle	Operational	1 x 0.7	0.66 MW
100					0.00 10100
126	Hamari Field	Atlantic Energy	Proposal	HU 41 26	1 NA\A/
		10km S of Lerwick, Shetland		2 x 0.5	1 MW
233	Muckla Moor	Scottish and Southern Energy	Scoping	HU 437 675	
		4km NW of Herra		83 x 3	249 MW

	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
127	Susseter Hill	James Howden	Operational	HU 36 86	
		North Roe		1 x 1	1 MW
128	Tresta	Atlantic Energy	Proposal	HU 35 52	
		12km NW of Lerwick			
190	Yell	Scottish and Southern Energy	Proposal	HU 48 89	s.36
		2km SW of Mid Yell		200 x 1.3	250 MW
Tota	l for Shetland	9 Applications, None rejected		442 Turbines	805.46 MW
So	outh Ayrshire				
139	Hadyard Hill	Scottish and Southern Energy	Under construction	NX 260 970	s.36
AKA	Barbae, Benan Hill	9km E of Girvan		52 x 2.5	130 MW
244	Mark's Hill	Force 9 Energy / Entec	Proposal	NX 250 860)
AKA	Barrhill	1km E of Pinwherry			
Tota	I for South Ayrshire	2 Applications, None rejected		52 Turbines	130 MW
So	uth Lanarkshire				
069	Black Law	CRE Energy	Under construction	NS 94 53	s.36
		4km NE of Carluke		67 x 2.1	140.7 MW
221	Calla Farm	Hainsford Energy	Anemometery	~NS 99 50	
221	Calla Farm	Hainsford Energy 1km NW of Carnwath	Anemometery	~NS 99 50	
	Calla Farm Camps Reservoir	- -	Anemometery	~NS 99 50	
		1km NW of Carnwath			
214		1km NW of Carnwath E.ON UK Renewables			
214	Camps Reservoir	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford	Anemometery	NS 98 22	
214 183 AKA	Camps Reservoir Clyde Valley Windfarm	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity	Anemometery	NS 98 22 NT 015 175	s.36 510 MW
214 183 AKA	Camps Reservoir Clyde Valley Windfarm Crawford	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford	Anemometery Live application	NS 98 22 NT 015 175 170 x 3	s.36 510 MW
214 183 AKA 215	Camps Reservoir Clyde Valley Windfarm Crawford	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables	Anemometery Live application	NS 98 22 NT 015 175 170 x 3	5 s.36 510 MW
214 183 AKA 215	Camps Reservoir Clyde Valley Windfarm Crawford Daer Reservoir	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables 8km S of Elvanfoot	Anemometery Live application Anemometery	NS 98 22 NT 015 175 170 x 3 NS 964 081	5 s.36 510 MW
214 183 AKA 215	Camps Reservoir Clyde Valley Windfarm Crawford Daer Reservoir	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables 8km S of Elvanfoot Abenergy	Anemometery Live application Anemometery	NS 98 22 NT 015 175 170 x 3 NS 964 081	5 s.36 510 MW
214 183 AKA 215	Camps Reservoir Clyde Valley Windfarm Crawford Daer Reservoir Dunduff Quarry	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables 8km S of Elvanfoot Abenergy 2km SW of Kirkmuirhill	Anemometery Live application Anemometery Anemometery	NS 98 22 NT 015 175 170 x 3 NS 964 081 NS 777 412	5 s.36 510 MW
214 183 AKA 215 213	Camps Reservoir Clyde Valley Windfarm Crawford Daer Reservoir Dunduff Quarry	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables 8km S of Elvanfoot Abenergy 2km SW of Kirkmuirhill E.ON UK Renewables	Anemometery Live application Anemometery Anemometery	NS 98 22 NT 015 175 170 x 3 NS 964 081 NS 777 412	5 s.36 510 MW
214 183 AKA 215 213	Camps Reservoir Clyde Valley Windfarm Crawford Daer Reservoir Dunduff Quarry Dungavel Hill	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables 8km S of Elvanfoot Abenergy 2km SW of Kirkmuirhill E.ON UK Renewables 10km SW of Strathaven	Anemometery Live application Anemometery Anemometery Scoping Operational	NS 98 22 NT 015 175 170 x 3 NS 964 081 NS 777 412 NS 675 371 18 x 2.8	5 s.36 510 MW
214 183 AKA 215 213 248	Camps Reservoir Clyde Valley Windfarm Crawford Daer Reservoir Dunduff Quarry Dungavel Hill	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables 8km S of Elvanfoot Abenergy 2km SW of Kirkmuirhill E.ON UK Renewables 10km SW of Strathaven Merchant Wind Park	Anemometery Live application Anemometery Anemometery Scoping Operational	NS 98 22 NT 015 175 170 x 3 NS 964 081 NS 777 412 NS 675 371 18 x 2.8 NS 65 51	5 s.36 510 MW
214 183 AKA 215 213 248	Camps Reservoir Clyde Valley Windfarm Crawford Daer Reservoir Dunduff Quarry Dungavel Hill East Kilbride	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables 8km S of Elvanfoot Abenergy 2km SW of Kirkmuirhill E.ON UK Renewables 10km SW of Strathaven Merchant Wind Park Langlands Industrial Estate, East Kilbride	Anemometery Live application Anemometery Anemometery Scoping Operational	NS 98 22 NT 015 175 170 x 3 NS 964 081 NS 777 412 NS 675 371 18 x 2.8 NS 65 51 1 x 0.6	5 s.36 510 MW
214 183 AKA 215 213 248	Camps Reservoir Clyde Valley Windfarm Crawford Daer Reservoir Dunduff Quarry Dungavel Hill East Kilbride	1km NW of Carnwath E.ON UK Renewables 2km NE of Crawford Airtricity Between Elvanfoot and Crawford E.ON UK Renewables 8km S of Elvanfoot Abenergy 2km SW of Kirkmuirhill E.ON UK Renewables 10km SW of Strathaven Merchant Wind Park Langlands Industrial Estate, East Kilbride CRE Energy	Anemometery Live application Anemometery Anemometery Scoping Operational	NS 98 22 NT 015 175 170 x 3 NS 964 081 NS 777 412 NS 675 371 18 x 2.8 NS 65 51 1 x 0.6	5 s.36 510 MW

	Name	Developer	Status	Grid Ref	Installed
		Approx Location		Turbines	Capacity
138	Glespin	Herr von Pezold	Rejected after Public Inquiry	NS 78 29	
		1km S of Hagshaw Hill		14 x 2	28 MW
151	Greenaton Farm	Orkney Renewables	Anemometery	NS 98 48	
		2km NE of Carnwath			
093	Hagshaw Hill	CRE Energy	Operational	NS 79 30	
		4km W of Douglas		26 x 0.6	15.6 MW
186	Harburn Estate	Scottish and Southern Energy	Anemometery	NT 04 61	
		5km SE of Bathgate			
091	Harrow's Law	Scottish and Southern Energy	Scoping	NT 04 53	s.36
		14km N of Biggar		75 x 2	150 MW
171	Headsmuir Farm	Community Wind Power	Anemometery	NS 87 50	
		1km S of Carluke			
144	Spireslack	Scottish Coal	Scoping	NS 73 29	s.36
		5km NE of Muirkirk		30 x 2	60 MW
053	Stallashaw Moss	Muirhall WindFarm	Anemometery		
		2km N or Carnwath		6 x 3	18 MW
048	Whitelee Forest	CRE Energy	Live application	NS 574 457	s.36
		Eaglesham Moor, 16km S of Glasgow		140 x 2.5	350 MW
Tota	al for South Lanarkshire	19 Applications, 1 Rejected	543	3 Turbines 1	1319.4 MW
St	irlina				
	Ardeonaig	Abernethy Trust	Approved not started	NN 663 346	
	Ardeonaig	Abernethy Trust 10km NE of St Fillans	Approved, not started	NN 663 346 2 x 0.6	1.2 MW
262	Ardeonaig	10km NE of St Fillans		2 x 0.6	1.2 MW
262	-	10km NE of St Fillans nPower Renewables	Approved, not started Proposal	2 x 0.6 NS 578 901	
262 260	Ardeonaig Ballindalloch Muir	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie	Proposal	2 x 0.6 NS 578 901 10 x 2	20 MW
262	Ardeonaig	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity		2 x 0.6 NS 578 901 10 x 2 NN 69 05	20 MW
262 260 070	Ardeonaig Ballindalloch Muir Braes of Doune	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune	Proposal Approved, not started	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2	20 MW
262 260 070	Ardeonaig Ballindalloch Muir Braes of Doune	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy	Proposal	2 x 0.6 NS 578 901 10 x 2 NN 69 05	20 MW
262 260 070 253	Ardeonaig Ballindalloch Muir Braes of Doune Buchlyvie Muir	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy 16km NNE of Milngavie	Proposal Approved, not started Proposal	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2 NS 576 907	20 MW
262 260 070 253	Ardeonaig Ballindalloch Muir Braes of Doune Buchlyvie Muir	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy 16km NNE of Milngavie British Energy Renewables	Proposal Approved, not started	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2	20 MW
262 260 070 253	Ardeonaig Ballindalloch Muir Braes of Doune Buchlyvie Muir Cairnoch Hill	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy 16km NNE of Milngavie British Energy Renewables 12km SW of Stirling	Proposal Approved, not started Proposal Proposal	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2 NS 576 907 NS 695 855	20 MW
262 260 070 253	Ardeonaig Ballindalloch Muir Braes of Doune Buchlyvie Muir	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy 16km NNE of Milngavie British Energy Renewables 12km SW of Stirling AB Energy	Proposal Approved, not started Proposal	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2 NS 576 907 NS 695 855 NS 848 892	20 MW s.36 98 MW
262 260 070 253 258	Ardeonaig Ballindalloch Muir Braes of Doune Buchlyvie Muir Cairnoch Hill Cowiehall	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy 16km NNE of Milngavie British Energy Renewables 12km SW of Stirling AB Energy 1km ESE of Bannockburn	Proposal Approved, not started Proposal Proposal	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2 NS 576 907 NS 695 855 NS 848 892 10 x 2	20 MW
262 260 070 253 258	Ardeonaig Ballindalloch Muir Braes of Doune Buchlyvie Muir Cairnoch Hill	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy 16km NNE of Milngavie British Energy Renewables 12km SW of Stirling AB Energy 1km ESE of Bannockburn North British Windpower	Proposal Approved, not started Proposal Proposal	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2 NS 576 907 NS 695 855 NS 848 892 10 x 2 NS 565 810	20 MW s.36 98 MW 20 MW
262 260 070 253 258	Ardeonaig Ballindalloch Muir Braes of Doune Buchlyvie Muir Cairnoch Hill Cowiehall	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy 16km NNE of Milngavie British Energy Renewables 12km SW of Stirling AB Energy 1km ESE of Bannockburn	Proposal Approved, not started Proposal Proposal	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2 NS 576 907 NS 695 855 NS 848 892 10 x 2	20 MW s.36 98 MW
262 260 070 253 258 018	Ardeonaig Ballindalloch Muir Braes of Doune Buchlyvie Muir Cairnoch Hill Cowiehall	10km NE of St Fillans nPower Renewables 16km NNE of Milngavie Airtricity 5km NW of Doune West Coast Energy 16km NNE of Milngavie British Energy Renewables 12km SW of Stirling AB Energy 1km ESE of Bannockburn North British Windpower	Proposal Approved, not started Proposal Proposal	2 x 0.6 NS 578 901 10 x 2 NN 69 05 49 x 2 NS 576 907 NS 695 855 NS 848 892 10 x 2 NS 565 810	20 MW s.36 98 MW 20 MW

Tota	al for Western Isles	8 Applications, None rejected		502 Turbines	1366.6 MW
194	South Uist Estate	Uist Reneweable Energies Askernish, South Uist	Anemometery	~NF 92 73	
	Beinn Mholach	9km NW of Stornoway, Isle of Lewis	A	6 x 2	12 MW
131	Pentland Road	Farm Energy	Approved, not started		40 8414
		S end of Isle of Lewis, E of Loch Shiphoi		125 x 2	250 MW
140	Pairc Estate	Scottish and Southern Energy	Anemometery	405 0	s.36
		Isle of Benbecula		1 x 0.6	0.6 MW
145	Lionacleit	Element Engineering	Operational	NF 79 49	
		By Linsiadar, Isle of Lewis			
166	Linsiadar	Virtual Utility	Proposal	NB 215 315	
AKA	Barvas Moor	Entire NW of Isle of Lewis		234 x 3	702 MW
130	Lewis Wind	Lewis Windpower	Live application	~NB 36 49	s.36
AKA	Muaitheabhal	S end of Isle of Lewis, W of Loch Shipho	pirt	133 x 3	399 MW
172	Eisgen Estate	Beinn Mhor Power	Live application	NB 18 08	s.36
		4km S of Stornoway, Isle of Lewis		3 x 1	3 MW
	Arnish Moor Wind Cluster	Farm Energy	Approved, not started	d ~NB 42 32	
10/	estern Isles				
Tota	al for West Dunbartonshire	1 Application None rejected		24 Turbines	60 MW
AKA	Fynloch Hill	Between Loch Humphrey & Duncolm		24 x 2.5	60 MW
047	Kilpatrick Hills	Airtricity	Live application	NS 46 77	s.36
W	est Dunbartonshire				
Tota	al for Stirling	13 Applications, 2 Rejected		175 Turbines	347.2 MW
		5km SW of Stirling		5 x 2	10 MW
237	Touch Reservoirs	R.J. McLeod	Proposal	NS 724 913	
		15km NNE of Dunblane		11 x 2	22 MW
242	Slymaback	Wind Prospect	Proposal	NN 745 100	
155	Limmer Hill	West Coast Energy	Proposal	60 x 2	s.36 120 MW
		3km SW of Kippen			
226	Kippen Muir	Wind Prospect	Proposal	NS 619 922	
AKA	Earslburn	10km WSW of Stirling		14 x 3	42 MW
232	Hart Hill (East)	West Coast Energy	Rejected or withdraw	n NS 697 884	
		Approx Location		Turbines	Installed Capacity
	Name	Developer	Status	Grid Ref	Installed