

## Samples of Actual Wind Turbine Performance

Location	Units	kW	Rotor Diameter m	Swept Area m <sup>2</sup>	AEO GWh	kWh/kW	Capacity* Factor	Annual Specific Yield kWh/m <sup>2</sup>	Hub Height m	
Among Windiest in the World										
Wellington	NZ	1	225	27	573	0.90	4,000	46%	1,572	10 year av
Samsø Offshore Wind Plant	DK	10	2300	84.6	5,621	81	3,530	40%	1,445	WindStats,
Hanstholme	DK	3	400	36	1,018	4.29	3,573	41%	1,404	42 1997
Ontario Canada										
Kincardine	ON	1	600	43	1,452	1.15	1,917	22%	792	50 4 year ave
Toronto WindShare	ON	1	750	52	2,124	1.15	1,533	18%	542	65 2003, first
Toronto WindShare	ON	1	750	52	2,124	0.943	1,257	14%	444	2004 calen
Toronto WindShare	ON	1	750	52	2,124	0.927	1,236	14%	436	2005 calen
United States										
#4	MN	3	800	52	2,124	7.78	3,240	37%	1,221	70
#3	MN	3	660	47	1,735	5.64	2,851	33%	1,084	65
#1	MN	3	660	47	1,735	5.45	2,753	31%	1,047	65 Locations r
#2	MN	3	660	47	1,735	5.27	2,663	30%	1,013	65
Deckers	WI	2	660	47	1,735	3.10	2,348	27%	893	65 99-2000
Hull	MA	1	660	47	1,735	1.55	2,348	27%	893	2 years op
California average		11,977						24%	867	2004
Sibley	IA	2	600	44	1,521	2.40	2,000	23%	789	1998
Kewaunee Co.	WI	33	660	47	1,735	44.00	2,020	23%	769	65 99-2000
MDG&E	WI	17	660	47	1,735	22.50	2,005	23%	763	65 99-2000
WPS	WI	14	660	47	1,735	18.50	2,002	23%	762	65 99-2000
Bowling Green	OH	2	1800	80	5,027	7.24	2,011	23%	720	78 2003
Traverse City	MI	1	600	44	1,521	0.80	1,333	15%	526	50 avg./proj 1
Freyssenet E44	F	1	600	44	1,521	1.92	3,200	37%	1,263	2004
Enercon E70 sample	D	12	1800	70	3,848	41.40	1,917	22%	896	65-98 2003; Winc

Sources: multiple, including WindStats.

\*Note: Capacity factors have limited utility in wind energy. Use yields as a metric for productivity.

Note: Wellington, NZ is one of the windiest sites in the world and Hanstholme is not far behind.