

**Westmill Wind Farm
Performance Review**

October 2011

01/10/2011-31/10/2011						
Period	Days	Energy [kWh]	Turbine Manuf. Avail. Subtotal [%]	Total [%]	Energy Since Startup [kWh]	
T01	31	262,734	100	98.2	8,007,550	
T02	31	255,906	98.9	97.1	7,761,713	
T03	31	250,615	98.4	97.9	7,618,695	
T04	31	251,213	100	98	7,409,520	
T05	31	250,014	98.9	98.2	7,719,248	
Totals						
Average	31	254,096	99.2	97.9	7,703,345	
Sum		1,270,482			38,516,726	

	Oct	Since Start Up
Production at SubStation		
Active Energy Import	4,622	243,712 kWh
Active Energy Export	1,229,432	
Budget	1,125,277	
Actual Export	1,231,920	
Variance to budget	109%	
Line Loss	3%	

Reactive Energy		
Reactive Energy Import	15,159	1,451,035 kVArh
Reactive Energy Export	14,424	1,181,239 kVArh

Reliability		
Manufacturer Availability	99.2%	97.9 %
Capacity Factor	25.70%	18 %

Outage Time		
Total	64.2	4755.90 hours

Estimated figures until meter reading confirmed

Notes/Errors	
5 hydraulic oil temperature errors between T2, T3 & T5 with 16.6 hours downtime.	
No errors on T1 & T4.	

Daily output October 2011

Grid

Export Active Energy	Total	Period	Total	T01	T02	T03	T04	T05
Period	[kWh]		[kWh]	[kWh]	[kWh]	[kWh]	[kWh]	[kWh]
31/10/2011	34,497	31/10/2011	35,793	7,724	7,532	7,371	6,816	6,350
30/10/2011	45,475	30/10/2011	46,908	9,646	9,780	9,317	9,041	9,124
29/10/2011	57,264	29/10/2011	58,909	12,187	11,878	11,907	11,790	11,147
28/10/2011	336	28/10/2011	508	121	103	104	89	91
27/10/2011	3,074	27/10/2011	3,792	752	653	600	551	1,236
26/10/2011	24,448	26/10/2011	25,705	5,287	5,310	5,293	5,076	4,739
25/10/2011	8,448	25/10/2011	9,528	2,100	2,000	1,905	1,746	1,777
24/10/2011	83,110	24/10/2011	85,056	18,210	17,690	16,691	16,302	16,163
23/10/2011	75,149	23/10/2011	76,982	16,886	16,207	15,146	14,455	14,288
22/10/2011	31,144	22/10/2011	32,539	7,144	7,011	6,720	5,933	5,731
21/10/2011	23,637	21/10/2011	24,947	5,019	5,175	5,078	4,915	4,760
20/10/2011	4,021	20/10/2011	4,500	945	903	895	891	866
19/10/2011	8,314	19/10/2011	9,271	3,230	1,564	1,439	1,500	1,538
18/10/2011	55,761	18/10/2011	57,330	12,045	11,140	11,260	11,347	11,538
17/10/2011	83,034	17/10/2011	85,003	16,738	17,231	17,261	16,965	16,808
16/10/2011	9,233	16/10/2011	10,351	1,784	2,206	2,103	2,132	2,126
15/10/2011	2,004	15/10/2011	2,583	453	535	512	448	635
14/10/2011	3,928	14/10/2011	4,518	906	860	747	632	1,373
13/10/2011	867	13/10/2011	1,141	144	160	123	134	580
12/10/2011	23,863	12/10/2011	24,910	4,836	4,857	4,892	5,099	5,226
11/10/2011	87,141	11/10/2011	89,180	17,383	17,803	17,991	17,811	18,192
10/10/2011	144,768	10/10/2011	147,631	29,376	29,510	29,446	29,508	29,791
09/10/2011	98,341	09/10/2011	100,492	19,712	19,935	19,968	20,197	20,680
08/10/2011	19,425	08/10/2011	20,615	5,332	3,874	3,707	3,792	3,910
07/10/2011	23,651	07/10/2011	24,930	6,634	4,414	4,478	4,634	4,770
06/10/2011	83,840	06/10/2011	85,788	18,119	16,366	16,667	17,164	17,472
05/10/2011	84,354	05/10/2011	86,298	17,116	18,323	16,044	18,800	16,015
04/10/2011	39,854	04/10/2011	41,246	7,627	8,091	8,322	8,479	8,727
03/10/2011	48,849	03/10/2011	50,415	9,970	10,245	10,126	10,021	10,053
02/10/2011	15,699	02/10/2011	16,720	3,444	3,523	3,185	3,326	3,242
40817	5,903	40817	6,893	1,864	1,027	1,317	1,619	1,066
Totals		Totals						
Average	39,659	Average	40,983	8,475	8,255	8,084	8,104	8,065
Sum	1,229,432	Sum	1,270,482	262,734	255,906	250,615	251,213	250,014
			100.00%	20.68%	20.14%	19.73%	19.77%	19.68%

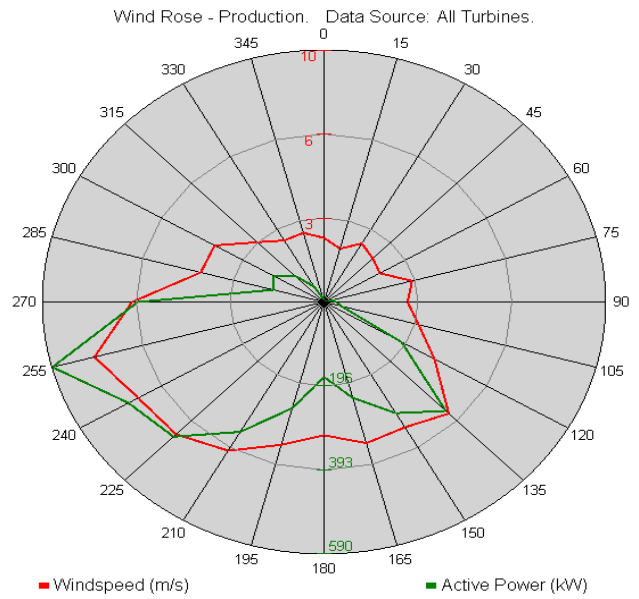
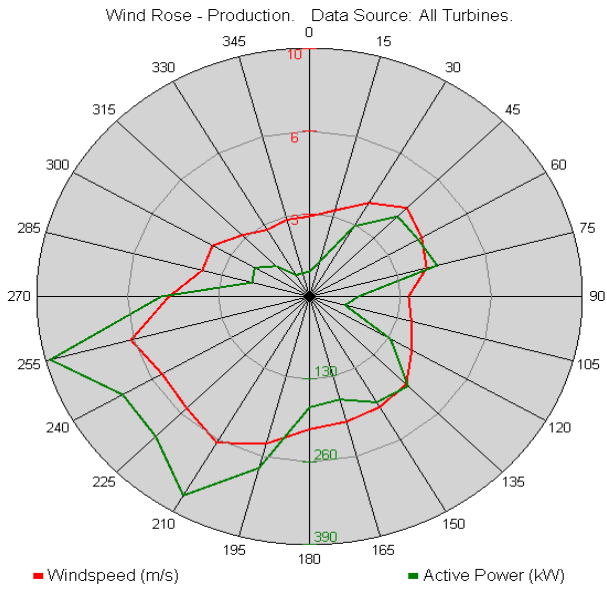
WESTMILL YEAR TO DATE PRODUCTION

2010/2011						
PRODUCTION PER TURBINE						
	T1	T2	T3	T4	T5	Total
Nov-10	218,353	218,892	216,430	214,944	205,895	1,074,514
Dec-10	112,017	107,477	105,123	97,082	101,222	522,921
Jan-11	223,769	221,214	215,419	213,259	202,403	1,076,064
Feb-11	243,846	241,992	238,057	234,029	238,621	1,196,545
Mar-11	124,387	113,503	124,074	119,902	130,425	612,291
Apr-11	135,590	134,323	133,269	125,618	135,545	664,345
May-11	255,937	250,569	246,280	245,292	242,342	1,240,420
Jun-11	170,801	169,510	165,887	163,061	163,473	832,732
Jul-11	100,580	97,602	96,469	94,570	95,829	485,050
Aug-11	111,130	107,149	105,983	107,578	109,063	540,903
Sep-11	217,249	225,660	222,546	226,470	226,391	1,118,316
Oct-11	262,734	255,906	250,615	251,213	250,014	1,270,482
Total	2,176,393	2,143,797	2,120,152	2,093,018	2,101,223	10,634,583
%	20.5%	20.2%	19.9%	19.7%	19.8%	100.0%

	YTD				Cumulative			Capacity	Availability	Wind Speed m/s	Historic data			
	2010/2011				2010/2011						Average	2009/2010	2008/2009	2007/2008
	Actual	Budget	Variance	Line Loss	Actual	Budget	Variance							
Nov-10	1,040,420	1,113,177	93.5%	3%	1,040,420	1,113,177	93%	22.4%	99.3%	5.54	1,554,637	1,938,119	1,171,155	
Dec-10	498,995	1,246,274	40.0%	5%	1,539,415	2,359,451	65%	10.6%	99.3%	3.90	961,223	1,010,235	912,210	
Jan-11	1,041,950	1,355,172	76.9%	3%	2,581,365	3,714,623	69%	21.7%	99.3%	5.52	912,363	683,190	1,141,535	
Feb-11	1,161,200	1,234,187	94.1%	3%	3,742,565	4,948,810	76%	26.8%	99.9%	6.26	566,485	622,215	510,755	160,710
Mar-11	589,550	1,197,875	49.2%	4%	4,332,115	6,146,685	70%	12.4%	99.0%	4.50	1,156,890	915,735	1,032,800	1,522,135
Apr-11	634,940	943,781	67.3%	4%	4,967,055	7,090,466	70%	13.9%	98.8%	6.24	679,407	637,085	483,385	917,750
May-11	1,202,020	846,983	141.9%	3%	6,169,075	7,937,448	78%	25.1%	99.2%	8.80	756,172	380,665	1,202,895	684,955
Jun-11	795,565	750,185	106.0%	4%	6,964,640	8,687,633	80%	17.4%	99.1%	5.48	448,668	268,615	348,430	728,960
Jul-11	460,895	701,786	65.7%	5%	7,425,535	9,389,418	79%	9.8%	98.8%	4.28	776,368	619,750	967,500	741,855
Aug-11	513,435	725,985	70.7%	5%	7,938,970	10,115,403	78%	10.9%	99.6%	4.54	811,947	671,210	761,260	1,003,370
Sep-11	1,079,775	859,070	125.7%	3%	9,018,745	10,974,473	82%	23.4%	97.7%	4.54	721,250	694,335	777,250	692,165
Oct-11	1,231,920	1,125,277	109.5%	3%	10,250,665	12,099,750	85%	25.7%	99.2%	6.40	860,377	853,350	567,510	1,160,270
TOTAL	10,250,665	12,099,750		3.96%				18.3%	99.1%	5.50	10,205,785	9,294,504	9,876,685	7,612,170

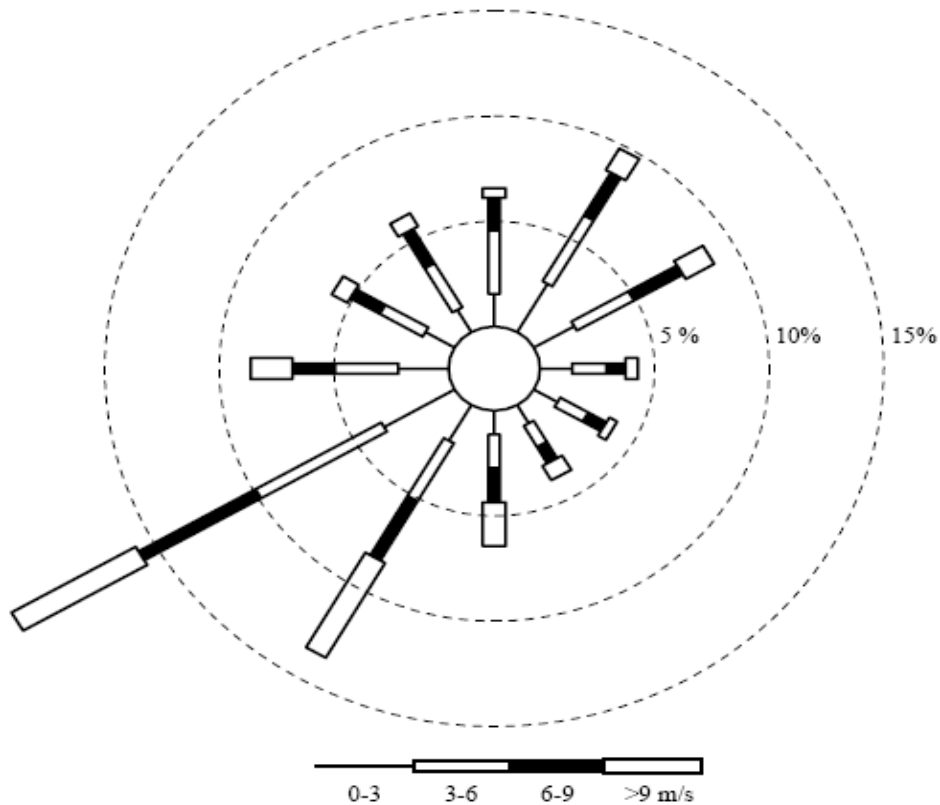
estimated figure

Wind Rose



YTD Wind Rose (from Nov 2010)

1 - 31st October 2011 Wind Rose



Predicted wind rose per Garrad Hassan Report ~ 30m height