



Wind Power Operational and Market Report Week of Jun 1, 2008 to Jun 7, 2008

Thursday, June 19, 2008

1.0 Purpose

Around the world, interest in wind development as a source of renewable energy continues to grow. In Alberta, wind power is part of the diverse mix of generation sources that supplies the growing electricity demands of Albertans. As the amount of wind power on a system grows, so do the operational challenges.

Wind can start, stop or change at any moment. Today wind power is backed up by coal, gas, hydro generation facilities or the interconnections to BC and Saskatchewan using Alberta's competitive electricity markets.

The purpose of the weekly report is to provide industry with graphs and tables that illustrate aspects such as:

- Wind generation versus system load
- Regional diversity of wind generation
- Wind generation in the energy market
- Wind generation forecasts versus actual wind generation

The forecast information comes from the Wind Power Forecasting Pilot Project. The intent is to capture weekly wind power events and break them down from a forecasting perspective in order to educate AESO stakeholders on the capabilities of wind power forecasting. More information about this project can be found on our website at <http://www.aeso.ca/gridoperations/13825.html>.

The AESO anticipates that this report will continue to improve and any feedback is appreciated and feedback can be emailed to AESO stakeholder relations at stakeholder.relations@aeso.ca.

2.0 Wind Generation Statistics

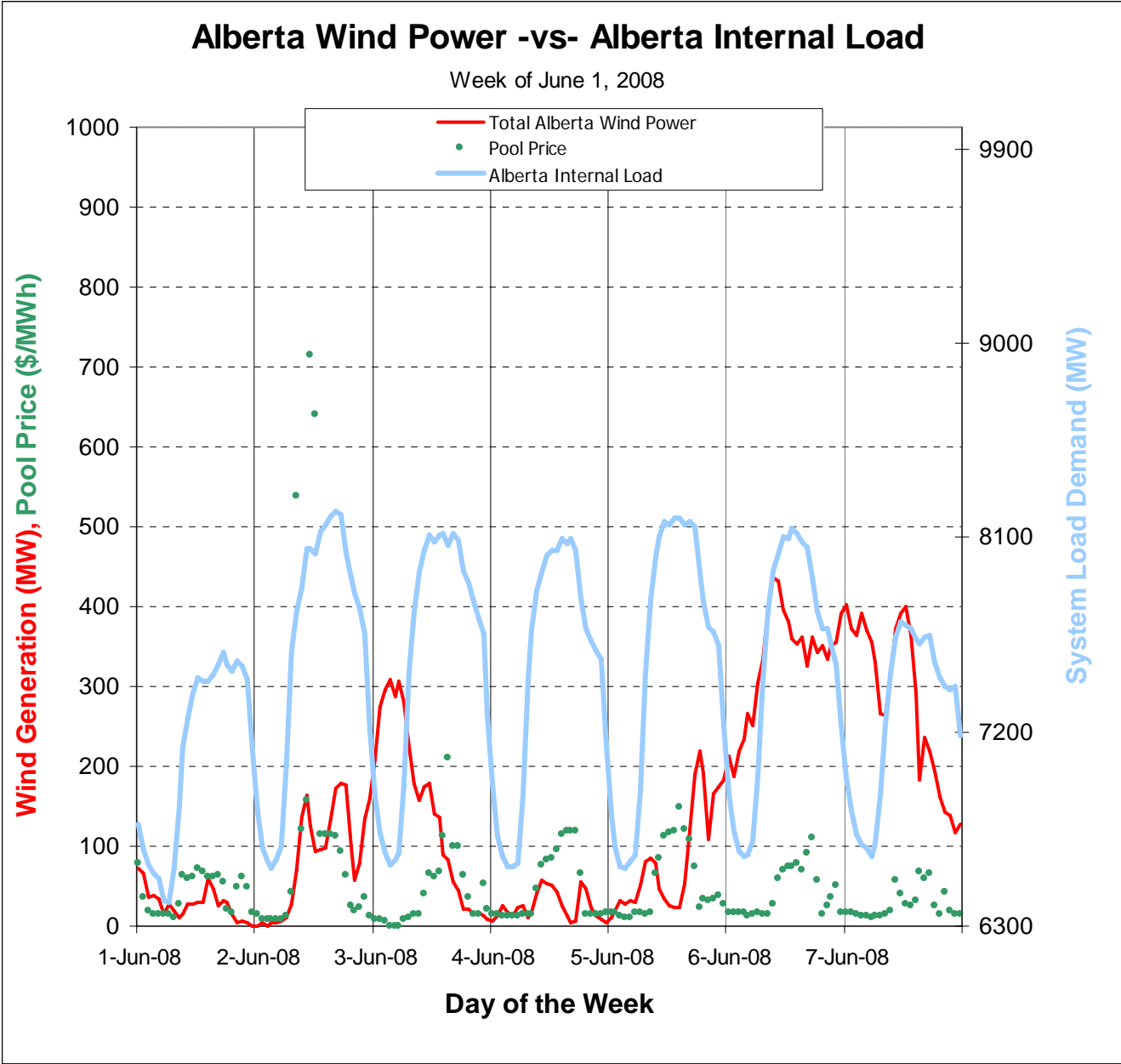
The purpose of this table is to provide daily production statistics as well as any wind power curtailment that occurred. The weekly average capacity factor¹ was 28.19%.

Daily Alberta Wind Generation Statistics										
497MW of Wind Power Currently Operational										
Wind Generation (MWh/MW) Statistics									Curtailment Statistics	
Date	Average Off-Peak Wind Gen (MWh)	Off-Peak Capacity Factor	Average On-Peak Wind Gen (MWh)	On-Peak Capacity Factor	Average Daily Wind Gen (MWh)	Minimum Wind Generation	Maximum Wind Generation	Average Wind Gen During High Load Hour (MWh)	Number of Hours	Number of Affected Wind Power Facilities
1-Jun-08	36	7.26%	24	4.81%	28	0	81	26		
2-Jun-08	24	4.76%	115	23.20%	85	0	235	138	8h32m	3
3-Jun-08	246	49.52%	97	19.51%	147	2	336	108	12h39m	2
4-Jun-08	16	3.21%	29	5.92%	25	2	73	32		
5-Jun-08	48	9.69%	101	20.32%	83	6	259	66		
6-Jun-08	258	52.00%	367	73.87%	331	171	440	381	19h	1
7-Jun-08	339	68.24%	254	51.01%	282	97	413	295	5h46m	1

¹ Capacity factor is determined by averaging the hourly capacity factors which are calculated as: Average Hourly Wind generation/Total installed capacity *100

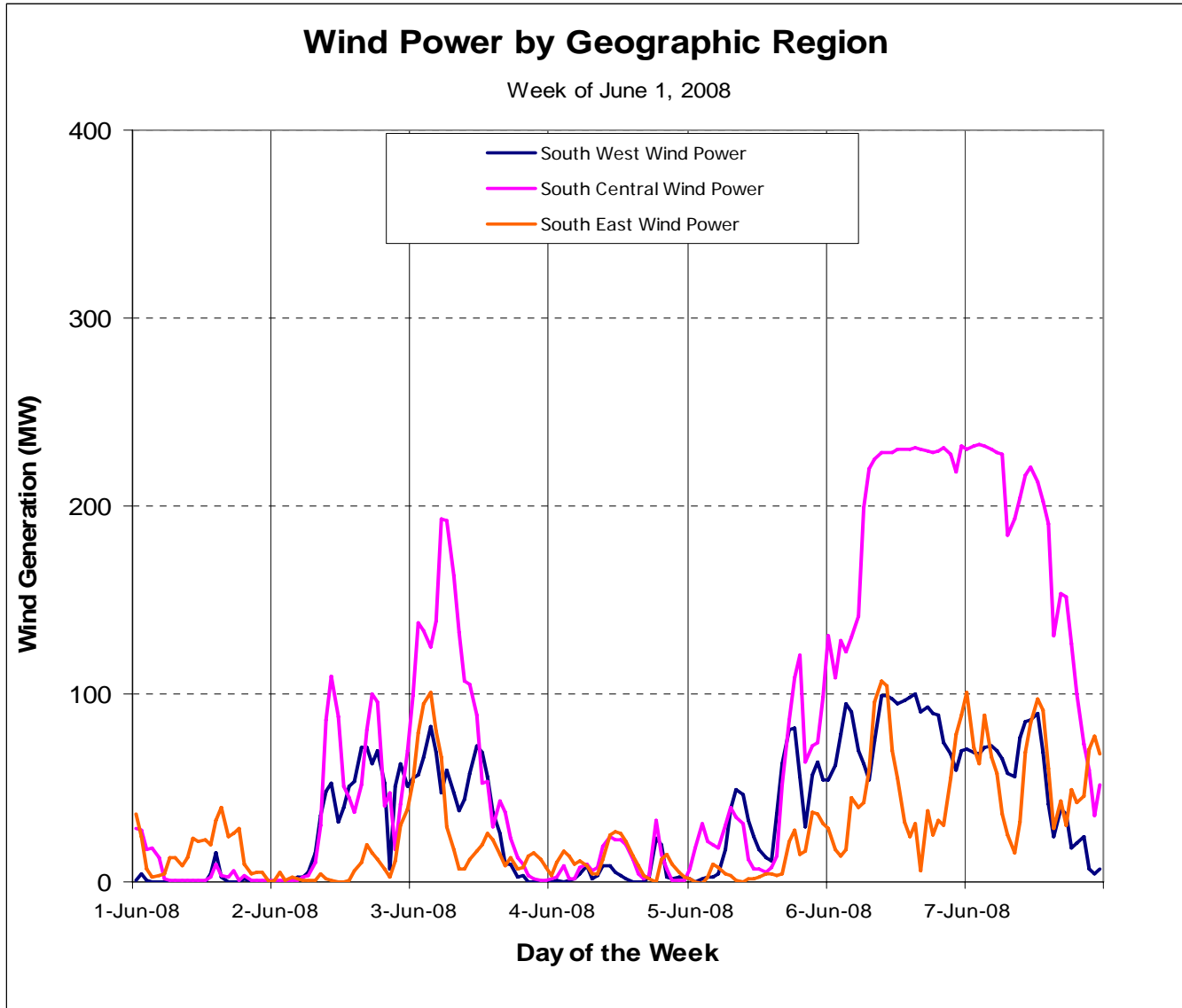
3.0 Wind Generation and System Load

The purpose of the graph is to illustrate how wind power varies with system load and the hourly pool price.



4.0 Wind Diversity in Alberta

The purpose of this graph is to illustrate how wind power varies in the different regions of Alberta.



Wind Regions:

South West (SW) Total Installed = 212.3MWs

South Central (SC) Total Installed = 176.2 MWs

South East (SE) Total Installed = 110 MWs

There are currently no operational wind facilities in the North.

