

Midwest Transmission System Operator (MISO) Monthly V

	Wind	Wind	Total	%		Wind	GWh	Wind % of	
2011	GWh DIR	GWh NDIR	Wind Contributi	Monthly Wind Capacity Factor	LMP\$/M Wh	GWh Used	Total MISO Generation	Total MISO Generation	MW Available
Jan	0	1945	1945	28.3%		1,945	49,872	3.9%	9,222
Feb	0	2503	2503	40.4%		2,503	43,912	5.7%	9,222
Mar	0	2076	2076	30.4%		2,076	44,170	4.7%	9,187
Apr	0	2456	2456	37.1%		2,456	40,262	6.1%	9,222
May	0	2645	2645	38.7%		2,645	41,984	6.3%	9,222
Jun	188	1730	1918	27.3%		1,918	42,622	4.5%	9,222
Jul	148	1020	1168	16.2%		1,168	48,667	2.4%	9,758
Aug	148	951	1099	15.1%	13.76	1,099	45,792	2.4%	9,758
Sep	227	1280	1507	19.6%	26.32	1,510	36,829	4.1%	10,680
Oct	469	2131	2600	32.7%	15.21	2,600	37,143	7.0%	10,680
Nov	542	2612	3154	41.0%	14.99	3,154	35,841	8.8%	10,680
Dec	471	2300	2771	34.9%	17.48	2,771	39,028	7.1%	10,680
2012									
Jan	1062	2339	3401	43.1%	9.63	3,401	39,092	8.7%	10,601
Feb	840	1686	2526	34.2%	5.79	2,526	36,609	6.9%	10,601
Mar	1181	1942	3123	38.9%	17.39	3,124	36,326	8.6%	10,790
Apr	1143	1930	3073	39.5%	11.20	3,703	38,979	9.5%	10,790
May	1180	1743	2923	36.4%	16.54	2,923	37,000	7.9%	10,790
Jun	1000	1339	2339	26.5%	20.97	2,339	40,328	5.8%	11,858
Jul	630	851	1481	16.8%	16.34	1,481	46,281	3.2%	11,854
Aug	687	957	1644	18.6%	16.52	1,644	41,100	4.0%	11,854
Sep	928	1130	2058	23.0%	14.60	2,058	34,881	5.9%	12,444
Oct	1518	1749	3267	35.3%	18.42	3,267	35,129	9.3%	12,444
Nov	1487	1566	3053	34.1%	31.86	3,053	35,918	8.5%	12,444
Dec	1561	1348	2909	31.9%	28.02	2,909	38,276	7.6%	12,270
Averages	1101	1548	2650	31.5%	17.27	2,702	38,327	7.2%	11,562

Wind Capacity factor is calculated by taking the average of hourly actual wind generation divided by registered cap

Wind Contribution

% Available Wind MW Used	Instantaneous Peak Wind Output MW	Wind MW at Peak Load	Total MW Demand at Peak Load	Wind % of Peak Load
	6,588			
	7,028			
	6,814			
	6,741			
	6,605			
	5,789			
	5,066			
	5,964			
	6,561			
	7,219			
	7,780			
	7,971			
	8,632	1,945	49,872	3.9%
			-	6.9%
	8,041	5,972	73,728	8.1%
	8,069	5,636	59,957	9.4%
	7,769	5,802	71,630	8.1%
	7,297	1,424	94,933	1.5%
	6,019	1,066	98,576	1.1%
	7,520	1,947	90,772	2.1%
	8,216	480	85,103	0.6%
	9,474	4,863	62,937	7.7%
	10,012	3,032	67,592	4.5%
		2,505	70,432	3.6%
	8,105	3,152	68,794	4.8%

capacity.