

Potential Energy Resource Composition For Estimating Western UGPR Purchases

Total Potential Resource Mix of IA, MN, ND, NE, SD Excluding ND and SD Hydro

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Coal	74.55%	73.62%	71.61%	70.53%	70.27%	67.18%	66.57%	62.48%	61.81%	60.55%	55.81%
Hydro	1.60%	1.45%	1.16%	1.05%	1.27%	1.67%	1.79%	1.41%	1.29%	1.34%	1.81%
Gas	3.85%	3.67%	4.95%	3.34%	2.54%	3.33%	2.68%	5.49%	4.73%	3.29%	6.05%
Nuclear	16.09%	16.69%	16.88%	15.42%	15.16%	15.64%	13.14%	12.09%	12.42%	13.99%	14.28%
Other	0.21%	0.19%	0.20%	0.22%	0.18%	0.16%	0.22%	0.25%	0.22%	0.22%	0.23%
Other biomass	0.36%	0.37%	0.47%	0.56%	0.65%	0.64%	0.64%	0.67%	0.44%	0.49%	0.50%
Other Gases	0.04%	0.04%	0.05%	0.00%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%
Petroleum	0.62%	0.47%	0.51%	0.28%	0.13%	0.14%	0.14%	0.11%	0.14%	0.15%	0.10%
Wind	2.28%	3.15%	3.76%	5.83%	9.31%	10.71%	14.38%	17.03%	18.36%	19.34%	20.60%
Wood	0.40%	0.36%	0.43%	0.40%	0.46%	0.50%	0.41%	0.46%	0.56%	0.60%	0.61%

Data Source - Published EIA Form 906 Data

Includes Data for IA, MN, ND, NE, SD

2015 results based on preliminary EIA report data reported year to date through Dec 2015 - includes estimates

Western does not track the source of firming power purchases - this data is provided to estimate the potential resource pool composition