

Forecast of Capacity Balance (MW)

Name of Utility: The Empire District Electric Company

Year of Electric Utility Resource Planning Filing: IRP Annual Update of the 2010 IRP (March, 2012)

A. System Generation Capacity

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Base Capacity					
Asbury (coal)	207	207	207	183	183
latan 1 (coal)	85	85	85	85	85
latan 2 (coal)	102	102	102	102	102
Plum Point (coal ownership portion)	50	50	50	50	100
Riverton 7 (coal)	38	38	-	-	-
Riverton 8 (coal)	54	54	-	-	-
Ozark Beach (hydro)	16	16	16	16	16
Total Base Capacity	552	552	460	436	486
Intermediate Capacity					
State Line Combined Cycle (nat gas)	297	297	297	297	297
Riverton Combined Cycle (nat gas)	-	-	-	-	250
Total Intermediate Capacity	297	297	297	297	547
Peaking Capacity					
Riverton 7 (nat gas)	-	-	38	38	-
Riverton 8 (nat gas)	-	-	54	54	-
Riverton 9 (nat gas)	12	12	12	12	-
Riverton 10 (nat gas)	16	16	16	16	16
Riverton 11 (nat gas)	17	17	17	17	17
Riverton 12 (nat gas)	142	142	142	142	-
Energy Center 1 (nat gas)	82	82	82	82	82
Energy Center 2 (nat gas)	82	82	82	82	82
Energy Center 3 (nat gas)	49	49	49	49	49
Energy Center 4 (nat gas)	49	49	49	49	49
State Line 1 (nat gas)	94	94	94	94	94
Total Peaking Capacity	543	543	635	635	389
Intermittent Capacity ¹					
Elk River (wind PPA)	150	150	150	150	150
Meridian Way (wind PPA)	105	105	105	105	105
Total Intermittent Capacity	255	255	255	255	255
Percent Accredited Intermittent Capacity	5.88%	5.88%	5.88%	5.88%	5.88%
Total Accredited Intermittent Capacity	15	15	15	15	15
Total Generation Capacity	1,407	1,407	1,407	1,383	1,437

B. Capacity Transactions

Purchases					
Plum Point (coal PPA)	50	50	50	50	-
Total Purchases	50	50	50	50	-
Sales					
Total Sales	-	-	-	-	-
Net Transactions	50	50	50	50	-
Total System Capacity	1,457	1,457	1,457	1,433	1,437

C. System Peaks & Reserves

Peak Demands					
Forecasted Peak	1,186	1,190	1,197	1,205	1,214
less DSM	1.06	1.82	2.55	11.42	14.93
Peak Demands less DSM	1,185	1,188	1,194	1,194	1,199
Capacity Reserves	272	269	263	239	238

D. Capacity Needs

% Reserve Margin	13.7%	13.7%	13.7%	13.7%	13.7%
% Capacity Margin	12.0%	12.0%	12.0%	12.0%	12.0%
Required Capacity	1,347	1,351	1,358	1,357	1,363
Capacity Balance	110	106	99	76	74

¹ the wind resources are purchased power agreements