

	A	B	C	D	E	F	G	H	I
1				2012				2013	
2	Wind Resources								
3	Cedar Creek Wind	301				301			
4	Cedar Creek II	251				251			
5	enXco Ridge Crest Wind	30				30			
6	FPL Wind	401				401			
7	Invenergy Spring Canyon Wind	60				60			
8	Northern Colorado Wind I and II	174				174			
9	Ponnequin	32				32			
10	Additional ERZ1 Wind	0				0			
11	ERZ1 Wind Total	1,247				1,247			
12									
13	Twin Buttes Wind	75				75			
14	Colorado Green Wind	162				162			
15	Alstom NWTCT	3				3			
16	Siemens NWTCT	2				2			
17	NREL NWTCT	4				4			
18	Cedar Point	250				250			
19	Limon	200				200			
20	Limon II	200				200			
21	Wind Total	2,144				2,144			
22									
23	30 Minute Wind Reserve Guideline	392				392			
24									
25		Net Dependable Capacity (MW)	30" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity After Improvements (MW)	Net Dependable Capacity (MW)	30" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity After Improvements (MW)
26	Owned Resources								
27	Arapahoe 3	44	0	0	0	44	0	0	0
28	Arapahoe 4	103	0	0	0	103	0	0	0
29	Cherokee 3	152	0	0	0	152	0	0	0
30	Cherokee 4	352	0	0	0	352	0	0	0
31	Comanche 1	325	0	0	0	325	0	0	0
32	Comanche 2	335	0	0	0	335	0	0	0
33	Comanche 3	781	0	0	0	781	0	0	0
34	Craig 1	42	0	0	0	42	0	0	0
35	Craig 2	42	0	0	0	42	0	0	0
36	Hayden 1	139	0	0	0	139	0	0	0
37	Hayden 2	98	0	0	0	98	0	0	0
38	Pawnee	505	0	0	0	505	0	0	0
39	Valmont 5	184	0	0	0	184	0	0	0
40	Zuni 2	0	0	0	0	0	0	0	0
41	Coal Subtotal	3,101	0	0	0	3,101	0	0	0
42									
43	Alamosa 1	17	17	17	17	17	17	17	17
44	Alamosa 2	18	18	18	18	18	18	18	18
45	Fruita	20	20	20	20	20	20	20	20
46	Blue Spruce 1	141	141	0	0	141	141	0	141
47	Blue Spruce 2	141	0	0	0	141	0	0	141
48	Cherokee 2X1 CC (1 CT)	0	0	0	0	0	0	0	0
49	Cherokee 2X1 CC (1X1)	0	0	0	0	0	0	0	0
50	Cherokee 2X1 CC (2X1)	0	0	0	0	0	0	0	0
51	Ft. Lupton 1	45	45	45	45	45	45	45	45
52	Ft. Lupton 2	45	45	45	45	45	45	45	45
53	Ft. St. Vrain (1 CT)	137	137	0	0	137	137	0	137
54	Ft. St. Vrain (1X1)	183	0	0	0	183	0	0	0
55	Ft. St. Vrain (2X1)	397	0	0	0	397	0	0	0
56	Ft. St. Vrain (3X1)	597	0	0	0	597	0	0	0
57	Ft. St. Vrain 5	160	160	0	0	160	160	0	160
58	Ft. St. Vrain 6	159	0	0	0	159	0	0	159
59	RMEC (1 CT)	152	20	0	0	152	20	0	20
60	RMEC (1X1)	223	0	0	0	223	0	0	0
61	RMEC (2X1)	463	0	0	0	463	0	0	0
62	Valmont 6	47	47	47	47	47	47	47	47
63	Cabin Creek A	166	166	166	166	166	166	166	166
64	Cabin Creek B	166	166	166	166	166	166	166	166
65	Gas and Storage Subtotal	3,277	982	524	1,282	3,277	982	524	1,282
66									
67	Purchased Resources								
68	ManChief Power Company	267	0	0	130	267	0	0	130
69	SWG Valmont 7 & 8	78	78	0	0	0	0	0	0
70	SWG Arapahoe 5, 6, 7 (1 CT)	121	0	0	0	0	0	0	0
71	SWG Arapahoe 5, 6, 7 (1X1)	0	0	0	0	0	0	0	0
72	SWG Arapahoe 5, 6, 7 (2X1)	0	0	0	0	0	0	0	0
73	SWG Fountain Valley Midway	243	243	243	243	0	0	0	0
74	Brush 1 (1X1)	43	0	0	0	43	0	0	0
75	Brush 3	30	30	0	0	30	30	0	0
76	Brush 4D	137	0	0	0	137	0	0	0
77	Tri-State Limon	0	0	0	0	69	22	0	0
78	Tri-State Brighton (Knudsen)	0	0	0	0	138	44	0	0
79	Cogentrix Plains End	226	226	226	226	226	226	226	226
80	Thermo Fort Lupton (1X1)	37	0	0	0	37	0	0	0
81	Thermo Fort Lupton (2X1)	81	0	0	0	81	0	0	0
82	Thermo Fort Lupton (3X1)	124	0	0	0	124	0	0	0
83	Thermo Power (UNC)	84	0	0	0	84	0	0	0
84	Invenergy Spindle CT	316	80	0	80	316	80	0	80
85	Purchased Subtotal	1,787	657	469	679	1,552	402	226	436
86									
87	Total	8,165	1,639	993	1,961	7,930	1,384	750	1,718
88									
89	Total Less Non-Spinning Contingency Reserve of 191 MW		1,448	802	1,770		1,193	559	1,527
90									
91	Flexible Resource Need MW (long)		(1,056)	(410)	(1,378)		(801)	(167)	(1,135)
92				2012				2013	
93									
94	SWG Valmont 7&8 are available for full output within 30 minutes based on operational experience.								
95	SWG Fountain Valley 1-6 are available for full output within 15 minutes based on operational experience.								
96	Per PPA, Brush 3 needs to be online within 30 minutes								
97	Per PPA, Invenergy Spindle CT must achieve minimum loading level within 30 minutes								
98	Thermo Fort Lupton (3x1) is not available for generation within 30 minutes from a start request.								

	A	J	K	L	M	N	O	P	Q
1				2014				2015	
2	Wind Resources								
3	Cedar Creek Wind	301				301			
4	Cedar Creek II	251				251			
5	enXco Ridge Crest Wind	30				30			
6	FPL Wind	401				401			
7	Invenery Spring Canyon Wind	60				60			
8	Northern Colorado Wind I and II	174				174			
9	Ponnequin	32				32			
10	Additional ERZ1 Wind	0				0			
11	ERZ1 Wind Total	1,247				1,247			
12									
13	Twin Buttes Wind	75				75			
14	Colorado Green Wind	162				162			
15	Alstom NWTC	3				3			
16	Siemens NWTC	2				2			
17	NREL NWTC	4				4			
18	Cedar Point	250				250			
19	Limon	200				200			
20	Limon II	200				200			
21	Wind Total	2,144				2,144			
22									
23	30 Minute Wind Reserve Guideline	392				392			
24									
25		Net Dependable Capacity (MW)	30" Reserve Capacity (MW)	20" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity After Improvements (MW)	Net Dependable Capacity (MW)	30" Reserve Capacity (MW)	20" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity After Improvements (MW)
26	Owned Resources								
27	Arapahoe 3	0	0	0	0	0	0	0	0
28	Arapahoe 4	103	0	0	0	103	0	0	0
29	Cherokee 3	152	0	0	0	152	0	0	0
30	Cherokee 4	352	0	0	0	352	0	0	0
31	Comanche 1	325	0	0	0	325	0	0	0
32	Comanche 2	335	0	0	0	335	0	0	0
33	Comanche 3	781	0	0	0	781	0	0	0
34	Craig 1	42	0	0	0	42	0	0	0
35	Craig 2	42	0	0	0	42	0	0	0
36	Hayden 1	139	0	0	0	139	0	0	0
37	Hayden 2	98	0	0	0	98	0	0	0
38	Pawnee	505	0	0	0	505	0	0	0
39	Valmont 5	184	0	0	0	184	0	0	0
40	Zuni 2	0	0	0	0	0	0	0	0
41	Coal Subtotal	3,057	0	0	0	3,057	0	0	0
42									
43	Alamosa 1	17	17	17	17	17	17	17	17
44	Alamosa 2	18	18	18	18	18	18	18	18
45	Fruita	20	20	20	20	20	20	20	20
46	Blue Spruce 1	141	141	0	0	141	141	141	141
47	Blue Spruce 2	141	0	0	0	141	141	0	141
48	Cherokee 2X1 CC (1 CT)	0	0	0	0	0	0	0	0
49	Cherokee 2X1 CC (1X1)	0	0	0	0	0	0	0	0
50	Cherokee 2X1 CC (2X1)	0	0	0	0	0	0	0	0
51	Ft. Lupton 1	45	45	45	45	45	45	45	45
52	Ft. Lupton 2	45	45	45	45	45	45	45	45
53	Ft. St. Vrain (1 CT)	137	137	0	0	137	137	0	137
54	Ft. St. Vrain (1X1)	183	0	0	0	183	0	0	0
55	Ft. St. Vrain (2X1)	397	0	0	0	397	0	0	0
56	Ft. St. Vrain (3X1)	597	0	0	0	597	0	0	0
57	Ft. St. Vrain 5	160	160	0	0	160	160	160	160
58	Ft. St. Vrain 6	159	0	0	0	159	159	0	159
59	RMEC (1 CT)	152	20	0	0	152	20	0	20
60	RMEC (1X1)	223	0	0	0	223	0	0	0
61	RMEC (2X1)	463	0	0	0	463	0	0	0
62	Valmont 6	47	47	47	47	47	47	47	47
63	Cabin Creek A	166	166	166	166	166	166	166	166
64	Cabin Creek B	166	166	166	166	166	166	166	166
65	Gas and Storage Subtotal	3,277	982	524	1,282	3,277	982	524	1,282
66									
67	Purchased Resources								
68	ManChief Power Company	267	0	0	130	267	0	0	130
69	SWG Valmont 7 & 8	0	0	0	0	0	0	0	0
70	SWG Arapahoe 5, 6, 7 (1 CT)	0	0	0	0	0	0	0	0
71	SWG Arapahoe 5, 6, 7 (1X1)	0	0	0	0	0	0	0	0
72	SWG Arapahoe 5, 6, 7 (2X1)	0	0	0	0	0	0	0	0
73	SWG Fountain Valley Midway	0	0	0	0	0	0	0	0
74	Brush 1 (1X1)	43	0	0	0	43	0	0	0
75	Brush 3	30	30	0	0	30	30	0	0
76	Brush 4D	137	0	0	0	137	0	0	0
77	Tri-State Limon	69	22	0	0	69	22	0	0
78	Tri-State Brighton (Knudsen)	138	44	0	0	138	44	0	0
79	Cogentrix Plains End	226	226	226	226	226	226	226	226
80	Thermo Fort Lupton (1X1)	37	0	0	0	37	0	0	0
81	Thermo Fort Lupton (2X1)	81	0	0	0	81	0	0	0
82	Thermo Fort Lupton (3X1)	124	0	0	0	124	0	0	0
83	Thermo Power (UNC)	84	0	0	0	84	0	0	0
84	Invenery Spindle CT	316	80	0	80	316	80	0	80
85	Purchased Subtotal	1,552	402	226	436	1,552	402	226	436
86									
87	Total	7,886	1,384	750	1,718	7,886	1,384	750	1,718
88									
89	Total Less Non-Spinning Contingency Reserve of 191 MW		1,193	559	1,527		1,193	559	1,527
90									
91	Flexible Resource Need MW (long)		(801)	(167)	(1,135)		(801)	(167)	(1,135)
92				2014				2015	
93									
94	SWG Valmont 7&8 are available for full output within 30 minutes basec								
95	SWG Fountain Valley 1-6 are available for full output within 15 minutes								
96	Per PPA, Brush 3 needs to be online within 30 minutes								
97	Per PPA, Invenery Spindle CT must achieve minimum loading level								
98	Thermo Fort Lupton (3x1) is not available for generation within 30 min								

	A	R	S	T	U	V	W	X	Y
1				2016				2017	
2	Wind Resources								
3	Cedar Creek Wind	301				301			
4	Cedar Creek II	251				251			
5	enXco Ridge Crest Wind	30				0			
6	FPL Wind	401				401			
7	Invenery Spring Canyon Wind	60				60			
8	Northern Colorado Wind I and II	174				174			
9	Ponnequin	32				32			
10	Additional ERZ1 Wind	0				0			
11	ERZ1 Wind Total	1,247				1,218			
12									
13	Twin Buttes Wind	75				75			
14	Colorado Green Wind	162				162			
15	Alstom NWTC	0				0			
16	Siemens NWTC	0				0			
17	NREL NWTC	0				0			
18	Cedar Point	250				250			
19	Limon	200				200			
20	Limon II	200				200			
21	Wind Total	2,135				2,105			
22									
23	30 Minute Wind Reserve Guideline	392				390			
24									
25		Net Dependable Capacity (MW)	30" Reserve Capacity (MW)	20" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity After Improvements (MW)	Net Dependable Capacity (MW)	30" Reserve Capacity (MW)	20" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity After Improvements (MW)
26	Owned Resources								
27	Arapahoe 3	0	0	0	0	0	0	0	0
28	Arapahoe 4	103	0	0	0	103	0	0	0
29	Cherokee 3	152	0	0	0	0	0	0	0
30	Cherokee 4	352	0	0	0	352	0	0	0
31	Comanche 1	325	0	0	0	325	0	0	0
32	Comanche 2	335	0	0	0	335	0	0	0
33	Comanche 3	781	0	0	0	781	0	0	0
34	Craig 1	42	0	0	0	42	0	0	0
35	Craig 2	42	0	0	0	42	0	0	0
36	Hayden 1	139	0	0	0	139	0	0	0
37	Hayden 2	98	0	0	0	98	0	0	0
38	Pawnee	505	0	0	0	505	0	0	0
39	Valmont 5	184	0	0	0	184	0	0	0
40	Zuni 2	0	0	0	0	0	0	0	0
41	Coal Subtotal	3,057	0	0	0	2,905	0	0	0
42									
43	Alamosa 1	17	17	17	17	17	17	17	17
44	Alamosa 2	18	18	18	18	18	18	18	18
45	Fruita	20	20	20	20	20	20	20	20
46	Blue Spruce 1	141	141	0	141	141	141	0	141
47	Blue Spruce 2	141	0	0	141	141	0	0	141
48	Cherokee 2X1 CC (1 CT)	172	86	86	86	172	86	86	86
49	Cherokee 2X1 CC (1X1)	251	0	0	0	251	0	0	0
50	Cherokee 2X1 CC (2X1)	512	0	0	0	512	0	0	0
51	Ft. Lupton 1	45	45	45	45	45	45	45	45
52	Ft. Lupton 2	45	45	45	45	45	45	45	45
53	Ft. St. Vrain (1 CT)	137	137	0	137	137	137	0	137
54	Ft. St. Vrain (1X1)	183	0	0	0	183	0	0	0
55	Ft. St. Vrain (2X1)	397	0	0	0	397	0	0	0
56	Ft. St. Vrain (3X1)	597	0	0	0	597	0	0	0
57	Ft. St. Vrain 5	160	160	0	160	160	160	0	160
58	Ft. St. Vrain 6	159	0	0	159	159	0	0	159
59	RMEC (1 CT)	152	20	0	20	152	20	0	20
60	RMEC (1X1)	223	0	0	0	223	0	0	0
61	RMEC (2X1)	463	0	0	0	463	0	0	0
62	Valmont 6	47	47	47	47	47	47	47	47
63	Cabin Creek A	166	166	166	166	166	166	166	166
64	Cabin Creek B	166	166	166	166	166	166	166	166
65	Gas and Storage Subtotal	4,212	1,068	610	1,368	4,212	1,068	610	1,368
66									
67	Purchased Resources								
68	ManChief Power Company	267	0	0	130	267	0	0	130
69	SWG Valmont 7 & 8	0	0	0	0	0	0	0	0
70	SWG Arapahoe 5, 6, 7 (1 CT)	0	0	0	0	0	0	0	0
71	SWG Arapahoe 5, 6, 7 (1X1)	0	0	0	0	0	0	0	0
72	SWG Arapahoe 5, 6, 7 (2X1)	0	0	0	0	0	0	0	0
73	SWG Fountain Valley Midway	0	0	0	0	0	0	0	0
74	Brush 1 (1X1)	43	0	0	0	0	0	0	0
75	Brush 3	30	30	0	0	0	0	0	0
76	Brush 4D	137	0	0	0	137	0	0	0
77	Tri-State Limon	0	0	0	0	0	0	0	0
78	Tri-State Brighton (Knudsen)	0	0	0	0	0	0	0	0
79	Cogentrix Plains End	226	226	226	226	226	226	226	226
80	Thermo Fort Lupton (1X1)	37	0	0	0	37	0	0	0
81	Thermo Fort Lupton (2X1)	81	0	0	0	81	0	0	0
82	Thermo Fort Lupton (3X1)	124	0	0	0	124	0	0	0
83	Thermo Power (UNC)	84	0	0	0	84	0	0	0
84	Invenery Spindle CT	316	80	0	80	316	80	0	80
85	Purchased Subtotal	1,345	336	226	436	1,272	306	226	436
86									
87	Total	8,614	1,404	836	1,804	8,389	1,374	836	1,804
88									
89	Total Less Non-Spinning Contingency Reserve of 191 MW		1,213	645	1,613		1,183	645	1,613
90									
91	Flexible Resource Need MW (long)		(821)	(253)	(1,221)		(793)	(255)	(1,223)
92									
93				2016				2017	
94	SWG Valmont 7&8 are available for full output within 30 minutes basec								
95	SWG Fountain Valley 1-6 are available for full output within 15 minutes								
96	Per PPA, Brush 3 needs to be online within 30 minutes								
97	Per PPA, Invenery Spindle CT must achieve minimum loading level								
98	Thermo Fort Lupton (3x1) is not available for generation within 30 min								

	A	Z	AA	AB	AC
1				2018	
2	Wind Resources				
3	Cedar Creek Wind	301			
4	Cedar Creek II	251			
5	enXco Ridge Crest Wind	0			
6	FPL Wind	401			
7	Invenery Spring Canyon Wind	60			
8	Northern Colorado Wind I and II	174			
9	Ponnequin	32			
10	Additional ERZ1 Wind	0			
11	ERZ1 Wind Total	1,218			
12					
13	Twin Buttes Wind	75			
14	Colorado Green Wind	162			
15	Alstom NWTC	0			
16	Siemens NWTC	0			
17	NREL NWTC	0			
18	Cedar Point	250			
19	Limon	200			
20	Limon II	200			
21	Wind Total	2,105			
22					
23	30 Minute Wind Reserve Guideline	390			
24					
25		Net Dependable Capacity (MW)	30" Reserve Capacity (MW)	20" Offline Reserve Capacity (MW)	20" Offline Reserve Capacity After Improvements (MW)
26	Owned Resources				
27	Arapahoe 3	0	0	0	0
28	Arapahoe 4	103	0	0	0
29	Cherokee 3	0	0	0	0
30	Cherokee 4	352	0	0	0
31	Comanche 1	325	0	0	0
32	Comanche 2	335	0	0	0
33	Comanche 3	781	0	0	0
34	Craig 1	42	0	0	0
35	Craig 2	42	0	0	0
36	Hayden 1	139	0	0	0
37	Hayden 2	98	0	0	0
38	Pawnee	505	0	0	0
39	Valmont 5	0	0	0	0
40	Zuni 2	0	0	0	0
41	Coal Subtotal	2,721	0	0	0
42					
43	Alamosa 1	17	17	17	17
44	Alamosa 2	18	18	18	18
45	Fruita	20	20	20	20
46	Blue Spruce 1	141	141	0	141
47	Blue Spruce 2	141	0	0	141
48	Cherokee 2X1 CC (1 CT)	172	86	86	86
49	Cherokee 2X1 CC (1X1)	251	0	0	0
50	Cherokee 2X1 CC (2X1)	512	0	0	0
51	Ft. Lupton 1	45	45	45	45
52	Ft. Lupton 2	45	45	45	45
53	Ft. St. Vrain (1 CT)	137	137	0	137
54	Ft. St. Vrain (1X1)	183	0	0	0
55	Ft. St. Vrain (2X1)	397	0	0	0
56	Ft. St. Vrain (3X1)	597	0	0	0
57	Ft. St. Vrain 5	160	160	0	160
58	Ft. St. Vrain 6	159	0	0	159
59	RMEC (1 CT)	152	20	0	20
60	RMEC (1X1)	223	0	0	0
61	RMEC (2X1)	463	0	0	0
62	Valmont 6	47	47	47	47
63	Cabin Creek A	166	166	166	166
64	Cabin Creek B	166	166	166	166
65	Gas and Storage Subtotal	4,212	1,068	610	1,368
66					
67	Purchased Resources				
68	ManChief Power Company	267	0	0	130
69	SWG Valmont 7 & 8	0	0	0	0
70	SWG Arapahoe 5, 6, 7 (1 CT)	0	0	0	0
71	SWG Arapahoe 5, 6, 7 (1X1)	0	0	0	0
72	SWG Arapahoe 5, 6, 7 (2X1)	0	0	0	0
73	SWG Fountain Valley Midway	0	0	0	0
74	Brush 1 (1X1)	0	0	0	0
75	Brush 3	0	0	0	0
76	Brush 4D	137	0	0	0
77	Tri-State Limon	0	0	0	0
78	Tri-State Brighton (Knudsen)	0	0	0	0
79	Cogentrix Plains End	226	226	226	226
80	Thermo Fort Lupton (1X1)	37	0	0	0
81	Thermo Fort Lupton (2X1)	81	0	0	0
82	Thermo Fort Lupton (3X1)	124	0	0	0
83	Thermo Power (UNC)	84	0	0	0
84	Invenery Spindle CT	316	80	0	80
85	Purchased Subtotal	1,272	306	226	436
86					
87	Total	8,205	1,374	836	1,804
88					
89	Total Less Non-Spinning Contingency Reserve of 191 MW		1,183	645	1,613
90					
91	Flexible Resource Need MW (long)		(793)	(255)	(1,223)
92					
93					
94	SWG Valmont 7&8 are available for full output within 30 minutes basec				
95	SWG Fountain Valley 1-6 are available for full output within 15 minutes				
96	Per PPA, Brush 3 needs to be online within 30 minutes				
97	Per PPA, Invenery Spindle CT must achieve minimum loading level				
98	Thermo Fort Lupton (3x1) is not available for generation within 30 min				