

REDACTED

Rocky Mountain Power

Exhibit RMP___(RTL-1SD)

Docket No. 20000-519-EA-17

Witness: Rick T. Link

BEFORE THE WYOMING PUBLIC SERVICE
COMMISSION

ROCKY MOUNTAIN POWER

REDACTED

Exhibit Accompanying Supplemental Direct Testimony of Rick T. Link

Summary of the Cost and Performance Assumptions for the Wind Repowering Projects

February 2018

Existing Wind Prior to Repowering

	LGIA Limited Capacity (MW)		Energy (MWh)	Capacity Factor	Repower Investment (\$m)	Date PTC Ends	End-of-Life Date	Repower Date
	Capacity (MW)	Capacity (MW)						
Glenrock 1	99.0	99.0	303,723	35.0%	n/a	12/30/2018	12/31/2038	n/a
Glenrock 3	99.0	99.0	113,438	33.2%	n/a	1/16/2019	12/31/2038	n/a
Seven Mile Hill 1	99.0	99.0	339,195	39.1%	n/a	12/30/2018	12/31/2038	n/a
Seven Mile Hill 2	19.5	19.5	71,224	41.7%	n/a	12/30/2018	12/31/2038	n/a
High Plains	99.0	99.0	306,145	35.3%	n/a	9/12/2019	12/31/2038	n/a
McFadden Ridge	28.5	28.5	93,101	37.3%	n/a	9/28/2019	12/31/2038	n/a
Dunlap Ranch	111.0	111.0	389,045	40.0%	n/a	9/30/2020	10/1/2040	n/a
Rolling Hills	99.0	99.0	271,635	31.3%	n/a	1/16/2019	12/31/2038	n/a
Leaning Juniper	100.5	100.5	233,592	26.5%	n/a	9/13/2016	9/14/2036	n/a
Marengo 1	140.4	140.4	360,279	29.3%	n/a	8/2/2017	8/1/2037	n/a
Marengo 2	70.2	70.2	166,742	27.1%	n/a	6/25/2018	6/1/2038	n/a
Goodnoe Hills	94.0	94.0	220,898	26.8%	n/a	5/31/2018	12/31/2038	n/a
Total	999.1	999.1	2,869,016	32.8%				

Repowered Wind

	LGIA Limited Capacity (MW)		Energy (MWh)	Capacity Factor	Repower Investment (\$m)	Date PTC Ends	End-of-Life Date	Repower Date
	Capacity (MW)	Capacity (MW)						
Glenrock 1	112.0	99.0	369,723	42.6%		9/30/2029	10/1/2049	10/1/2019
Glenrock 3	44.3	39.0	136,864	40.1%		9/30/2029	10/1/2049	10/1/2019
Seven Mile Hill 1	110.9	99.0	417,258	48.1%		6/30/2029	7/1/2049	7/1/2019
Seven Mile Hill 2	22.8	19.5	87,480	51.2%		6/30/2029	7/1/2049	7/1/2019
High Plains	115.5	99.0	382,400	44.1%		10/31/2029	11/1/2049	11/1/2019
McFadden Ridge	33.3	28.5	116,644	46.7%		10/31/2029	11/1/2049	11/1/2019
Dunlap Ranch	129.5	111.0	476,749	49.0%		11/30/2030	12/1/2020	12/1/2020
Rolling Hills	107.5	99.0	319,022	36.8%		9/30/2029	10/1/2049	10/1/2019
Leaning Juniper	110.6	100.5	296,590	33.7%		9/30/2029	10/1/2049	10/1/2019
Marengo 1	156.0	156.0	488,207	35.7%		10/31/2029	11/1/2049	11/1/2019
Marengo 2	78.0	78.0	232,424	34.0%		10/31/2029	11/1/2049	11/1/2019
Goodnoe Hills	103.4	94.0	283,696	34.5%		9/30/2029	10/1/2049	10/1/2019
Total	1,123.6	1,022.5	3,607,057	40.3%	\$1,101			

¹Marengo 1 and 2 include increased interconnection capability based on the completion of recent transmission studies.

Run-Rate Capital

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
All Repowered Projects	(\$9.8)	(\$14.7)	(\$19.6)	(\$20.5)	(\$19.8)	(\$18.0)	(\$17.9)	(\$15.2)	(\$13.2)	(\$11.4)	(\$9.6)	(\$9.9)
All Repowered Projects	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	(\$8.7)	(\$4.4)	(\$2.3)	(\$1.8)	(\$1.8)	(\$1.8)	(\$1.9)	(\$1.0)	\$1.0	\$9.2	\$16.5	\$17.0
All Repowered Projects	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050		
	\$18.6	\$19.0	\$19.4	\$19.9	\$20.3	\$20.8	\$21.3	\$21.8	\$12.5	\$1.4		

Run-Rate Operations and Maintenance Expense

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
All Repowered Projects	\$0.0	\$0.0	\$3.9	\$12.1	\$12.8	\$9.6	\$9.5	\$9.4	\$9.2	\$9.1	\$9.0	\$8.8
All Repowered Projects	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	\$5.9	\$2.2	\$1.2	\$1.2	\$1.2	\$1.2	\$1.3	\$2.1	\$5.5	\$13.7	\$28.2	\$29.5
All Repowered Projects	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050		
	\$32.3	\$33.1	\$33.8	\$34.6	\$35.4	\$36.2	\$37.1	\$37.9	\$29.9	\$2.6		