

**REDACTED**

Rocky Mountain Power  
Exhibit RMP\_\_\_\_(RTL-1SD)  
Docket No. 17-035-39  
Witness: Rick T. Link

BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF UTAH

ROCKY MOUNTAIN POWER

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**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
<b>Total</b>	<b>999.1</b>	<b>999.1</b>	<b>2,869,016</b>	<b>32.8%</b>				

**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	99.0	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
<b>Total</b>	<b>1,123.6</b>	<b>1,022.5</b>	<b>3,607,057</b>	<b>40.3%</b>	<b>\$1,101</b>			

<sup>1</sup>Marengo 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
	(88.7)	(84.4)	(82.3)	(81.8)	(81.8)	(81.8)	(81.9)	(81.0)	\$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		