

**REDACTED**

Rocky Mountain Power  
Exhibit RMP\_\_\_\_(RTL-1)  
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 Direct Testimony of Rick T. Link

Wind Facility Data

June 2017

**CONFIDENTIAL -- SUBJECT TO UTAH PUBLIC SERVICE COMMISSION RULES R746-1-602 and 603**

**Wind Facility Data**

**Existing Wind Before Repowering**

	LGIA Limited		Energy (MWh)	Capacity Factor	Repower Capital 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	12/31/2018	n/a	n/a
Glenrock 3	39.0	39.0	113,438	33.2%	n/a	12/31/2018	12/31/2038	n/a
Seven Mile Hill 1	99.0	99.0	339,195	39.1%	n/a	12/31/2018	12/31/2038	n/a
Seven Mile Hill 2	19.5	19.5	71,224	41.7%	n/a	12/31/2018	12/31/2038	n/a
High Plains	99.0	99.0	306,145	35.3%	n/a	9/30/2019	12/31/2038	n/a
McFadden Ridge	28.5	28.5	93,101	37.3%	n/a	9/30/2019	12/31/2038	n/a
Dunlap Ranch	111.0	111.0	389,045	40.0%	n/a	10/1/2020	10/1/2040	n/a
Rolling Hills	99.0	99.0	271,635	31.3%	n/a	12/31/2018	12/31/2038	n/a
Leaning Juniper	100.5	100.5	233,592	26.5%	n/a	9/14/2016	9/14/2036	n/a
Marengo 1	140.4	140.4	360,279	29.3%	n/a	8/1/2017	8/1/2037	n/a
Marengo 2	70.2	70.2	166,742	27.1%	n/a	6/1/2018	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		Energy (MWh)	Capacity Factor	Repower Capital Investment (\$m)	Date PTC Ends	End-of-Life Date	Repower Date
	Capacity (MW)	Capacity (MW)						
Glenrock 1	107.8	99.0	340,930	39.3%		9/30/2029	10/1/2049	10/1/2019
Glenrock 3	42.2	39.0	126,291	37.0%		9/30/2029	10/1/2049	10/1/2019
Seven Mile Hill 1	108.6	99.0	389,364	44.9%		6/30/2029	7/1/2049	7/1/2019
Seven Mile Hill 2	21.4	19.5	81,576	47.8%		6/30/2029	7/1/2049	7/1/2019
High Plains	108.6	99.0	353,449	40.8%		10/31/2029	11/1/2049	11/1/2019
McFadden Ridge	31.3	28.5	107,670	43.1%		10/31/2029	11/1/2049	11/1/2019
Dunlap Ranch	121.7	111.0	438,289	45.1%		11/30/2030	12/1/2050	12/1/2020
Rolling Hills	106.8	99.0	300,755	34.7%		9/30/2029	10/1/2049	10/1/2019
Leaning Juniper	120.6	100.5	307,906	35.0%		9/30/2029	10/1/2049	10/1/2019
Marengo 1	156.0	140.4	485,842	39.5%		10/31/2029	11/1/2049	11/1/2019
Marengo 2	78.0	70.2	224,456	36.5%		10/31/2029	11/1/2049	11/1/2019
Goodnoe Hills	94.0	94.0	263,089	31.9%		9/30/2029	10/1/2049	10/1/2019
<b>Total</b>	<b>1,096.8</b>	<b>999.1</b>	<b>3,419,617</b>	<b>35.6%</b>				

**Increase/(Decrease) in Run-Rate Operating Costs Due to Repowering (\$m)**

	Run-Rate Capital		Run-Rate Operating Costs		Run-Rate Maintenance Expense	
	2017 (\$m)	2018 (\$m)	2017 (\$m)	2018 (\$m)	2017 (\$m)	2018 (\$m)
All Repowered Projects	(99.8)	(14.7)	2019 (\$18.6)	2020 (\$19.0)	2021 (\$18.4)	2022 (\$15.5)
All Repowered Projects	(82.2)	(20.3)	2031 (\$2.3)	2032 (\$1.8)	2033 (\$1.8)	2034 (\$1.8)
All Repowered Projects	2041	2042	2043	2044	2045	2046
	\$18.8	\$19.2	\$19.6	\$20.1	\$20.5	\$21.0
All Repowered Projects	2027 (\$3.6)	2028 (\$3.7)	2029 (\$1.1)	2030 (\$1.0)	2031 (\$1.1)	2032 (\$1.1)
All Repowered Projects	2037 (\$7.5)	2038 (\$5.0)	2039 (\$1.1)	2040 (\$1.0)	2041 (\$1.1)	2042 (\$1.0)
All Repowered Projects	2047 (\$29.8)	2048 (\$22.0)	2049 (\$12.9)	2050 (\$1.7)	2051 (\$9.1)	2052 (\$9.1)
All Repowered Projects	2057 (\$5.4)	2058 (\$13.5)	2059 (\$5.4)	2060 (\$13.5)	2061 (\$5.4)	2062 (\$13.5)
All Repowered Projects	2067 (\$29.8)	2068 (\$22.0)	2069 (\$12.9)	2070 (\$1.7)	2071 (\$9.1)	2072 (\$9.1)
All Repowered Projects	2077 (\$3.6)	2078 (\$3.7)	2079 (\$1.1)	2080 (\$1.0)	2081 (\$1.1)	2082 (\$1.1)
All Repowered Projects	2087 (\$7.5)	2088 (\$5.0)	2089 (\$1.1)	2090 (\$1.0)	2091 (\$1.1)	2092 (\$1.1)
All Repowered Projects	2097 (\$29.8)	2100 (\$22.0)	2099 (\$12.9)	2100 (\$1.7)	2101 (\$9.1)	2102 (\$9.1)

**Run-Rate Operations and Maintenance Expense**

	Run-Rate Capital		Run-Rate Operating Costs		Run-Rate Maintenance Expense	
	2017 (\$m)	2018 (\$m)	2017 (\$m)	2018 (\$m)	2017 (\$m)	2018 (\$m)
All Repowered Projects	2017 (\$0.0)	2018 (\$0.0)	2019 (\$0.6)	2020 (\$4.4)	2021 (\$3.9)	2022 (\$0.8)
All Repowered Projects	2029 (\$1.0)	2030 (\$1.0)	2031 (\$1.0)	2032 (\$1.0)	2033 (\$1.1)	2034 (\$1.1)
All Repowered Projects	2041	2042	2043	2044	2045	2046
	\$32.2	\$32.9	\$33.7	\$34.4	\$35.2	\$36.0
All Repowered Projects	2057 (\$3.6)	2058 (\$3.7)	2059 (\$1.1)	2060 (\$1.0)	2061 (\$1.1)	2062 (\$1.1)
All Repowered Projects	2067 (\$7.5)	2068 (\$5.0)	2069 (\$1.1)	2070 (\$1.0)	2071 (\$1.1)	2072 (\$1.1)
All Repowered Projects	2077 (\$29.8)	2078 (\$22.0)	2079 (\$12.9)	2080 (\$1.7)	2081 (\$9.1)	2082 (\$9.1)
All Repowered Projects	2087 (\$3.6)	2088 (\$3.7)	2089 (\$1.1)	2090 (\$1.0)	2091 (\$1.1)	2092 (\$1.1)
All Repowered Projects	2097 (\$7.5)	2100 (\$5.0)	2099 (\$1.1)	2100 (\$1.0)	2101 (\$1.1)	2102 (\$1.1)
All Repowered Projects	2107 (\$29.8)	2108 (\$22.0)	2109 (\$12.9)	2110 (\$1.7)	2111 (\$9.1)	2112 (\$9.1)