

Application No. 18-04-____
Exhibit PAC/509
Witness: Rick T. Link

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

PACIFICORP

REDACTED

Exhibit Accompanying Direct Testimony of

Rick T. Link

Wind Facility Data

April 2018

Wind-Facility Data

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	12/1/2050	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	
	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)
All Repowered Projects	99.0	(\$9.8)	99.0	(\$14.7)	99.0	(\$19.6)	99.0	(\$20.5)	99.0	(\$19.8)	99.0	(\$18.0)	99.0	(\$17.9)	99.0	(\$15.2)	99.0	(\$13.2)	99.0	(\$11.4)	99.0	(\$9.6)	99.0	(\$9.9)
All Repowered Projects	99.0	(\$8.7)	99.0	(\$4.4)	99.0	(\$2.3)	99.0	(\$1.8)	99.0	(\$1.8)	99.0	(\$1.8)	99.0	(\$1.9)	99.0	(\$1.0)	99.0	(\$0.7)	99.0	(\$0.8)	99.0	(\$0.9)	99.0	(\$1.0)
All Repowered Projects	99.0	(\$18.6)	99.0	(\$19.0)	99.0	(\$19.4)	99.0	(\$19.9)	99.0	(\$20.3)	99.0	(\$20.8)	99.0	(\$21.3)	99.0	(\$21.8)	99.0	(\$22.5)	99.0	(\$23.0)	99.0	(\$23.5)	99.0	(\$24.0)

Run-Rate Operations and Maintenance Expense

	2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028	
	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)	Capacity (MW)	Cost (\$/MW)
All Repowered Projects	99.0	\$0.0	99.0	\$0.0	99.0	\$3.9	99.0	\$12.1	99.0	\$12.8	99.0	\$9.6	99.0	\$9.5	99.0	\$9.4	99.0	\$9.2	99.0	\$9.1	99.0	\$9.0	99.0	\$8.8
All Repowered Projects	99.0	\$5.9	99.0	\$2.2	99.0	\$1.2	99.0	\$1.2	99.0	\$1.2	99.0	\$1.2	99.0	\$1.3	99.0	\$2.1	99.0	\$5.5	99.0	\$13.7	99.0	\$28.2	99.0	\$29.5
All Repowered Projects	99.0	\$32.3	99.0	\$33.1	99.0	\$33.8	99.0	\$34.6	99.0	\$35.4	99.0	\$36.2	99.0	\$37.1	99.0	\$37.9	99.0	\$39.9	99.0	\$42.6	99.0	\$45.9	99.0	\$49.5