WUTC DOCKET: UE-230172 & UE-210852
EXHIBIT: RMM-5
ADMIT ☑ W/D ☐ REJECT ☐

Exh. RMM-5
Docket UE-230172
Witness: Robert M. Meredith

BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION, Complainant, v. PACIFICORP dba PACIFIC POWER & LIGHT COMPANY Respondent.	Docket UE-230172

PACIFICORP

EXHIBIT OF ROBERT M. MEREDITH

Renewable Future Peak Credit Calculation

March 2023 (REFILED April 19, 2023)

PacifiCorp
State of Washington
Classification of Fixed Generation Costs

	Lithium-Ion Battery, 50 MW, 200 MWh		
1	Fixed Cost per kW-year[1]	$223.65	
2	Cost per MWh to Charge[2]	$75.83	
3	Hours of Operation	12	
4	Storage Efficiency[2]	85%	
5	Total Cost of Charging	$1.07	Line 2 / 1000 / Line 4 X Line 3
6	Total Cost 1 kW-year, 12 Hours	$224.72	Line 1 + Line 5
	Medicine Bow, WY, 200 MW Wind, CF: 43.6% (100%PTC)		
7	Fixed Cost per kW-year[3]	$120.28	
8	Average Output Requirement @ 65.0% Load Factor[4]	5,694	8,760 X 85.4%
9	Output @ 43.6% Capacity Factor[3]	3,819	8,760 X 43.6%
10	Total kW Capacity Required	1.49	Line 8 / Line 9
11	Total Fixed Costs	$179.32	Line 7 X Line 10
12	Demand Related Cost @ 30% Capacity Contribution[5]	$100.03	Line 10 X 30% X Line 1
13	Total Energy Related Cost	$79.29	Line 11 - Line 12
14	Demand Component	74%	Line 6 / (Line 6 + Line 13)
15	Energy Component	26%	100% - Line 14

Footnotes -

1 - See page 177 of PacifiCorp's 2021 Integrated Resource Plan, Volume I.

2 - See page 183 of PacifiCorp's 2021 Integrated Resource Plan, Volume I.

3 - See page 176 of PacifiCorp's 2021 Integrated Resource Plan, Volume I.

4 - 65.0% is the load factor for the PacifiCorp system for the 12 month period ended June 2022.

5 - See page 220 of PacifiCorp's 2021 Integrated Resource Plan, Volume II.