

Exh. RMM-5  
Docket UE-23\_\_\_\_  
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-23\_\_\_\_

**PACIFICORP**

**EXHIBIT OF ROBERT M. MEREDITH**

**Renewable Future Peak Credit Calculation**

**March 2023**

**PacifiCorp**  
**State of Washington**  
**Classification of Fixed Generation Costs**

<b>Lithium-Ion Battery, 50 MW, 200 MWh</b>
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1	Fixed Cost per kW-year <sup>1</sup>	\$223.65	
2	Cost per MWh to Charge <sup>2</sup>	\$75.83	
3	Hours of Operation	12	
4	Storage Efficiency <sup>2</sup>	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

<b>Medicine Bow, WY, 200 MW Wind, CF: 43.6% (100%PTC)</b>
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7	Fixed Cost per kW-year <sup>3</sup>	\$120.28	
8	Average Output Requirement @ 65.0% Load Factor <sup>4</sup>	5,694	8,760 X 85.4%
9	Output @ 43.6% Capacity Factor <sup>3</sup>	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 <sup>5</sup>	\$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.