

BEFORE THE

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,

Complainant,

v.

PACIFICORP d/b/a PACIFIC POWER
AND LIGHT COMPANY,

Respondent.

DOCKET UE-230172
(*Consolidated*)

In the Matter of

ALLIANCE OF WESTERN ENERGY
CONSUMERS'

Petition for Order Approving Deferral of
Increased Fly Ash Revenues

DOCKET UE-210852
(*Consolidated*)

EXHIBIT LDK-7

**EXCERPT OF WASHINGTON COST OF SERVICE COLLABORATIVE
PRODUCTION AND TRANSMISSION CLASSIFICATION SCENARIOS
(FEB. 21, 2019)**



Washington Cost of Service Collaborative Production and Transmission Classification Scenarios February 21, 2019



Scenario 3 - Renewable Future Peak Credit

- Based upon a hypothetical scenario where marginal load is served with batteries and wind
- Capacity need met with battery
- Energy need met with wind
- Wind cost reduced for its anticipated capacity contribution multiplied by the fixed cost of a battery
- Produces a classification of 71% demand and 29% energy

Scenario 3 - Renewable Future Peak Credit (continued)

PacifiCorp			
State of Washington			
Classification of Production and Transmission Costs			
Lithium Ion Battery Storage (7.2 MWh/day)			
1	Fixed Cost per KW	\$345.21	
2	Cost per MWh to Charge	\$22.02	
3	Hours of Operation	200	
4	Storage Efficiency	85%	
5	Total Cost of Charging	\$5.18	Line 2 / 1000 / Line 4 X Line 3
6	Total Cost 1 KW, 200 Hours	\$350.39	Line 1 + Line 5
2.0 MW Turbine 38% CF WA, 2022 (80% PTC)			
7	Fixed Cost per kW	\$141.70	
8	Average Output Requirement @ 53.6% Load Factor	4,695	8,760 X 53.6%
9	Output @ 38% Capacity Factor	3,329	8,760 X 38%
10	Total kW Capacity Required	1.41	Line 8 / Line 9
11	Total Fixed Costs	\$199.87	Line 7 X Line 10
12	Demand Related Cost @ 11.8% Capacity Contribution	\$57.46	Line 10 X 11.8% X Line 1
13	Total Energy Related Cost	\$142.41	Line 11 - Line 12
14	Demand Component	71%	Line 6 / (Line 6 + Line 13)
15	Energy Component	29%	100% - Line 14