

EXH. BTC-5
DOCKETS NOS. UE-240004/UG-240005
2024 PSE GENERAL RATE CASE
WITNESS: BRADLEY CEBULKO

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

DOCKET NOS. UE-240004 and UG-240005
(Consolidated)

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**EXHIBIT BTC-5 (NONCONFIDENTIAL) TO THE
RESPONSE TESTIMONY OF**

BRADLEY CEBULKO

**ON BEHALF OF
JOINT ENVIRONMENTAL ADVOCATES**

August 6, 2024

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**Dockets UE-240004 & UG-240005
Puget Sound Energy
2024 General Rate Case**

JEA DATA REQUEST NO. 059:

Re: Decarbonization

Please refer to PSE's 2023 updated Gas Decarbonization Study filed on December 22, 2023, in Docket UE-220066, slides 5 and 7.

- a) Please provide the underlying workpapers used to calculate the NPV of the "Electric Portfolio Costs" including an annual breakdown of capital and operating costs for each portfolio.
- b) Please also provide the assumptions for capital and operating costs of each of the incremental generation units added in each portfolio (e.g., CETA Qualifying Peaking Capacity, Wind, Nuclear, etc.)

Response:

- (a) Please see Attachment A to Puget Sound Energy's ("PSE") Response to JEA Data Request No. 059 for workpapers used to calculate the NPV of Electric Portfolio Cost for the Air-Source Heat Pump.

Please see Attachment B to PSE's Response to JEA Data Request No. 059 for workpapers used to calculate the NPV of Electric Portfolio Cost for the Cold Climate Heat Pump.

Please see Attachment C to PSE's Response to JEA Data Request No. 059 for workpapers used to calculate the NPV of Electric Portfolio Cost for the Hybrid Heat Pump.

Please see Attachment D to PSE's Response to JEA Data Request No. 059 for workpapers used to calculate the NPV of Electric Portfolio Cost for the mix of Cold Climate Heat Pump and Hybrid Heat Pump.

The NPV can be found in the Evaluation Summary Tab C24.

The breakdown in costs by each new resource can be found in the tabs as follows:

FixCostBase includes fixed O&M costs
FixCostAux1 includes the revenue requirement related to capital investment
FixCostAux2 includes fixed transmission costs
VarCost Includes variable costs
VarCostAux1 includes production tax credits
VarCostAux2 includes variable transmission costs

(b) Please see Attachment E to PSE's Response to JEA Data Request No. 059 for the cost assumptions by resource type for capital and operating expenses.

**ATTACHMENTS A - E to
PSE's Response to
JEA Data Request No. 059**