EXH. GA-1T DOCKETS UE-240004/UG-240005 2024 PSE GENERAL RATE CASE WITNESS: GILBERT ARCHULETA

# BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

Docket UE-240004 Docket UG-240005

PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF

**GILBERT ARCHULETA** 

ON BEHALF OF PUGET SOUND ENERGY

**FEBRUARY 15, 2024** 

# **PUGET SOUND ENERGY**

# PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF

# **GILBERT ARCHULETA**

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# **PUGET SOUND ENERGY**

# PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF GILBERT ARCHULETA

### LIST OF EXHIBITS

Exh. GA-2	Professional Qualifications of Gilbert Archuleta
Exh. GA-3	2021 Virtual Power Plant RFP
Exh. GA-4	2021 Distributed Energy Resources Request for Information
Exh. GA-5	2022 Distributed Energy Resources Request for Proposals
Exh. GA-6	2022 Distributed Energy Resources Request for Proposals: Proposal Summary
Exh. GA-7	2023 CEIP Update – Chapter Two, Section 5.2 Demand Response Target and Appendix D: Quantitative and Qualitative Analysis
Exh. GA-8C	The Independent Evaluator's Final Report on Puget Sound Energy's 2022 Targeted Distributed Energy Resources Request for Proposals
Exh. GA-9C	Demand Response Agreement – AutoGrid Systems, Inc.
Exh. GA-10C	Demand Response Agreement – Oracle America, Inc.
Exh. GA-11C	DER RFP EMC Informational Presentation
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Exh. GA-13C	Demand Response Agreement – Enel X North America, Inc.

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PREFILED TESTIMONY (NONCONFIDENTIAL) OF GILBERT ARCHULETA

### I. INTRODUCTION

- Q. Please state your name, business address, and position with Puget Sound Energy.
- A. My name is Gilbert Archuleta, and my business address is Puget Sound Energy,
   P.O. Box 97034, Bellevue, Washington 98009-9734. I am employed by Puget
   Sound Energy ("PSE") as Director, Customer Energy Management.
- Q. Have you prepared an exhibit describing your education, relevant employment experience, and other professional qualifications?
- A. Yes, I have. It is Exhibit GA-2.
- Q. What are your duties as Director, Customer Energy Management for PSE?
- A. I lead PSE's Customer Energy Management team focused on cost-effective energy efficiency and demand response ("DR") customer programs.
- Q. What is the purpose of your testimony?
- A. The purpose of my testimony is to:

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- Describe PSE's DR Request for Proposal ("RFP") process, selected costeffective megawatt ("MW") target, and associated contracts and customer programs;
- explain how PSE will engage named communities in DR programs;
- present PSE's current and proposed Performance Incentive Mechanism,
   and
- demonstrate that PSE's investment in the DR programs was prudent and that the Washington Utilities and Transportation Commission
   ("Commission") should approve recovery of the three third-party
   implementer Power Purchase Agreement ("PPA") costs and earnings.<sup>1</sup>

### II. OVERVIEW OF PSE'S DEMAND RESPONSE PROGRAM

# Q. Please explain the meaning of DR.

A. Demand response is broadly defined as a measure for reducing energy load in response to supply constraints, generally during periods of peak demand. DR provides an opportunity for consumers to play a significant role in the operation of the energy grid by reducing or shifting their energy usage during peak periods in response to curtailment requests, time-based rates, or other forms of financial

<sup>&</sup>lt;sup>1</sup> The Commission previously approved an accounting petition to recover PSE's DR administrative costs through the Schedule 120 – Electric Conservation Rider and the biennial conservation planning process. See Order 01 Granting Accounting Petition in Docket UE-230028 (Feb. 23, 2023).

Implementation Plan ("CEIP"). A copy of the 2022 RFP is provided as Exh. GA-5. PSE received turnkey DR proposals from seven unique bidders in late March 2023. Several of the proposals overlapped in capacity and customer potential. Details of the proposals received in response to the RFPs are provided in Exhibit GA-6, the 2022 Distributed Energy Resources Request for Proposal: Proposal Summary. While some vendors were not selected due to overlap in the type of DR programs submitted in the RFP process, PSE selected specific vendors with overlapping activity in the Behavioral Demand Response ("BDR") and Business Demand Response sectors of its DR portfolio to achieve equitable program accessibility for all customer segments.

### Q. Please explain how PSE established the overall DR capacity target.

A. The DR capacity target of roughly 24 MW for 2022-2025 was initially based off the findings in PSE's 2021 IRP. The IRP was filed in final form in April 2021 in Docket UE-200304. The DR target was then filed with the 2021 CEIP in Docket UE-210795 later that year. The Commission approved PSE's CEIP with conditions in Final Order 08 of Docket UE-210795, issued on June 6, 2023.

Condition 4 of Final Order 08 is related to the acquisition of cost-effective DR. The Commission expressed concern over the interim DR target of 24 MW by 2025, finding that it was unreasonably low and did not reflect all cost-effective DR available. Therefore, the Commission instructed PSE to include in its target all cost-effective DR bids received in response to the RFP.

PSE received 161 MW<sup>2</sup> in turnkey DR proposals in response to the 2022 DER RFP. During its evaluation, PSE first noted that some proposals did not meet the threshold for cybersecurity and eliminated those projects from consideration.

Second, to avoid overlap in customer segments, PSE selected three proposals reflecting a total of 86 MW of available cost-effective DR. Details on the selection process and compliance with the DR condition are provided in Exh. GA-7: PSE's 2023 CEIP Update – Chapter Two, Section 5.2 Demand Response Target and Appendix D: Quantitative and Qualitative Analysis. Table 1: 2022 RFP DR Turnkey Proposals summarizes the selection process.

<sup>&</sup>lt;sup>2</sup> In Exhibit GA-7, Section 5.2.2, this number is incorrectly shown to be 186 MW.

**Table 1: 2022 RFP DR Turnkey Proposals** 

Program Bidder	Cumulative 2025 Winter MW	Customer Segment	Program Type	Societal Cost Test	Combined Score (Sort)	Selected for Contracting	2025 Targeted Winter Capacity MW	Reason for Not Selecting
Enel X	30	Business	Demand Response – Bundled	10.76	66.42	Yes	30	
Bidder A	Less than 10 MW	Residential	Demand Response – Bundled	4.85	58.94	No		Same customer segment as AutoGrid with much less MW provided
Oracle	4* (10)	Residential	Behavioral	4.82	55.23	Yes	10*	
AutoGrid	33.6	Majority Residential + Business	Demand Response  Excluding Battery Program	4.41	42.48	Yes	33.6	
AutoGrid (included with the DR proposal, but analyzed separately	12	Residential	Battery	0.82	42.48	Yes	12	
Bidder B	Greater than 10 MW	Majority Business + Residential	Demand Response – Bundled	2.85	40.35	No		Same customer segment as Enel X, but has a worse score and less MWs
Bidder C	Greater than 10 MW	Majority Business + Residential	Demand Response – Bundled	3.00	34.26	No		Same customer segment as Enel X, but has a worse score and less MWs
						Total	85.6	

<sup>\*</sup>MWs were increased from 4 to 10 in contract negotiations.

Q. Please describe the analysis PSE conducted to inform its decision on the DR proposals.

A. PSE based its evaluation of resources submitted in response to the 2022 DER RFP on a combined quantitative and qualitative assessment of all proposals that met the minimum requirements of the solicitation. Taken together, the quantitative and qualitative evaluation criteria assessed the feasibility of proposals and measured each proposal's ability to satisfy compatibility with resource need, cost minimization, contribution to Clean Energy Transformation Act ("CETA") customer benefit and equity provisions, risk management, and strategic and financial considerations.

The three turnkey DR proposals (provided by AutoGrid, Oracle, and Enel X) were highly ranked and cost-effective. These three programs also did not extensively overlap with the customer segments they were separately targeting. PSE short-listed these three proposals for the Concurrent Analysis with the 2021 All-Source RFP short-listed projects. The remaining programs not short-listed in the 2022 DER RFP did extensively overlap in targeted customer segments (e.g., one bidder in the residential sector and two bidders targeting the same business customer base).

The quantitative metrics assessed were expected costs associated with the capacity and energy prices offered for each response. PSE used the DER Benefit

Cost Analysis ("BCA") tool developed for the 2021 CEIP to model the costs and benefits of each proposal. The BCA model analyzes both the utility's and customers' economic perspectives and the interdependencies between the two. The BCA was selected as the primary modeling tool for the DER RFP for this ability to model both customer and utility economic impact as well as calculate cost tests that align with practices outlined in the National Standard Practice Manual ("NSPM"). To align with existing PSE modeling practices, where possible, the BCA utilizes the same base Aurora modeling assumptions used to develop the 2021 IRP and, when possible, updated modeling assumptions from the 2023 Electric Progress Report.

## Q. What type of DR Programs has PSE contracted for?

- A. PSE currently offers four types of DR Programs through three third-party implementers:
  - 1. Flex Smart: Residential Automated Demand Response ("ADR")
  - 2. Flex Rewards: BDR Incentivized
  - 3. Flex Events: BDR Non-Incentivized
  - 4. Business Demand Response Program ("BDRP")

Table 2 summarizes PSE's DR customer programs by third-party implementer.

**Flex Events** 

Incentivized:

Non-

**BDR** 

Oracle

Flex Rewards

Incentivized:

**BDR** 

AutoGrid

**Business** 

Demand

**Business** 

Curtailment

Enel X & AutoGrid

Response Program (BDRP)

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**Program** 

**Program** 

Description

**Third-Party** 

Implementer

Name

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## Q. Please summarize the programs provided by AutoGrid.

Flex Smart

Residential:

**ADR** 

AutoGrid

A. AutoGrid is contracted to provide the Flex Smart, Flex Rewards, and Business Demand Response programs. These programs plan to deliver 46 MWs of winter peak reduction as part of the 2025 total 86 MW cumulative target. Additionally, these programs plan to deliver 69 MWs of 2025 summer peak reduction. A contract with AutoGrid was signed on July 14, 2023, and customer enrollment began on August 1, 2023. Dispatchable events became available on November 1, 2023. These programs are intended to reach an estimated 120,000 residential customers via thermostats, water heat, electric vehicle ("EV") charging, battery energy storage systems ("BESS"), and incentivized BDR.

Flex Smart customers must enroll their existing or new smart appliances (e.g., thermostats, water heaters, etc.) through the original equipment manufacturer's ("OEM") website or app, consistent with the industry practice. To maximize customer participation, PSE plans to partner with all OEMs (e.g., Nest,

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Honeywell) that can interface with AutoGrid Flex. During a peak event, a signal is dispatched to the connected devices to curtail their usage.

Flex Rewards customers must enroll in incentivized BDR. During a peak event, communications are sent to these customers asking them to curtail their usage. After the peak event, actual curtailment is calculated based on peak reduction compared to baseline.

BDRP customers will create customized curtailment plans to reduce a set nomination of energy when called upon during a peak event. The BDRP is intended to reach 150-200 business customers through 2025, of which AutoGrid will be responsible for a portion, via customized curtailment plans, performancebased incentives, and direct marketing. During a peak event, PSE dispatches a communication to these business customers asking them to curtail their usage. After the peak event, actual curtailment is calculated based on peak reduction compared to baseline.

The programs are intended to provide over 30 percent of energy benefit to named communities customers.

- Please summarize the programs provided by third-party implementer Q. Oracle.
- Oracle is contracted to provide the Flex Events program. The program plans to A. deliver 10 MWs of winter peak reduction as part of the 2025 total 86 MW

cumulative target. Additionally, these programs plan to deliver 12 MWs of 2025 summer peak reduction. A contract with Oracle was signed on April 3, 2023, and it was launched in August of 2023. This opt-out non-incentivized program is intended to reach 500,000 residential customers and it uses a behavioral science-based peer comparison methodology. During a peak event, a communication is dispatched to these customers asking them to curtail their usage. After a peak event, customers receive an email comparing their performance in relationship to their "neighbors" in similar sized homes. The program is intended to reach over 30 percent of named communities customers with no associated customer costs.

## Q. Please summarize the program provided by third-party implementer Enel X.

A. Enel X is contracted to provide the Business Demand Response Program ("BDRP"). The program plans to deliver 30 MWs of winter peak reduction as part of the 2025 total 86 MW cumulative target. Additionally, these programs plan to deliver 25 MWs of 2025 summer peak reduction. A contract with Enel X was signed in September 2023, and customer enrollment began on October 1, 2023. Dispatchable events became available on January 2, 2024. The BDRP is intended to reach 150-200 business customers, of which Enel X will be responsible for the majority, via customized curtailment plans, performance-based incentives, and direct marketing. During a peak event, PSE dispatches a communication to these business customers asking them to curtail their usage. After the peak event, actual curtailment is calculated based on peak reduction compared to baseline.

## Q. How is PSE planning to incentivize customer participation?

A. Flex Smart residential customers enrolling in ADR will be compensated annually or seasonally for each device enrolled. Flex Rewards residential customers enrolling in BDR will be compensated annually or seasonally for actual peak reductions. Customer incentives vary by program type and are depicted in Table 3 below. Incentive variances are attributed to the fact that the types of devices that may enroll in DR programs have different levels of curtailment achievement capabilities. As such, devices with higher kilowatt ("kW") capacity potential receive larger rewards. Incentive levels were set by assessing national averages, implementer recommendations, and portfolio growth targets.

**Table 3: DR Residential Customer Incentives** 

Flex Smart (ADR)							
Device Type Enrollment		nent Reward	Anniversary Reward		ard	Limited-Time Offer Enrollment Bonus	
Smart Thermostat	\$50/the	rmostat	\$20/season			\$25	
Baseboard Thermostat	\$20/unit	t	\$10/seaso	n		\$10	
		New in 20	24 - 2025				
Mini-Split Controls	\$45/hou	ise	\$25/seaso	n		TBD	
EVs and EV Chargers	\$50/house		\$10/month participated		ated	TBD	
Water Heaters & Controls	\$50/unit	\$50/unit \$25/		\$25/year		TBD	
BESS	TBD	ГВО		TBD		TBD	
		Flex Rewa	ards (BDR)				
Enrollment Reward	Seaso	nal Reward		Limited	mited Time Offer Enrollment Bonus		
\$25	\$1.00/kWh shed per seaso		n	\$10			
Additional Rewards							
Type of Reward	of Reward Amount			Planned Launch Date		Launch Date	
Customer Enrollment Referr	\$10/customer enrolled (no limit) No		November 2023				

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bills by participating in energy reduction events by following provided energy saving actions, such as adjusting their thermostat and washing clothes in cold water.

Flex Events residential customers will have the opportunity to reduce their energy

Business Demand Response Program customers will develop customized curtailment plans with both technology automation and behavioral solutions. BDRP customers' total incentive will be based upon their agreed-upon committed load reduction capacity multiplied by the average of their participation across all events within a given season. For example, if a customer commits to 500 kW of load shed during events and throughout the four events of the season they average 95 percent participation, they would be paid a maximum of \$35/kW x 500kW x 95%. Customers will receive payment in the form of a check at the conclusion of the season.

- Q. What is PSE's current timeline for implementing the selected DR proposals?
- A. The current timeline for rolling out DR proposals is displayed in Figure 1.

- Q. Is PSE proposing any change to the metric to evaluate PSE's performance in the area of demand response over the duration of the multiyear rate plan?
- A. Yes. The demand response performance metric supported by my testimony is summarized below in Table 4.

**Table 4: Demand Response Metrics** 

Metric	Metric Definition	Revision from 2022	Metric Calculation					
	Load Management							
Total Electric Peak Load Management Savings (MW)	Winter and summer MW reductions in the Company's resource adequacy need that are attributable to all customer demand response programs.	Modify to seasonal vs. annual (winter season is typically Nov. thru March.)	Peak capacity available from customer demand response programs.					

- Q. Please describe PSE's existing Total Electric Peak Load Management
  Savings (MW) performance metric.
- A. PSE's Total Electric Peak Load Management Savings (MW) performance metric measures annual MW reductions in PSE's resource adequacy need that are attributable to all peak load reduction programs excluding Energy Efficiency programs.
- Q. How do you proposed that the calculation of this metric be modified?
- A. PSE proposes to modify this metric to measure winter and summer MW reductions in PSE's resource adequacy need that are attributable to all customer demand response programs. Demand response programs operate in two distinct seasons. The summer season (May-September) and the winter season (November-March), with April and October acting as shoulder months. Each season has a separate system peak, based on differing usage patterns. Customers are enrolled in summer and/or winter seasons, and it is more appropriate to measure available demand response peak capacity for the summer season and for the winter season.
- Q. Why is it appropriate to change the calculation of this metric in the context of this rate plan?
- A. The original metric did not account for seasonality or that the winter season crosses from one calendar year into the next. PSE's proposed adjustment will align the metric to the program performance, specifically in the winter season.

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### III. **EQUITY**

- Q. Please explain how named communities will have the opportunity to participate equitably in PSE DR Programs.
- Beginning in 2023, PSE prioritized the participation of named communities in DR A. offerings by implementing the following action plan:
  - Wi-Fi-capable smart thermostats, line voltage-connected thermostats, and hot water CTA-2045 water heater modules will be provided to customers who need them to participate in Flex Smart. These devices will enable space and water conditioning devices such as HVAC systems and water heaters to receive DR event notifications from PSE and adjust their heating values accordingly. PSE plans to roll out a device provisioning service in 2024.
  - Flex Events has been rolled out to named communities as of August 2023, allowing them to voluntarily participate in Flex Events and receive feedback on the benefits of their participation.
  - Co-deployment with PSE's Low Income Weatherization and Efficiency Boost programs is also planned for operationalization in 2024 to expand accessibility of DR programs through existing functional channels. As a means of codeployment, PSE will provide customers with DR-compatible equipment such as smart thermostats, line voltage-connected thermostats, and hot water CTA-2045 water heater modules.

- Q. How will PSE inform customers in named communities of their ability to participate in PSE's DR program design?
- A. To encourage Named Community customers to participate in DR program design,
  PSE plans the following:
  - **Direct Outreach**: PSE has engaged a public participation consultant to conduct interviews, focus groups, and Q&A sessions with community-based organizations ("CBOs") and customers in named communities in its service territory to solicit input around barriers to participation and program design preferences for upcoming DER/DR programs.
  - Leveraging Existing Resources: Presentations have been, or will be, made to
    the Low-Income Advisory Committee ("LIAC"), Equity Advisory Group
    ("EAG"), and Conservation Resource Advisory Group ("CRAG") to solicit
    input on the public participation process.

86 MW 2025 CEIP target.

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- The proposed PIM incentive bands are based on the previously agreed-upon and existing PIM incentive bands. The dead band (less than 105 percent) provides incentive to achieve forecasted capacity reductions. The 105 and 115 percent thresholds significantly provide for incremental growth beyond the current forecast, and existing contracts.
- Q. How did PSE determine the appropriate level of financial incentives under the PIM and why are they reasonable?
- A. The financial incentives for the winter season PIM target of 149 MWs are in line with contracted program costs of increasing available capacity at an accelerated rate. The \$3 million cap reflects the increased program costs as more MWs are acquired.

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### V. PSE'S DECISION TO ENTER INTO THE DR PPAS WAS PRUDENT

## **The Commission Prudency Standard**

### Q. What is PSE's understanding of the Commission's prudence standard?

A. In PSE's 2003 Power Cost Only Rate Case proceeding, Docket UE-031725, the Commission reaffirmed the standard it applies in reviewing the prudence of power generation asset acquisitions:

> The test the Commission applies to measure prudence is what a reasonable board of directors and company management would have decided given what they knew or reasonably should have known to be true at the time they made a decision. This test applies both to the question of need and the appropriateness of the expenditures. The company must establish that it adequately studied the question of whether to purchase these resources and made a reasonable decision, using the data and methods that a reasonable management would have used at the time the decisions were made.<sup>3</sup>

In addition to this reasonableness standard, the Commission has cited several specific factors that inform the question of whether a utility's decision to acquire a new resource was prudent. These factors include the following:

- First, the utility must determine whether new resources are necessary.4
- Once a need has been identified, the utility must determine how to fill that need in a cost-effective manner. When a utility is considering the purchase of a resource, it must evaluate that resource against the standards of what other purchases are

<sup>&</sup>lt;sup>3</sup> WUTC v. Puget Sound Energy, Docket UE-031725, Order 12 ¶ 19 (Apr. 7, 2004).

<sup>&</sup>lt;sup>4</sup> See e.g., WUTC v. Puget Sound Power & Light Co., Docket UE-921262, et al., Nineteenth Supplemental Order at 11 (Sept. 27, 1994).

available, and against the standard of what it would cost to build the resource itself.<sup>5</sup>

- The utility must analyze the resource alternatives using current information that adjusts for such factors as end effects, capital costs, impact on the utility's credit quality, dispatchability, transmission costs, and whatever other factors need specific analysis at the time of a purchase decision.<sup>6</sup>
- The utility should inform its board of directors and/or management about the purchase decision and its costs. The utility should also involve the board of directors and/or management in the decision process.<sup>7</sup>
- The utility must keep adequate contemporaneous records that will allow the Commission to evaluate its actions with respect to the decision process. The Commission should be able to follow the utility's decision process; understand the elements that the utility used; and determine the manner in which the utility valued these elements.<sup>8</sup>
- Q. Do the resource acquisitions PSE is seeking recovery for in this case meet the Commission's prudency standard?
- A. Yes. As I explain below, the DR PPAs will help PSE meet its DR obligations set forth in CETA and the specific Commission direction in Order 08. Among the responses to the RFPs, the PPAs were the best resources in terms of the quantitative and qualitative metrics defined in the RFP and in reducing customer segment overlap between DR providers. PSE performed the analyses and decision-making processes expected by the Commission; PSE's management was closely involved in the decision to acquire the resources; and PSE's decision-making

<sup>&</sup>lt;sup>5</sup> *Id*. at 11.

<sup>&</sup>lt;sup>6</sup> *Id.* at 2, 33-37, 46-47.

<sup>&</sup>lt;sup>7</sup> *Id.* at 37, 46.

<sup>&</sup>lt;sup>8</sup> *Id.* at 2, 37, 46.

process throughout the RFP was thoroughly documented in Exh. GA-8C: The Independent Evaluator's Final Report on Puget Sound Energy's 2022 Targeted Distributed Energy Resources Request for Proposals. The independent evaluator concludes in the Final Report that the selected offers represent the lowest reasonable cost package of offers when considering factors such as offer size; need; customer overlap; and risk factors such as PSE's IT requirements and that the qualification and ranking of bids was done in conformance with the RFP rules.

### **B.** The AutoGrid PPA Is Prudent

### 1. **Project overview.**

### Q. Please describe the AutoGrid PPA.

A. As described in Section I, AutoGrid is the implementation vendor responsible for PSE's incentivized residential DR programs. The programs are: Flex Smart (ADR) and Flex Rewards (BDR). AutoGrid is also one of two vendors responsible for the implementation of PSE's BDRP.

### Q. Was the AutoGrid PPA a resource considered in the 2022 DER RFP?

A. Yes, the AutoGrid proposal was submitted, with all other competing proposals by the March 21, 2022, deadline set for the 2022 DER RFP. AutoGrid's proposal went through the entire RFP evaluation process. The proposal was selected as part of the final short list because of its cost effectiveness and overall ranking based on quantitative and qualitative metrics measured in the RFP. PSE and AutoGrid were in contract negotiations between May and July of 2023. A contract with AutoGrid

was signed on July 14, 2023, and customer enrollment began on August 1, 2023. Dispatchable events became available on November 1, 2023. The contract is provided as Exhibit GA-9C.

### Q. What are the terms of the AutoGrid PPA?

A. The terms of the AutoGrid PPA (Exh. GA-9C) include (i) the recruitment and aggregation of customers into several of PSE's DR programs (Flex Smart, Flex Rewards, BDRP); (ii) development of supporting program collateral; (iii) responsibility for issuing customer incentive payments, providing additional support for meeting a minimum 30 percent benefit of program activities to named communities; DR event notification development and delivery; and (iv) VPP integration, along with measurement and verification reporting associated with assessing the results of DR events. AutoGrid will receive performance-based payments from PSE based on a per MW capacity and a fixed per MW energy associated with its achieved curtailment respective to each program it supports.

### Q. What are the rate year costs of the AutoGrid PPA?

A. Table 4 below summarizes the seasonal load reduction targets and associated costs. The contracted MW load reduction may exceed the original target to achieve committed capacity.

**Table 4: AutoGrid PPA Rate Year Costs** 

Year	20	25	2026		
Season	Summer	Winter	Summer	Winter	
Contracted Load Reduction (MWs)	69.2	46.2	97	66.7	
Seasonal Cost	\$6,964,771	\$4,649,890	\$6,563,526	\$4,513,270	
Program Year Total Cost (Summer/Winter)	\$11,6	14,661	\$11,076,796		

### 2. <u>Demonstration of need.</u>

- Q. What is the AutoGrid PPA's contribution to meeting PSE's clean energy need under CETA?
- A. One hundred percent of AutoGrid's PPA contributes to meeting PSE's clean energy need under CETA by reducing or shifting consumption to mitigate or negate the need for PSE to rely on peaking plants to fill delivery demand gaps.
- Q. Please summarize the benefits that PSE's customers will receive from the AutoGrid PPA.
- A. As described in Section I of my testimony, the AutoGrid PPA provides a meaningful contribution toward meeting PSE's significant DR needs by 2025.
  The AutoGrid PPA is part of a lowest reasonable cost portfolio solution based on an alternative analysis performed throughout the 2022 DER RFP evaluation and negotiation period. Enrolled customers receive incentives related to their

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participation in DR programs and are provided feedback on their performance during a DR event.

### 3. Evaluation of alternatives.

- Q. How did PSE select the AutoGrid PPA over other alternatives considered as part of the 2022 DER RFP?
- A. The AutoGrid proposal ranked among the top DR proposals provided based on the quantitative and qualitative metrics measured in the RFP evaluation, as well as its high Societal Cost Test score and large capacity offering. Reference Table 1: 2022 RFP DR Turnkey Proposals for a summary of the RFPs.

AutoGrid was selected for the residential ADR market based on its costeffectiveness, overall score, and ability to deliver higher MWs. PSE did not
choose Bidder A (even though it initially showed up as more cost-effective) as it
was targeting the same residential ADR market as AutoGrid but was unable to
increase its much lower MW capacity. With consideration to the above, and in
addition to the fact that selecting both bidders would have cannibalized the
residential market and added a considerable level of unnecessary friction to the
customer experience, PSE committed to a single ADR vendor with AutoGrid.

Additionally, AutoGrid was selected to provide a portion of the BDRP MW target. Alternative Bidders B and C offered business DR but were not as cost-effective or comprehensive as the bids received from AutoGrid and Enel X. Due to AutoGrid and Enel X's national accounts, unique business models, and better-

rated cost-effectiveness, PSE moved forward with both Enel X and AutoGrid's bids to serve business customers.

## 4. **Board of Directors or management involvement.**

- Q. Describe how PSE's Board of Directors or management was involved in the decision to enter into the AutoGrid PPA.
- A. At the end of PSE's evaluation process for the 2022 DER RFP, it provided the results to the Energy Management Committee ("EMC"), a board of senior representatives delegated with approving major transmission, distribution, and generation projects. The first meeting on September 30, 2022, presented the resource acquisitions team's findings and recommendations. This presentation is provided as Exh. GA-11C: DER RFP EMC Informational Presentation. A second meeting was held on October 27, 2022, during which the EMC voted to approve the DER RFP short list portfolio and to move forward with negotiations. This presentation is provided as Exh. GA-12C: DER RFP EMC Decisional Presentation. As PSE's procurement process does not require Board approval for contracts of the AutoGrid PPA's size, the final approval role was owned by PSE's Vice President of Clean Energy Strategy and Planning.

### 5. <u>Contemporaneous documentation.</u>

- Q. Did PSE maintain relevant contemporaneous documentation related to its decision to enter into the AutoGrid PPA?
- A. Yes, PSE has maintained relevant documentation related to its decision to enter into the AutoGrid PPA. This documentation is provided in Exh. GA-11C and Exh. GA-12C.

### 6. Determination of prudency.

# Q. Was the AutoGrid PPA a prudent investment?

A. Yes. PSE's DR capacity provided by the AutoGrid PPA will help meet the expected clean energy and DR needs of PSE's customers for years to come. Based on the resource needs described herein, the robust analysis performed during PSE's 2022 DER RFP evaluation, and the benefits to PSE's customers described in my testimony, PSE is seeking a determination of prudency, recovery of the costs, and to earn a return on the PPA. See the Prefiled Direct Testimony of Susan Free, Exh. SEF-1T for the earnings calculations. PSE is requesting to recover a return on the PPA based on paragraph 32 of the Settlement Stipulation and Agreement on Revenue Requirement and All Other Issues Except Tacoma LNG and Green Direct, approved in PSE's last general rate case, Dockets UE-220066/UG-220067: "The cost of any DER PPA for distributed generation, battery resources and demand response costs are eligible for recovery through

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PSE's PCORC, PCA Mechanism and/or annual power cost update and are eligible for potential earning on PPAs pursuant to RCW 80.28.410."

### The Oracle PPA Is Prudent

### 1. **Project overview.**

### Q. Please describe the Oracle PPA.

As described in Section I, Oracle is the contracted implementation vendor A. responsible for Flex Events, PSE's opt-out BDR program.

### Q. Was the Oracle PPA a resource considered in the 2022 DER RFP?

A. Yes, the Oracle proposal was submitted with all other competing proposals by the March 21, 2022, deadline set for the 2022 DER RFP. Oracle's proposal went through the entire RFP evaluation process. The proposal was selected as part of the final short list because of its cost effectiveness and overall ranking based on quantitative and qualitative metrics measured in the RFP. Contracted negotiations occurred between February and April of 2023. A contract with Oracle was signed on April 3, 2023, and it was launched in August of 2023. The DR scope of work, master service agreement, and amendment are provided as Exh. GA-10C.<sup>9</sup>

<sup>&</sup>lt;sup>9</sup> Opower is a subsidiary of Oracle.

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## Q. What are the terms of the Oracle PPA?

A. The terms of the Oracle PPA, provided in Exh. GA-10C, include the recruitment of customers into the program, development of supporting program collateral, additional support for meeting a minimum 30 percent benefit of program activities to named communities, DR event notification development and delivery, and VPP integration, along with measurement and verification reporting associated with assessing the results of DR events. Oracle will receive a fixed seasonal payment from PSE for the activities detailed above.

# Q. What are the rate year costs of the Oracle PPA?

A. Table 5 below summarizes the seasonal load reduction targets and costs associated with the Oracle PPA. The contracted load reduction may exceed the original target to achieve committed capacity.

**Table 5: Oracle PPA Rate Year Costs** 

Year	20	25	2026		
Season	Summer	Winter	Summer	Winter	
Contracted Load Reduction (MWs)	11.5	12.4	11.5	12.4	
Seasonal Cost	\$479,234	\$516,739	\$479,234	\$516,739	
Program Year Total Cost (Summer/Winter)	\$995	5,973	\$995,973		

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high Societal Cost Test score. There were no similar opt-out behavioral proposals. See Table 1: 2022 RFP DR Turnkey Proposals for a summary of the RFPs.

### 4. **Board of Directors or management involvement.**

- Q. Describe how PSE's Board of Directors or management was involved in the decision to enter into the Oracle PPA.
- At the end of PSE's evaluation process for the 2022 DER RFP, PSE provided the A. results to its EMC. The first meeting on September 30, 2022, presented the resource acquisitions team's findings and recommendations. See Exh. GA-11C. A second meeting was held on October 27, 2022, during which the EMC voted to approve the DER RFP short list portfolio and to move forward with negotiations. See Exhibit GA-12C. As PSE's procurement process does not require Board approval for contracts the size of the Oracle PPA, the final approval role was owned by PSE's Vice President of Clean Energy Strategy and Planning.

### 5. Contemporaneous documentation.

- Q. Did PSE maintain relevant contemporaneous documentation related to its decision to enter into the Oracle PPA?
- Yes, PSE has maintained relevant documentation related to its decision to enter A. into the Oracle PPA. This documentation is provided in Exh. GA-11C and Exh. GA-12C.

# Q.

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Was the Oracle PPA a prudent investment?

**Determination of prudency.** 

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Yes. PSE's DR capacity provided by the Oracle PPA will help meet the expected A. clean energy and DR needs of PSE's customers for years to come. Based on the resource needs described herein, the robust analysis performed during PSE's 2022 DER RFP evaluation, and the benefits to PSE's customers described in my testimony, PSE is seeking a determination of prudency, recovery of the costs, and to earn a return on the Oracle PPA. See the Prefiled Direct Testimony of Susan Free, Exh. SEF-1T, for the earnings calculations. PSE is requesting to earn a return on the Oracle PPA pursuant to paragraph 32 of the Settlement Stipulation and Agreement on Revenue Requirement and All Other Issues Except Tacoma LNG and Green Direct, approved in PSE's last general rate case, Dockets UE-220066/UG-220067: "The cost of any DER PPA for distributed generation, battery resources and demand response costs are eligible for recovery through PSE's PCORC, PCA Mechanism and/or annual power cost update and are eligible

for potential earning on PPAs pursuant to RCW 80.28.410."

### The Enel X PPA Is Prudent D.

A.

### 1. Project overview.

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### Q. Please describe the Enel X PPA.

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responsible for the implementation of PSE's incentivized business DR program

(BDRP).

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### Q. Was the Enel X PPA a resource considered in the 2022 DER RFP?

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A. Yes, the Enel X proposal was submitted, with all other competing proposals by the March 21, 2022, deadline set for the 2022 DER RFP. Enel X's proposal went through the entire RFP evaluation process. The proposal was selected as part of the final short list because of its cost effectiveness and overall ranking based on quantitative and qualitative metrics measured in the RFP. A contract with Enel X was signed in September 2023, and customer enrollment began on October 1, 2023. Dispatchable events became available on January 2, 2024.

As described in Section I, Enel X is one of the two implementation vendors

### Q. What are the terms of the Enel X PPA?

The Enel X PPA is provided as Exh. GA-13C. The terms of the Enel X PPA include the recruitment of customers into the BDRP; creation of customized curtailment plans, development of supporting program collateral, installation and maintenance of software and onsite equipment if applicable; providing additional support for meeting a minimum 30 percent benefit of program activities to named

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communities; DR event notification development and delivery, responsible for issuing customer incentive payments; and VPP integration, along with measurement and verification reporting associated with assessing the results of DR events. Enel X will receive performance-based payments from PSE based on a per MW capacity associated with its achieved curtailment.

### Q. What are the rate year costs of the Enel X PPA?

A. Table 6: Enel X PPA Rate Year Costs summarizes the seasonal load reduction targets and associated costs. The contracted MW load reduction may exceed the original target to achieve committed capacity.

**Table 6: Enel X PPA Rate Year Costs** 

Year	20	25	2026		
Season	Summer	Winter	Summer	Winter	
Contracted Load Reduction (MWs)	25	35	35	40	
Seasonal Cost	\$1,670,000	\$2,338,000	\$2,338,000	\$2,672,000	
Program Year Total Cost (Summer/Winter)	\$4,008,000		\$5,01	0,000	

high Societal Cost Test score and large capacity offering. Enel X was selected as one of two vendors to support the BDRP. Each of the selected vendors bring to the program different curtailment methodologies and different customer bases at the national account level, allowing them to recruit from separate business customer verticals with minimal overlap, if any.

Alternative Bidders B and C offered business DR but were not as cost-effective or comprehensive as the bids received from AutoGrid and Enel X. Due to AutoGrid and Enel X's national accounts, unique business models, and better-rated cost-effectiveness, PSE moved forward with both Enel X and AutoGrid's bids to serve business customers.

## 4. <u>Board of Directors or management involvement.</u>

- Q. Describe how PSE's Board of Directors or management was involved in the decision to enter into the Enel X PPA.
- A. At the end of PSE's evaluation process for the 2022 DER RFP, it provided the results to the Energy Management Committee ("EMC"), a board of senior representatives delegated with approving major transmission, distribution, and generation projects. The first meeting on September 30, 2022, presented the resource acquisitions team's findings and recommendations. See Exh. GA-11C. A second meeting was held on October 27, 2022, during which the EMC voted to approve the DER RFP short list portfolio and to move forward with negotiations. See Exh. GA-12C. As PSE's procurement process does not require Board

approval for contracts the size of the Enex X PPA, the final approval role was owned by PSE's Senior Vice President Chief Customer and Transformation Officer.

### 5. Contemporaneous documentation.

- Q. Did PSE maintain relevant contemporaneous documentation related to its decision to enter into the Enel X PPA?
- A. Yes, PSE has maintained relevant documentation related to its decision to enter into the Enel X PPA. This information is provided in Exh. GA-11C and Exh. GA-12C.

### 6. <u>Determination of prudency.</u>

## Q. Was the Enel X PPA a prudent investment?

A. Yes. The DR capacity provided by the Enel X PPA will help meet the expected clean energy and DR needs of PSE's customers for years to come. Based on the resource needs described herein, the robust analysis performed during PSE's 2022 DER RFP evaluation, and the benefits to PSE's customers described in my testimony, PSE is seeking a determination of prudency, recovery of the costs, and to earn a return on the PPA. See the Prefiled Direct Testimony of Susan Free, Exh. SEF-1T, for the earnings calculation related to the Enel X PPA. PSE is requesting to earn a return on the PPA pursuant to paragraph 32 of the Settlement Stipulation and Agreement on Revenue Requirement and All Other Issues Except Tacoma LNG and Green Direct, approved in PSE's last general rate case, Dockets

UE-220066/UG-220067: "The cost of any DER PPA for distributed generation, battery resources and demand response costs are eligible for recovery through PSE's PCORC, PCA Mechanism and/or annual power cost update and are eligible for potential earning on PPAs pursuant to RCW 80.28.410."

### **CONCLUSION**

- What is PSE requesting from the Commission in this proceeding?
- PSE requests a Commission finding of prudency for the three DR PPAs (AutoGrid, Oracle, Enel X) selected to meet the 2025 winter cumulative peak DR goal of 86 MW. Additionally, PSE requests to allow for recovery of the 2025 and 2026 costs and potential earnings on the DR PPAs pursuant to RCW 80.28.410.
- Does that conclude your prefiled direct testimony?