EXH. LCM-1T DOCKET UE-210795 2022 PSE CEIP WITNESS: LAUREN C. MCCLOY

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

In the Matter of

PUGET SOUND ENERGY, INC.

Docket UE-210795

2021 Clean Energy Implementation Plan

PREFILED RESPONSE TESTIMONY (NONCONFIDENTIAL) OF

LAUREN C. MCCLOY

ON BEHALF OF NW ENERGY COALITION AND FRONT AND CENTERED

October 10, 2022

NW ENERGY COALITION AND FRONT AND CENTERED

PREFILED RESPONSE TESTIMONY (NONCONFIDENTIAL) OF LAUREN C. MCCLOY

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INTRODUCTION

Q. Please state your name, title, and business address.

A. My name is Lauren C. McCloy, and I am the Policy Director for the NW Energy Coalition ("NWEC"). My business address is 811 1st Ave., Suite 305, Seattle, WA 98104.

Q. Please describe your background and experience.

A. As Policy Director for NW Energy Coalition, I support and guide the Coalition's policy work in Washington, as well as Oregon, Idaho, and Montana, and also our work on regional and federal issues, including regional planning, markets, and federal infrastructure funding. Previously, I worked as Senior Policy Advisor to Governor Jay Inslee, where I led and managed a broad range of issues in support of the Governor's energy priorities, including the Clean Energy Transformation Act, Climate Commitment Act, Environmental Justice issues, and elements of the state's response to the COVID-19 pandemic. Prior to serving in that role, I was the Legislative Director for the Washington Utilities and Transportation Commission ("UTC" or "Commission"), where I served as the Commission's liaison to the state Legislature and the Governor's office, coordinated the UTC's legislative activities, and advised Commissioners on energy policy and legislative issues. Before joining the UTC's policy staff, I worked as a Compliance Investigator in the UTC's Consumer Protection Division. My background and first-hand experience are the basis for my expertise and qualifications to testify as an expert on the issues raised in my testimony.

I completed Utility Regulation 101 training with the National Regulatory Research Institute in 2015 and Rate Spread and Rate Design training with EUCI in 2016.

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1 I have a B.A. from the University of North Carolina at Chapel Hill and an M.S. in 2 International Development from Tulane University Law School. My CV is included as Exh. LCM-2. 3 4 Q. Please describe NW Energy Coalition's interest in this case. 5 A. NWEC is a non-profit organization under section 501(c)(3) of the Internal Revenue 6 Code. NWEC's primary purpose is to promote an energy future that is clean, reliable, 7 affordable, and equitable. NWEC provides technical and policy leadership on energy 8 issues in the Northwest, and seeks to promote the development of renewable energy, 9 energy conservation, and affordable energy services. Due to its historic and ongoing work 10 with utility companies and others to achieve these goals, NWEC possesses a substantial 11 interest in the outcome of this proceeding. NWEC has a special interest in this proceeding for several reasons: 12 1. NWEC has an interest in ensuring that PSE's Clean Energy Implementation Plan 13 14 complies with Washington's climate and clean energy policies, including but not limited 15 to the Clean Energy Transformation Act ("CETA"). 2. NWEC has an interest in facilitating PSE's equitable transition to clean energy – 16 17 including ensuring an equitable distribution of benefits and burdens from its investments, 18 with a specific focus on affordability for low- and moderate-income customers, 19 vulnerable populations, and highly impacted communities. 20 3. NWEC has an interest in ensuring that PSE is enabling customer-side resources, 21 including making prudent investments on its distribution system and procuring cost-22 effective demand response, energy efficiency, and distributed energy resources. 23 Q. What is the scope and structure of your testimony?

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2	A.	I begin by providing a summary of the testimony of the witnesses sponsored by NWEC
3		and Front and Centered, organizations jointly intervened in this proceeding.
4		As an overview, I next address NWEC and Front and Centered's vision for what
5		CETA implementation and PSE's CEIP should look like, including a summary of the
6		ways in which PSE's CEIP is consistent with that vision and the ways in which it falls
7		short.
8		Next, I address seven specific topics and the ways in which PSE's CEIP should be
9		modified to meet CETA's goals and requirements in each.
10		First, I discuss why PSE's CEIP does not fulfill CETA's equity mandate.
11		Second, I discuss why PSE's proposed Customer Benefit Indicators (CBIs) and
12		associated metrics are not adequate to measure PSE's progress on ensuring an equitable
13		distribution of benefits and burdens.
14		Third, I discuss changes PSE should make to its CEIP and associated public
15		process to increase public participation and accessibility.
16		Fourth, I discuss PSE's clean energy targets, including problems with the
17		modeling PSE used to support its interim targets.
18		Fifth, I discuss problems with PSE's incremental cost calculation.
19		Sixth, I recommend that PSE change its approach to planning for and including
20		specific actions in its CEIP.
21		Seventh, I recommend changes to PSE's specific actions, including its demand
22		response target and distributed energy resources programs.

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In conclusion, my testimony provides specific conditions I recommend the UTC include as conditions of approval of PSE's CEIP.

Summary of NWEC and Front and Centered Testimony

Q. Please briefly describe the witnesses sponsored by NWEC and Front and Centered and the scope of their testimony.

In addition to my testimony, which covers the topics outlined in my response to the previous question, NWEC and Front and Centered are sponsoring four witnesses.

Mariel Thuraisingham is the Clean Energy Policy Lead with Front and Centered. Her testimony addresses the need for PSE to ensure that its clean energy transition results in an equitable distribution of benefits and burdens to highly impacted communities, vulnerable populations, and low-income customers, and the ways in which PSE's CEIP fails to adequately advance this equitable distribution.

Roger Colton is the owner of the firm Fisher, Sheehan, & Colton, Public Finance and General Economics. His testimony addresses the ways in which PSE's CEIP fails to ensure an equitable distribution of benefits and burdens, including issues with PSE's method for designating vulnerable populations and identifying the customers with deepest need; the need for and lack of adequate baseline data, customer benefit indicators, and metrics to measure the impacts of PSE's programs; and the need for PSE to modify its energy efficiency actions to ensure the benefits of its energy efficiency portfolio are equitably distributed.

Scott Reeves is the Director at the Cadeo Group on the Distributed Energy Resources ("DER") and Electrification team. His testimony addresses the ways in which PSE should modify the specific actions in the CEIP for demand response, solar, and

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Exh. LCM-1T Page 4 of 55 storage DER to ensure an equitable distribution of benefits to named communities, and the ways in which PSE should change and increase its acquisition of demand response.

Elaine Hart is a Founding Principal at Moment Energy Insights LLC. Her testimony addresses two problems with the modeling that PSE used to develop its CEIP: first, the methodology that PSE used to incorporate the social cost of greenhouse gas emissions ("SCGHG") undervalues clean energy and overvalues fossil fuels; and second, PSE used values for the effective load carrying capability ("ELCC") of energy storage that undervalue that resource.

CETA and CEIP Vision

Q. What is NWEC and Front and Centered's vision for CETA and the CEIP?

A. The CEIP is the first step towards achieving an efficient, equitable transition to a 100% clean electricity system. As such, it is critical that the CEIP incorporate three core elements of CETA. First, the CEIP must place equity at the center of a utility's planning efforts. Second, the CEIP must involve robust public participation beyond what utilities have demonstrated through other planning processes – ultimately, utilities should aim to develop CEIPs that are co-created with the communities they serve. Third, the CEIP must include robust clean energy targets, and specific actions to meet those targets. These specific actions should be concrete, based on the best information the utility has at the time, and should be updated as needed to reflect changing circumstances. These elements, if properly incorporated into the planning goals, process, and outcomes, can drive the transformational change envisioned by CETA.

Q.

Please summarize the ways that PSE's CEIP is consistent with the vision of NWEC and Front and Centered.

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1	A.	We support the general direction that PSE is heading in its CEIP. We are pleased to see
2		that PSE's CEIP incorporates significant utility-scale renewables, representing 63 percent
3		of PSE's load service obligation. This is a significant leap forward from today, and if
4		implemented, would be the most significant mobilization of clean energy that PSE has
5		ever pursued. We are also encouraged by PSE's first attempt at adopting customer benefit
6		indicators (CBIs) to guide the implementation of the CEIP, and the commitments it has
7		made to innovative outreach and engagement strategies in its Public Participation Plan.
8		And, we are excited to see PSE embrace customer-side distributed energy resources
9		(DERs) as part of its CETA compliance strategy – we hope PSE has continued to pursue
10		these opportunities as more information has become available to the Company from
11		bidders on its All-Source and DER/DR Requests for Proposals (RFPs).
11 12	Q.	bidders on its All-Source and DER/DR Requests for Proposals (RFPs). Please summarize the ways in which PSE's CEIP falls short of CETA's goals and
	Q.	
12	Q. A.	Please summarize the ways in which PSE's CEIP falls short of CETA's goals and
12 13		Please summarize the ways in which PSE's CEIP falls short of CETA's goals and requirements.
12 13 14		Please summarize the ways in which PSE's CEIP falls short of CETA's goals and requirements. PSE's CEIP falls short in a number of critical ways. Some of these shortcomings should
12 13 14 15		Please summarize the ways in which PSE's CEIP falls short of CETA's goals and requirements. PSE's CEIP falls short in a number of critical ways. Some of these shortcomings should be addressed and remedied in this CEIP, as conditions of the Commission's approval.
12 13 14 15 16		Please summarize the ways in which PSE's CEIP falls short of CETA's goals and requirements. PSE's CEIP falls short in a number of critical ways. Some of these shortcomings should be addressed and remedied in this CEIP, as conditions of the Commission's approval. Other issues will take more time to address, and should be identified as conditions for the
12 13 14 15 16 17		Please summarize the ways in which PSE's CEIP falls short of CETA's goals and requirements. PSE's CEIP falls short in a number of critical ways. Some of these shortcomings should be addressed and remedied in this CEIP, as conditions of the Commission's approval. Other issues will take more time to address, and should be identified as conditions for the biennial CEIP update or the 2025 CEIP.

mechanisms that allow named communities to hold PSE accountable to its equity goals.

benefits flow to and are controlled by named communities; and create tracking

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Exh. LCM-1T Page 6 of 55 Second, PSE's proposed Customer Benefit Indicators and metrics are not adequate to measure the equitable distribution of benefits in three specific areas: (1) the category of "energy benefits" to measure the extent to which named communities benefit from PSE's DER and DR (demand response) programs; (2) the category of "public health" to adequately measure reduced pollution burden and pollution exposure; and (3) the categories of "reduction in cost" and "energy security" to measure reductions in residential disconnections and arrearages.

Third, PSE's public participation processes do not provide adequate opportunities for community members to influence outcomes and specific actions. PSE's final CEIP is also not easily readable due to its length, technical density, and cross-references.

Fourth, the modeling supporting PSE's clean energy targets undervalues clean energy by failing to fully account for the Social Cost of Greenhouse Gas Emissions and the capacity value of energy storage.

Fifth, PSE's projected incremental cost of compliance with CETA inappropriately includes grid modernization and "emergent electric" expenditures that are not directly attributable to the need to meet CETA's clean energy standards.

Sixth, PSE's CEIP does not include specific actions, and instead includes generic program concepts. Because PSE does not plan to select specific actions until after it receives the results of its pending Requests For Proposals (RFPs), these significant choices will not be made with the benefit of the public participation and input CETA envisions and requires.

Seventh, PSE's demand response target is too low, based on errors in PSE's analysis and assumptions. Additionally, PSE's specific actions, and particularly PSE's

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Exh. LCM-1T Page 7 of 55 proposed Distributed Energy Resources, do not ensure an equitable distribution of benefits and reduction of burdens to named communities.

I explain each of these shortcomings and recommended changes in greater detail below.

CETA's Equity Mandate

Q. Please explain the purpose of your testimony as it relates to equitable transition issues, and the experience you draw on for your recommendations.

A. My testimony on equitable transition issues is intended to characterize CETA's equity mandate and how it should be considered as a part of the Commission's broad public interest standard. My testimony draws on my experience as the policy lead on CETA during my time in Governor Inslee's office, on NWEC's commitment to advance equity in our policy work, and on the comments and testimony of our co-intervenor in this proceeding, Front and Centered, which is a coalition of community-based organizations that serve people of color and with lower incomes.

NWEC has made a commitment to advance justice, equity, diversity, and inclusion in our organization and in our advocacy, and has adopted an anti-racism commitment and accountability statement. To fulfill these commitments, we have goals with associated metrics geared towards:

• Ensuring that policy tables are prepared to meaningfully welcome Black, Brown, and Indigenous leadership as we continue to support capacity among these leaders.

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1	• Reevaluating our policy, program, and decision-making processes so that the	
2	organization is supporting efforts that create tangible and near-term benefits to the	e
3	hardest-hit communities.	
4	• Ensuring our program work elevates partnerships and mutual trust with Black,	
5	Brown, and Indigenous organizations working in the clean energy sector.	
6	Q. Why does CETA include an equity mandate?	
7	A. During the development and passage of CETA, stakeholders, including Front and	
8	Centered, NWEC, and other environmental groups, strongly advocated for embedding a	
9	clear equity mandate into the legislation. In my experience, equity considerations are	
10	playing an increasingly important role in the development of policy governing critical	
11	sectors of the economy, including the utility sector. With regards to energy policy, equity	r
12	is being incorporated in response to the disproportionately harmful impacts that energy	
13	infrastructure – and disparities of service, access, and ability to pay – have had on named	
14	communities, and the need to consider the human experience in our overall public interest	st
15	considerations.	
16	For example, we know that racial inequities persist in the energy system and	
17	underlie other forms of oppression. Specifically:	
18	• The Northwest hydropower system has contributed to cultural and economic harn	n
19	inflicted on Indigenous communities and ecological collapse of many native and	
20	wild fisheries.	
21	• Black, Brown, and Indigenous communities are disproportionately located next to)
22	fossil fuel infrastructure and other energy-system-dependent sources of pollution,	
23	such as highways and industry, negatively affecting their health.	
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Many Black, Brown, and Indigenous communities pay higher energy bills due to • substandard housing and also have not fully benefited from weatherization, energy efficiency services, and other residential DER programs. Rural communities, which are increasingly Black, Brown, Indigenous, and low-• income, have not benefited from demand-side resources and other programs in the way that more urban customers have, and also face a lack of access to energy technologies and services enabled by access to a reliable internet connection. There have been racial disparities in access to family wage jobs in the clean • energy sector and energy related trades, and this has been particularly true in urban centers. Electric utility customers with large past-due balances are most at risk of potential disconnection from energy service and are most harmed by fees within the dunning process. There are many forms of oppression that affect people in our region beyond racism, including ableism, classism, homophobia, transphobia, and gender-based discrimination. In a public policy context, it is important to be mindful of the intersectional nature of race, economic well-being, geography, and other factors to ensure that policies and institutions do not perpetuate past harms. By requiring an equitable distribution of benefits and reduction of burdens to highly impacted communities and vulnerable populations, CETA seeks to address past harms to a diverse set of named communities, while transitioning to a cleaner, more sustainable, and more just electricity system.

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Q. Describe CETA's equity mandate, as you understand it.

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Exh. LCM-1T Page 10 of 55 A. The key equity policy changes enacted in CETA are: (1) a shift in how the Commission interprets "fair and just" to not necessarily mean "equal," but to take disparities in current conditions into account; and (2) the *responsibility of the utility* to ensure that all customers are benefiting from the transition to clean energy through the equitable distribution of benefits and reduction of burdens. The main obligation is established in RCW 19.405.040(8):

"In complying with this section, an electric utility must ...ensure that all customers are benefiting from the transition to clean energy: Through the <u>equitable</u> distribution of energy and nonenergy benefits and reduction of burdens to vulnerable populations and highly impacted communities; long-term and shortterm public health and environmental benefits and reduction of costs and risks; and energy security and resiliency."

In passing CETA, the Legislature declared that it found that Washington can transform its electricity system to clean energy, while also "maintaining safe and reliable electricity to all customers at stable and affordable rates." RCW 19.405.010(4). Further, the Legislature found that the public interest "includes, but is not limited to: The <u>equitable</u> distribution of energy benefits and reduction of burdens to vulnerable populations and highly impacted communities; long-term and short-term public health, economic, and environmental benefits and the reduction of costs and risks; and energy security and resiliency." RCW 19.405.010(6) (emphasis added). Additionally, "[i]t is the intent of the legislature that in achieving this policy for Washington, there should not be an increase in environmental health impacts to highly impacted communities." *Id*.

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The Commission has defined "equitable distribution" as, "a fair and just, but not 1 necessarily equal, allocation of benefits and burdens from the utility's transition to clean 2 energy. Equitable distribution is based on disparities in current conditions. Current 3 conditions are informed by, among other things, the assessment described in RCW 4 5 19.280.030(1)(k) from the most recent integrated resource plan." WAC 480-100-605. 6 Q. What does successful implementation of CETA's equity mandate look like for PSE, 7 in your opinion? 8 PSE must center CETA's equity mandate in its CEIP and associated decisions, but this is A. 9 only a first step. Successful implementation of CETA's equity mandate requires a 10 paradigm shift, such that PSE centers equity in every aspect of its company culture. Ultimately, equity must be considered in all of PSE's planning and business cases, and in 11 12 every filing reviewed by the UTC. This may seem like a daunting task, but it is essential that PSE set goals and work toward this end. Achieving CETA's equity mandate is new 13 14 and complex, but it is reasonable to expect PSE to set the bar for other utilities in the 15 region. Q. What does it mean to "center equity" in the CEIP? 16 17 A. As set forth in the testimony of Mariel Thuraisingham, Exh. MFT-1T, PSE's CEIP must 18 take effective action to achieve equitable outcomes for named communities. PSE must 19 build equity into all aspects of the Company's planning, including outside of the CEIP. 20 And the CEIP should reflect a paradigm shift towards a service model that builds power in the communities impacted by PSE's actions and centers transparency, inclusivity, 21 22 restoration, and community well-being. To accomplish these equity goals, PSE's CEIP 23 needs to:

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1		• Establish a data baseline. PSE should study, understand, and acknowledge
2		existing disparities within different named communities and PSE's historical role
3		in contributing to those disparities.
4		• Set CBIs, metrics, and performance goals adequate to measure PSE's progress in
5		addressing each of those disparities.
6		• Tailor PSE's specific plans to address individual community needs and burdens,
7		including by setting targets to deliver a percentage of the energy benefits of PSE's
8		DER programs to the sub-groups of named communities that are most vulnerable,
9		and by working towards community-owned generation resources such as
10		community solar, rather than solar rooftop leasing.
11		• Reshape PSE's public participation plan to meaningfully empower impacted
12		communities, giving them not just access to opportunities to speak, but the power
13		to actually influence PSE's priorities and actions and all of the information
14		necessary to do so.
15		• Create mechanisms for public reporting and accountability to allow impacted
16		communities to hold PSE accountable for implementing the plans co-created with
17		community and for achieving the co-created equity goals.
18	Q.	What near-term steps could PSE take to center equity in this CEIP?
19	A.	In the near-term, there are several simple steps that PSE could take to begin making
20		progress toward the goal of centering equity in the CEIP and beyond. Some of these
21		initial steps are addressed in the Partial Multiparty settlement stipulation in Dockets UE-
22		220066/UG-220067/UG-210918 (consolidated), which NWEC and Front and Centered

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Exh. LCM-1T Page 13 of 55 signed. Other initial steps I discuss in more detail in subsequent sections of this testimony and in the testimony of the witnesses sponsored by NWEC and Front and Centered.

For the CEIP, PSE must develop a deeper understanding of who is impacted by the company's decisions, what those impacts are, and who is not represented in the conventional stakeholder processes, as described in the testimony of Mariel Thuraisingham (Exh. MFT-1T). If conventional stakeholder processes are ineffective at obtaining the information and input that is needed to understand these impacts, then PSE must make changes to its processes. While PSE has developed a baseline understanding of who the highly impacted communities and vulnerable populations in its service territory are, it has yet to truly center those groups in the CEIP process. PSE must reach beyond its typical stakeholders, engage with communities directly on issues that impact them, and bring those perspectives into its CEIP process. PSE should partner with community-based organizations and customers with lived experience in their service area to identify priorities for the energy transition. The DER Public Engagement Pilot I recommend below would be one concrete, near-term step toward this foundational shift in the relationship between PSE and the communities it serves. I also recommend direct consultation with Tribes, who are designated as highly impacted communities in RCW 19.405.020(23), and whose interests cannot be represented by any other group.

PSE should use the information gained through this engagement to target its clean energy investments, outreach, and programs, as described below and in the testimony of Roger Colton (Exh. RDC-1T). This should include a deeper consideration of the factors that cause populations to be vulnerable, and actions to help address those factors, including specifically tailoring, targeting, and increasing PSE's energy efficiency

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Exh. LCM-1T Page 14 of 55 programs to serve customers with the deepest need. And as described in the testimony of Scott Reeves (Exh. SR-1T), PSE should also tailor, target, and increase its other DER programs to serve named communities, including its solar, storage, and demand response programs.

Finally, PSE should also develop and use tools to continually assess and share its progress toward more equitable programs and processes and provide accountability as our collective understanding of how to achieve equity in the energy utility context improves. While the Customer Benefit Indicators, which I address next in my testimony, are an important tool to gauge performance on a range of elements broadly, a more focused effort to evaluate programs and budgets for distributive equity would be helpful. In collaboration with its Equity Advisory Group, PSE could use a tool like the Initiative for Energy Justice's Energy Justice Scorecard for this purpose.

Customer Benefit Indicators

Q. Please explain the role customer benefit indicators are supposed to play in a CEIP.

 CETA lists specific customer benefits that utilities must ensure are distributed equitably. These benefits are "energy and non-energy benefits and reduction of burdens" to named communities; "long-term and short-term public health and environmental benefits and reduction of costs and risks;" and "energy security and resiliency." RCW 19.405.040(8). The requirement that utilities establish and evaluate their actions through CBIs is new, and meant to give effect to CETA's requirement that utilities ensure that all customers benefit from the transition to clean electricity. *See* WAC 480-100-640(4)(c).

CBIs are "attributes" of a resource or related distribution system investment that are associated with one of the specific customer benefits in CETA. WAC 480-100-605.

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Exh. LCM-1T Page 15 of 55 For example, "improved air quality" could be a CBI associated with the statutory benefit "short-term public health." Utilities must propose at least one CBI for each of the customer benefits enumerated in CETA and the UTC's implementing rules. WAC 480-100-640(c). A utility must intentionally evaluate each specific action and program in its CEIP through the lens of each CBI and indicate whether and how the CBI is applicable to that action. WAC 480-100-640(5)(c).

Q. Does PSE's CEIP satisfy the CETA requirement to apply CBIs to all specific actions that the utility will take?

A. No. PSE has only applied its proposed CBIs to DERs, and has not applied its CBIs to utility scale resources. Without a fair and even application of CBIs to all resources, the CEIP does not comply with WAC 480-100-640, and the CBI evaluation in PSE's CEIP is incomplete. In addition, PSE inappropriately asked bidders responding to the utility's DER RFP to opine on whether their projects would positively influence CBIs using PSE's rudimentary and subjective CBI scoring system. It makes little sense to outsource the application of CBIs to every bidder rather than have the utility—which should be acquiring expertise and understanding of CBIs—be responsible for evaluating each proposal for itself and applying a consistent methodology to that analysis. The flaws in PSE's CBI scoring system (which I discuss below) compound this error and will lead to arbitrary results. The CEIP does not fulfill PSE's obligation to analyze the customer benefit offered by each specific action under consideration.

Q. What is your assessment of the sufficiency of the CBIs PSE selected for inclusion in the CEIP?

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1	A.	PSE's CBIs fall short of CETA's requirements because there are significant gaps in
2		PSE's CBIs, particularly in three areas: (1) the categories of "energy benefits" to measure
3		the extent to which named communities benefit from PSE's DER and DR programs; (2)
4		the category of "public health" to adequately measure reduced pollution burden and
5		pollution exposure; and (3) the categories of "reduction in cost" and "energy security" to
6		measure reductions in residential disconnections and arrearages. While PSE has
7		proposed CBIs associated with each of CETA's statutory benefits, PSE's CBIs contain
8		significant gaps because they do not adequately capture the impact of PSE's proposed
9		actions, especially on named communities.
10	Q.	With respect to the gaps in PSE's CBIs, what additional CBIs and metrics are
11		necessary to fulfill CETA's requirements?
12	A.	Prior to this adjudication, a group of "Joint Advocates" comprised of NWEC, The Energy
13		Project (TEP), Front and Centered, and the Public Counsel Unit of the Attorney
14		General's Office (PCU) prepared a set of CBIs that are more focused, specific, and
15		detailed, and that directly support the CETA statutory elements for which CBIs must be
16		developed, along with appropriate metric indicators that would show the impact of PSE's
17		actions. The Joint Advocates shared those CBIs and associated metrics with PSE in early
18		summer of 2021, but PSE chose not to adopt them. Adopting some of the Joint
19		Advocates' CBIs and metrics would fill gaps in PSE's proposed CBIs.
20		In addition, PSE agreed to additional metrics in the final settlement stipulation in
21		PSE's General Rate Case (UE-220066/UG-220067/UG-210918) (attached as Exh. LCM-

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none are directional. Adopting these metrics in the CEIP, with added directionality, would also help fill gaps in PSE's proposed CBIs and metrics.

Q. What additional CBIs and metrics are needed in the category of "energy benefits" to adequately measure the extent to which named communities benefit from PSE's DER and DR programs?

PSE should adopt an additional CBI, "Increased Named Community Clean Energy," in addition to its proposed CBI of "Improved participation in clean energy programs from highly impacted communities and vulnerable populations." PSE should also adopt additional metrics associated with both of these CBIs.

PSE's CBI for energy benefits, "Improved participation in clean energy programs from highly impacted communities and vulnerable populations," is by itself inadequate to assess whether PSE's actions result in an equitable distribution of energy benefits because it does not account for the magnitude of the energy benefit associated with participation. In theory, under PSE's CBI, if participation in PSE's low-income weatherization program doubled, but the average per-household and total program energy savings declined by an order of magnitude or more, PSE's CBI would indicate progress toward an equitable distribution of energy benefits, despite the fact that energy savings benefits—measured as program totals or by household average—would actually be decreasing. Adding the "Increased Named Community Clean Energy" CBI, and the additional metrics discussed below, will ensure that PSE's CBIs and metrics actually capture the distribution of energy benefits.

PSE should adopt the following additional metrics to accurately measure energy benefits from PSE's DER programs:

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An additional metric modeled on \P 61(j) of the GRC settlement stipulation: • "increase percentage of utility spending on DR, DER, and renewable energy programs that benefits highly impacted communities or vulnerable populations." This would supplement PSE's proposed CBI of "Improved participation in clean energy programs from highly impacted communities and vulnerable populations" and PSE's associated metric of "Increase percentage of participation in energy efficiency, demand response and distributed resource programs or services by PSE customers within highly impacted communities and vulnerable populations." If PSE increases participation among named communities but doesn't increase funding allocated to those communities, that would mean that each participating customer in a named community receives fewer benefits. Accordingly, PSE's CBIs must look at funding directed to named communities, and not just participation. An additional metric that tracks \P 64(i) of the GRC settlement: "increase average • energy savings per home for customers in highly impacted communities and vulnerable populations taking part in each of PSE's DER programs." Similar to the CBI that would focus on program funding, this metric focusing on energy savings would highlight not just levels of program participation in named communities but the magnitude of the energy benefit program participants receive. Two metrics from the Joint Advocates proposal that will reflect the significance and quality of specific energy benefits that customers in hard-to-reach named communities are receiving from PSE's DER investments: "Increased number and

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Exh. LCM-1T Page 19 of 55 percentage of appliances converted to efficient models in named communities" and "Improvement and expansion of energy efficiency in rental housing stock in named communities."

Four metrics that reflect the extent to which customers in named communities • have access to increased control and/or ownership of the energy benefits from renewable distributed generation resources: "Increase total MWh of distributed energy resources 5 MW and under, where benefits and control of the resource accrue to members of named communities;" "Increase total MWs of energy storage resources 5 MW and under, where benefits and control of the resource accrue to members of named communities;" "Increase number (i.e., sites, projects, and/or households) of distributed renewable generation resources and energy storage resources, where benefits and control of the resource accrue to members of named communities;" and "Increase total MWh of energy savings from EE programs, where benefits and control of the savings accrue to members of named communities." Where known, for each of the preceding four metrics, PSE should specify whether the named community resources are in highly impacted communities and/or vulnerable populations and/or known low-income customers. For vulnerable populations, where known, PSE should specify named community resources broken down by the sensitivity factors and/or socioeconomic factors that led the customer or community to be designated highly vulnerable.

Q. What additional CBIs and metrics are needed in the category of "public health" to adequately measure reduced pollution burden and pollution exposure?

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PSE should adopt an additional CBI, "Improved indoor air quality," in addition to its proposed CBIs of "Improved outdoor air quality" and "Improved community health." PSE should also adopt additional metrics associated with its public health CBIs.

PSE's CBIs for public health, "Improved outdoor air quality" and "Improved community health," are by themselves inadequate to fully assess whether PSE's actions result in an equitable reduction of pollution burden and pollution exposure. Indoor and outdoor air pollution can have different causes, and can be reduced by different actions. For example, PSE programs that assist customers in upgrading polluting in-home appliances to cleaner, energy-efficient options may have a substantial impact on indoor air quality. Each individual appliance upgrade, however, may have a far smaller impact on outdoor air quality—and that impact may pale in comparison to other actions (such as changes to utility-scale resources). PSE must ensure that the pollution burdens and pollution reduction benefits of all of its programs are shared equitably, and that requires considering indoor and outdoor air quality separately. PSE's CBI of "Improved community health" cannot substitute for tracking indoor and outdoor air quality separately, because improvements to either standing alone can lead to changes in community health. Understanding the impact of PSE's actions on indoor air quality requires separate tracking.

PSE should adopt three additional metrics to adequately measure improvements in air quality and reduced pollution burden and pollution exposure, and to ensure that those reductions are benefitting the named communities most burdened by pollution:

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A.

1		• A metric that tracks \P 62(c) of the GRC settlement, with added directionality and
2		references to named communities: "Reduced annual SO2 emissions in named
3		communities from utility-owned electric generation resources, by census tract"
4		• A metric that tracks ¶ 62(d) of the GRC settlement, with added directionality and
5		references to named communities: "Reduced annual NOx emissions in named
6		communities from utility-owned electric generation resources, by census tract"
7		• A metric that tracks ¶ 62(e) of the GRC settlement, with added directionality and
8		references to named communities: "Reduced annual PM2.5 emissions in named
9		communities from utility-owned electric generation resources, by census tract."
10		Additionally, PSE should engage collaboratively with its advisory groups (LIAC, CRAG,
11		EAG) to create metrics for the "Indoor air quality" CBI and submit the metrics for
12		evaluation no later than in its 2023 CEIP Biennial Update.
13	Q.	What additional CBIs and metrics are needed in the categories of "reduction in
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14		cost" and "energy security" to adequately measure reductions in residential
14 15		cost" and "energy security" to adequately measure reductions in residential disconnections and arrearages?
	А.	
15		disconnections and arrearages?
15 16		disconnections and arrearages? PSE should adopt two additional CBIs in the categories of "reduction in cost" and
15 16 17		disconnections and arrearages? PSE should adopt two additional CBIs in the categories of "reduction in cost" and "energy security": "Reduced residential Arrearages and Disconnections for
15 16 17 18		disconnections and arrearages? PSE should adopt two additional CBIs in the categories of "reduction in cost" and "energy security": "Reduced residential Arrearages and Disconnections for Nonpayment," and "Reduced number of Households with a High Energy Burden (>6%)."
15 16 17 18 19		disconnections and arrearages? PSE should adopt two additional CBIs in the categories of "reduction in cost" and "energy security": "Reduced residential Arrearages and Disconnections for Nonpayment," and "Reduced number of Households with a High Energy Burden (>6%)." PSE should also adopt additional metrics associated with both of these CBIs.
 15 16 17 18 19 20 		disconnections and arrearages? PSE should adopt two additional CBIs in the categories of "reduction in cost" and "energy security": "Reduced residential Arrearages and Disconnections for Nonpayment," and "Reduced number of Households with a High Energy Burden (>6%)." PSE should also adopt additional metrics associated with both of these CBIs. PSE's CBI for energy security, "Improved access to reliable clean energy," is not
 15 16 17 18 19 20 21 		disconnections and arrearages? PSE should adopt two additional CBIs in the categories of "reduction in cost" and "energy security": "Reduced residential Arrearages and Disconnections for Nonpayment," and "Reduced number of Households with a High Energy Burden (>6%)." PSE should also adopt additional metrics associated with both of these CBIs. PSE's CBI for energy security, "Improved access to reliable clean energy," is not adequate to assess whether PSE's actions result in an equitable distribution of benefits

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Exh. LCM-IT Page 22 of 55 captured by PSE's CBI or associated metric, which measures the number of customers with access to emergency power. Emergencies that lead to widespread outages, and residential arrearages and disconnections for nonpayment, stem from entirely separate causes, and PSE must consider both to assess whether its actions lead to an equitable distribution of benefits and reduction of burdens.

PSE's CBI for cost reduction, "Improved affordability of clean energy," is also inadequate by itself to assess whether PSE's actions result in an equitable distribution of benefits and reduction of burdens. PSE's CBI and associated metrics measure bill reductions for all customers and energy-burdened customers, but do not capture whether bill reductions are substantial enough to actually reduce the number of customers who are energy burdened.

PSE should adopt two additional metrics to accurately measure whether its actions reduce residential arrearages and disconnections:

 Decreased number and percentage of residential electric disconnections for nonpayment by month, measured by location and demographic information (zip code/census tract, KLI customers, Vulnerable Populations, Highly Impacted Communities, and for all customers in total). If residential disconnections are not already required to be reported quarterly to the Commission in any other docket (e.g., U-200281 or U-210800) or subject to any other reporting rule, PSE should report residential disconnections as reported pursuant to Commission Order 04 (Appendix A Third Revised Term Sheet, Section J, Part 2 a)¹, in Docket U-

¹ U-200281, Order 04, Appendix A UTC Staff Third Revised Term Sheet, issued on July 2, 2021. Disconnection data for Section J, Part 2 is reported quarterly by zip code.

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Decreased residential arrearages as reported pursuant to Commission Order 04 (Appendix A Third Revised Term Sheet, Section J, Part 8 a-c)³ in Docket U-200281. If residential arrearages are not already required to be reported to the Commission in any other docket (e.g., U-200281 or U-210800) or subject to any other reporting rule, PSE should track the following residential electric data by month, measured by location and demographic information (zip code/census tract, KLI customers, Vulnerable Populations, Highly Impacted Communities, and for all customers in total)⁴ and report the data to the Commission on a quarterly basis through the end of this CEIP implementation period (December 31, 2025)⁵: The number of customers with past-due balances (arrearages); and the amount of past-due balances that are 30+, 60+, and 90+ days past due, and the total amount of arrearages.

PSE should also adopt two additional metrics to accurately measure whether its actions reduce the number of energy-burdened households:

• Decreased number and percent of households with a high energy burden (>6%)

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² Data will be reported in this CEIP docket (UE-210795) on a quarterly basis, filed within 30 days following the end of each quarter. For Q4 2025, the data will be filed by January 31, 2026. As with all CBIs and metrics, as required by Commission rule, this CBI and metrics will be reported on in the Biennial CEIP Update and the four-year compliance report.

³ Arrearage data for Section J, Part 2 is reported quarterly by zip code.

⁴ For electric customers that also have natural gas service, this data should include their total arrearages as the Company is unable to separate their electric and natural gas specific arrearages.

⁵ Data should be reported in this CEIP docket (UE-210795) on a quarterly basis, filed within 30 days following the end of each quarter. For Q4 2025, the data should be filed by January 31, 2026.

Decreased average excess burden per household • 2 Each of these metrics should be separately tracked and reported for all PSE electric 3 customers, known low-income (KLI) customers, Highly Impacted Communities, and 4 Vulnerable Populations. KLI customers are defined as those who have received energy 5 assistance during the prior two years. Q. Are there any other additional CBIs or metrics you recommend PSE adopt? 6 7 A. Yes. As described in the testimony of Roger Colton (Exh. RDC-1T), I recommend PSE 8 develop and adopt metrics to measure housing quality and health impacts from extreme 9 heat. 10 Q. As a general matter, how should PSE be required to track and report progress on its **CBIs and metrics?** 12 PSE has committed to a range of CBIs and metrics across different dockets, including A. 13 this CEIP docket, PSE's pending general rate case, and others. It will be critical to make 14 the information on all of these metrics as accessible as possible, so stakeholders and customers can understand PSE's progress and advocate for different actions where 15 16 needed. Accordingly, I recommend that PSE be required to incorporate CEIP CBIs and 17 metrics into a publicly accessible comprehensive report card that includes up-to-date data 18 on all metrics that the Company reports to the Commission. This comprehensive report 19 card should include at least: CBIs contained in the filed CEIP, those agreed to in any 20 settlement including any approved General Rate Case settlement, those ordered by the Commission in the final order, and CBIs and metrics to be developed in connection with 22 the Biennial Update or the next CEIP filing. PSE should publish this report card annually

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on its website on a dedicated page, and send an annual notice to customers as new report 2 cards are published. 3 Q. Please explain how CBIs and metrics should influence PSE's choice of specific actions in its CEIP. 4 5 A. PSE should use some of its CBIs to help it assess and select specific actions and 6 programs that will further the equitable distribution of benefits that CETA requires. Not 7 all CBIs will be appropriate for resource selection, however. For example, PSE should work to increase culturally and linguistically accessible program communications across 8 9 all of its programs (including those implemented by contractors), and PSE's CBI tracking 10 the availability of accessible communications should be used to assess PSE's progress in 11 reducing burdens across programs. It would likely be inappropriate, however, for PSE to choose between resources based on the availability of accessible program 12 communications. 13 Q. 14 Please describe how PSE applied its CBIs in its resource selection process in this 15 CEIP. A. PSE considered a range of generic DER programs in this CEIP. PSE used a rough scoring 16 17 system to assess which programs provided customer benefits as defined by the CBIs. Generally, under PSE's scoring system, a score of 0 meant that a generic program had 18 19 negative or no impact; a score of 1 meant that a generic program had minimal or no 20 impact, and a score of 2 meant that a generic program had a positive impact. CEIP, Ch. 3 21 at 93, Figure 3-9. PSE applied this scoring to a set of DER generic programs to help it 22 select which to include in the CEIP. CEIP, Appx. D-3.

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Q. In your opinion, what changes should PSE make to its CBI scoring methodology, if any?

A. In my opinion, PSE should significantly revise its method for using CBIs to assist in resource selection. The scoring methodology PSE used in this CEIP is not nuanced enough to meaningfully capture the real-world impact of different DER programs on all customers and on named communities specifically. I believe that the DER Public Engagement Pilot I recommend below for PSE's DER programs for named communities would allow PSE and the named communities it serves to co-create a method for selecting DER programs based on their relative benefits to individual communities. For resource decisions not included in that pilot, PSE should work with stakeholders and its advisory groups to develop a more nuanced method for applying CBIs in subsequent CEIPs.

Public Involvement and Accessibility

Q. Please describe PSE's Public Participation Plan.

 A. I reviewed PSE's CEIP Public Participation Plan for the "Implementation Phase" (January 2022 – April 2023).⁶ The Plan includes desired outcomes, goals, and objectives; defines roles and responsibilities; discusses the audiences and public participation tools; and outlines an approach, activities, and general schedule for the implementation phase of the CEIP.

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Q. What elements of the plan do you support?

⁶ See Appendix C-1 to the Final CEIP, starting on page 36.

Prefiled Response Testimony (Nonconfidential) of Lauren C. McCloy A. In general, there are many elements of the Public Participation Plan that I support. PSE's public participation goals are appropriate, its review of audiences and tools is thorough, and its evaluation plan is sufficient. In particular, I support PSE's efforts to remove barriers to participation, including especially the following strategies: hosting in-language events with translators, compensating people for their participation in multilingual sessions and/or focus groups, pursuing partnerships with community-based organizations, and providing information using common words and short sentences to make the information accessible. PSE's approach demonstrates an understanding of the needs and opportunities in its service territory. If PSE's Public Participation Plan is executed as proposed, this will be a significant improvement on past efforts.

Q. What elements of the plan should be improved going forward?

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A. A key missing element of PSE's Public Participation Plan is a commitment to outcomes from PSE's community engagement, to ensure that participation is meaningful and worthwhile for the public. We recommend that PSE make a more concerted effort to listen to feedback from stakeholders in its processes, and to incorporate that feedback by changing its planned actions to meet community needs and priorities. Individuals and organizations dedicate a significant amount of time and resources to participating in PSE's advisory group meetings and public meetings. This investment of time and resources should be rewarded with tangible results in the form of changes to PSE's plans based on their input. PSE should be prepared to make substantive changes to its plans in response to feedback. This will require PSE to fundamentally alter the way it conducts its planning efforts. This evolution will take time.

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Exh. LCM-1T Page 28 of 55 We recommend that PSE begin this process now for the next CEIP by developing and implementing a DER Public Engagement Pilot to gain experience with and understanding of engaging named community members at the "Empowerment" level⁷ in developing DER offerings specifically for named communities. PSE should collaborate with the EAG (Equity Advisory Group), other relevant advisory groups, and stakeholders to develop this pilot. PSE should begin work on the design of the pilot within three months of a Commission order in this docket, and implement the pilot after the 2023 Biennial CEIP Update. This pilot should place significant decision-making authority in the hands of the participating named communities relative to PSE's process on this CEIP: PSE states that its engagement with each of its advisory groups in development of the CEIP primarily occurred at the "involve" and "collaborate" levels for the Equity Advisory Group, and the "consult" and "involve" levels for the other advisory groups.⁸

Additionally, to ensure more meaningful public participation, PSE, in consultation with the EAG and other stakeholders, should develop a community outreach plan, which includes: (1) facilitating ongoing opportunities for direct interaction between the Company and communities; (2) allocating funding for staff positions trained and dedicated to community outreach and facilitating collaborations; (3) choosing arrangements for community interactions to maximize effective participation, accounting for factors such as meeting times, locations, and translation needs; (4) ensuring that

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⁷ International Association for Public Participation Spectrum USA, IAP2 Public Participation Spectrum, available at <u>https://iap2usa.org/cvs</u>.

⁸ See Exh. LCM-4.

affected individuals and communities have access to sufficient information to enable meaningful participation in activities; (5) ensuring sufficient time for meaningful interaction before decisions are made or unalterable commitments are agreed to; and (6) ensuring transparency in decision-making.

Q. In your view, is PSE's CEIP broadly accessible to the general public? Explain.

A. No. The CEIP should be a concise, succinct, transparent document that details the interim targets, specific targets, and specific actions the utility will undertake in the next four-year period. The CEIP should be easily understandable by the reader, avoid unnecessary cross-references to other documents, and clearly present explanations of the effects that a utility's specific actions will have on communities, customers, and the electric system. PSE's CEIP falls short of this goal in many respects. The Plan itself is 233 pages long, with an additional 28 appendices. In multiple instances, it also cross-references technical documents in other dockets. While we acknowledge that a certain level of supporting technical detail is necessary from a compliance standpoint, the CEIP itself should be easy for the general public to understand.

Q. What recommendations do you have to make the CEIP more accessible to the general public?

A. I recommend that PSE adopt, as appropriate, a set of readability guidelines for its CEIP, like the state of Washington's guidelines for writing to customers in "Plain Talk".⁹ The Plain Talk principles are: (1) Understand customer needs, (2) Include only relevant information, (3) Use words your customers use, (4) Use the "active voice," (5) Use

⁹ https://www.governor.wa.gov/issues/issues/efficient-government/plain-talk/know-guidelines.

Prefiled Response Testimony (Nonconfidential) of Lauren C. McCloy personal pronouns, (6) Keep sentences and paragraphs short, and (7) Design clear pages. I also recommend, for the next CEIP, that PSE significantly reduce the length of the CEIP itself, including only essential information necessary to provide the public a full picture of PSE's plan, and move more of the supporting technical information into appendices. I also recommend that PSE avoid cross-references to documents filed in other dockets.

Clean Energy Targets and Modeling Assumptions

Q. Please describe the requirement to adopt targets in the CEIP.

A. CETA establishes that utilities must serve 100 percent of retail needs with non-emitting and renewable resources by 2030 (with alternative compliance options for up to 20 percent). RCW 19.405.040. By 2045, non-emitting and renewable resources must supply 100 percent of all retail sales. RCW 19.405.050. Beginning in 2022, utilities must propose interim targets for meeting the 2030 standard in each CEIP, including specific targets for energy efficiency, demand response, and renewable energy. RCW 19.405.060(1)(a)(i)-(ii).

Q. Do you believe that PSE's proposed interim targets are appropriate?

A. In general, we support PSE's interim and specific targets for renewable energy and energy efficiency, and its proposed DER sub-target. These targets are aggressive but reasonable. As I discuss below, we believe that PSE's demand response target should be increased, and that a greater portion of PSE's DER sub-target should be reserved for community solar.

Do you believe that the modeling PSE conducted to support its proposed interim

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targets was reasonable?

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Exh. LCM-1T Page 31 of 55 No. While we generally support PSE's interim targets, we do have concerns with the analytical approach used to establish the targets, as described in the testimony of Elaine Hart (Exh. EKH-1T).

PSE relies on portfolio optimization modeling to calculate its interim clean energy targets and projected incremental cost of compliance, as described in Ms. Hart's testimony. In order for PSE to accurately calculate its interim clean energy targets and projected incremental cost, PSE's models must reflect the full value of clean energy resources. PSE's modeling – starting with their 2021 Integrated Resource Plan, and continuing into the CEIP – improperly applies the Social Cost of Greenhouse Gases, which has the effect of undervaluing renewable and non-emitting resources. PSE's modeling also undervalues the capacity contribution of energy storage, which has the effect of undervaluing that resource. As Ms. Hart explains, PSE should rerun its model with new assumptions that fully account for the Social Cost of Greenhouse Gas Emissions and the true capacity value of energy storage to ensure PSE's portfolios reflect the full value of clean resources.

Based on these new model runs, PSE should recalculate both its interim clean energy target (and storage sub-target), and its projected incremental cost of compliance. If these new model runs and associated calculations result in changes to targets or projected incremental cost, PSE should incorporate these changes in its CEIP biennial update.

Q. How should the Inflation Reduction Act (IRA) impact PSE's modeling?

A. Since PSE's CEIP analysis was conducted, President Biden has signed the Inflation
 Reduction Act (IRA), which further reduces the cost of renewable energy, energy

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storage, and demand-side resources like energy-efficient appliances. The Inflation Reduction Act provides grants, loans, and tax incentives that will drive hundreds of billions of dollars in cumulative investment in clean energy infrastructure between now and 2030. While we acknowledge that there may not be sufficient information available about the impact of these incentives on PSE's proposed targets today, it is reasonable to assume that the incentives provided through this legislation will support more aggressive targets. PSE should incorporate the cost impacts of the IRA into its Integrated Resource Plan modeling going forward.

Q. Do you recommend that PSE update its analysis to incorporate the effects of the IRA in this CEIP?

A. No. Given that we are already nearly a year into the four-year implementation period for this CEIP (as of the filing date of this testimony), we recommend that PSE move ahead with the targets for renewable energy, energy efficiency, and its DER sub-target in this CEIP (with the modifications I recommend below to demand response and community solar). Instead, PSE should update its analysis for the biennial update.

Incremental Cost

Q. How must PSE calculate the projected incremental cost of complying with CETA?

A. PSE's CEIP must include a projected incremental cost of compliance with CETA. WAC 480-100-660. This projected incremental cost calculation is meant to capture the cost of the actions that the utility would not have taken but for the requirement to comply with the clean energy standards and associated equity requirements in RCW 19.405.040 and RCW 19.405.050. *Id.*

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Exh. LCM-1T Page 33 of 55 To calculate the incremental cost of the actions PSE takes to comply with CETA, PSE must compare its lowest reasonable cost portfolio to the alternative lowest reasonable cost and reasonably available portfolio. "Alternative lowest reasonable cost and reasonably available portfolio" is defined as "the portfolio of investments the utility would have made and the expenses the utility would have incurred if not for the requirement to comply with RCW 19.405.040 and 19.405.050." When developing its projected incremental cost, PSE must demonstrate that the investments and expenses it accounts for are *directly attributable* to actions necessary to comply with, or make progress towards, the requirements of RCW19.405.040 and RCW 19.405.050. *See* WAC 480-100-660.

Q. Why is the incremental cost of CETA implementation an important consideration?

A. Incremental cost is important because CETA creates a compliance pathway that is based on a utility's actual incremental cost of meeting CETA's clean energy standards:

"An investor-owned utility must be considered to be in compliance with the standards under RCW 19.405.040(1) and 19.405.050(1) if, over the four-year compliance period, the average annual incremental cost of meeting the standards or the interim targets established under subsection (1) of this section equals a two percent increase of the investor-owned utility's weather-adjusted sales revenue to customers for electric operations above the previous year, as reported by the investor-owned utility in its most recent commission basis report. All costs included in the determination of cost impact must be directly attributable to actions necessary to comply with the requirements of RCW 19.405.040 and 19.405.050."

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RCW 19.405.060(3). In other words, a utility may comply with CETA even without meeting the statutory clean energy standards if the utility qualifies for and elects to use this cost compliance pathway. Because this cost compliance pathway is meant to be a narrow exception to the rule that utilities must meet CETA's clean energy standards, it is critical that the incremental cost calculation be accurate and not include any costs the utility would have incurred absent the obligation to comply with CETA's clean energy standards.

Q. Should the Commission determine in this proceeding whether PSE qualifies for the incremental cost compliance pathway for this CEIP?

 A. No. Importantly, it is neither necessary nor appropriate for the Commission to determine in this proceeding whether PSE has complied or has demonstrated that it may comply using this pathway. This pathway is only available once actual incremental costs are known, after the first compliance period. WAC 480-100-660(6). However, the Commission must review PSE's projected incremental cost calculation in this proceeding, and should offer guidance to PSE and the parties on which actions may appropriately be included in the calculation of projected incremental cost.
 Q. Does the CEIP provide a reasonable estimate of PSE's projected incremental cost of

CETA implementation?

A. No. PSE's projected incremental cost calculation does not accurately reflect its incremental cost of CETA implementation because many of the investments it includes in the calculation are not directly attributable to actions necessary to comply with, or make progress towards, the requirements of RCW 19.405.040 and RCW 19.405.050.

23 Q. Which costs do you believe that PSE incorrectly attributed to CETA?

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1	A.	PSE has erroneously attributed a significant portion of its grid modernization and
2		"emergent electric" expenditures (74 percent of the overall costs of those programs) to
3		CETA. While many of these investments have the benefit of enabling customer-sited
4		generation, two-way communication flow, and distributed storage, NWEC witness Josh
5		Keeling explained in his testimony in Docket UE-220066/UG-220067/UG-210918 that
6		the bulk of these expenditures are general investment priorities, and PSE has not
7		demonstrated that they are driven by CETA. ¹⁰ As Mr. Keeling explains, these are
8		investments that PSE has decided make sense for the business and its customers, which
9		also happen to support concepts identified in their CEIP. Mr. Keeling further raises
10		concerns about PSE's conclusion that any investment that relates to a CEIP requirement
11		is in fact caused by CETA, given that CETA covers a broad swathe of the utility's
12		business. It would not be surprising to see a utility like PSE undertake many if not all of
13		these investments (in some form or another) over the coming years, absent CETA.
14	Q.	Is NWEC challenging the reasonableness of these investments?
15	A.	The reasonableness of these investments for cost recovery purposes is not an issue in this
16		proceeding. However, as explained in Mr. Keeling's testimony in Docket UE-
17		220066/UG-220067/UG-210918, NWEC believes the preliminary cost estimates for grid
18		modernization investments appear reasonable. But, importantly, PSE has not justified the
19		need for such a large overall capital expense for grid modernization and DER enablement
20		in light of its lack of a robust distribution system planning effort, its lackluster demand

response target, and the absence of a longer-term programmatic strategy for supporting

¹⁰ Exh. LCM-5.

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1		DR and DERs. In particular, Mr. Keeling recommends that the capital expenditures for
2		"Circuit Enablement – DER and Microgrids" not be approved for inclusion in rates until
3		systematic and transparent distribution system planning can take place, in order to assess
4		the prudence of these investments. In its CEIP, PSE has allocated nearly all
5		software/hardware and grid modernization costs to CETA's incremental cost calculation.
6		In total, this amounts to \$55,150,180 in incremental costs, per Tab 7 ("Incremental
7		Costs") of Appendix E-2: Incremental Cost Calculations. We believe that nearly all of the
8		actions listed are investments that a modern utility operating in the 21st century could
9		reasonably make to provide their customers efficient and adequate service, and so the
10		costs of these actions are not necessarily directly attributable to CETA. Many of the
11		proposed actions will, in fact, create a more efficient, less expensive system for PSE to
12		operate. Therefore, these costs should also be included in a No-CETA base case for the
13		purpose of calculating the incremental cost of CETA.
14	Q.	What do you recommend, as it relates to PSE's projected incremental cost
15		calculation?
16	A.	After making the corrections to the modeling as recommended by Ms. Hart for both the
17		CETA portfolio and the no-CETA portfolio, and removing the grid modernization and
18		DER enablement expenditures as recommended by Mr. Keeling, I recommend that PSE
19		recalculate its projected incremental cost for the sole purpose of demonstrating
20		compliance with WAC 480-100-660.
21		Specific Actions
22	Q.	Please explain the requirement that a CEIP include "specific actions."

1	A.	Each CEIP must include the specific actions the utility will take over the implementation
2		period that will allow the utility to meet CETA's clean energy standards and the utility's
3		interim targets. WAC 480-110-640(5)-(6). CEIPs must include certain data about each
4		specific action in tabular format – such as general location and cost, metrics relating to
5		resource adequacy, and an assessment of customer benefits including impacts to named
6		communities. WAC 480-110-640(5). CEIPs must also include a narrative description of
7		specific actions, explaining how the selected specific actions demonstrate progress
8		toward CETA's clean energy standards identified in WAC 480-100-610(2) and the
9		utility's interim targets, and how the selected specific actions will impact the distribution
10		of customer benefits and burdens to all customers and specifically to named
11		communities, among other requirements. WAC 480-110-640(6).
12	Q.	Does PSE's CEIP meet the requirements related to specific actions? Explain.
12 13	Q. A.	Does PSE's CEIP meet the requirements related to specific actions? Explain. No. As described in the testimony of Kara Durbin (Exh. KKD-1T), the "specific actions"
13		No. As described in the testimony of Kara Durbin (Exh. KKD-1T), the "specific actions"
13 14		No. As described in the testimony of Kara Durbin (Exh. KKD-1T), the "specific actions" that PSE has proposed include execution of its All-Source and DER RFPs and acquisition
13 14 15		No. As described in the testimony of Kara Durbin (Exh. KKD-1T), the "specific actions" that PSE has proposed include execution of its All-Source and DER RFPs and acquisition of energy efficiency measures detailed in its Biennial Conservation Plan. PSE's approach
13 14 15 16		No. As described in the testimony of Kara Durbin (Exh. KKD-1T), the "specific actions" that PSE has proposed include execution of its All-Source and DER RFPs and acquisition of energy efficiency measures detailed in its Biennial Conservation Plan. PSE's approach is problematic because it is not possible for PSE to describe the impact of its actions on
13 14 15 16 17		No. As described in the testimony of Kara Durbin (Exh. KKD-1T), the "specific actions" that PSE has proposed include execution of its All-Source and DER RFPs and acquisition of energy efficiency measures detailed in its Biennial Conservation Plan. PSE's approach is problematic because it is not possible for PSE to describe the impact of its actions on the clean energy transformation standards or on customer benefits including to named
13 14 15 16 17 18		No. As described in the testimony of Kara Durbin (Exh. KKD-1T), the "specific actions" that PSE has proposed include execution of its All-Source and DER RFPs and acquisition of energy efficiency measures detailed in its Biennial Conservation Plan. PSE's approach is problematic because it is not possible for PSE to describe the impact of its actions on the clean energy transformation standards or on customer benefits including to named communities with any specificity until PSE has selected actual, concrete, specific
13 14 15 16 17 18 19		No. As described in the testimony of Kara Durbin (Exh. KKD-1T), the "specific actions" that PSE has proposed include execution of its All-Source and DER RFPs and acquisition of energy efficiency measures detailed in its Biennial Conservation Plan. PSE's approach is problematic because it is not possible for PSE to describe the impact of its actions on the clean energy transformation standards or on customer benefits including to named communities with any specificity until PSE has selected actual, concrete, specific resource actions from the results of its RFPs.

may pursue during the four-year period." Ms. Durbin provided the caveat, however, that "actual DER development... will depend upon RFP results." (Exh. KKD-1T at 17.)

In Chapter 8 of the CEIP and in Ms. Durbin's testimony, PSE commits to including the results of the All-source and Targeted DER RFP in the 2023 Biennial CEIP Update. In this update, PSE will use the results of the RFPs to better describe the specific actions PSE will take, including projects PSE has acquired and programs PSE is developing. While I appreciate that PSE is willing to eventually identify the specific actions it will take, PSE is required to include these specific actions in the CEIP itself, not in an update two years after the final CEIP. PSE's approach eliminates the opportunity for meaningful public input on PSE's actual specific actions, because the CEIP is finalized long before PSE selects those actions.

Q. In your opinion, what are the shortcomings with PSE's approach to specific actions in this CEIP?

A. There are several problems with the approach that PSE took to identify specific actions in this CEIP. First, as I discussed above, PSE's process for developing this CEIP means specific actions will not be included until the biennial update, which is two years too late and forecloses critical opportunities for public input.

Second, even for PSE's proposed generic programs that may ultimately inform its choice of specific actions, I have observed that PSE habitually and indiscriminately disregards feedback from advisory group members and the public during the planning process. PSE typically collects feedback through feedback forms, and responds in writing several weeks later. PSE's feedback forms are attached as part of the Advisory Group Meeting Materials (appendix C-3 to the CEIP). The lack of actual dialogue in this

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approach limits opportunities for stakeholder buy-in, and makes collaboration all but impossible.

Third, PSE's process for selecting specific actions is neither transparent nor even accessible through discovery to intervenors who have signed the protective order in this docket. In an attempt learn more about what the specific actions in this CEIP could be, NWEC and Front and Centered submitted multiple data requests to the Company. PSE responded by objecting to our data requests. (See Exh. LCM-6.) It is therefore impossible for intervenors to know what specific actions PSE is even considering. If we don't know what specific actions PSE is considering, then even parties to a formal adjudication can't know how those actions will impact named communities. Communities and stakeholders that are not parties to a formal adjudication have even less access to information on the specific actions PSE is considering, and so are unable to provide meaningful input that can actually influence outcomes. PSE's practices of withholding relevant information from stakeholders and limiting the impact of public participation in its own decisionmaking processes ultimately undermine the planning process, calling the relevance of its CEIP into question. The Commission should reject this flawed approach, and provide guidance to ensure transparency and accountability going forward.

Q. What could a better approach to identifying specific actions look like?

A. The CEIP should commit to the specific actions that appear to best accomplish CETA's goals based on the data that is available to PSE during the stakeholder engagement and CEIP drafting process. If the RFP results indicate that the approved specific actions are not feasible, or not optimal, then the CEIP can be revised during the biennial update based on the new information obtained through the RFP. Information supporting the

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revision can and should be made publicly available for stakeholder and public review. 1 This is foundational to building trust in the process, and obtaining stakeholder and 2 3 customer buy-in for the CEIP's outcomes. 4 Q. How can PSE remedy its failure to include specific actions in this CEIP? 5 A. In future CEIPs, PSE should develop specific actions in collaboration with the 6 communities it serves, as part of the development of the initial CEIP. Since the 7 opportunity for that advance collaboration has passed for this CEIP, PSE should offer an opportunity for public comment on the specific actions it includes in its biennial update. 8 9 Additionally, PSE should adopt the modifications I propose to PSE's specific actions in 10 the next section of my testimony. 11 **Customer-side Resources** 12 Please describe CETA's resource prioritization. Q. 13 CETA establishes resource prioritization that utilities must follow in planning and A. 14 procurement decisions. First, utilities are required to pursue all cost-effective, reliable and 15 feasible conservation and efficiency resources and demand response. Second, if new investments are necessary, utilities must consider acquiring existing renewable resources, 16 17 and then new renewable resources and energy storage, before considering other 18 resources. RCW 19.405.040(6)(a)(ii) and (iii). 19 Q. Please describe CETA's requirements for demand response. 20 A. "Demand response" means changes in electric usage by demand-side resources from their 21 normal consumption patterns in response to changes in the price of electricity, or to 22 incentive payments designed to induce lower electricity use, at times of high wholesale 23 market prices or when system reliability is jeopardized. "Demand response" may include Prefiled Response Testimony Exh. LCM-1T (Nonconfidential) of Lauren C. McCloy Page 41 of 55

1	measures to increase or decrease electricity production on the customer's side of the					
2	meter in response to incentive payments. (RCW 19.405.020(11)). CETA requires					
3	utilities, in their CEIPs, to propose a target for demand response. RCW					
4		19.405.060(1)(a)(i).				
5	Q.	Q. Has PSE developed a demand response target?				
6	A.	A. Yes.				
7	Q.	Q. Describe the process that PSE engaged in to develop its demand response target.				
8	A.	PSE witness Ms. Durbin describes the process that PSE undertook to develop its DR				
9		target of 23.7 MW for this CEIP:				
10		"PSE commissioned a conservation potential assessment that included an analysis				
11		of DR opportunities. Because PSE is a winter peaking utility, PSE focused on DR				
12		programs that could reduce PSE's winter peak demand. This was a bottom-up				
13		analysis that looked at factors such as number of customers, equipment saturation				
14		rates, expected load impact, market conditions, and customer adoption estimates.				
15	Using the information from the conservation potential assessment, PSE estimated					
16	the cost-effectiveness of the effective DR programs.					
17		This DR target represents what PSE hopes to achieve over this CEIP period. As				
18		noted above, however, depending on the results of its DER RFP, PSE may update				
19		its DR target based on market availability." (KKD-1T at 21-22.)				
20	Q.	Is PSE's demand response target reasonable?				
21	A.	No. As discussed in Mr. Keeling's testimony in Docket UE-220066/UG-220067/UG-				
22	210918, attached as Exh. LCM-5, PSE's DR target is based on overly conservative					
23		assumptions for effective load carrying capacity (ELCC) for demand response, which are				
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not aligned with other utilities in the region. Mr. Keeling also notes that PSE did not consider large commercial or industrial (C&I) demand response applications, which are common programs for other utilities in the region, including Tacoma Power, PacifiCorp, and Portland General Electric. According to Mr. Keeling, "the combined effect of these conservative assumptions by PSE is that the utility places an unrealistically high value on central station thermal generators over the demand-side resources. The result is an artificially low target for demand response, which leaves significant system benefits on the table." (*See* Exh. LCM-4 at 17–21.)

Further, PSE's DR target does not include summer demand response, which PSE
did not evaluate in its demand response potential assessment, nor does it include the
demand response capacity which PSE recently agreed to pursue as part of a proposed
Partial Multiparty Settlement Stipulation in Docket UE-220066/UG-220067/UG-210918.
PSE agreed to acquire 40 MW of DR during the two-year rate plan (2023-2024). PSE's
own DR RFP shows 160 MW of Tier 1 demand response available today, even with the
conservative economics put forward by the utility.

Finally, PSE's analysis of its planned DR specific actions, including residential Direct Load Control, likely overstates costs and understates benefits due to a variety of errors in PSE's analysis, discussed in detail in the testimony of Scott Reeves (Exh. SR-1T) in this docket.

Q. Has PSE met its obligation to "pursue all cost-effective demand response," as required by RCW 19.405.040(6)(a)(ii)?

A. No. PSE has not demonstrated that it has met this obligation. PSE's 2021 Integrated
 Resource Plan, and therefore its current CEIP, both undervalue the capacity contribution

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Exh. LCM-1T Page 43 of 55 of DR as described by Mr. Keeling, and discount PSE's summer peaking needs as described by Ms. Hart. Further, PSE only considered winter DR in its conservation and demand response potential assessment. These assumptions are sufficiently unreasonable, outdated, and out of alignment with the realities driving the need for demand response in the region that the Commission should reject PSE's proposed DR target, and require PSE to develop a new DR target equal to the amount of cost-effective DR bids received in its DR RFP.

Q. What should PSE's DR target be in this CEIP and how should it be developed?

A. The target for this CEIP should be equal to all cost-effective summer and winter DR received in response to the RFP process. This number is unknown to us due to PSE's failure to respond to our data requests. However, it is known to PSE. And, we know that it may be up to 160 MW, as identified in the RFP summary report. In order to update its DR target, we recommend that PSE do the following:

update the ELCC values for demand response to reflect DR contribution to summer and winter peak;

 (2) update its generic cost assumptions to reflect the costs of bids received in the DER/DR RFP process, particularly the cost of Residential Smart Thermostat Direct Load Control;

(3) include DR as an available resource in the portfolio model in its IRP for both summer and winter peak, and reoptimize its portfolio to establish the CEIP DR target.

Q. Why not propose a more specific DR target?

1 A. PSE did not provide the information necessary for intervenors to assess the cost-2 effectiveness of the bids received on its DR RFP. PSE objected to our request for that information. 3 4 Q. How can this situation be remedied in the future? 5 A. In the future, PSE could avoid having to rerun its models after its Final CEIP has been 6 submitted by incorporating stakeholder feedback on important issues like the capacity 7 contribution and summer peaking value of DR during the planning process. NWEC 8 raised these issues during the planning process, in comments on the IRP in February and 9 May 2021, and draft CEIP in December 2021. 10 Q. **Describe CETA's requirements for energy efficiency.** 11 A. CETA requires that utilities "pursue all cost-effective energy efficiency," and propose an 12 energy efficiency target in the CEIP. RCW 19.405.040(6)(a); RCW 19.405.060(1)(a)(i). 13 Q. Has PSE developed an energy efficiency target? 14 A. Yes. 15 Q. Describe the process that PSE undertook to develop an energy efficiency target for this CEIP. 16 17 A. PSE developed its EE target through the Biennial Conservation Planning ("BCP") 18 process. When the Social Cost of Greenhouse Gases was incorporated into the model, 19 PSE's EE portfolio target increased by fifty-eight percent across the board for each 20 measure. 21 Q. Is PSE's EE target reasonable? 22 Yes. We support PSE's EE target, as proposed in its BCP and CEIP. However, we do not A. 23 believe that PSE has planned to deliver its EE portfolio in its CEIP to achieve equitable Prefiled Response Testimony Exh. LCM-1T (Nonconfidential) of Lauren C. McCloy Page 45 of 55 outcomes. As discussed in the testimony of Roger Colton (Exh. RDC-1T), we recommend that PSE target its programs to the customers with greatest need. This will require increasing funding for PSE's EE programs to ensure that low-income and named community customers have access to savings that do not require a prohibitively high level of customer investment.

Q. Has PSE developed other targets that you want to address?

A. Yes. PSE has developed a DER sub-target, which is not required by CETA, but contributes to meeting CETA's equity mandate. PSE's sub-targets include 80 MW of new distributed energy resources and 25 MW of distributed storage. CEIP at Ch.2 p.26. Within the 80 MW of new distributed energy resources, PSE predicted that its preferred portfolio would include 25.6 MW of community solar (divided between community solar, income-eligible community solar, and multi-family community solar programs). CEIP at Ch.2 p.41-42. While we generally support PSE's DER sub-target, we believe a greater portion of that sub-target should be allocated to community solar programs.

Q. What increase are you recommending to PSE's community solar programs? Explain.

A. Community solar programs offer one of the best opportunities to ensure the equitable distribution of benefits from PSE's DER programs. As discussed in greater detail in the testimony of Scott Reeves (Exh. SR-1T), community solar programs, if well designed, can be accessible to any PSE customer, unlike some rooftop solar programs that are only accessible to homeowners. Community solar subscriptions that have reduced fees and subscription costs based on income or other qualifications can make clean energy affordable and significantly reduce energy burden. While I appreciate PSE's decision to

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Exh. LCM-1T Page 46 of 55 increase its planned community solar program from the draft to the final CEIP based on stakeholder and advisory group input, I believe PSE should increase its community solar program to 50 MW in 2025, representing 25 MW annually in 2024 and 2025.

Q. Why do you believe this significant increase in PSE's community solar programs is appropriate?

A. PSE has proposed a total of 80 MW of distributed solar programs, spread across seven programs. Of the total 80 MW for distributed solar programs taken together, only 9.88 MW appeared to be explicitly allocated for income-eligible customers, highly impacted communities, or multifamily customers. In other words, only slightly more than 12% of the energy benefits of PSE's distributed solar programs are specifically designated, and vulnerable populations are not explicitly included in the designation. In contrast, PSE reports that 27% of PSE's customers are in highly impacted communities and 37% are in highly vulnerable populations. (CEIP, Figures 3-6 and 3-7, p.63.) This means that named communities may receive a significantly smaller share of the energy benefits of PSE's distributed solar programs than their share of PSE's customer base, without increased targets and intentional planning. Significantly increasing the community solar target to 50 MW and targeting that increase to named communities and low-income customers will help to ensure that the energy and nonenergy benefits of PSE's actions are equitably distributed.

Q. Are you recommending other changes to PSE's proposed solar programs?

A. Yes. I recommend that PSE not pursue its proposed solar rooftop leasing program. The solar rooftop leasing program does not direct the energy benefits of the solar installation to the participants, does not increase community self-governance, and does not allow

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Exh. LCM-1T Page 47 of 55 named community participants to benefit from the increased property values or wealth accumulation that an ownership-based pathway could provide.

More broadly, I also recommend that PSE ensure all its solar programs are targeting and benefitting named communities through changes to program design and minimum designations, as described in the testimony of Scott Reeves (Exh. SR-1T).

Q. What do you mean by "minimum designations"?

A. By "minimum designations," I mean a specific amount of the energy or capacity of a given program or tranche of programs that is earmarked for delivery to a subset of customers, such as named communities or low-income customers.

Q. How do you believe PSE should use minimum designations?

A. As described in more detail in the testimony of Roger Colton and Scott Reeves, I believe PSE should develop minimum designations for each of its DER offerings (or at a minimum, across a tranche of offerings such as across all solar programs). Minimum designations are one of the simplest and clearest ways to ensure that the energy benefits of PSE's DER programs are equitably distributed.

Q. Why do you believe minimum designations are necessary?

A. As described in the testimony of Roger Colton, absent minimum designations, there are significant market barriers to low-income and named community participation in EE and other DER programs. Absent minimum designations, and deliberate strategies and changes to program design to ensure these minimum designations are met, it is likely that low-income and named community customers will be underrepresented in PSE's DER programs and will not receive an equitable share of the benefits.

3 Q. Which programs should be subject to minimum designations?

Prefiled Response Testimony (Nonconfidential) of Lauren C. McCloy Exh. LCM-1T Page 48 of 55 A. All of PSE's DER offerings, either by individual program or at a minimum across tranches of offerings (e.g., all solar programs), should have minimum designations for named communities.

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Q. What level of minimum designation is appropriate?

A. I believe PSE should work with its advisory groups and stakeholders to develop more specific minimum designations for its next CEIP. As a baseline, the level of minimum designation should presumptively mirror the percentage of named communities in PSE's customer base. PSE reports that 27% of PSE's customers are in highly impacted communities and 37% are in highly vulnerable populations. (CEIP, Figures 3-6 and 3-7, p.63.) For this initial CEIP, we recommend that PSE commit to achieving a minimum of 30% of energy benefit targets flowing to named communities by 2025 for each of its DER solar, DER storage, DR, and EE programs.

Q. Should minimum designations apply to all named communities and low-income customers as an undifferentiated group?

A. Eventually, no. PSE should work to identify the subset of named community and lowincome customers with deepest need, as discussed in the testimony of Roger Colton. PSE should develop sub-designations for these specific customers. Just as PSE must ensure that the benefits of its actions are equitably distributed between named communities and all customers, so too must PSE ensure that benefits are equitable within named community customers. Some groups of named community customers are likely to be much more difficult to reach than others, and PSE must work to identify those customers and find a way for them to access benefits from each of PSE's DER programs (or tranche of programs).

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Exh. LCM-1T Page 49 of 55 Moreover, PSE should collaborate with the named communities it serves to tailor the DER and other offerings in each individual community to meet each community's needs. To the greatest extent possible, PSE should work to propose specific actions that alleviate the specific factors that led to a community's designation as highly impacted or vulnerable.

Q. Are you recommending any changes to PSE's proposed distributed storage programs?

A. Yes. As discussed in the testimony of Scott Reeves, I recommend that PSE adopt program design, targeting, and minimum designations to ensure named communities and low-income customers equitably benefit from PSE's distributed storage programs. PSE has proposed 16.3 MW of distributed storage between two programs, with only 0.3 MW of one program (battery leasing) designated for income-eligible customers—meaning that less than 2% of the energy benefits of PSE's distributed storage programs are specially designated. PSE should develop targeted program designs and minimum designations to ensure a much greater percentage of the energy and nonenergy benefits of its storage programs flow to named communities and low-income customers.

7 Q. Should PSE intentionally pursue opportunities to co-deploy DER resources?

A. Yes, I recommend that PSE intentionally pursue co-deployment of all its DER programs to increase savings and reduce costs, as discussed in the testimony of Scott Reeves.

CONCLUSION

Q. Please summarize your recommendations.

A. We recommend the following conditions:

1	1.	PSE commits to achieving a minimum of 30% of energy benefit targets
2		flowing to named communities by 2025 for each of its DER solar, DER
3		storage, DR, and EE programs. PSE also commits to develop a geotargeting
4		approach to identify the customers and communities with deepest need within
5		the broader category of named communities, in consultation with stakeholders
6		and advisory groups. By the 2023 Biennial CEIP Update, PSE will designate a
7		minimum percentage of energy benefits that will flow to named communities
8		with deepest need.
9	2.	PSE commits to developing and implementing a DER Public Engagement
10		Pilot to gain experience with and understanding of engaging named
11		community members at the "Empowerment" level in developing DER
12		offerings specifically for named communities. PSE will collaborate with the
13		EAG, other relevant advisory groups, and stakeholders to develop this pilot.
14		PSE will begin work on the design of the pilot within three months of a signed
15		settlement agreement, and will implement the pilot after the 2023 Biennial
16		CEIP Update.
17	3.	PSE will increase its community solar target from 25.4 MW to 50 MW, and
18		will remove the residential rooftop solar leasing from consideration in its list
19		of DER programs.
20	4.	PSE will update its energy efficiency target no later than the 2023 Biennial
21		Update, and in its Biennial Conservation Plan based on continued discussion
22		with the Conservation Resource Advisory Group (CRAG) and EAG.

Discussion will include program design elements which could promote more participation in EE in named communities.

- 5. PSE will conduct an equity analysis for the All-Source RFP proposals so that it can be fairly compared to the DER RFP proposals. PSE will solicit more information from bidders and/or independently develop additional information as necessary to effectively evaluate the equity components of the All-Source and DER RFP proposals.
- 6. In the 2025 CEIP, PSE will describe how specific program selection and implementation actions will mitigate risks and reduce burdens to named communities. PSE will incorporate qualitative data on the lived experience of named communities in this distributional equity analysis.
- PSE will increase its demand response target to include all cost-effective DR bids it received in response to its recent RFP, using the methodology described in my testimony.
 - 8. PSE will include the following additional CBIs and metrics in this CEIP:
 - In the category of energy benefits, a new CBI "Increased Named Community Clean Energy," and new metrics, "increase percentage of utility spending on DR, DER, and renewable energy programs that benefits highly impacted communities or vulnerable populations";
 "increase average energy savings per home for customers in highly impacted communities and vulnerable populations taking part in each of PSE's DER programs"; "Increased number and percentage of appliances converted to efficient models in named communities"; "Improvement and

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expansion of energy efficiency in rental housing stock in named communities"; "Increase total MWh of distributed energy resources 5 MW and under, where benefits and control of the resource accrue to members of named communities"; "Increase total MWs of energy storage resources 5 MW and under, where benefits and control of the resource accrue to members of named communities"; "Increase number (i.e., sites, projects, and/or households) of distributed renewable generation resources and energy storage resources, where benefits and control of the resource accrue to members of named communities"; and "Increase total MWh of energy savings from EE programs, where benefits and control of the savings accrue to members of named communities." Where known, for each of the preceding four metrics, PSE will specify whether the named community resources are in highly impacted communities and/or vulnerable populations and/or known low-income customers. For vulnerable populations, where known, PSE will specify named community resources broken down by the sensitivity factors and/or socioeconomic factors that led the customer or community to be designated highly vulnerable. In the category of public health, an additional CBI, "Improved indoor air quality," and additional metrics, "Reduced annual SO2 emissions in

> named communities from utility-owned electric generation resources, by census tract"; "Reduced annual NOx emissions in named communities from utility-owned electric generation resources, by census tract";

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1	"Reduced annual PM2.5 emissions in named communities from utility-
2	owned electric generation resources, by census tract"; "Improved housing
3	quality"; and "Decreased health impacts from extreme heat."
4	• In the categories of "reduction in cost" and "energy security," two new
5	CBIs, "Reduced residential Arrearages and Disconnections for
6	Nonpayment," and "Reduced number of Households with a High Energy
7	Burden (>6%)," as well as additional metrics, Decreased number and
8	percentage of residential electric disconnections for nonpayment by
9	month, measured by location and demographic information (zip
10	code/census tract, KLI customers, Vulnerable Populations, Highly
11	Impacted Communities, and for all customers in total); Decreased
12	residential arrearages as reported pursuant to Commission Order 04 in
13	Docket U-200281; Decreased number and percent of households with a
14	high energy burden (>6%); and Decreased average excess burden per
15	household.
16	9. PSE will adopt a set of readability guidelines for its next CEIP.
17	10. PSE will rerun its portfolio optimization models with updated methodology
18	for incorporating the Social Cost of Greenhouse Gas Emissions and updated
19	capacity values for energy storage. PSE will recalculate its interim clean
20	energy targets and energy storage sub-target, and its projected incremental
21	cost of compliance with CETA, based on these new model runs. PSE will
22	incorporate any changes in its Biennial Update.

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Exh. LCM-1T Page 54 of 55 PSE will remove the grid modernization and "emergent electric" expenditures described in Mr. Keeling's testimony from its projected incremental cost of compliance with CETA.

12. PSE commits to develop deeper partnerships with the named communities it serves, and commits to implementing the priorities and actions identified by communities. PSE also commits to develop tools, such as an energy justice scorecard, that allow communities to hold PSE accountable to its goals.

Q. Does this conclude your testimony?

A. Yes, it does.

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