EXH. MNL-1T DOCKETS UE-22 //UG-22 2022 PSE GENERAL RATE CASE WITNESS: MARK NEWTON LOWRY

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

Docket UE-22____ Docket UG-22

PUGET SOUND ENERGY,

Respondent.

PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF

MARK NEWTON LOWRY

ON BEHALF OF PUGET SOUND ENERGY

JANUARY 31, 2022

PUGET SOUND ENERGY

PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF MARK NEWTON LOWRY

CONTENTS

I.	INTRODUCTION
II.	PURPOSE OF TESTIMONY
III.	PERFORMANCE-BASED REGULATION4
IV.	THE COMPANY'S MYRP PROPOSAL16
V.	PERFORMANCE METRICS AND PIMS IN THE PSE PROPOSAL19
	A. Development of PSE's Performance Metrics and PIMs19
	B. Demand Side Management Metrics25
	C. Transportation Electrification Metrics
	D. Emissions Metrics
	E. Advanced Metering Infrastructure Metrics45
	F. Additional Equity Metrics47
VI.	APPRAISAL OF THE COMPANY'S MYRP PROPOSAL
VII.	CONCLUSION

PUGET SOUND ENERGY

PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF MARK NEWTON LOWRY

LIST OF EXHIBITS

- Exh. MNL-2Professional Qualifications of Mark Newton LowryExh. MNL-3Report on Performance-Based Regulation for Puget Sound
Energy
- Exh. MNL-4 Details of Proposed Scorecard Metrics
- Exh. MNL-5 Details of Proposed PIMs

1		PUGET SOUND ENERGY
2 3		PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF MARK NEWTON LOWRY
4		I. INTRODUCTION
5	Q.	Please state your name, current occupation, and business address.
6	А.	My name is Mark Newton Lowry. I am the President of Pacific Economics Group
7		Research LLC ("PEG"). My business address is 44 East Mifflin Street, Suite 601,
8		Madison, Wisconsin, 53703.
9	Q.	Have you prepared an exhibit describing your education, relevant
10		employment experience, and other professional qualifications?
11	A.	Yes. This information is provided in Exh. MNL-2.
12	Q.	Please summarize your professional experience.
13	А.	I earned a PhD in applied economics from the University of Wisconsin and have
14		worked as an economist for more than thirty years. Most of my work has been in
15		the field of utility economics. My specialties include performance-based
16		regulation ("PBR") and statistical research on energy utility performance. I have
17		testified on these topics in more than 50 rate proceedings. I have additionally
18		spoken at many conferences on these topics and have authored dozens of
19		professional publications. Before becoming President of PEG in 2009, I was a

Prior to that I was a vice president at Laurits R. Christensen Associates here in Madison and spent several years as an assistant professor teaching energy economics at the Pennsylvania State University.

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Q. What are your duties at PEG?

5 A. PEG is a consulting firm that works primarily in the field of energy utility 6 economics. We are well known for our PBR and statistical performance research. 7 Our personnel collectively have over seventy years of experience in these fields, 8 which have a common foundation in economic statistics. Working for diverse 9 clients that include utilities, regulators, government agencies, and consumer and 10 environmental groups has given us a reputation for objectivity and dedication to 11 good regulation. PBR for vertically-integrated electric utilities and gas utilities are 12 specialties.

My principal duties as President of PEG are the supervision of research, client
consultation, and the provision of expert witness testimony. I also oversee the
company's business affairs.

II. PURPOSE OF TESTIMONY

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Q. On whose behalf are you testifying in this proceeding?

18 A. I am testifying on behalf of Puget Sound Energy ("PSE" or "the Company").

Prefiled Direct Testimony (Nonconfidential) of Mark Newton Lowry

Exh. MNL-1T Page 2 of 51

Q. What is the purpose of your testimony?

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A. In this proceeding, PSE is filing a rate case and a PBR proposal that includes a multiyear rate plan ("MYRP"). My testimony provides an overview of PBR and MYRPs, describes and appraises the Company's MYRP proposal, and discusses in some detail the performance metrics in the proposal. Senate Bill 5295 provides for a transformation of Washington energy utility regulation in the direction of MYRPs and other kinds of PBR such as performance metrics and performance incentive mechanisms ("PIMs"). The Company retained PEG to help it develop metrics and PIMs for its MYRP proposal. PSE also asked us to prepare a report and testimony that provides a constructive overview of PBR and discusses the metrics and other PIMS in the Company's proposed plan. The report is contained in Exh. MNL-3.

Q. Please provide an overview of the report on Performance-Based Regulation you prepared for PSE.

A. The report discusses some limitations of traditional ratemaking under modern
 business conditions and how these limitations have led to the development of
 PBR. Succeeding sections of the report discuss the major PBR approaches.

18The final section of the report considers PBR for Puget Sound Energy. It begins19by discussing key features of PSE's operations and regulatory environment. The20report notes that the Company is currently operating under several forms of PBR21and that rate regulation using MYRPs and PBR has been legislatively mandated in

1		Washington. The report concludes with a discussion of the Company's MYRP,
2		according particular attention to the metrics and PIMs contained therein.
3		III. PERFORMANCE-BASED REGULATION
4	Q.	Please provide an overview of PBR.
5	A.	Dissatisfaction with the traditional cost of service approach to ratemaking
6		("COSR") has prompted the development of diverse alternative approaches that
7		are collectively called "alternative regulation" or "Altreg." These Altreg
8		approaches vary in the incentives they provide to utilities to perform well. Altreg
9		approaches that provide relatively strong performance incentives are called
10		performance-based regulation.
11		There are four well-established approaches to PBR.
12 13 14 15 16		• <u>Decoupling</u> . The relationship between revenue and system use can be relaxed through such means as revenue decoupling. Decoupling reduces the "throughput" incentive that discourages utilities from embracing demand-side management ("DSM"). It also encourages innovative rate designs that facilitate DSM.
17 18 19 20 21		• <u>Performance Metrics</u> . Metrics can be used to monitor utility activities in key performance areas. They can be paired with targets to measure utility performance. Metrics and targets can provide the basis for PIMs that link the earnings of a utility to its measured performance. Metrics that are not paired with targets or PIMs may be called "tracker" metrics.
22 23 24 25 26		• <u>Targeted Incentives for Underused Practices</u> . Other PBR provisions provide targeted encouragement for desirable practices that utilities tend to underuse. These provisions include pilot programs, management fees, trackers and associated rate riders or deferrals for costs of underused practices, the capitalization of certain costs that are operation and
	(None	ed Direct Testimony Exh. MNL-1T confidential) of Page 4 of 51 Newton Lowry

1 2	maintenance ("O&M") expenses, and rate of return premiums. A common example is the tracker treatment of DSM expenses.
3 4 5 6 7 8 9	• <u>Multiyear Rate Plans</u> . MYRPs strengthen the incentive of utilities to contain the cost of their base rate inputs. This is due in part to a reduction in the frequency of rate cases. Reduced rate case frequency also streamlines regulation, freeing resources in the ratemaking community to concentrate on other matters such as integrated resource and clean energy plans, new rates and services, and important emerging generic issues. The efficiency of regulation is thus enhanced.
10	These PBR approaches are often used in combination as depicted in Figure 1
11	below. For example, multiyear rate plans often feature revenue decoupling,
12	several performance metrics and PIMs, and some pilot programs and trackers for
13	costs of underused practices.



1 2 3 4 5 6		• Revenue adjustments are typically permitted for events that affect utility finances, are largely beyond the utility's control, and difficult to foresee. These events are sometimes said to be "Z factored." Events that are commonly eligible for Z factoring include major storms, changes in accounting standards, transportation system construction, and changes in tax laws or regulatory policies.
7		• MYRPs often also include service quality metrics and PIMs.
8		A number of other provisions are sometimes added to MYRPs, including the
9		following.
10		• Revenue decoupling is a component of many MYRPs.
11		• Many plans have additional performance metrics and PIMs.
12 13 14		• Some MYRPs feature an earnings sharing mechanism ("ESM") that shares surplus and/or deficit earnings with customers when the utility's rate of return on equity ("ROE") varies from the commission-authorized target.
15 16 17		• Off-ramp mechanisms may permit reconsideration and possible suspension of an MYRP under pre-specified outcomes such as an unusually high or low ROE.
18 19 20		• Special incentives for underused practices are also found in many MYRPs. For example, costs of DSM are usually tracked and pilot programs are common.
21 22 23 24 25 26		• Some MYRPs have marketing flexibility provisions. These typically involve light-handed regulation of optional rates and services that a utility offers. The optional services that PSE already offers include green power and managed residential EV charging. Provisions like these can help utilities respond to the complex and changing needs of customers and encourage beneficial loads.
27	Q.	How popular is the MYRP approach to regulation?
28	A.	MYRPs have been used in North America since the 1980s. They were first used
29		on a large scale for railroads and incumbent telecommunications carriers. These
30		industries had a particular need for marketing flexibility and achieved rapid
	(Non	led Direct Testimony Exh. MNL-1T confidential) of Page 7 of 51 Newton Lowry

productivity growth under MYRPs. The Federal Energy Regulation Commission has used MYRPs for many years to regulate oil pipelines.

MYRPs have also been used on many occasions to regulate retail services of gas and electric utilities. Recent precedents for MYRPs in North America are detailed in the maps below in Figure 2 and Figure 3. In the United States, California utilities have operated under commission-imposed rate plans that limit the frequency of rate cases since the 1980s. MYRPs became popular in some northeastern states (e.g., Maine, Massachusetts, and New York) in the 1990s.

MYRPs are now fairly widespread. Today, energy distributors operate under MYRPs in California, Ohio, New York, and New England. Use of MYRPs has also spread to vertically-integrated electric utilities ("VIEUs") in diverse states including Arizona, Florida, Louisiana, Minnesota, and Virginia. In addition to Washington, a recent law encourages MYRPs in North Carolina.

MYRPs are even more widely used in Canada to regulate energy utilities. British Columbia, Washington's neighbor province, was an early innovator and recently decided to regulate BC Hydro, a large VIEU, with a MYRP. MYRPs are also common in Alberta, Ontario, and Québec. Overseas, MYRPs are the norm for energy utilities in several English-speaking countries (e.g., Australia) as well as in western Europe.

Prefiled Direct Testimony (Nonconfidential) of Mark Newton Lowry

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Mark Newton Lowry

Exh. MNL-1T Page 9 of 51

1	Q.	Please discuss the design of revenue adjustment mechanisms.
2	A.	There are several well-established approaches to RAM design.
3 4 5 6		• Cost growth can be forecasted over a multiyear period. In MYRPs in Minnesota, New York, and Ontario, forecasts of capital cost growth have been combined with refunds when actual capital cost was less than was forecasted.
7 8		• Revenue growth can be indexed to customer growth and inflation. This approach is especially popular for energy distribution.
9 10		• Rates (or revenue per customer) can be frozen, with supplemental revenue permitted for the annual cost of plant additions.
11 12		• Hybrid revenue caps feature a mix of these basic approaches. California is a well-known practitioner.
13	Q.	How are performance metrics used in utility regulation?
14	A.	Performance metrics quantify aspects of utility operations which matter to
15		customers and the public. A performance metric system can routinely monitor
16		select metrics and use them in performance appraisals. These systems usually
17		include a mix of PIMs, metrics with targets, and tracker metrics. Scorecards
18		summarizing results for key metrics are often tabulated and posted on a publicly-
19		available website.
20	Q.	What are the advantages of metrics and PIMs?
21	A.	Metrics and PIMs have innate advantages in ratemaking.
22 23 24 25 26		• PIMs can strengthen financial incentives to perform better in targeted areas that matter to regulators, customers, and the general public. Even in the absence of explicit financial incentives, utilities have some incentive to perform well in areas where there are metrics because they can garner valuable goodwill from regulators and the public.
		led Direct Testimony Exh. MNL-1T confidential) of Page 10 of 51

Mark Newton Lowry

1 2 3 4 5		• Metrics and PIMs have been found particularly useful in addressing weak spots in regulatory system incentives. For example, many observers believe that a salient weak spot in most energy utility ratemaking systems is a lack of incentives to contain environmental damage. For instance, although there is significant concern about greenhouse gas ("GHG")
6 7 8 9 10		emissions, absent some form of carbon tax or GHG regulation, there has been little incentive to address them. Other parties will be concerned abou the terms of service to low-income and other disadvantaged groups in the service territory. PIMs can help align utility regulation with public policy goals.
11		Incentive weak spots can exist even in systems that contain other PBR
12		mechanisms. One reason is that other PBR provisions can sometimes create
13		undesirable incentive "side effects" that metrics and PIMs can address. For
14		example, the stronger incentives that MYRPs can engender to contain the cost of
15		base rate inputs may raise concerns about the quality of utility services. Service
16		quality PIMs are a useful complement.
17 18 19		• Metrics and PIMs are also useful for alerting utilities to key concerns of regulators and stakeholders, such as chronically poor performance in a certain area.
20 21		• The array of metrics can evolve as new performance concerns arise and some older concerns recede.
22 23 24		• PIMs can reduce the need for traditional prudence oversight. For example reliability PIMs can reduce (but probably not eliminate) the need to spend time on formal reviews of reliability.
25 26 27 28 29		• Other means of strengthening incentives and/or reducing regulatory cost are sometimes less feasible. For example, incentivizing energy cost containment with only a partial passthrough tracker can be risky because these costs are volatile. A PIM for energy efficiency programs is an alternative.
30	Q.	What are some of the challenges encountered in PIM design?
31	A.	Performance is often difficult to measure accurately, for several reasons.
	 Prefi	led Direct Testimony Exh. MNL-1

1 2 3	• The outputs from some utility activities are hard to quantify. An example is the load savings from utility efforts to encourage development of markets for DSM products and services.
4 5 6 7 8	• Some metrics (e.g., reliability, delivery volumes, and peak loads) are sensitive to external business conditions, and these conditions are sometimes volatile. The utility is not then fully responsible for their metric values. The impact of external business conditions on performance metrics may be unclear and/or complicated.
9 10 11 12	• Standardized data on metrics and business conditions that affect them are often unavailable for numerous utilities. These problems can make it difficult to base performance targets for many metrics on operating data from other utilities.
13	It can also be difficult to correctly value performance and establish appropriate
14	award/penalty rates for PIMs. For example, the value of improved service quality
15	or reductions in carbon emissions can be difficult to quantify. Even where the
16	value of improved performance is clear, the share of benefits that utilities should
17	receive may not be. Customer interests are disserved if awards exceed those
18	needed to incentivize good behavior. The appropriate PIM may have a nonlinear
19	form, so that award and penalty rates should rise or fall with measured
20	performance.
21	The design and operation of PIMs can invite controversy and strategic behavior
22	by parties to regulation. For example, controversy has sometimes arisen over the
23	load impact of DSM programs that are addressed by PIMs. Utilities typically
24	resist PIMs with penalty provisions while other parties resist PIMs with reward
25	provisions.

The incremental regulatory cost of adding several metrics and PIMs to a regulatory system can be non-negligible. A performance metric system can in principle grow so large and complex as to constitute an undue administrative burden.

Q. Do these considerations have consequences for real-world PIMs?

 A. Yes. PIMs tend to be limited to situations where parties are really concerned about performance. Awards are often modest and sometimes capped. Some metrics in a performance metric system will have targets but no PIMs. Tracker metrics are common.

The need for PIMs tends to be greater to the extent that the regulatory system otherwise has weak incentives. For example, the need for energy efficiency PIMs is greater in the absence of revenue decoupling. PIMs also tend to be used where they are easy to develop and administer.

Complex calculations are often eschewed in PIM design. For example, the award and penalty rates of service quality PIMs rarely reflect sophisticated calculations of the costs or benefits of changes in quality. The California Public Utilities Commission abandoned the complicated shared savings approach to the calculation of awards for DSM programs. Utilities instead receive a share of DSM expenses as a management fee.

Prefiled Direct Testimony (Nonconfidential) of Mark Newton Lowry

Exh. MNL-1T Page 13 of 51 Some PIMs have dead bands or permit adjustments for the impact of external business conditions. For example, reliability metrics used in PIMs usually exclude major event days ("MEDs") because these days are typically the result of unusually severe weather or other extraordinary events.

Q. What are some popular uses of PIMs?

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A. Service quality is probably the most common area of utility operations addressed
by metrics and PIMs. Service quality metrics for energy utilities have traditionally
fallen into three general categories: reliability, customer service, and safety.
Service quality PIMs can strengthen incentives to maintain or improve quality and
simulate the connection between revenue and product quality that firms in
unregulated markets experience.

Demand side management PIMs have also been popular. These typically reward the utility for success in its energy efficiency ("EE") programs. The focus is on the load savings attributable to EE and a PIM can strengthen utility incentives to embrace EE. Although decoupling can remove the throughput incentive that discourages EE, a well-designed PIM can provide an additional *positive* incentive that is needed because EE reduces capex opportunities or because costs that might be saved due to EE are external to the company's finances.

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Q. Has interest in PIMs been growing?

A. Yes. Growing interest in PIMs has been spurred in part by Great Britain's "RIIO" approach to MYRP design. The term RIIO stands for "Revenue = Incentives + Innovation + Outputs." The RIIO system features MYRPs with elaborate and innovative arrays of metrics, PIMs, and targeted incentives for underused practices.

Performance metric systems are evolving to meet new industry challenges. For example, severe storms and wildfires in some states has spurred interest in resiliency metrics and PIMs. PIMs that address special concerns of policymakers are sometimes called policy PIMs. Policy PIMs often asymmetrically feature only rewards for good performance.

12 Q. Does this Commission already have some experience with PBR?

13 A. Yes, the Washington Utilities and Transportation Commission ("UTC" or "the 14 Commission") has experience with all four kinds of PBR and much of this 15 experience is in its regulation of PSE. The Company has previously operated 16 under MYRPs for its electric and gas services on two occasions. It has for many 17 years had an extensive set of service quality metrics and PIMs. PSE has twice 18 operated for several years under revenue decoupling. The Company had an energy 19 efficiency PIM prior to the resumption of decoupling. The Commission's 20experience with PBR increases the chances that they will oversee its expanded use 21 in Washington effectively.

1		As for targeted incentives for underused practices, the Company's DSM expenses
2		have long been tracked, and PSE has had several pilot programs. In addition,
3		House Bill 1853 of 2015 authorizes an incentive rate of return of up to 2% on
4		utility investments in electric vehicle supply equipment. The Clean Energy
5		Transformation Act ("CETA") permits utilities to defer and earn a return on the
6		costs of power purchase agreements in their clean energy action plans.
7		IV. THE COMPANY'S MYRP PROPOSAL
8	Q.	What laws are pertinent to the design of an MYRP in the state of
9		Washington?
10	A.	SB 5295 requires gas and electric utilities to propose MYRPs in their rate cases. It
11		also established MYRP guidelines, including the following.
12 13 14 15 16		• For each year of an MYRP, the Commission shall ascertain and determine "the fair value for rate-making purposes of the property of any gas and electrical company that is or will be used and useful under RCW 80.04.250 for service" along with "the revenues and operating expenses for ratemaking purposes." ¹
17 18		• The Commission is accorded substantial flexibility in the approval of plan details. Subsection 2(3)(d) of the law states, for example, that
19 20 21 22 23 24		[i]n ascertaining and determining the fair value of property of a gas or electrical company pursuant to (b) of this subsection and projecting the revenues and operating expenses of a gas or electrical company pursuant to (c) of this subsection, the commission may use any standard, formula, method, or theory of valuation reasonably calculated to arrive at fair, just, reasonable, and sufficient rates.
25 26		• Plans must have a particular kind of ESM. All earnings more than 50 basis points above allowed levels shall be deferred "for refunds to customers or
	1	SB 5295 Sec. 2.3(b) and (c).

1 2		another determination by the commission in a subsequent adjudicative proceeding." ²
3 4		• The Commission must determine a set of performance measures that will be used to assess a gas or electrical company operating under an MYRP.
5 6 7		• The term of the plan may be as long as four years. A utility is bound by the terms of the plan in years one and two but may file for new terms to be effective beginning in year three or in any fourth year of a rate plan.
8 9 10		• Plans must also have provisions for low-income customers which include a discount rate for these customers as well as grants and other low-income assistance programs.
11		In addition, SB 5295 requires the UTC to conduct a proceeding to develop a
12		policy statement on alternatives to COSR which includes "performance measures
13		or goals, targets, performance incentives, and penalty mechanisms." The
14		Commission has proposed a schedule for this proceeding under which metrics
15		would be addressed first, and a policy statement on metrics is to be issued in
16		March 2023. A policy statement on PIMs is to be issued in December 2024.
17	Q.	Have any policies established by the Commission been considered in the
1/	٧٠	have any policies established by the commission been considered in the
18		development of the Company's MYRP proposal?
19	A.	Yes. In Docket U-190531 the UTC established a policy concerning the
20		ratemaking treatment of utility assets that are expected to become used and useful
21		after the rate effective date of an MYRP. The Commission permits provisional
22		recovery in rates of the cost of such rate-effective period property. However, this
23		revenue may be reviewed and refunded to customers if the Commission later

² SB 5295 Sec. 2 (6).

1		determines that the assets are not used and useful or that the cost of the assets is
2		not known and measurable, adequately matched to offsetting factors, or prudently
3		incurred. If identified investment costs exceed the amount the regulated company
4		is collecting from customers based on its proposed, estimated, or projected costs,
5		the Company may file an accounting petition.
6	Q.	Please provide an overview of the Company's MYRP proposal.
7	A.	The Company's proposed MYRP is detailed in the Prefiled Direct Testimony of
8		Jon A. Piliaris, Exh. JAP-1T. Some salient features of PSE's proposed MYRP
9		include:
10		• Initial rates would be established in this proceeding.
11 12 13 14 15		• Escalation of base revenue would be driven for two years by the Company's latest five-year financial plan. This five-year financial plan is detailed in the Prefiled Direct Testimony of Joshua A. Kensok, Exh. JAK- 1T. Of the various approaches to RAM design that I discussed above, this one is most consistent with RCW 80.28.425(3) parts (b) and (c).
16 17 18 19 20		• The portion of the Company's proposed rate increases that is tied to projections of the costs of assets that are expected to become used and useful during the plan is subject to refund pending a Commission review. This provision is consistent with the Commission's decision in Docket U-190531 and other jurisdictions whose MYRPs have been approved.
21		• Revenue would be subject to an adjustment for unforeseen inflation.
22 23 24		• Revenue decoupling would continue for gas and electric services to residential and most commercial and industrial customers; this is vitally important to encourage DSM and supportive rate designs.
25 26 27 28		• Any surplus earnings, defined as those which would cause the Company's rate of return on rate base ("ROR") to exceed its authorized target by more than 50 basis points, would be deferred for refunds to customers or another determination by the Commission in a subsequent proceeding.

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1 2 3		• There are various provisions to assist highly impacted communities ("HIC) and vulnerable populations ("VP"), including a special rate for low-income customers.
4 5 6 7 8		• There is a shortlist of performance metrics and PIMs that are particularly appropriate for tracking PSE's performance and encouraging good performance. Results would be posted on a publicly-available MYRP scorecard. Additional metrics on various topics will continue to be reported routinely by PSE in other venues.
9 10		• Unless the Company exercises the right to request a new plan prior to year three, the plan will have a term of three years.
11	V	V. PERFORMANCE METRICS AND PIMS IN THE PSE PROPOSAL
12	<u>A.</u>	Development of PSE's Performance Metrics and PIMs
13	Q.	How were the performance metrics and PIMs in the PSE MYRP developed?
14	A.	In developing the performance metrics and PIMs in the Company's proposed
15		MYRP, PSE was guided by applicable legislation, including the CETA. PSE also
16		considered the criteria itemized in SB 5295 for evaluating metrics and other PBR
17		plan provisions. Those criteria emphasize environment and equity considerations
18		as well as the more traditional regulatory concerns about cost and reliability.
19		PSE also considered that the Commission is undertaking a generic proceeding to
20		develop policies concerning metrics and PIMs. The Company intends that its
21		proposal and supportive evidence on the MYRP, metrics, and PIMs will help to
22		inform the Commission on these issues. This evidence is not, however, intended
23		to supplant the UTC's effort to fashion PBR policies. Cautious steps in the
24		development of PIMs seem warranted until the Commission's generic proceeding
	Prefil	ed Direct Testimony Exh. MNL-1T

Prefiled Direct Testimony (Nonconfidential) of Mark Newton Lowry

advances. The Commission's generic proceeding may lay the foundation for new metrics and PIMs in the Company's subsequent MYRPs.

The development of the proposed metrics and PIMs was also influenced by PEG's appraisal of weak spots in the incentives included in typical utility regulatory systems. Another consideration was the input obtained from collaboration with UTC staff and stakeholders.

Q. Please discuss the metrics collaborative.

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8 PSE established a collaborative process to exchange ideas with stakeholders about A. 9 metrics and PIMs for its MYRP. Participants in this process included the Alliance 10 of Western Energy Consumers, Climate Solutions, the Energy Project, the NW 11 Energy Coalition ("NWEC"), Public Counsel, and UTC staff. Four meetings were 12 held between August 20 and November 15 of 2021. PSE presented detailed draft 13 metrics and PIMs in a meeting on October 8. NWEC presented a proposal that 14 included PIMs in several areas, such as demand response, equity, and 15 transportation electrification, in the meeting on November 15. 16 Notable takeaways from discussions with stakeholders included the following.

- Some stakeholders wanted to discuss PIMs and metric-target pairings, not just lists of metrics.
- Metrics and PIMs should target identified problems that require attention.
- Consumer groups questioned the need for PIMs with rewards.
- Several stakeholders espoused the view that PSE should not be rewarded for things that the Company is already incented or required to do.

Incentives should encourage "new or improved programs and services that utilities would not otherwise pursue." There should be a "rigorous baseline setting" and a "high bar of additionality."

Q. Please summarize the performance metrics and PIMs in the Company's proposed MYRP.

6 A. The proposed metrics and PIMs are summarized in Table 1 below. A scorecard 7 containing the proposed metrics is detailed in Table 2. This scorecard contains 8 historical values for the metrics where they are available, and it also includes any 9 targets or baselines that are proposed. Details of the metrics and targets are 10 provided in Exh. MNL-4. In addition to service quality, metrics are proposed in 11 the areas of affordability, demand response, energy efficiency, electric vehicles, 12 greenhouse gas emissions, and advanced metering infrastructure ("AMI"). In 13 keeping with the equity goals of CETA, analogous metrics are reported in these 14 areas for highly impacted communities ("HIC") and vulnerable populations 15 ("VP") where practical. Policy PIMs are proposed in two areas where NWEC made proposals, although the specifics of the PSE and NWEC proposals differ. 16

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		Systemwide	Highly-Impacted Communities and Vulnerable Populations					
		Affordability						
lity			Number of low income customers receiving bill assistance Share of bill assistance customers who are in highly impacted and vulnerable communities					
dabi		Demand-Side Management						
Customer Cost and Affordability		Peak Load Management Savings (PIM) Peak load management savings attributable to residential customers Annual energy efficiency savings (electric and gas)	Number of customers participating in gas and electric energy efficiency programs from highly impacted communities and vulnerable populations					
lusto	. t	Electric Vehicles						
	Environmental Impact	Number of Residential and Fleet EV Chargers Used in Managed Charging Programs or TOU Rates (PIM) Number of light-duty electric vehicles	Number of public charging ports serving highly impacted communities and vulnerable populations					
	- ur	Greenhouse	Gas Emissions					
	EN	CO2 emissions from company-owned electric operations						
		Advanced Metering Infrastructure						
	ι	Reduced energy consumption from voltage reduction Remote switch success rate AMI bill read success (gas and electric)						
		Safety SQIs (several	metrics, some PIMs)					
	£	Customer Satisfaction SQIs (several metrics, some PIMs)					
- Julio	Sare	Customer Service SQIs (se	veral metrics, some PIMs)					
0	× ک							
-	Inali	Field Operations SQIs (see	veral metrics, some PIMs)					
		Electric Service Reliability SQIs (several metrics, some PIMs)						
Contine Outline 8 Coffeet	Sec	Revised SAIDI and SAIFI metrics for non-storm days	SAIDI and SAIFI metrics, some Pilvis) SAIDI and SAIFI metrics in highly impacted communities and vulnerable populations					

Table 1Overview of Proposed Metrics and PIMs

Note: Items in bold text include PIMs

Table 2

Proposed PSE Scorecard

		C.,	rrent SQI Metri					
	Metric	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2023 Actual	2023 Targe
Category	Complaints per 1,000 Customers to the	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2023 Actual	2023 Targe
	wurc	0.18	0.2	0.16	0.16	0.1		Less than 0.
Customer Satisfaction	Customer Access Center Transactions Customer Satisfaction	93%	93%	94%	92%	94%		At least 909
	Fleid Service Operations Transactions Customer Satisfaction	95%	94%	95%	95%	96%		At least 909
Customer Service	Calls Answered by a Live Representative Within 60 Seconds of Request*	82%	82%	81%	81%	84%		At least 809
	Percent of Appointments Kept	100%	100%	100%	100%	99%		At least 929
Gas Safety	Average Gas Safety Response Time	31 minutes	32 minutes	30 minutes	32 minutes	32 minutes		No more that 55 minutes
Electric Safety	Average Electric Safety Response Time	55 minutes	55 minutes	52 minutes	54 minutes	51 minutes		No more that 55 minutes
	SAIFI All Outages Current Year (SAIFI _{XDTAL})	1.70 Interruptions	1.80 Interruptions	1.57 Interruptions	1.57 Interruptions	1.70 Interruptions		No Target
	SAIFI Excluding IEEE-Defined Major							
	Events Adjusted to Exclude Catastrophic	1.00	1.12	0.99	0.98	1.04		1.2
Electric Reliability	Days (New SAIFIsqua)	Interruptions	Interruptions	Interruptions	Interruptions	Interruptions		Interruptio
Electric Reliability	SAIDI All Outages Current Year (SAIDItonal)	391 minutes	477 minutes	438 minutes	550 minutes	414 minutes		No Targe
	SAIDI Excluding IEEE-Defined Major Events Adjusted to Exclude Catastrophic	148 minutes	175 minutes	145 minutes	136 minutes	165 minutes		155 m inute
	Days (SAIDI _{SQF3})							
		N	ew SQI Metrics					
	Metric	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2023 Actual	2023 Targe
	, All Outages, Single Year	1.12	1.31	1.13	1.18	1.35		No Target
(Adjusted to Exclude	Excluding IEEE-Defined Major Events e Catastrophic Days)	0.75	0.88	0.77	0.74	0.84		No Targe
	P, All Outages, Single Year	249	331	351	427	340		No Targe
	P Excluding IEEE-Defined Major Events e Catastrophic Days)	105	143	116	111	141		No Targe
		Demar	d-Side Manage	ement				
	Metric	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2023 Actual	2023 Targ
Peak Load Manager	nent Savings (MW)	N/A	N/A	N/A	N/A	N/A		5
Peak Load Managen Residential Custome	nent Savings (MW) Attributable to ers	N/A	N/A	N/A	N/A	N/A		No Targe
Annual Energy Effici	ency Savings - Electric (MWh)	314,526	318,316	299,918	237,925	221,001		239,026
Annual Energy Effici	ency Savings - Gas (Therms)	4,480,141	3,613,600	3,771,307	3,228,159	4,102,810		3,572,30
Efficiency Programs	ers Participating in Gas and Electric Energy (Including Low-Income Programs) Who acted Communities and Vuinerable	NA	NA	NA	NA	NA		No Targe
		E	lectric Vehicles				•	
	Metric	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2023 Actual	2023 Targe
Number of Light-Du	ty Electric Vehicles in Service Territory	NA	NA					
			N/A.	NA.	NA.	NA		No Targe
Number of EV Charg TOU Rates (Single-Fa		NA	NA NA	NA NA	NA NA	NA NA		No Targe 5,000
Number of EV Charg TOU Rates (Single-Fa Number of EV Charg TOU Rates (Fleet)	amily Residential) gers Used in Managed Load Programs or	NA	NA NA	NA NA	NA NA	NA		47
Number of EV Charg TOU Rates (Single-Fa Number of EV Charg TOU Rates (Fleet)	amily Residential)	NA NA	NA NA NA	NA NA NA	NA	NA		5,000
Number of EV Charg TOU Rates (Single-Fa Number of EV Charg TOU Rates (Fleet)	amily Residential) gers Used in Managed Load Programs or	NA NA	NA NA	NA NA NA	NA NA	NA	2023 Actual	5,000 47 No Targe
Number of EV Charg TOU Rates (Single-Fa Number of EV Charg TOU Rates (Fleet) Number of Public Ch	amily Residential) gers Used in Managed Load Programs or narging Ports Serving HIC and VP	NA NA NA Greent	NA NA NA ouse Gas Emis	NA NA NA Sions	NA NA NA	NA NA NA	2023 Actual	5,000
Number of EV Charg TOU Rates (Single-Fa Number of EV Charg TOU Rates (Fleet) Number of Public Ch	amily Residential) gers Used in Managed Load Programs or narging Ports Serving HIC and VP Metric	NA NA Greent 2016 Actual 6,515,902	NA NA NA 2017 Actual	NA NA NA Sions 2018 Actual 6,080,674	NA NA NA 2019 Actual	NA NA 2020 Actual	2023 Actual	5,000 47 No Targe 2023 Targ
Number of EV Charg TOU Rates (Single-Fa Number of EV Charg TOU Rates (Fleet) Number of Public Ch	amily Residential) gers Used in Managed Load Programs or narging Ports Serving HIC and VP Metric	NA NA Greent 2016 Actual 6,515,902	NA NA NA OUSE Gas Emis 2017 Actual 6,217,840	NA NA NA Sions 2018 Actual 6,080,674	NA NA NA 2019 Actual	NA NA 2020 Actual	2023 Actual	5,000 47 No Targe 2023 Targ No Targe
Number of EV Charg TOU Rates (Single-7 Number of EV Charg TOU Rates (Fleet) Number of Public Ch Number of Public Ch	amily Residential) errs Used In Managed Load Programs or harging Ports Serving HIC and VP Metric Company-Owned Electric Operations Metric	NA NA Greent 2016 Actual 6,515,902 Advanced	NA NA NA ouse Gas Emis 2017 Actual 6,217,840 Metering Infra	NA NA NA sions 2018 Actual 6,080,674 structure	NA NA NA 2019 Actual 7,406,110	NA NA NA 2020 Actual 4,793,992		5,000 47 No Targe 2023 Targ
Number of EV Charge TOU Rates (Singler Ar TOU Rates (Friet) Charge TOU Rates (Friet) Number of Public Ch Number of Public Ch CO2 Emissions from	amily Residential) amily Residential) arging Ports Serving HIC and VP Metric Company-Owned Electric Operations Metric ss Rate - Electric	NA NA Greent 2016 Actual 6,515,902 Advanced 2016 Actual	NA NA NA Douse Gas Emis 2017 Actual 6,217,840 Metering Infra 2017 Actual	NA NA NA sions 2018 Actual 6,080,674 structure 2018 Actual	NA NA NA 2019 Actual 2019 Actual	NA NA NA 2020 Actual 4,793,992 2020 Actual		5,000 47 No Targe 2023 Targ No Targe 2023 Targ
Number of EV Charg TOU Rates (Singler PC Charg Number of EV Charg TOU Rates (Fleet) Number of Public Ch CO2 Emissions from	amily Residential) amily Residential) arging Ports Serving HIC and VP Metric Company-Owned Electric Operations Metric ss Rate - Electric ss Rate - Gas	NA NA Greent 2016 Actual 6,515,902 Advanced 2016 Actual NA	NA NA NA 2017 Actual 6,217,840 Metering Infra 2017 Actual NA	NA NA NA sions 2018 Actual 6,080,674 structure 2018 Actual NA	NA NA NA 2019 Actual 7,405,110 2019 Actual 99.68%	NA NA NA 2020 Actual 4,793,992 2020 Actual 99.76%		5,000 47 No Targe 2023 Targ No Targe 2023 Targ No Targe No Targe
Number of EV Charge TOU Rates (Single FX Charge Number of Public Ch Number of Public Ch CO2 Emissions from AMI Bill Read Succes AMI Bill Read Succes Remote Switch Succ	amily Residential) amily Residential) arging Ports Serving HIC and VP Metric Company-Owned Electric Operations Metric ss Rate - Electric ss Rate - Gas	NA NA Greent 2016 Actual 6,515,902 Advanced 2016 Actual NA NA	NA NA NA 2017 Actual 6,217,840 Metering Infra 2017 Actual NA NA	NA NA NA sions 2018 Actual 6,080,674 structure 2018 Actual NA NA	NA NA NA 2019 Actual 7,406,110 2019 Actual 99.68% 99.40%	NA NA NA 2020 Actual 4,793,992 2020 Actual 99.76% 99.43%		5,000 47 No Targe 2023 Targ No Targe 2023 Targ No Targe No Targe
Number of EV Charge TOU Rates (Singler Charge TOU Rates (Singler Charge TOU Rates (Fleet) Number of Public Ch CO2 Emissions from AMI Bill Read Succes Remote Switch Succ Remote Switch Succ	amily Residential) arriging Ports Serving HIC and VP Metrio Company-Owned Electric Operations Metrio ss Rate - Electric ss Rate - Gas ess Rate	NA NA Greent 2016 Actual 6,515,902 Advanced 2016 Actual NA NA NA 3,319,625	NA NA NA ouse Gas Erris 2017 Actual 6,217,840 Metering Infra 2017 Actual NA NA NA	NA NA NA NA Sions 2018 Actual 6.080,674 structure 2018 Actual NA	NA NA NA 2019 Actual 7,406,110 2019 Actual 99,88% 99,40% NA	NA NA NA 2020 Actual 4,793,992 2020 Actual 99.76% 99.43% 99.41%		5,000 47 No Targe 2023 Targ No Targe 2023 Targ No Targe No Targe
Number of EV Charge TOU Rates (Singler Charge TOU Rates (Fineler Charge TOU Rates (Fieet) Number of Public Ch Number of Public Ch CO2 Emissions from AMI Bill Read Succes Remote Switch Succ Reduced Energy Co	amily Residential) arriging Ports Serving HIC and VP Metrio Company-Owned Electric Operations Metrio ss Rate - Electric ss Rate - Gas ess Rate	NA NA Greent 2016 Actual 6,515,902 Advanced 2016 Actual NA NA NA 3,319,625	NA NA NA Ouse Gas Emis 2017 Actual 6,217,840 Metering Infra 2017 Actual NA NA NA NA NA	NA NA NA NA Sions 2018 Actual 6.080,674 structure 2018 Actual NA	NA NA NA 2019 Actual 7,406,110 2019 Actual 99,88% 99,40% NA	NA NA NA 2020 Actual 4,793,992 2020 Actual 99.76% 99.43% 99.41%		5,000 47 No Targe 2023 Targe No Targe 2023 Targe No Targe
Number of EV Charge TOU Rates (Singler Charge TOU Rates (Singler Charge TOU Rates (Fleet) Number of Public Ch Number of Public Ch CO2 Emissions from AMI Bill Read Succes AMI Bill Read Succes Remote Switch Succ Reduced Energy Coi (kWh)	amily Residential) amily Residential) arging Ports Serving HIC and VP Metric Company-Owned Electric Operations Metric ss Rate - Electric ss Rate - Gas ress Rate nsumption from Voltage Reductions	NA NA Greent 2016 Actual 6,515,902 Advanced 2016 Actual NA NA NA 3,319,625 Additi	NA NA NA Ouse Gas Emis 2017 Actual 6,217,840 Metering Infra 2017 Actual NA NA NA O onal Equity Metering	NA NA NA NA Silons 2018 Actual 6,080,674 structure 2018 Actual NA NA	NA NA NA 2019 Actual 7,406,110 2019 Actual 99.68% 99.40% NA 343,748	NA NA NA 2020 Actual 4,793,992 2020 Actual 99.76% 99.43% 99.41% 3,931,329	2023 Actual	5,000 47 No Targe 2023 Targ No Targe No Targe No Targe 6,000,000

Values of "NA" indicate that historical data are not readily available. "No target" indicates that no target has been established for that metric in that year. *In 2016 and 2017 this metric was the percentage of calls answered in 30 seconds. The target for this metric was 70%. The data reported for these years are consistent with the current metric.

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Q. Please discuss the service quality indicators.

A. Service quality metrics and PIMs are a standard feature of MYRPs. The Company already has numerous service quality indicators ("SQIs"). Many of the SQIs have targets and some are linked to PIMs. Compensation of PSE employees is tied to SQI outcomes.

The Company is proposing some changes to its reliability metrics in this proceeding. SAIDI and SAIFI metrics would be computed using only the latest (2012) IEEE-1366 methodology for removing major event day outages. The Company is also proposing its SAIFI metric be calculated similarly to the current SAIDI metric, using the IEEE-1366 methodology with adjustment for catastrophic events. To ensure comparability with past Company values for these SQI metrics, the baseline values would be calculated beginning in 2014, a year subsequent to PSE's implementation of its Outage Management System and Customer Information System.

These reliability metrics would be separately reported for the system as a whole and for highly impacted communities and vulnerable populations. Reliability tends to be higher in highly impacted communities and vulnerable population areas. However, no targets are proposed for these metrics. Additional discussion of the new reliability SQIs can be found in the Prefiled Direct Testimony of Catherine A. Koch, Exh. CAK-1T.

B. Demand Side Management Metrics

Q. Please discuss DSM metrics.

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A. DSM should play a major role in meeting PSE's and Washington's decarbonization goals. In the short term, DSM can reduce the need for fossil fuels. In the longer term, it can reduce the need for cleaner but more costly energy alternatives. For these reasons, DSM figures prominently in the Company's Clean Energy Implementation Plan ("CEIP").

Revenue decoupling can reduce the throughput disincentive to embrace DSM and
rate designs that encourage it. There are also strong arguments and many
precedents for supplementing revenue decoupling with PIMs and other "positive"
incentives for utilities to embrace DSM.

In addition to PIMs for energy efficiency, there is growing national interest in
metrics and PIMs that encourage load shaping programs. The need for load
shaping is growing with increased reliance on renewable resources, which have
intermittent availability that typically doesn't peak when demand does.

16 Electrification of transportation and space heating can strain system capacity but 17 can also absorb power surpluses when renewable resources are abundant. In parts 18 of the United States, reduction of systemwide peaks can also reduce the share of 19 regional transmission costs that are assigned to a utility.

At least 13 U.S. jurisdictions have PIMs or other targeted incentives to reduce system peak demand. These jurisdictions are depicted in the map in Figure 3 below.



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The reward is typically contingent on meeting or exceeding a threshold level of DR. These PIMs sometimes incorporate capacity savings from EE programs or are complemented by an energy efficiency PIM.

Q. Are some Washington statutes pertinent when considering the need for PSE to have DSM PIMs?

A. Yes. For example, the Energy Independence Act requires large investor-owned electric utilities to "pursue all available [electric] conservation that is cost-effective, reliable, and feasible."⁴ A similar mandate applies to gas conservation.⁵ The CETA includes a mandate "to pursue all cost-effective, reliable, and feasible conservation and efficiency resources, and demand response".⁶

In addition, the CETA requires that all customers benefit from the transition to clean energy. Burdens to vulnerable populations and highly impacted communities should be reduced. Utilities must routinely report information on the energy burden and energy programs for disadvantaged customers. The CEIPs that utilities have developed pursuant to CETA have included customer benefit indicators ("CBIs").

In the collaborative, some stakeholders opposed demand-side management PIMs on the grounds that the Company has these legislative mandates to pursue costeffective conservation and peak load management. However, NWEC did propose

- ⁴ See, RCW 19.285.040(1).
- ⁵ See, RCW 18.28.380.
- ⁶ See, RCW 19.405.050(3).

a DR PIM. The metrics in the NWEC-proposed DR PIM were MW of demand reduction from residential customers and the entire portfolio, winter and summer.

Q. Is PSE proposing a demand response PIM?

4 A. Yes. The Company is proposing an annual metric, target, and PIM to encourage it 5 to obtain DR resources. Eligible DR programs would include direct load control 6 ("DLC"), interruptible (curtailable) load, and/or pricing programs designed to 7 shift load from peak periods and reduce system peak demand. In Chapter 4 of its 8 recently-filed CEIP, PSE explained that it would acquire DR resources primarily 9 through its Distributed Energy Resources / Demand Response Request for 10 Proposal ("DER / DR RFP"), which the Company anticipates filing in early 2022. 11 However, DR resources procured through PSE's own efforts --- outside of the 12 competitive procurement process — would also be included.

13 Q. Would there be any exception to the DR resources eligible for this PIM?

- A. Yes. To prevent double-counting of payments, any EV loads that qualify for the
 EV PIM explained later in my testimony would be excluded from the
 achievement levels used to establish performance under the DR PIM.
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Q.

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What is the proposed metric for DR?

A. The specific metric to be tracked for DR would be the expected MW reduction in
the Company's need for planning reserves for the winter coincident peak demand.
Effective DR capacity is a useful shorthand expression for this concept. Each

program's effective capacity would be estimated based on pre-established measurement and verification techniques, consistent with any relevant approaches PSE provides in its CEIP.

Q. What are the proposed targets for DR?

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 A. PSE proposes annual incremental effective capacity targets of 5 MW in 2023, 6 MW in 2024, and 12 MW in 2025. These goals mirror those proposed in the Company's CEIP. Since the Company currently realizes no peak demand reductions through DR programs, these proposed targets represent a significant improvement.

10 Q. What do you mean by incremental DR capacity in a given year?

A. Suppose a new DLC program is initiated in 2023 and is expected to have the
capacity to reduce winter coincident peak demand by 3 MW. The DLC program
would then contribute 3 MW towards the Company's 2023 DR achievement level.
If the Company added 2 MW of effective capacity through the same program in
2024, that 2 MW would count towards the 2024 DR achievement level.

16 Q. Please explain the PIM that the Company is proposing for DR.

A. PSE is proposing a PIM that would provide the Company a percentage of its
estimated lifetime cost of developing and administering DR programs, including
the costs of developing and administering the DER / DR RFP. The Company
would receive a payment only if it achieved at least 90 percent of its incremental

annual effective DR capacity target. The payment percentage would be 15 percent
for achievement levels of 90 percent through 110 percent of the annual target.
This percentage would increase to 25 percent for achievement levels over 110
percent and up to 150 percent of the target. No additional reward would be
provided for achievement levels in excess of 150 percent of the target. More
details regarding the Company's proposed demand response PIM are provided in
Exh. MNL-5.

8 Q. Are the payment percentages of 15 percent and 25 percent reasonable?

9 A. Yes. Establishing specific payment percentages is ultimately a matter of
10 judgment. But it is important to remember that one of the justifications for a DR
11 PIM is that the utility is potentially foregoing supply-side investments on which it
12 would earn a return. Moreover, the installed costs of the investment would most
13 likely exceed the DR expenses on which the PIM is based. The proposed PIM
14 should be evaluated with that consideration in mind.

If the Company achieves less than 90 percent of its target, it foregoes any earnings opportunity. If the Company achieves at least 90 percent and no more than 110 percent of its target, then it will realize a payment of 15 percent of its expenses, which is roughly twice its weighted average cost of capital ("WACC"). The percentage payment should be higher than the WACC because:

• DR expenses will probably be less than the installed cost of supply-side resources offering similar capacity value;

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1 2 3		• the utility deserves a premium payment if it performs well in an important new policy area, i.e., it should be financially better off than if relied on supply-side resources for the same capacity; and
4 5		• PSE's achievement levels are less certain than they are for most other utilities, since PSE has little historical experience with DR.
6		By extension, if the utility performs very well, i.e., achieves more than 110
7		percent of its target, then it should receive a greater percentage payment to reflect
8		superior performance.
9		The cap on the total payment (at 150 percent of the target) will protect customers
10		by imposing a ceiling on the total payment in any year.
11	Q.	Why is a reward-only PIM appropriate?
12	A.	The DR PIM focuses on a new performance expectation that goes beyond
13		satisfying customers' basic service requirements. In addition, utilities have a
14		financial disincentive to implement DR programs, as they tend to reduce billing
15		determinants, rate base and earnings.
16	Q.	Does PSE propose to establish any additional DR metrics?
17	A.	Yes. In addition to establishing a metric, target and PIM for the total DR impact
18		on the winter system peak demand, the Company also proposes to track separately
19		the residential contribution to this total. There would be no corresponding target
20		or PIM for the residential class.
		ed Direct Testimony Exh. MNL-1T
		confidential) ofPage 31 of 51Newton Lowry

Q. Why is PSE not proposing a separate target and PIM for the residential class?

A. The Company has established CEIP goals for the total impact of DR resources on winter coincident peak demand but has not disaggregated this goal by customer class. At this point there is no adequate basis on which to establish a residential-only target.

Q. Why is the Company proposing a target and PIM for the impact of DR on winter coincident peak demand only and not on both summer and winter coincident peak demands?

A. For the foreseeable future, PSE expects to remain a winter-peaking utility.
Although PSE is not proposing to establish a summer peak load metric at this
time, the Company recognizes that higher air-conditioning saturation in its service
territory will increase the importance of reducing summer coincident peak
demand as well. Consequently, at some point the Company might propose adding
a summer metric.

16 Q. Is PSE proposing any other DSM-related metrics?

A. Yes. PSE is proposing tracker metrics on its scorecard for the incremental energy savings from its gas and electric energy efficiency programs. These data are routinely reported in other Company filings. Targets have been established for these metrics.

Prefiled Direct Testimony (Nonconfidential) of Mark Newton Lowry

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Exh. MNL-1T Page 32 of 51 The number of distinct residential and commercial customers participating in electric and gas EE programs who are members of highly impacted communities or vulnerable populations would also be reported. In this calculation, EE programs open to the general public would be counted as well as those that focus on low-income customers. No target is proposed for this metric.

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С. **Transportation Electrification Metrics**

Q. Please discuss the transportation electrification metrics.

8 A. The transportation sector is the largest source of GHG and hazardous pollutants 9 (e.g., nitrogen oxide) in Washington. These emissions harm the environment and 10some also degrade visibility and human health. Transportation electrification is accordingly a key goal of the State's clean energy initiative. Detrimental health 12 impacts from nitrogen oxide and particulate vehicle emissions are greatest in the 13 Seattle-Tacoma transportation corridor that PSE serves.

14 Electric utilities reduce these problems when power generated from clean 15 resources displaces combustion of petroleum products in transportation (and 16 various other kinds of) equipment. Under traditional ratemaking, utilities have 17 some incentives to promote such beneficial electrification. In the short run, 18 electrification can sometimes boost the utilization of excess capacity and thereby 19 create margins from load growth between rate cases. Mobile phone providers 20 have similar incentives to sign customers to service plans and these carriers have
1	a high profile in advertising. In the longer run, electrification can also bolster the
2	need for utility grid investments that enhance earnings.
3	As described below, utilities nonetheless do not always have strong incentives to
4	aggressively promote beneficial electrification.
5 6	• Revenue decoupling promptly passes any margins from electrification to customers.
7 8 9 10 11 12 13 14 15	• Utilities incur costs when EV charging on customer premises increases. These costs may include those for electric vehicle supply equipment such as chargers and other infrastructure upgrades. The costs of EV load growth can also include those for marketing, load management, and customer support. Marketing costs may include discounts on the cost of special services required to support EVs. The cost and hassles of encouraging and then providing service to an additional EV are higher for the medium and heavy-duty vehicles that account for a disproportionately large share of hazardous transportation pollutants.
16 17 18 19 20 21 22 23	• EVs must sometimes be charged outside of customers' premises at commercial charging stations. The cost to design, permit, site, construct, own, operate, and maintain these stations is substantial and may not be covered by the resultant revenue. Unprofitable charging stations will be a particular problem in the next few years while the number of EVs on the road is ramping up but potential customers seek assurance that sufficient charging capacity will be available. The utility may get stuck with some of the less profitable locations.
24 25 26 27 28	• Even if the utility's forecasted revenue requirement includes a budget for utility EV costs, the growth in this revenue requirement component is disconnected from the growth that actually occurs unless the cost is tracked. Moreover, there will be no funding for EV load growth that exceeds the amount forecasted.
29 30 31 32 33 34	• In the presence of revenue decoupling, the addition of a public charging station or an EV load on customer premises may therefore impose a marginal cost on the utility without corresponding marginal revenue. This weakens the incentive of the utility to support EV load growth. The utility may respond by scaling back marketing efforts, reducing discounts, or by limiting the number of customers that can access its EV services.

1 2 3 4		• The inclination of a utility not to encourage and support EV growth will be greater the greater are its cost-containment incentives. This problem can be mitigated by tracking the cost of EV services for prompt or deferred recovery. This cost has heretofore been modest for most utilities.
5		The incentive problem is exacerbated by the fact that decoupling tends to be
6		popular where EVs are popular (e.g., California and New York). The new law
7		encouraging PBR in North Carolina requires that utility proposals include
8		residential revenue decoupling with the following exception:
9 10 11 12		The electric public utility may exclude rate schedules or riders for electric vehicle charging, including EV charging during off-peak periods on time-of-use rates, from the decoupling mechanism to preserve the electric public utility's incentive to encourage electric vehicle adoption. ⁷
13	Q.	Have any PIMs been approved for EV's in the United States?
14	А.	Yes. Several PIMs have been approved in New York that encourage electric
15		vehicles and other kinds of beneficial electrification. These have typically taken
16		the form of rewards for estimated GHG savings. These precedents are noteworthy
17		since electric utilities in New York operate under revenue decoupling.
18	Q.	Are there some Washington-specific considerations to take into account
19		when contemplating the need for EV PIMs?
20	A.	Yes. I have already mentioned that Washington law sanctions a modest rate of
21		return premium on utility-owned electric vehicle supply equipment. The
22		Company proposes to embrace this incentive, as discussed in the Prefiled Direct
23		Testimony of William T. Einstein, Exh. WTE-1T. The rising low carbon fuel

⁷ North Carolina House Bill 951, Part II, Section 4 (a) (c) (2), 2021.

standard that Washington's legislature has approved will boost the funding of utility EV programs but the Company's funds from this source will be modest during the term of the proposed MYRP (2023-25), may only pertain to residential EV customers, and may have restricted uses. Some details of this program have not been finalized.

Stakeholders in the collaborative metric discussions nonetheless maintained that
PSE has adequate incentives to promote EVs. They did, however, evince concern
about the Company's incentive to manage EV loads cost-effectively. NWEC
proposed a PIM for EV load management. The proposed metric was percentage of
load shifted to off-peak periods that are attributable to EV tariff offerings.

PSE has a well-established program for supporting the growth of EV loads. In this program, the Company typically owns the electric vehicle supply equipment. Loads of many program participants are managed where this is practicable. The principal focus of managed-load programs to date has been single-family residential customers. PSE plans to expand its EV service offerings during the MYRP, and expansion of EV service to commercial customers and disadvantaged communities are priorities. Managed loads for fleet customers appear to be practicable. However, with the Company having many other goals in the next few years, including better reliability, internal funding for EV load management will be limited.

Q.

Yes. PSE is proposing a PIM for electric vehicle load management and additional A. EV metrics that are not subject to targets or PIMs. I explain these proposals below. Q. What metrics and targets is the Company proposing for the EV PIM? The metric is the number of new chargers installed in a given calendar year and A. used to provide service under either a load management program or time of use ("TOU") rates, including the Company's proposed Time Varying Rate ("TVR") program. In the operation of the PIM the Company proposes metrics and targets for the following types of chargers: Level 2 Chargers used in single family residences; Level 2 Chargers used for fleets; and DC Fast Chargers used for fleets. Q. Why does the Company propose to establish metrics and targets for three categories of charger? As I explain later, the Company's proposed PIM is based on the expected net A. benefits of each new installation. These net benefits vary significantly depending on the type of charger (Level 2 or Fast Charger) and its application (single family residence or fleet). Consequently, it is important to track not only the total number of new chargers, but also the number of chargers in each of the three distinct 21 categories.

Is the Company proposing any metrics and PIMs in the EV area?

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Q.

Would the targets and PIM be limited to Company-owned chargers?

A. No. The benefits of encouraging customers to charge during off-peak periods are not contingent on Company ownership. Consequently, the Company proposes that the targets and rewards be applied to chargers owned by the Company, customers, or third parties. This approach can incentivize the Company to accommodate chargers owned by others.

7 Q. During which calendar years would the proposed PIM be effective?

A. PSE proposes that the PIM be effective for calendar years 2023, 2024 and 2025.
Of course, the Company may later propose an extension of the PIM, either as
approved in this proceeding or with modifications. The Commission's decision in
this proceeding should be issued before the first year of the PIM (2023).

12 Q. Is the Company proposing specific targets in its direct case?

A. No. PSE is still in the process of developing its EV charging targets and
anticipates that these targets will be established sometime in the first quarter of
2022. Once these targets are available, the proposed PIM can be set forth in more
detail.

Q.	Please explain the conditions under which the Company would earn a
	reward under the proposed PIM.

A. The Company would earn a reward in any given year only if the number of new chargers installed in one or more of the three categories exceeded the target for that category or categories for that year. The reward would be provided only for new installations in excess of the target; in other words, if the target in 2023 was 100 chargers and the Company installed 102 chargers during 2023, then the Company would earn a reward only for the two chargers in excess of the target.

Q. Assuming the Company exceeded its target in one or more categories, how would the specific dollar amount of the reward be established?

A. The Company proposes that the reward be based on a percentage of the expected net benefits of the chargers eligible for a reward. The gross benefits would consist of the:

• avoided energy costs,

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- avoided generation capacity costs, and
- avoided transmission and distribution capacity costs.

The expected avoided costs represent the cost impact of the managed load program or TOU pricing on the usage pattern of the chargers. In other words, the avoided costs represent the difference between the cost of serving an EV charging load under a managed load program or TOU rates and the cost of serving the same charger assuming no managed load program or TOU rates.

The costs would consist of the *incremental* administrative and other costs that the Company incurs to serve the charging load under a managed load program or TOU rates. The "other costs" would include any incentive payments to customers to encourage them to place their charging loads on managed load programs or TOU rates.

I emphasize that these incremental costs would exclude the majority of the costs of developing and administering the load management or TOU pricing option. Instead, the costs used to calculate net benefits would be limited to the incremental costs of serving an additional charger under the load management program or TOU rates.

The expected benefits and costs per charger would be estimated over five years. The present value of the five-year stream of costs would then be subtracted from the present value of the stream of benefits to yield a single dollar reward for each installed charger in excess of the target. A distinct dollar award per installation would be established for each of the three categories of chargers.

6QWhy do the costs and benefits in the proposed calculations exclude many of7the impacts of EV load growth, such as the investment cost of the charger or8the environmental benefits of reducing net carbon emissions?

A. It is important to remember that the purpose of this proposed PIM is not simply to
 encourage more chargers per se, but to encourage customers that do install
 chargers to charge during off-peak periods — when energy and capacity costs are

lower. As mentioned previously, this usage shift was a priority for stakeholders in the metrics collaborative as well. There are other mechanisms (such as a premium return on equity of 200 basis points for EV-related investments) that encourage the Company to install more chargers. Consequently, the impacts used to establish the reward are limited to the impacts of encouraging off-peak charging. Those impacts do not include the net environmental benefits of reducing the emissions from internal combustion engines or the cost of installing a charger.

Q. Why is it appropriate to use expected net benefits as a basis for the reward?

9 A. One of the primary advantages of basing the reward on a percentage of net
10 benefits is that customers are expected to benefit when the Company exceeds its
11 target(s) as long as the percentage reward to the Company is less than 100
12 percent.

13 A potential disadvantage of using net benefits is that deriving the actual avoided 14 costs can be very time-consuming and administratively burdensome. Such a 15 derivation would require analyses of actual load shifts and actual avoided costs 16 based on these load shifts. To avoid these potentially high costs, the Company 17 proposes to use pre-established estimates of load shifts and the concomitant 18 avoided costs over a five-year period. I believe any reduction in accuracy 19 attributable to using estimates is outweighed by the increased simplicity and 20 reduced costs of administering the PIM.

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Q.

Why is a reward-only PIM structure appropriate in this case?

A. The justification is similar to the justification for using a reward-only structure for DR. In both cases the Company is challenged with a new performance expectation that goes beyond satisfying customers' basic service requirements. In addition, in both cases the Company is being encouraged to take steps that tend to reduce rate base and earnings.

Q. You explained how the Company's dollar reward would be based on a percentage of expected net benefits. Is the Company proposing a specific percentage reward in its direct case?

A. No. As explained previously, the Company will not have targets for EV
installations until later in this quarter. Similarly, the Company also anticipates
developing later in this quarter the estimated costs and benefits that would be used
to establish the award per charger. Until this information is available, the
Company cannot calibrate an appropriate percentage. The Company plans to
propose specific percentages later in this proceeding, when more information is
available.

Q. Are you providing an illustrative example of the proposed EV PIM you explain above?

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A. Yes. Exh. MNL-5 provides a summary of how the PIM would be developed.

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Q.

Please summarize the Company's proposed EV PIM.

The Company proposes a reward-only PIM based on the number of new EV A. chargers installed in a given year and used to provide service under either a managed load program or TOU rates. The reward would apply to all installations in excess of the target established for that year and would be based on a predetermined estimate of lifetime net benefits per charger. Separate targets and 7 rewards would be established for single-family residences using Level 2 chargers, 8 fleets using Level 2 Chargers, and fleets using Fast Chargers. While I explained the conceptual approach and justification of the proposed PIM above, the Company will not be positioned to propose specific targets and sharing percentages until later in the first quarter of 2022.

12 Q. Please describe the EV tracker metrics the Company is proposing.

13 A. The MYRP scorecard would report two EV-related tracker metrics. One is the 14 estimated number of light-duty plugin electric vehicles (battery-only or hybrid) in 15 the Company's service territory. This would be calculated using Washington 16 Department of Licensing data on EVs registered in zip code tabulation areas in 17 which PSE offers electric service. The Company also proposes to track the 18 number of publicly-available charging ports in highly impacted communities and 19 vulnerable populations. PSE will continue to report a wider array of EV metrics in 20other venues.

D. Emissions Metrics

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Q. Please discuss the emissions metrics the Company is proposing.

A. Many industry observers believe that utilities have inadequate incentives to contain their impact on the environment. Metrics can track utility activities that damage the environment. Relevant metrics include emissions of GHGs from utility generation and vehicles, sodium hexafluoride emissions, and natural gas leaks and line losses.

8 PSE is preparing to comply with the decarbonization goals of CETA which call 9 for the retail sales of each Washington electric utility to be GHG neutral by 2030. 10 The Company recently detailed a strategy for achieving this in its CEIP. PSE is 11 proposing to track the metric tons of Scope 1 emissions from Company-owned 12 generation. The year-to-year GHG emissions from the Company's generation are 13 volatile, driven by external business conditions such as weather, the business 14 cycle, and the availability of hydroelectric and other kinds of renewable energy 15 resources. Accordingly, no target or PIM are proposed. The tracking of emissions 16 from PSE-owned generation is discussed further in the Prefiled Direct Testimony 17 of Joshua J. Jacobs, Exh. JJJ-1T.

E. Advanced Metering Infrastructure Metrics

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Q. Please discuss the advanced metering infrastructure metrics.

A. In a period when many utilities are investing sizable sums in AMI and other smart grid facilities, regulators and stakeholders want to know if these facilities are functioning well and well-utilized. Potential benefits from AMI include increased customer participation in load shaping programs such as TOU pricing. The benefits of AMI also include reductions in distribution system voltage, the duration of outages, consumption on inactive meters, unaccounted-for energy use, and meter-reading costs.

AMI metrics are monitored in several jurisdictions. These metrics have addressed several dimensions of AMI performance, including AMI functionality, utility cost savings, customer engagement, and environmental and load-management benefits.

13There are a few precedents for AMI-based PIMs. In New York, for example,14Consolidated Edison had a PIM to appraise their AMI customer awareness15strategy through customer surveys. In Illinois, Commonwealth Edison has PIMs16that address the achievement of reductions in the number of estimated bills,17energy consumption on inactive meters, unaccounted for energy, and18uncollectible bill expenses.

19 The UTC's decision in the recent Avista rate case indicates that they have an20 interest in AMI performance metrics.

1 2 3 4 5 6 7 8 9 10	To demonstrate the benefits of AMI, Avista should be required (1) to develop and report further analyses of the use cases: TOU rates, real-time energy use feedback for customers, behavior-based programs, data disaggregation, grid-interactive efficient buildings, CVR or volt/VAR optimization; (2) to craft and report plans for achieving benefits through each of these use cases; and (3) to develop and propose AMI performance- based regulation metrics and measurements that the Commission might apply, and specifically such metrics and measurements for each of these use cases. ⁸ PSE is in the middle of a systemwide AMI buildout. This makes AMI metrics
11	topical but limits the availability of data. The Company is proposing to include
12	three AMI metrics in its MYRP scorecard. These metrics address the functionality
13	of AMI and its impact on system voltage.
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	 <u>Bill Read Success</u>. The most fundamental job of AMI is to automatically forward data on customer billing determinants. The proposed Bill Read Success metric would measure whether the AMI delivers a meter read to PSE's data system, as expected each cycle. This would be calculated separately for gas and electric meters. A 99.5% success rate target is proposed for each plan year beginning in 2024. <u>Remote Switch Success</u>. AMI makes it possible to turn service off and on quickly and without truck rolls. The proposed Remote Switch Success metric would measure the functionality of the switch when a command is made from the command center by PSE. Calculation would be limited to customer-initiated requests. This metric would be reported only for electric service. The proposed target is a 99% success rate beginning in 2024. <u>Voltage Reduction</u>. The voltage on a distribution circuit must attain a minimum standard for every customer. AMI improves knowledge of the voltage at which each customer on a distribution circuit at the substation that
31 32 33	serves it. The proposed Voltage Reduction metric would measure the reduction in KWh accomplished. The proposed target for 2023 is 6,000,000 kWh.

⁸ WUTC (2021), Final Order 08/05, p. 127.

No AMI PIMs are proposed. The Company will report additional AMI metrics routinely in other venues. AMI metrics are discussed further by Company witness Catherine A. Koch, Exh. CAK-1T.

F. Additional Equity Metrics

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Q. Please discuss any additional equity metrics.

I have already noted the metrics on the scorecard for reliability, public EV 6 Α. 7 chargers, and EE program participation in highly impacted communities and 8 vulnerable populations. The affordability of the Company's service to low-income 9 customers is another key area of concern to policymakers. The Company also 10 proposes two affordability metrics. One is the number of distinct customers 11 receiving bill assistance from qualified low-income programs. The qualifying 12 programs would include the low-income energy assistance program ("LIHEAP"), 13 PSE's Home Energy Lifeline Program ("HELP"), the Salvation Army warm 14 home fund, PSE's proposed arrearage management program, and the proposed 15 bill discount rate. The Company will also report the share of these bill assistance 16 customers who are members of highly impacted communities and vulnerable 17 populations.

Customer benefit indicators, many of which have an equity component, will be reported in the annual reporting required under Washington Administrative Code 480-100-650(3).

2	Q.	What are some reasonable criter
3	А.	An appraisal of a proposed MYRP
4		is its fairness. A second is its effect
5		its effect on regulatory efficiency.
6		which SB 5295 ties the hands of th
7	Q.	Please discuss the fairness of the
8	А.	I believe that the Company's propo
9		for PSE. For example, revenue gro
10		financial plan in the two "out" year
11		subject to an adjustment for unfore
12		continue to reduce the risk of volat
13		statutory limitations, PSE could file
14		However, the framework also prov
15 16 17 18		• The Commission would dec budgeted cost growth. More operate under the Commiss two years.
19 20 21 22 23		• Revenue to reimburse PSE made during the plan may be found not to be used and us provision was noted above that are based on forecasts.
24 25		• The ESM would asymmetri normalized earnings in exce
	Prefi	led Direct Testimony

VI. **APPRAISAL OF THE COMPANY'S MYRP PROPOSAL**

ria for appraising MYRP proposals?

should encompass several considerations. One t on utility performance incentives. A third is It is also pertinent to consider the extent to he Commission in approving MYRPs.

Company's proposal.

osal is fair on balance. There are some benefits owth would be based on the Company's rs, as well as the first year, and would be eseen inflation. Revenue decoupling would tility in billing determinants. Subject to e a rate case if it underearns.

vides extensive customer protections, including:

- cide the extent to which it would fund PSE's eover, the Company would be obliged to sion-approved revenue requirement for at least
- for the annual cost of capital expenditures it be refunded to customers if the assets are later seful or their cost is deemed imprudent. This to be common to some other approved RAMs
- ically favor customers. The entirety of weatheress of a modest 50 basis point dead band would

1 2 3 4 5 6 7		be reserved for refunds to customers or another determination by the Commission. In contrast, many approved MYRPs have wider dead bands and/or afford utilities a share of surplus earnings beyond the dead band. Some plans do not have an ESM. In the event of underearning, PSE would absorb the entirety of any ROE shortfall until and unless it is granted some rate relief in year three after a rate case. In contrast, in some approved MYRPs underearnings are automatically shared with customers.
8 9		• PSE would absorb the risk of fluctuations in loads for some large-volume customers.
10		• Rate growth would be more predictable.
11		• The term of the MYRP would only be three years.
12	Q.	Please discuss the impact of PSE's MYRP on cost control incentives.
13	A.	The Company's cost control incentives would be strengthened by the MYRP.
14		Under continued COSR, PSE would be free to file a rate case at any time. Given
15		its need to modernize the grid, improve reliability, and supply cleaner energy, the
16		Company would likely file rate cases frequently. It would likely also continue to
17		be subject to earnings sharing.
18		The proposed MYRP would in contrast provide significant incentives to contain
19		O&M expenses since revenue growth for these kinds of costs is not linked to
20		actual cost growth between rate cases. The Company would absorb the annual
21		cost of any capex overspends.
22		The Company's ability to file a rate case during the MYRP is a fairly unusual
23		feature of the framework. However, there are similar provisions in the new PBR
24		law in North Carolina. Other approved MYRPs have off-ramp provisions.
25		Moreover, the proposed provision that allows PSE to file a rate case is unlikely to
	Prefi	led Direct Testimony Exh. MNL-1T

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trigger a rate case. Given the three-year plan period, the Company would likely file a rate case at the beginning of Year 3 anyway in order to have new rates effective upon the expiration of the plan.

I would also note that this provision only gives PSE the *right* to file a rate case, the Company is not required to file a rate case. In my experience, small and temporary underearnings rarely prompt a utility to file a rate case. The decision to file a rate case is based on several factors including the magnitude of the earnings deficiency, forecasted changes in costs or revenues, expectations of changes in the authorized rate of return resulting from a potential rate case, the ability to seek supplemental revenue through deferrals or cost trackers, and political considerations. PSE might not file a case even if it is eligible to do so because the situation is expected to be temporary, and it is in the Company's long-term interest to make MYRPs work.

14 Q. Please discuss the impact of PSE's MYRP on regulatory efficiency.

A. MYRPs should improve the efficiency of regulation and the Company's plan can
accomplish this, first and foremost by reducing the frequency of rate cases.
Regulatory resources would thereby be freed up to focus more on utility capital
expenditures, rate designs and miscellaneous generic issues. This is a notable
advantage in a period of rapid change when the UTC must contend with a swirl of
issues. Of course, the magnitude of these benefits will depend on the other filings
and processes that are required as part of, or in conjunction with, the MYRP.

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Q.

Please discuss the attention PSE's MYRP gives to other goals.

A. The goals of utility regulation extend beyond ensuring that the Company provides service of reasonable quality at a reasonable price. In Washington, the impact of utility operations on the environment and disadvantaged groups are of special interest. The Company's MYRP proposal encourages attention to these other goals through revenue decoupling and its scorecard of metrics and PIMs. PSE is, additionally, subject to legislative mandates to decarbonize its energy supply, pursue cost-effective DSM, and spread benefits of the energy transition equitably.

Q. Is the Commission hamstrung by SB 5295 in its ability to approve an MYRP that it believes to be just and reasonable?

A. No. Legislation in several states has detailed a particular approach to Altreg and provided regulatory commissions limited discretion to accept a different regulatory approach. The Washington MYRP law, in contrast, gives the Commission significant latitude and affords it considerable discretion over the design of any MYRPs that are adopted.

VII. CONCLUSION

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Q. Does this conclude your direct testimony?

18 A. Yes, it does.