BEFORE THE PUBLIC UTILITY COMMISSION

OF OREGON

UE 416

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In the Matter of

PORTLAND GENERAL ELECTRIC COMPANY,

Request for a General Rate Revision; and 2024 Annual Power Cost Update.

APCU OPENING TESTIMONY OF THE OREGON CITIZENS' UTILITY BOARD

May 24, 2023



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APCU OPENING TESTIMONY OF THE OREGON CITIZENS' UTILITY BOARD

1	Q.	Please state your name, occupation, and business address.
2	A.	My name is William Gehrke. I am a Senior Economist employed by Oregon
3		Citizens' Utility Board (CUB). My business address is 610 SW Broadway, Ste. 400
4		Portland, Oregon 97205.
5	Q.	Please describe your educational background and work experience.
6	A.	My witness qualification statement is found in exhibit CUB/101.
7	Q.	What is the purpose of your testimony?
8	А.	My testimony responds to issues and arguments raised by Portland General Electric
9		(PGE or the Company) in this proceeding. This testimony raises issues related to
10		PGE's calculation of forecasted 2024 net variable power costs (NVPC).
11	Q.	How is your testimony organized?
12	A.	My testimony is organized as follows:
13		II. Biglow Capacity Factor Calculation
14		III. Carty Effective Forced Outage Rate (EFOR)
15		IV. Modeling Changes

1		II. Biglow Capacity Factor Calculation
2	Q.	Please summarize your testimony on this topic.
3	A.	CUB recommends changes to the modeling of Biglow in NVPC in response to an
4		incident at the facility in 2022.
5	Q.	What is the Biglow Wind Farm?
6	A.	The Biglow Wind Farm is a 450 MW capacity wind generating facility located in
7		Sherman County, Oregon. The facility is owned by Portland General Electric. The
8		facility was built from 2007 to 2010 in three phases.
9	Q.	How does PGE model wind facilities in this proceeding?
10	A.	NVPC rates are calculated using a production cost model called MONET. At a high
11		level, MONET models power costs by economically dispatching power plants and
12		economically transacting around market purchases and sales subject to MONET
13		inputs. PGE's hourly load forecast and forward electric and natural gas curves are
14		inputs into the MONET model. The characteristics, including the projected
15		capacity factors, of renewable facilities such as the Biglow Wind Facility are inputs
16		into the model.
17	Q.	What are annual capacity factors?
18	A.	Annual capacity factors are the ratio of the total actual energy produced to the
19		energy that would be produced if the plant had operated continuously at the
20		maximum rating. For wind facilities in MONET, the numerator of the ratio is
21		(Start Highly Confidential)



¹ UE 416 – CUB/102/Gehrke/1.

- ² UE 416 CUB/102/Gehrke/1.
- ³ UE 416 CUB/102/Gehrke/2.
- ⁴ UE 416 CUB/102/Gehrke/2.
- 5 UE 416 CUB/104.



- ⁶ UE 416 CUB/103/Gehrke/9.
- ⁷ UE 416 CUB/103/Gehrke/13.
- ⁸ UE 416 CUB/103/Gehrke/16.



⁹ UE 416 - CUB/103/Gehrke/3.





Table 1: Comparison of Annual Capacity Factors for Biglow Phase I			
2017-2021	CUB's Proposal	PGE's Proposal	
Annual Capacity Factor	Annual Capacity Factor	Annual Capacity Factor	

- 11 Q. What is the impact of this adjustment?
- 12 A. This adjustment results in a 1.184-million-dollar reduction to 2024 Net Variable
- 13 Power Cost estimated on March 31st, 2023.
- 14III.Carty EFOR
- 15 Q. Please summarize your testimony on this topic.
- 16 A. In response to the incident that will be detailed in this sector, CUB recommends an
- 17 alternative calculation of the forced outage rate for PGE's Carty natural gas plant.

¹¹ UE 416 - CUB/103/Gehrke/14.



¹² UE 416 - CUB/105/Gehrke/5-6.



¹³ UE 416 – CUB/105/Gehrke/3.

1		(End Highly Confidential) ¹⁴
2		wever abse CUB's r pos , this i cide would ne tively impact PGE's
3		c s mers in this proceedi g
4	Q	hat s h im ct of this adjus m nt?
5	A.	Th s adj s m t results in a 3.884 milli n- ll r e uc on to 2024 Net Variable
6		Po er es im e fro the NET on March 31 ^t , 2023
7		
		I. Mod lng Changes n on-G C Ye r
9	Q	Ple se um a iz CUB's poit on on t is tm.
10	А.	UB oppose P E' r comm nde mo f cat o to Schedule 25 to a lo the
1		a plic tio of NV C o ec st ode ing en ancem n in no -G C years. Instea of
1		PGE' eco en ation, wh ch w ul allow for pa tie to p pos mod ling
13		cha g s v r ar, CUB recommend th t PGE be allo ed, f r on y t e 2 25 an
14		026 Ann al Up at Tariffs (UTs) to propo e model ng ch n s r lev nt o
15		P E' part ci ation in the Wes ern Resource A eq a y og am (W AP and the
16		impl mentati n of th eg on l xte d d ay- e d rke (E AM)
17	Q.	ha he timeli e of the AU p o e s li e?
18	А.	I i n accel rate proceed ng. U is on erned th t a c mp esse sch d le
		lo g with nume ou modeling change will ake it ard for ar ies nder tan
20		co lex ew od lin enhance ent. CUB is als c ncer ed about he ol me f
21		modeling adjustment that o ld be c sidered it in t e T's c mpr ss d
2		me ine. B im ing modeling changes to issues relevant to new ventures for the

 14 UE 416 – CUB/105/Gehrke/1-2.

1		Company—the WRAP and the EDAM—the scope of changes for parties to
2		consider is narrowed, while the Company still retains the ability to make reasoned
3		changes to its modeling to help create a more accurate forecast.
4	Q.	Can you provide an example of how the compressed schedule affects CUB's
5		review of annual power costs?
6	A.	Yes. In this proceeding, PGE filed its initial forecast for NVPC on
7		February 15 th , 2023. PGE filed a second update on March 31, 2023. Workpapers
8		are provided fifteen days after the forecast is released, which means that PGE did
9		not file workpapers associated with the second update until April 14th, 2023.
10		Therefore, Parties had 28 workdays to review PGE's workpapers from the Second
11		Update to Opening Testimony, which provides a limited window for review and
12		discovery.
13	Q.	How does this compare to the resources and time that the Company has to
14		prepare this filing?
15	A.	The Company has a dedicated Gross Margin and Power Cost Forecasting &
16		Analysis team. In my time reviewing the AUT Minimum Filing Requirements,
17		(Start Highly Confidential)
18		
19		(End Highly
20		Confidential) This is in stark contrast to the amount of time and resources that
21		stakeholders have to review the filing.
22	Q.	Does PGE's commitment to hold a workshop with parties by March 15 th of
23		each AUT filing assuage CUB's concern?

1	А.	While CUB appreciates the commitment, it does not. The content of these
2		workshops vary year to year. AUT workshops have at times been helpful primers
3		on PGE's upcoming modeling changes. However, in CUB's experience, it takes a
4		detailed review of the Company's workpapers to understand the impact of
5		modeling changes. CUB has also attended AUT workshops that end up being
6		workshops on how to understand MONET, rather than on upcoming modeling
7		changes.
8		
9	Q.	What does CUB propose as an alternative?
10	A.	CUB proposes that PGE be allowed to update modeling for the EDAM and the
11		WRAP program for the 2025 and 2026 AUTs. CUB understands that these
12		programs may require near term changes to how NVPC is modeled.
13	Q.	Is it appropriate to allow modeling changes in non-GRC years due to
14		HB 2021 in 2024 and 2025?
15	A.	No. PGE is not subject to HB 2021 emission limits until 2030, which is several
16		years away. CUB is unaware of any constraints that PGE is facing in the near term
17		around HB 2021.
18	Q.	Does this conclude your testimony?

19 **A.** Yes.

WITNESS QUALIFICATION STATEMENT

- NAME: William Gehrke
- **EMPLOYER:** Oregon Citizens' Utility Board
- TITLE: Economist
- ADDRESS: 610 SW Broadway, Suite 400 Portland, OR 97205
- **EDUCATION:** MS, Applied Economics Florida State University, Tallahassee, FL

BS, Economics Florida State University, Tallahassee, FL

EXPERIENCE: Provided testimony for the Oregon Citizens' Utility Board in numerous dockets such as UE 335, UE 374, UG 344. UG 347, UG 366, UG 388, UE 374, UG 388, UE 391, UE 394 and UE 406. Worked as an Economist for the Florida Department of Revenue. Worked as Utility Analyst at the Florida Public Service Commission, providing advice on electric rate cases. Attended the Institute of Public Utilities Annual Regulatory Studies program in 2018.

CUB Exhibit 102 is Highly Confidential and has been served upon the Commission and each party designated to receive highly confidential information pursuant to Order 22-138.

CUB Exhibit 103 is Highly Confidential and has been served upon the Commission and each party designated to receive highly confidential information pursuant to Order 22-138.

CUB Exhibit 104 is Highly Confidential and has been served upon the Commission and each party designated to receive highly confidential information pursuant to Order 22-138.

CUB Exhibit 105 is Highly Confidential and has been served upon the Commission and each party designated to receive highly confidential information pursuant to Order 22-138.