

April 12, 2021

## Via Electronic Filing

Public Utility Commission of Oregon P.O. Box 1088 Salem, OR 97308-1088

Re: UM 2078 PGE's Application to Reauthorize Deferred Accounting of Costs Associated with the Residential Battery Energy Storage Pilot

Dear Filing Center:

Attached for filing is Portland General Electric Company's Application to Reauthorize Deferred Accounting of Costs Associated with the Residential Battery Energy Storage Pilot.

A Notice regarding the filing of this application has been provided to the parties on the UM 2078 and UE 335 service lists.

Thank you for your assistance in this matter. If you have any questions or require further information, please call me at (503) 464-7488.

Please direct all formal correspondence, questions, or requests to the following e-mail address: pge.opuc.filings@pgn.com.

Sincerely,

/s/ Jakí Ferchland Jaki Ferchland Manager, Revenue Requirement

JF/np Enclosure.

Cc: Service List: UE 335 and UM 2078

#### BEFORE THE PUBLIC UTILITY COMMISSION

#### **OF OREGON**

#### **UM 2078**

In the Matter of PORTLAND GENERAL ELECTRIC COMPANY

Application for Reauthorization of Deferred Accounting of Costs Associated with the PGE Residential Battery Storage Pilot PORTLAND GENERAL ELECTRIC COMPANY'S REQUEST FOR DEFERRAL REAUTHORIZATION

Pursuant to ORS 757.259 and OAR 860-027-0300, Portland General Electric Company (PGE) hereby respectfully requests reauthorization to defer for later rate-making treatment incremental operation and maintenance (O&M) costs associated with the Residential Battery Storage Pilot (Pilot) proposed by PGE and approved by the Public Utility of Commission of Oregon (Commission or OPUC) in Order No. 20-208. We request the deferral of O&M costs to be effective April 21, 2021 through April 20, 2022.

In support of this application (Application) PGE states:

- 1. PGE is a public utility in the state of Oregon and its rates, service and accounting practices are subject to the regulation of the Commission.
- This Application is filed pursuant to ORS 757.259, which allows the Commission, upon application, to authorize deferral of certain items for later incorporation into rates.

## 3. Written communications regarding this Application should be addressed to:

Douglas C. Tingey PGE-OPUC Filings
Associate General Counsel Rates & Regulatory Affairs
Portland General Electric Portland General Electric

1WTC1301 1WTC0306

 121 SW Salmon Street
 121 SW Salmon Street

 Portland, OR 97204
 Portland, OR 97204

 Phone: 503.464.8926
 Phone: 503.464.7805

E-mail: doug.tingey@pgn.com E-mail: pge.opuc.filings@pgn.com

In addition to the names and addresses above, the following are to receive notices and communications via the e-mail service list:

Jaki Ferchland

E-mail: Jacquelyn.Ferchland@pgn.com

## I. OAR 860-027-0300(3) Requirements

The following is provided pursuant to OAR 860-027-0300(3):

#### A. <u>Background</u>

In alignment with the State of Oregon's policy direction of decarbonization, PGE is pursuing efforts as a company to decarbonize its energy supply, increase electricity as a share of total energy use, and enhance operational performance and efficiency. PGE's filed Energy Storage Proposal not only complies with Oregon legislation, but also supports PGE's decarbonization, electrification, and performance imperatives.

In accordance with House Bill 2193, 2015 Regular Legislative Session, (HB 2193),<sup>1</sup> and Docket No. UM 1751, PGE filed its Energy Storage Proposal and Final Potential Evaluation<sup>2</sup> on November 1, 2017. PGE's energy storage proposal was evaluated in Docket No. UM 1856 and approved through Commission Order No. 18-290, subject to conditions.<sup>3</sup>

<sup>2</sup> PGE proposed to develop five energy storage pilots: Mid-feeder (Baldock); Coffee Creek Substation; Generation Kick Start (Port Westward 2); Customer and Community Microgrid Resiliency Project; and Residential Battery Energy Storage.

<sup>&</sup>lt;sup>1</sup> 2015 Oregon Laws Chapter 312.

<sup>&</sup>lt;sup>3</sup> See Commission Order No. 18-290, Appendix A, at <a href="https://apps.puc.state.or.us/orders/2018ords/18-290.pdf">https://apps.puc.state.or.us/orders/2018ords/18-290.pdf</a> for a listing of the stipulated conditions PGE must meet.

Pursuant to Commission Order No. 18-290, PGE filed an addendum to the energy storage proposal on January 25, 2019. After subsequent discussions with OPUC Staff, PGE submitted its final Residential Energy Storage proposal on March 12, 2020. PGE submitted operational tariff Schedule 14 and received Commission approval on June 30, 2020, with an effective date of August 1, 2020.

The objective of this five-year Pilot is to install and connect 525 residential energy storage batteries, behind the meter, that will contribute up to 4 MWs of energy to PGE. Once installed, these distributed assets will create a virtual power plant of small units, 5 kW – 10 KW per unit. PGE will operate these battery units either individually or in aggregate to provide grid services and thereby add flexibility in support of PGE's transition to a cleaner energy future. In an outage event, the batteries will island from the grid and provide energy for the customer, furthering the customers' resiliency.

Since approval of the Pilot, PGE has undertaken numerous activities both internally and with external partners/vendors to enable the integration and dispatch of residential batteries.

These activities and associated costs include:

- software subscription and customization to enable battery dispatch;
- operationalizing the partnership between PGE and the Energy Trust to utilize the existing solar trade ally networks, and rebate processing capabilities, and;
- updates to internal PGE billing and net metering application systems.

The company conducted a soft launch in September of 2020, inviting pre-qualified customers to enroll their existing batteries into the Pilot and begin receiving bill credits. The soft launch allowed us to perform safety verifications on existing devices to ensure participants meet

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<sup>&</sup>lt;sup>4</sup> See PGE's proposed Residential Battery Storage Pilot at: https://edocs.puc.state.or.us/efdocs/HAD/um1856had151844.pdf

code requirements. First year efforts have resulted in 39 currently enrolled customers, with an additional 25 customers interested in enrolling once their battery installation is completed.

Currently enrolled customers have been receiving monthly bill rewards for their participation, however, no upfront rebates for Test Bed or income qualified participants have been paid to date.

In the coming year, PGE will continue to grow the Pilot to increase participation as well as the capacity to test grid services and model the flexible load value of distributed residential batteries. The team is preparing an experimental dispatch plan that will guide the research to conduct discrete exercises to generate data that will be used for the eventual measurement and verification.

In accordance with Commission Order No. 18-290, no administrative or evaluation costs associated with the entire portfolio of battery storage projects are requested for deferral.

## B. Reasons for Deferral

Pursuant to ORS 757.259(2)(e), and for the reasons discussed above, PGE seeks deferred accounting treatment for the Residential Battery Energy Storage Pilot. The granting of this Application will minimize the frequency of rate changes and/or match appropriately the costs borne by and benefits received by customers.

## C. <u>Proposed Accounting for Recording Amounts Deferred.</u>

PGE proposes to record the deferral as a regulatory asset in FERC Account 182.3 (Other Regulatory Assets) and credit the appropriate FERC expense accounts. When specific identification of the particular source of the regulatory asset cannot be reasonably made, then FERC account 407.4 (Regulatory Credits) will be credited. In the absence of a deferred accounting order, the costs would be debited to the appropriate cost accounts.

## D. Estimate of Amounts to be Recorded for the Next 12 months.

As shown in Table 1, below, PGE estimates total deferrable costs to be approximately \$3.1 million over the Pilot's five-year period. The estimated cost for 2021 is \$860,000.

Table 1
Residential Battery Energy Storage Pilot Cost Summary

Category	Total \$	2020 (Actual)	2021 (Forecast)	2022 (Forecast)	2023 (Forecast)	2024 (Forecast)	2025 (Forecast)
O&M Costs							
Incentives Paid	\$1,520,333	\$1,330	\$425,402	\$342,664	\$336,172	\$275,597	\$139,168
Program Cost	\$870,004	\$16,415	\$280,068	\$285,552	\$195,009	\$92,959	\$46,942
Aggregation and Dispatch	\$689,932	\$0	\$154,600	\$167,451	\$182,112	\$185,769	\$93,808
<b>Total Costs</b>	\$3,080,268	\$17,745	\$860,071	\$795,667	\$713,293	\$554,325	\$279,917

## E. Notice

A copy of the notice of application for deferred accounting treatment and a list of persons served with Notice are attached to the application as Attachment A. In compliance with the provisions of 860-027-0300(6), PGE is serving Notice of Application on the service lists of Docket Nos. UM 2078 (Residential Energy Storage Pilot) and UE 335 (2019 General Rate Case).

## **II.** Summary of Filing Conditions

#### A. <u>Earnings Review</u>

Cost recovery associated with the Pilot will be subject to an earnings review in accordance with ORS 757.259(5).

## B. Prudence Review

A prudence review should be performed by the Commission Staff as part of PGE's amortization filing.

#### C. Sharing

All prudently incurred cost will be collected from customers with no sharing mechanism.

D. Rate Spread/Rate Design

Applicable costs will be allocated to each schedule using the applicable schedule's

forecasted energy on the basis of an equal percent of revenue applied on a cents-per-kWh basis.

E. Three percent test (ORS 757.259(6))

The amortization of the Pilot's deferred costs will be subject to the three percent test in

accordance with the ORS 757.259(7) and (8), which limits aggregated deferral amortizations

during a 12-month period to no more than three percent of the utility's gross revenues for the

preceding year.

III. Conclusion

For the reasons stated above, PGE requests continued permission to defer the O&M costs

associated with the Residential Battery Energy Storage Pilot.

DATED this day April 12, 2021.

Respectfully Submitted,

/s/Jaki Ferchland

Jaki Ferchland, Manager, Revenue Requirement Portland General Electric Company 121 SW Salmon St., 1WTC 0306 Portland, OR 97204

Telephone: 503.464.7488

E-Mail: pge.opuc.filings@pgn.com

## **Attachment A**

Notice of Application to Reauthorize Deferred Accounting of Costs Associated with the Residential Battery Energy Storage Pilot

#### BEFORE THE PUBLIC UTILITY COMMISSION

#### **OF OREGON**

#### **UM 2078**

In the Matter of PORTLAND GENERAL ELECTRIC COMPANY

Application for Reauthorization of Deferred Accounting of Costs Associated with the PGE Residential Battery Storage Pilot NOTICE OF PORTLAND GENERAL ELECTRIC COMPANY'S REQUEST FOR DEFERRAL REAUTHORIZATION

On April 12, 2021, Portland General Electric Company (PGE) filed an application with the Public Utility Commission of Oregon (the Commission or OPUC) for an Order reauthorizing deferral of operation and maintenance costs associated with the Residential Battery Storage Pilot.

Persons who wish to obtain a copy of PGE's application will be able to access it on the OPUC website.

Any person who wishes to submit written comments to the Commission on PGE's application must do so no later than May 12, 2021.

Dated this April 12, 2021.

/s/Jaki Ferchland
Jaki Ferchland
Manager, Revenue Requirement
Portland General Electric Company
121 SW Salmon St, 1WTC0306

Portland, OR 97204 Telephone: 503.464.7488

E-Mail: pge.opuc.filings@pgn.com

## **CERTIFICATE OF SERVICE**

I hereby certify that I have this day caused the **Notice of Application to Reauthorize Deferred Accounting of Costs Associated with the Residential Battery Energy Storage Pilot** to be served by electronic mail to those parties whose email addresses appear on the attached service list for OPUC Dockets UE 335 and UM 2078.

Dated at Portland, Oregon, this 12st day of April 2021.

/s/Jakí Ferchland

Jaki Ferchland Manager, Revenue Requirement Portland General Electric Company 121 SW Salmon St, 1WTC0306 Portland OR 97204

Telephone: 503.464.7488

E-Mail: pge.opuc.filings@pgn.com

# SERVICE LIST OPUC DOCKET # UM 2078

OREGON CITIZENS' UTILITY BOARD	610 SW BROADWAY, STE 400 PORTLAND OR 97205 dockets@oregoncub.org
PGE RATES & REGULATORY AFFAIRS	PORTLAND GENERAL ELECTRIC COMPANY 121 SW SALMON STREET, 1WTC0306 PORTLAND OR 97204 pge.opuc.filings@pgn.com
NICHOLAS COLOMBO PUBLIC UTILITY COMMISSION OF OREGON	PO BOX 1088 SALEM OR 97308-1088 nicholas.colombo@state.or.us
JAKI FERCHLAND PORTLAND GENERAL ELECTRIC	121 SW SALMON ST. 1WTC0306 PORTLAND OR 97204 jacquelyn.ferchland@pgn.com
WILLIAM GEHRKE OREGON CITIZENS' UTILITY BOARD	610 SW BROADWAY STE 400 PORTLAND OR 97206 will@oregoncub.org
MICHAEL GOETZ OREGON CITIZENS' UTILITY BOARD	610 SW BROADWAY STE 400 PORTLAND OR 97205 mike@oregoncub.org
DOUGLAS C TINGEY PORTLAND GENERAL ELECTRIC	121 SW SALMON 1WTC1301 PORTLAND OR 97204 doug.tingey@pgn.com

## SERVICE LIST OPUC DOCKET # UE 335

ROBERT D KAHN NORTHWEST & INTERMOUTAIN POWER PRODUCERS COALITION	PO BOX 504 MERCER ISLAND WA 98040 rkahn@nippc.org
ALBERTSONS	
BRIAN BETHKE 11555 DUBLIN CANYON ROAD	250 PARKCENTER BLVD BOISE ID 83706 brian.bethke@albertsons.com
CHRIS ISHIZU ALBERTSONS COMPANIES, INC.	250 PARKCENTER BLVD BOISE ID 83706 chris.ishizu@albertsons.com
GEORGE WAIDELICH ALBERTSONS COMPANIES' INC.	11555 DUBLIN CANYON ROAD PLEASANTON OR 94588 george.waidelich@albertsons.com
AWEC UE 335	
BRADLEY MULLINS (C) MOUNTAIN WEST ANALYTICS	VIHILUOTO 15 KEPELE FI-90440 brmullins@mwanalytics.com
TYLER C PEPPLE <b>(C)</b> DAVISON VAN CLEVE, PC	1750 SW HARBOR WAY STE 450 PORTLAND OR 97201 tcp@dvclaw.com

	ROBERT SWEETIN <b>(C)</b> DAVISON VAN CLEVE, P.C.	185 E. RENO AVE, SUITE B8C LAS VEGAS NV 89119 rds@dvclaw.com			
CA	CALPINE SOLUTIONS				
	GREGORY M. ADAMS <b>(C)</b> RICHARDSON ADAMS, PLLC	PO BOX 7218 BOISE ID 83702 greg@richardsonadams.com			
	GREG BASS CALPINE ENERGY SOLUTIONS, LLC	401 WEST A ST, STE 500 SAN DIEGO CA 92101 greg.bass@calpinesolutions.com			
	KEVIN HIGGINS (C) ENERGY STRATEGIES LLC	215 STATE ST - STE 200 SALT LAKE CITY UT 84111-2322 khiggins@energystrat.com			
FR	FRED MEYER				
	KURT J BOEHM <b>(C)</b> BOEHM KURTZ & LOWRY	36 E SEVENTH ST - STE 1510 CINCINNATI OH 45202 kboehm@bkllawfirm.com			
	JODY KYLER COHN <b>(C)</b> BOEHM, KURTZ & LOWRY	36 E SEVENTH ST STE 1510 CINCINNATI OH 45202 jkylercohn@bkllawfirm.com			
NI	IPPC				
	SPENCER GRAY NIPPC	sgray@nippc.org			
	IRION A SANGER <b>(C)</b> SANGER LAW PC	1041 SE 58TH PLACE PORTLAND OR 97215 irion@sanger-law.com			
	JONI L SLIGER SANGER LAW PC	1041 SE 58TH PL PORTLAND OR 97215 joni@sanger-law.com			
OF	REGON CITIZENS UTILITY BOARD				
	OREGON CITIZENS' UTILITY BOARD	610 SW BROADWAY, STE 400 PORTLAND OR 97205 dockets@oregoncub.org			
	MICHAEL GOETZ <b>(C)</b> OREGON CITIZENS' UTILITY BOARD	610 SW BROADWAY STE 400 PORTLAND OR 97205 mike@oregoncub.org			
	ROBERT JENKS <b>(C)</b> OREGON CITIZENS' UTILITY BOARD	610 SW BROADWAY, STE 400 PORTLAND OR 97205 bob@oregoncub.org			
PA	ACIFICORP				
	PACIFICORP, DBA PACIFIC POWER	825 NE MULTNOMAH ST, STE 2000 PORTLAND OR 97232 oregondockets@pacificorp.com			
	MATTHEW MCVEE PACIFICORP	825 NE MULTNOMAH PORTLAND OR 97232 matthew.mcvee@pacificorp.com			
PG	GE .				

JAKI FERCHLAND PORTLAND GENERAL ELECTRIC	121 SW SALMON ST. 1WTC0306 PORTLAND OR 97204 jacquelyn.ferchland@pgn.com			
PORTLAND GENERAL ELECTRIC				
PGE RATES & REGULATORY AFFAIRS	PORTLAND GENERAL ELECTRIC COMPANY 121 SW SALMON STREET, 1WTC0306 PORTLAND OR 97204 pge.opuc.filings@pgn.com			
DOUGLAS C TINGEY (C) PORTLAND GENERAL ELECTRIC	121 SW SALMON 1WTC1301 PORTLAND OR 97204 doug.tingey@pgn.com			
SBUA				
JAMES BIRKELUND SMALL BUSINESS UTILITY ADVOCATES	548 MARKET ST STE 11200 SAN FRANCISCO CA 94104 james@utilityadvocates.org			
DIANE HENKELS <b>(C)</b> SMALL BUSINESS UTILITY ADVOCATES	621 SW MORRISON ST. STE 1025 PORTLAND OR 97205 diane@utilityadvocates.org			
STAFF				
STEPHANIE S ANDRUS <b>(C)</b> PUC STAFFDEPARTMENT OF JUSTICE	BUSINESS ACTIVITIES SECTION 1162 COURT ST NE SALEM OR 97301-4096 stephanie.andrus@state.or.us			
MARIANNE GARDNER (C) PUBLIC UTILITY COMMISSION OF OREGON	PO BOX 1088 SALEM OR 97308-1088 marianne.gardner@state.or.us			
SOMMER MOSER (C) PUC STAFF - DEPARTMENT OF JUSTICE	1162 COURT ST NE SALEM OR 97301 sommer.moser@doj.state.or.us			
WALMART				
VICKI M BALDWIN <b>(C)</b> PARSONS BEHLE & LATIMER	201 S MAIN ST STE 1800 SALT LAKE CITY UT 84111 vbaldwin@parsonsbehle.com			
STEVE W CHRISS <b>(C)</b> WAL-MART STORES, INC.	2001 SE 10TH ST BENTONVILLE AR 72716-0550 stephen.chriss@wal-mart.com			