



e-FILING REPORT COVER SHEET

COMPANY NAME: Portland General Electric Company

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications)
 RO (Other, for example, industry safety information)

Did you previously file a similar report? No Yes, report docket number: RE-182

Report is required by: OAR 860-030-0011

Statute

Order

Note: A one-time submission required by an order is a compliance filing and not a report (file compliance in the applicable docket)

Other

(For example, federal regulations, or requested by Staff)

Is this report associated with a specific docket/case? No Yes, docket number: UM 1893

List Key Words for this report. We use these to improve search results.

Energy Efficiency Avoided Cost Submission

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| Global Assumptions Inputs | | | | SOURCING | | | | |
|---------------------------------------|---------|--------|-------------|---|---------------|-------------------------|---|---|
| | | | | Provide as much detail as possible with sourcing including a link. Ensure that dollar years listed here are the same as the source. | | | | |
| Avoided Cost Element | Units | Value | Dollar Year | Source | Source Page # | Table # (if applicable) | Source Link or File Name | Source Notes |
| Inflation Rate | Percent | 2.10% | N/A | 2023 IRP - Appendix H Table 127 | | | | |
| Real Discount Rate | Percent | 4.0% | N/A | Table 127. 2023 IRP long-term financial assumptions | | | | =(1+Weighted after tax discount rate)/(1+inflation rate) - 1 |
| Regional Act Credit | Percent | 10.00% | N/A | | | | | |
| Transmission Loss Factor (Summer) | Percent | 2.09% | N/A | BPA Open Access Transmission Tariff, Effective Date: October 1, 2023 | 137 | | https://www.bpa.gov/-/media/Aep/transmission/open-access-transmission-tariff/bpa-open-access-transmission-tariff-20231001.pdf | Real Power Loss factor for one segment of BPA transmission. This factor is for the losses external to PGE's system for avoided energy purchases, generation capacity, and risk value. This factor does not apply to the PGE Transmission in the Transmission Deferral Credit. |
| Transmission Loss Factor (Winter) | Percent | 2.04% | N/A | BPA Open Access Transmission Tariff, Effective Date: October 1, 2023 | 137 | | https://www.bpa.gov/-/media/Aep/transmission/open-access-transmission-tariff/bpa-open-access-transmission-tariff-20231001.pdf | Real Power Loss factor for one segment of BPA transmission. This factor is for the losses external to PGE's system for avoided energy purchases, generation capacity, and risk value. This factor does not apply to the PGE Transmission in the Transmission Deferral Credit. |
| Distribution Loss Factor, Commercial | Percent | 4.02% | N/A | 2022 GRC (UE 394) Line Loss Study | | | Workpaper "LineLoss20220 | Internal loss factor for Commercial loads based on weighted average of primary and secondary losses from the 2015 GRC Line Loss Study. |
| Distribution Loss Factor, Industrial | Percent | 1.96% | N/A | 2022 GRC (UE 394) Line Loss Study | 1 | | "2022 GRC loss report.pdf" | Internal loss factor from study for loads with subtransmission delivery voltage. |
| Distribution Loss Factor, Residential | Percent | 4.20% | N/A | 2022 GRC (UE 394) Line Loss Study | 1 | | "2022 GRC loss report.pdf" | Internal loss factor for loads with secondary delivery voltage. |
| Risk Reduction Value | \$/MWh | \$3.00 | 2020 | 2019 IRP (not updated in 2023 IRP) | | | Workpaper "EE_RiskCalc_2019IR | Risk reduction value calculated from 2019 IRP values. |

| | | | | | | | | |
|-----------------------------------|----------------|---------|------|---|----------|--|------------------------------------|--|
| Transmission Deferral Credit | \$/kW-yr | \$87.34 | | 2024 GRC (UE 416) Transmission Marginal Costy Study | | | Workpaper "Ratesread_2024 GRC.xlsx | 2024 GRC, most recently approved GRC filing. TransmissionDeferralCredit = (TransmissionRevReq/MarginalSystemPeakGrowth) |
| Seasonal Capacity Split - Summer | Percent | 50.00% | N/A | Per previous assumption. | | | Per previous assumption. | PGE analysis of month-hour average net system load |
| Seasonal Capacity Split - Winter | Percent | 50.00% | N/A | Per previous assumption. | | | Per previous assumption. | PGE analysis of month-hour average net system load |
| Summer Peak Period Definition | Month/Day/Hour | | N/A | | | | | Day is intended to be weekday or weekend |
| Winter Peak Period Definition | Month/Day/Hour | | N/A | | | | | Day is intended to be weekday or weekend |
| Deficiency start year | Year | 2026 | N/A | 2023 IRP | | | | |
| | | | | | | | | |
| Distribution Deferral Credit | \$/kW-yr | \$17.21 | | | | | Workpaper "Ratesread_2024 GRC.xlsx | 2024 GRC, most recently approved GRC filing. DistributionDeferralCredit = (SubtransmissionMarginalCostRevenues/SubtransmissionRateclassPeak)+(SubstationMarginalCostRevenues/SubstationRateclassPeak) Subtransmission MCOS - \$1.33/kW-year Substation MCOS - \$15.88/kW-year |
| Seasonal Capacity Split - Summer | Percent | 50.00% | N/A | Per previous assumption. | | | Per previous assumption. | PGE analysis of month-hour average net system load |
| Seasonal Capacity Split - Winter | Percent | 50.00% | N/A | Per previous assumption. | | | Per previous assumption. | PGE analysis of month-hour average net system load |
| Summer Peak Period Definition | Month/Day/Hour | | N/A | | | | | Day is intended to be weekday or weekend |
| Winter Peak Period Definition | Month/Day/Hour | | N/A | | | | | Day is intended to be weekday or weekend |
| Deficiency start year | Year | 2026 | N/A | 2023 IRP | | | | |
| | | | | | | | | |
| Generation Capacity Credit | \$/kW-yr | \$175 | 2023 | 2023 IRP Update - New Resource Economics | | | | 2023 IRP - 2026 Update net cost of capacity. |
| Seasonal Capacity Split - Summer | Percent | 50.00% | N/A | Per previous assumption. | | | | This is the seasonal capacity split used by Staff in the December 2018 process. PGE may calculate an alternative seasonal capacity split for future filings, but did not for this filing. |
| Seasonal Capacity Split - Winter | Percent | 50.00% | N/A | Per previous assumption. | | | | This is the seasonal capacity split used by Staff in the December 2018 process. PGE may calculate an alternative seasonal capacity split for future filings, but did not for this filing. |
| Deficiency start year | Year | 2026 | N/A | 2023 IRP | | | | |
| | | | | | | | | |
| RPS Compliance Cost | \$/MWh | \$ - | 2020 | 2023 IRP | Page 293 | | | IHB 2021 requires a larger renewable buildout than required by RPS. Thus, the RPS requirement is no longer binding. Thus, there is no avoided cost related to RPS compliance cost. With the introduction of HB2021, this value can be removed from avoided cost calculations. |
| Avoided RPS Compliance Obligation | % | 0.00% | N/A | | | | | |

Avoided Energy Cost Inputs

| | |
|----------------------------|---------|
| Real or Nominal? | Nominal |
| Dollar Year: | |
| Carbon Prices Additive? | |
| Carbon Value Units (\$/MW) | \$/MWh |
| Source and Pg #: | |
| Source Link or File Name: | |
| Source Notes: | |

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|--|
| NOTES: |
| Please provide notes as to how this value relates to avoided energy cost. It can be expressed as a percentage of |

| Year | Date | Monthly | Monthly | Monthly | Monthly |
|------|-----------|---|---|---|---|
| | | Avoided Energy Cost HLH Total (\$/MWh) | Avoided Energy Cost LLH Total (\$/MWh) | HLH Carbon Cost (OR % of HLH Price that accounts for Carbon?) | LLH Carbon Cost (OR % of LLH Price that accounts for Carbon?) |
| 2024 | 1/1/2024 | - | - | | |
| 2024 | 2/1/2024 | - | - | | |
| 2024 | 3/1/2024 | - | - | | |
| 2024 | 4/1/2024 | - | - | | |
| 2024 | 5/1/2024 | 54.76 | 38.93 | | |
| 2024 | 6/1/2024 | 70.07 | 40.97 | | |
| 2024 | 7/1/2024 | 147.15 | 62.41 | | |
| 2024 | 8/1/2024 | 205.35 | 81.81 | | |
| 2024 | 9/1/2024 | 155.32 | 70.58 | | |
| 2024 | 10/1/2024 | 79.77 | 65.48 | | |
| 2024 | 11/1/2024 | 95.08 | 76.71 | | |
| 2024 | 12/1/2024 | 136.94 | 106.31 | | |
| 2025 | 1/1/2025 | 140.45 | 110.32 | | |
| 2025 | 2/1/2025 | 118.77 | 96.35 | | |
| 2025 | 3/1/2025 | 82.74 | 63.14 | | |
| 2025 | 4/1/2025 | 64.10 | 62.03 | | |
| 2025 | 5/1/2025 | 53.53 | 39.65 | | |
| 2025 | 6/1/2025 | 55.61 | 34.85 | | |
| 2025 | 7/1/2025 | 140.61 | 65.38 | | |
| 2025 | 8/1/2025 | 181.74 | 87.65 | | |
| 2025 | 9/1/2025 | 146.77 | 75.17 | | |
| 2025 | 10/1/2025 | 89.26 | 74.17 | | |
| 2025 | 11/1/2025 | 99.63 | 82.46 | | |
| 2025 | 12/1/2025 | 116.76 | 101.43 | | |
| 2026 | 1/1/2026 | 26.30 | 20.17 | | |
| 2026 | 2/1/2026 | 21.89 | 17.33 | | |
| 2026 | 3/1/2026 | 14.56 | 10.57 | | |
| 2026 | 4/1/2026 | 10.77 | 10.35 | | |
| 2026 | 5/1/2026 | 8.62 | 5.79 | | |

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|------|-----------|-------|-------|
| 2026 | 6/1/2026 | 9.04 | 4.82 |
| 2026 | 7/1/2026 | 26.33 | 11.03 |
| 2026 | 8/1/2026 | 34.70 | 15.56 |
| 2026 | 9/1/2026 | 27.59 | 13.02 |
| 2026 | 10/1/2026 | 15.88 | 12.82 |
| 2026 | 11/1/2026 | 18.00 | 14.50 |
| 2026 | 12/1/2026 | 21.48 | 18.36 |
| 2027 | 1/1/2027 | 26.86 | 20.60 |
| 2027 | 2/1/2027 | 22.36 | 17.70 |
| 2027 | 3/1/2027 | 14.87 | 10.80 |
| 2027 | 4/1/2027 | 11.00 | 10.57 |
| 2027 | 5/1/2027 | 8.80 | 5.92 |
| 2027 | 6/1/2027 | 9.23 | 4.92 |
| 2027 | 7/1/2027 | 26.89 | 11.26 |
| 2027 | 8/1/2027 | 35.44 | 15.89 |
| 2027 | 9/1/2027 | 28.17 | 13.30 |
| 2027 | 10/1/2027 | 16.22 | 13.09 |
| 2027 | 11/1/2027 | 18.38 | 14.81 |
| 2027 | 12/1/2027 | 21.94 | 18.75 |
| 2028 | 1/1/2028 | 27.35 | 20.97 |
| 2028 | 2/1/2028 | 22.76 | 18.02 |
| 2028 | 3/1/2028 | 15.14 | 10.99 |
| 2028 | 4/1/2028 | 11.19 | 10.75 |
| 2028 | 5/1/2028 | 8.96 | 6.02 |
| 2028 | 6/1/2028 | 9.40 | 5.00 |
| 2028 | 7/1/2028 | 27.39 | 11.46 |
| 2028 | 8/1/2028 | 36.09 | 16.18 |
| 2028 | 9/1/2028 | 28.69 | 13.53 |
| 2028 | 10/1/2028 | 16.52 | 13.32 |
| 2028 | 11/1/2028 | 18.71 | 15.08 |
| 2028 | 12/1/2028 | 22.34 | 19.09 |
| 2029 | 1/1/2029 | 28.02 | 21.49 |
| 2029 | 2/1/2029 | 23.32 | 18.46 |
| 2029 | 3/1/2029 | 15.51 | 11.26 |
| 2029 | 4/1/2029 | 11.47 | 11.02 |
| 2029 | 5/1/2029 | 9.18 | 6.17 |
| 2029 | 6/1/2029 | 9.63 | 5.13 |
| 2029 | 7/1/2029 | 28.05 | 11.75 |
| 2029 | 8/1/2029 | 36.97 | 16.58 |
| 2029 | 9/1/2029 | 29.39 | 13.87 |
| 2029 | 10/1/2029 | 16.92 | 13.65 |
| 2029 | 11/1/2029 | 19.17 | 15.45 |
| 2029 | 12/1/2029 | 22.88 | 19.56 |
| 2030 | 1/1/2030 | 28.41 | 21.74 |
| 2030 | 2/1/2030 | 23.61 | 18.65 |
| 2030 | 3/1/2030 | 15.63 | 11.29 |
| 2030 | 4/1/2030 | 11.51 | 11.05 |
| 2030 | 5/1/2030 | 9.17 | 6.09 |

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|------|-----------|-------|-------|
| 2030 | 6/1/2030 | 9.63 | 5.03 |
| 2030 | 7/1/2030 | 28.44 | 11.79 |
| 2030 | 8/1/2030 | 37.55 | 16.72 |
| 2030 | 9/1/2030 | 29.81 | 13.96 |
| 2030 | 10/1/2030 | 17.07 | 13.74 |
| 2030 | 11/1/2030 | 19.37 | 15.57 |
| 2030 | 12/1/2030 | 23.16 | 19.77 |
| 2031 | 1/1/2031 | 29.01 | 22.20 |
| 2031 | 2/1/2031 | 24.11 | 19.04 |
| 2031 | 3/1/2031 | 15.96 | 11.53 |
| 2031 | 4/1/2031 | 11.75 | 11.28 |
| 2031 | 5/1/2031 | 9.36 | 6.22 |
| 2031 | 6/1/2031 | 9.83 | 5.14 |
| 2031 | 7/1/2031 | 29.05 | 12.04 |
| 2031 | 8/1/2031 | 38.35 | 17.08 |
| 2031 | 9/1/2031 | 30.44 | 14.25 |
| 2031 | 10/1/2031 | 17.44 | 14.03 |
| 2031 | 11/1/2031 | 19.79 | 15.90 |
| 2031 | 12/1/2031 | 23.66 | 20.19 |
| 2032 | 1/1/2032 | 29.54 | 22.60 |
| 2032 | 2/1/2032 | 24.55 | 19.39 |
| 2032 | 3/1/2032 | 16.25 | 11.74 |
| 2032 | 4/1/2032 | 11.96 | 11.48 |
| 2032 | 5/1/2032 | 9.53 | 6.33 |
| 2032 | 6/1/2032 | 10.00 | 5.22 |
| 2032 | 7/1/2032 | 29.58 | 12.25 |
| 2032 | 8/1/2032 | 39.05 | 17.38 |
| 2032 | 9/1/2032 | 31.00 | 14.51 |
| 2032 | 10/1/2032 | 17.75 | 14.28 |
| 2032 | 11/1/2032 | 20.14 | 16.19 |
| 2032 | 12/1/2032 | 24.09 | 20.56 |
| 2033 | 1/1/2033 | 30.26 | 23.16 |
| 2033 | 2/1/2033 | 25.15 | 19.86 |
| 2033 | 3/1/2033 | 16.65 | 12.03 |
| 2033 | 4/1/2033 | 12.26 | 11.77 |
| 2033 | 5/1/2033 | 9.76 | 6.49 |
| 2033 | 6/1/2033 | 10.26 | 5.36 |
| 2033 | 7/1/2033 | 30.30 | 12.56 |
| 2033 | 8/1/2033 | 40.00 | 17.81 |
| 2033 | 9/1/2033 | 31.76 | 14.87 |
| 2033 | 10/1/2033 | 18.19 | 14.63 |
| 2033 | 11/1/2033 | 20.64 | 16.59 |
| 2033 | 12/1/2033 | 24.68 | 21.06 |
| 2034 | 1/1/2034 | 30.91 | 23.65 |
| 2034 | 2/1/2034 | 25.69 | 20.29 |
| 2034 | 3/1/2034 | 17.01 | 12.29 |
| 2034 | 4/1/2034 | 12.52 | 12.02 |
| 2034 | 5/1/2034 | 9.97 | 6.63 |

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|------|-----------|-------|-------|
| 2034 | 6/1/2034 | 10.47 | 5.47 |
| 2034 | 7/1/2034 | 30.95 | 12.83 |
| 2034 | 8/1/2034 | 40.86 | 18.19 |
| 2034 | 9/1/2034 | 32.43 | 15.18 |
| 2034 | 10/1/2034 | 18.58 | 14.95 |
| 2034 | 11/1/2034 | 21.08 | 16.94 |
| 2034 | 12/1/2034 | 25.20 | 21.51 |
| 2035 | 1/1/2035 | 31.57 | 24.16 |
| 2035 | 2/1/2035 | 26.24 | 20.72 |
| 2035 | 3/1/2035 | 17.37 | 12.55 |
| 2035 | 4/1/2035 | 12.79 | 12.28 |
| 2035 | 5/1/2035 | 10.19 | 6.77 |
| 2035 | 6/1/2035 | 10.70 | 5.59 |
| 2035 | 7/1/2035 | 31.61 | 13.10 |
| 2035 | 8/1/2035 | 41.73 | 18.58 |
| 2035 | 9/1/2035 | 33.12 | 15.51 |
| 2035 | 10/1/2035 | 18.98 | 15.26 |
| 2035 | 11/1/2035 | 21.53 | 17.30 |
| 2035 | 12/1/2035 | 25.74 | 21.97 |
| 2036 | 1/1/2036 | 32.15 | 24.59 |
| 2036 | 2/1/2036 | 26.71 | 21.09 |
| 2036 | 3/1/2036 | 17.68 | 12.77 |
| 2036 | 4/1/2036 | 13.01 | 12.49 |
| 2036 | 5/1/2036 | 10.36 | 6.89 |
| 2036 | 6/1/2036 | 10.89 | 5.68 |
| 2036 | 7/1/2036 | 32.18 | 13.33 |
| 2036 | 8/1/2036 | 42.49 | 18.91 |
| 2036 | 9/1/2036 | 33.73 | 15.79 |
| 2036 | 10/1/2036 | 19.32 | 15.54 |
| 2036 | 11/1/2036 | 21.92 | 17.61 |
| 2036 | 12/1/2036 | 26.21 | 22.37 |
| 2037 | 1/1/2037 | 32.93 | 25.20 |
| 2037 | 2/1/2037 | 27.37 | 21.61 |
| 2037 | 3/1/2037 | 18.12 | 13.09 |
| 2037 | 4/1/2037 | 13.34 | 12.81 |
| 2037 | 5/1/2037 | 10.62 | 7.06 |
| 2037 | 6/1/2037 | 11.16 | 5.83 |
| 2037 | 7/1/2037 | 32.97 | 13.67 |
| 2037 | 8/1/2037 | 43.53 | 19.38 |
| 2037 | 9/1/2037 | 34.55 | 16.18 |
| 2037 | 10/1/2037 | 19.79 | 15.92 |
| 2037 | 11/1/2037 | 22.46 | 18.05 |
| 2037 | 12/1/2037 | 26.85 | 22.92 |
| 2038 | 1/1/2038 | 33.63 | 25.74 |
| 2038 | 2/1/2038 | 27.95 | 22.08 |
| 2038 | 3/1/2038 | 18.51 | 13.37 |
| 2038 | 4/1/2038 | 13.62 | 13.08 |
| 2038 | 5/1/2038 | 10.85 | 7.21 |

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|------|-----------|-------|-------|
| 2038 | 6/1/2038 | 11.40 | 5.96 |
| 2038 | 7/1/2038 | 33.68 | 13.96 |
| 2038 | 8/1/2038 | 44.46 | 19.79 |
| 2038 | 9/1/2038 | 35.29 | 16.52 |
| 2038 | 10/1/2038 | 20.22 | 16.26 |
| 2038 | 11/1/2038 | 22.94 | 18.43 |
| 2038 | 12/1/2038 | 27.42 | 23.41 |
| 2039 | 1/1/2039 | 34.35 | 26.28 |
| 2039 | 2/1/2039 | 28.55 | 22.55 |
| 2039 | 3/1/2039 | 18.90 | 13.66 |
| 2039 | 4/1/2039 | 13.91 | 13.36 |
| 2039 | 5/1/2039 | 11.08 | 7.37 |
| 2039 | 6/1/2039 | 11.64 | 6.08 |
| 2039 | 7/1/2039 | 34.39 | 14.26 |
| 2039 | 8/1/2039 | 45.40 | 20.22 |
| 2039 | 9/1/2039 | 36.04 | 16.88 |
| 2039 | 10/1/2039 | 20.65 | 16.61 |
| 2039 | 11/1/2039 | 23.42 | 18.83 |
| 2039 | 12/1/2039 | 28.01 | 23.90 |
| 2040 | 1/1/2040 | 34.98 | 26.76 |
| 2040 | 2/1/2040 | 29.06 | 22.95 |
| 2040 | 3/1/2040 | 19.24 | 13.90 |
| 2040 | 4/1/2040 | 14.16 | 13.60 |
| 2040 | 5/1/2040 | 11.28 | 7.49 |
| 2040 | 6/1/2040 | 11.84 | 6.18 |
| 2040 | 7/1/2040 | 35.02 | 14.51 |
| 2040 | 8/1/2040 | 46.23 | 20.58 |
| 2040 | 9/1/2040 | 36.70 | 17.18 |
| 2040 | 10/1/2040 | 21.02 | 16.91 |
| 2040 | 11/1/2040 | 23.85 | 19.16 |
| 2040 | 12/1/2040 | 28.52 | 24.34 |
| 2041 | 1/1/2041 | 35.83 | 27.42 |
| 2041 | 2/1/2041 | 29.78 | 23.52 |
| 2041 | 3/1/2041 | 19.72 | 14.24 |
| 2041 | 4/1/2041 | 14.51 | 13.93 |
| 2041 | 5/1/2041 | 11.56 | 7.69 |
| 2041 | 6/1/2041 | 12.14 | 6.34 |
| 2041 | 7/1/2041 | 35.88 | 14.87 |
| 2041 | 8/1/2041 | 47.36 | 21.09 |
| 2041 | 9/1/2041 | 37.60 | 17.60 |
| 2041 | 10/1/2041 | 21.54 | 17.33 |
| 2041 | 11/1/2041 | 24.43 | 19.64 |
| 2041 | 12/1/2041 | 29.22 | 24.94 |
| 2042 | 1/1/2042 | 36.60 | 28.00 |
| 2042 | 2/1/2042 | 30.41 | 24.02 |
| 2042 | 3/1/2042 | 20.14 | 14.55 |
| 2042 | 4/1/2042 | 14.82 | 14.23 |
| 2042 | 5/1/2042 | 11.81 | 7.85 |

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|------|-----------|-------|-------|
| 2042 | 6/1/2042 | 12.40 | 6.48 |
| 2042 | 7/1/2042 | 36.64 | 15.19 |
| 2042 | 8/1/2042 | 48.37 | 21.54 |
| 2042 | 9/1/2042 | 38.40 | 17.98 |
| 2042 | 10/1/2042 | 22.00 | 17.69 |
| 2042 | 11/1/2042 | 24.96 | 20.06 |
| 2042 | 12/1/2042 | 29.84 | 25.47 |
| 2043 | 1/1/2043 | 37.38 | 28.60 |
| 2043 | 2/1/2043 | 31.06 | 24.53 |
| 2043 | 3/1/2043 | 20.57 | 14.86 |
| 2043 | 4/1/2043 | 15.14 | 14.54 |
| 2043 | 5/1/2043 | 12.06 | 8.02 |
| 2043 | 6/1/2043 | 12.67 | 6.62 |
| 2043 | 7/1/2043 | 37.42 | 15.51 |
| 2043 | 8/1/2043 | 49.40 | 22.00 |
| 2043 | 9/1/2043 | 39.22 | 18.36 |
| 2043 | 10/1/2043 | 22.47 | 18.07 |
| 2043 | 11/1/2043 | 25.49 | 20.48 |
| 2043 | 12/1/2043 | 30.48 | 26.01 |
| 2044 | 1/1/2044 | 38.06 | 29.12 |
| 2044 | 2/1/2044 | 31.63 | 24.98 |
| 2044 | 3/1/2044 | 20.94 | 15.12 |
| 2044 | 4/1/2044 | 15.41 | 14.79 |
| 2044 | 5/1/2044 | 12.27 | 8.15 |
| 2044 | 6/1/2044 | 12.89 | 6.73 |
| 2044 | 7/1/2044 | 38.11 | 15.79 |
| 2044 | 8/1/2044 | 50.31 | 22.39 |
| 2044 | 9/1/2044 | 39.93 | 18.69 |
| 2044 | 10/1/2044 | 22.87 | 18.40 |
| 2044 | 11/1/2044 | 25.95 | 20.85 |
| 2044 | 12/1/2044 | 31.03 | 26.48 |
| 2045 | 1/1/2045 | 38.99 | 29.83 |
| 2045 | 2/1/2045 | 32.40 | 25.59 |
| 2045 | 3/1/2045 | 21.45 | 15.50 |
| 2045 | 4/1/2045 | 15.79 | 15.16 |
| 2045 | 5/1/2045 | 12.58 | 8.36 |
| 2045 | 6/1/2045 | 13.21 | 6.90 |
| 2045 | 7/1/2045 | 39.04 | 16.18 |
| 2045 | 8/1/2045 | 51.53 | 22.95 |
| 2045 | 9/1/2045 | 40.91 | 19.15 |
| 2045 | 10/1/2045 | 23.43 | 18.85 |
| 2045 | 11/1/2045 | 26.59 | 21.37 |
| 2045 | 12/1/2045 | 31.79 | 27.13 |
| 2046 | 1/1/2046 | 39.82 | 30.47 |
| 2046 | 2/1/2046 | 33.09 | 26.14 |
| 2046 | 3/1/2046 | 21.91 | 15.83 |
| 2046 | 4/1/2046 | 16.13 | 15.49 |
| 2046 | 5/1/2046 | 12.85 | 8.54 |

| | | | |
|------|-----------|-------|-------|
| 2046 | 6/1/2046 | 13.49 | 7.05 |
| 2046 | 7/1/2046 | 39.87 | 16.53 |
| 2046 | 8/1/2046 | 52.63 | 23.44 |
| 2046 | 9/1/2046 | 41.78 | 19.56 |
| 2046 | 10/1/2046 | 23.93 | 19.25 |
| 2046 | 11/1/2046 | 27.15 | 21.82 |
| 2046 | 12/1/2046 | 32.47 | 27.71 |
| 2047 | 1/1/2047 | 40.67 | 31.12 |
| 2047 | 2/1/2047 | 33.80 | 26.69 |
| 2047 | 3/1/2047 | 22.38 | 16.17 |
| 2047 | 4/1/2047 | 16.47 | 15.82 |
| 2047 | 5/1/2047 | 13.12 | 8.72 |
| 2047 | 6/1/2047 | 13.78 | 7.20 |
| 2047 | 7/1/2047 | 40.72 | 16.88 |
| 2047 | 8/1/2047 | 53.76 | 23.94 |
| 2047 | 9/1/2047 | 42.67 | 19.98 |
| 2047 | 10/1/2047 | 24.45 | 19.66 |
| 2047 | 11/1/2047 | 27.73 | 22.29 |
| 2047 | 12/1/2047 | 33.16 | 28.30 |
| 2048 | 1/1/2048 | 41.41 | 31.68 |
| 2048 | 2/1/2048 | 34.41 | 27.18 |
| 2048 | 3/1/2048 | 22.78 | 16.45 |
| 2048 | 4/1/2048 | 16.77 | 16.10 |
| 2048 | 5/1/2048 | 13.35 | 8.87 |
| 2048 | 6/1/2048 | 14.02 | 7.32 |
| 2048 | 7/1/2048 | 41.46 | 17.18 |
| 2048 | 8/1/2048 | 54.74 | 24.37 |
| 2048 | 9/1/2048 | 43.45 | 20.34 |
| 2048 | 10/1/2048 | 24.89 | 20.02 |
| 2048 | 11/1/2048 | 28.24 | 22.69 |
| 2048 | 12/1/2048 | 33.76 | 28.81 |
| 2049 | 1/1/2049 | 42.42 | 32.46 |
| 2049 | 2/1/2049 | 35.26 | 27.85 |
| 2049 | 3/1/2049 | 23.34 | 16.86 |
| 2049 | 4/1/2049 | 17.18 | 16.50 |
| 2049 | 5/1/2049 | 13.69 | 9.10 |
| 2049 | 6/1/2049 | 14.38 | 7.51 |
| 2049 | 7/1/2049 | 42.48 | 17.61 |
| 2049 | 8/1/2049 | 56.07 | 24.97 |
| 2049 | 9/1/2049 | 44.51 | 20.84 |
| 2049 | 10/1/2049 | 25.50 | 20.51 |
| 2049 | 11/1/2049 | 28.93 | 23.25 |
| 2049 | 12/1/2049 | 34.59 | 29.52 |



Portland General Electric
121 SW Salmon Street · Portland, Ore. 97204

April 9, 2024

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street, S.E.
P.O. Box 1088
Salem, OR 97308-1088

RE: RE 182 UM 1893 PGE's Supplemental Energy Efficiency Avoided Cost Submission

Portland General Electric Company (PGE) submits this supplemental compliance filing under RE 182 pursuant to Oregon Administrative Rule (OAR) 860-030-0011. PGE is submitting this supplemental filing, providing a new Generation Capacity Credit value and Avoided Energy Costs.

The Effective Load Carrying Capability (ELCC) values which are one of the inputs used to calculate the Generation Capacity Credit value and Avoided Energy Costs were incorrect and have been updated. The ELCC values provided in PGE's initial filing did not appropriately model the Grant Public Utility District contract extension which increased PGE's share of the output from Priest Rapids and Wanapum hydro projects. The contract extension was discussed in LC 80 Round 2 comments PGE filed on November 21, 2023 and was included in PGE's IRP acknowledgement by the Commission on January 25, 2024. Additionally, in PGE's initial filing, the ELCC value used to calculate the Generation Capacity Credit value was an averaged tuned ELCC based on the IRP's planning horizon and the Avoided Energy Costs used a tuned ELCC for 2026. PGE has corrected this inconsistency and now both values are based on a tuned 2026 ELCC. A tuned ELCC based on 2026 more appropriately estimates the ELCC value in PGE's current preferred portfolio. These changes result in an updated Generation Capacity Credit value and Avoided Energy Costs.

The changes discussed above result in an updated 2026 Tuned 4- Hour Battery ELCC value of 43% compared to 33% which was used in PGE's initial filing on March 1, 2024 for the Generation Capacity Credit value calculation. This results in an updated Generation Capacity Credit of \$175 per kW, per year compared to the initially filed \$228 per kW, per year. Avoided Energy Costs, based on a renewable Solar Qualified Facility, increased slightly because the 2026 Tuned Wind ELCC decreased from 24% to 20% and the 2026 Tuned Solar ELCC increased from 33% to 38%. The solar energy value is based on the following: proxy wind plant, minus the capacity value of that wind resource, minus the integration value of solar. The wind ELCC and capacity factor is a necessary input to calculate the capacity value of the wind resource.

All previous values submitted in the workbook template on March 1, 2024, remain unchanged.

Please direct any questions or comments regarding this filing to Chris Pleasant at (503) 464-2555. Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgn.com.

Sincerely,

\s\ Robert Macfarlane

Robert Macfarlane
Manager, Pricing & Tariffs

Enclosure
cc: Peter Kernan, OPUC