Appendix 0. Thermal Operations/Output

This appendix provides a graphical overview of PGE's projected retail GHG emissions, emissions and generation by fuel type, heat rate projections by fuel type, and a look at GHG emissions by unit under three different GHG glidepaths.

### O.1 PGE GHG emitting resources

PGEs historical retail emissions from 2019 to 2021, as well as IRP forecasts for retail GHG emissions from 2023 to 2043, are shown below in Figure 175. The forecast includes five different GHG glidepaths, linear, front loaded (more GHG reductions early), back loaded (more GHG reductions later), GHG free by 2035, and achieving HB 2021 goals two years early.

**Figure 175. Annual historical and projected GHG emissions for retail load service**

The following graphs (Figure 176 and Figure 177) show total annual GHG emissions and energy generated and purchased by fuel type for resources in the Preferred Portfolio. Power plant Boardman, which retired in 2020, is in the historical values. Total generation and emissions represent both retail load service and wholesale sales.

---

554 Waste represents a bilateral landfill contract.
The following graphs (Figure 178 and Figure 179) show annual GHG emissions and energy generated and purchased by fuel type for resources in the Preferred Portfolio used to serve retail load (power plant Boardman, which retired in 2020, is in the historical values).
The following graph (Figure 180) shows the annual weighted average heat rate by fuel type for resources in the Preferred Portfolio. Individual plant heat rates in the forecasted data are static and based on Oregon Department of Environmental Quality (ODEQ) CO2e intensity values for future years. The future variations in weighted average heat rate are due to annual changes in forecasted economic dispatch. Due to a lack of knowledge of the underlying fuel source market purchase heat rates are not included.
Figure 180. Historical and projected annual weighted average heat rate by fuel

Figure 181-Figure 182 reflect GHG emissions from generation and purchases under three decarbonization glidepaths. The lines specific to individual resources show retail GHG emissions. The wholesale sales category captures GHG emissions from sales from all sources (these are additional to the retail GHG emissions).

Figure 181. Total (retail + wholesale) GHG emissions under a linear reduction glidepath (Reference Case)
Figure 182. Total (retail + wholesale) GHG emissions under a front-loaded reduction glidepath (Reference Case)

Figure 183. Total (retail + wholesale) GHG emissions under a back-loaded reduction glidepath (Reference Case)
## Appendix P. Acronyms

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## Acronyms

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### Acronyms

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