

## CHAPTER 4 – LOAD-AND-RESOURCE BALANCE UPDATE

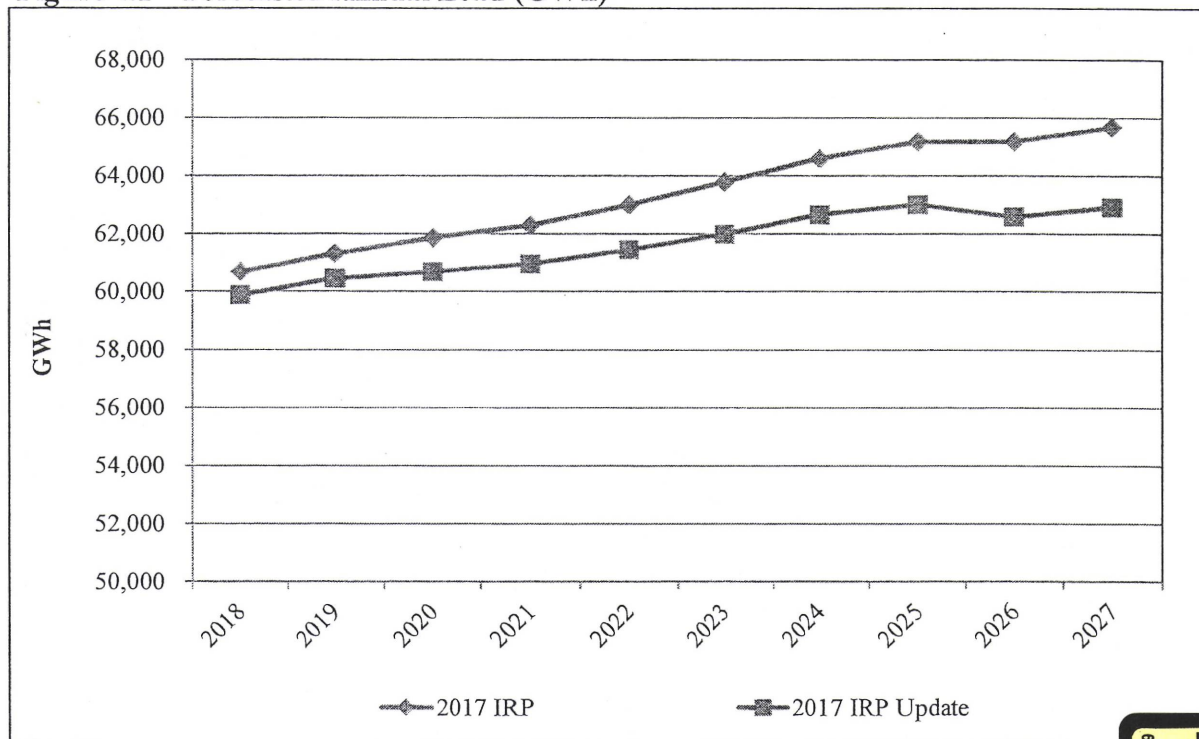
### Introduction

This chapter presents an update to PacifiCorp's load-and-resource balance. Updates to PacifiCorp's long-term load forecasts (both energy and coincident peak load) for each state and the system as a whole are summarized in the Appendix. Updates to PacifiCorp's load forecast, resources, and capacity position are presented and summarized in this chapter.

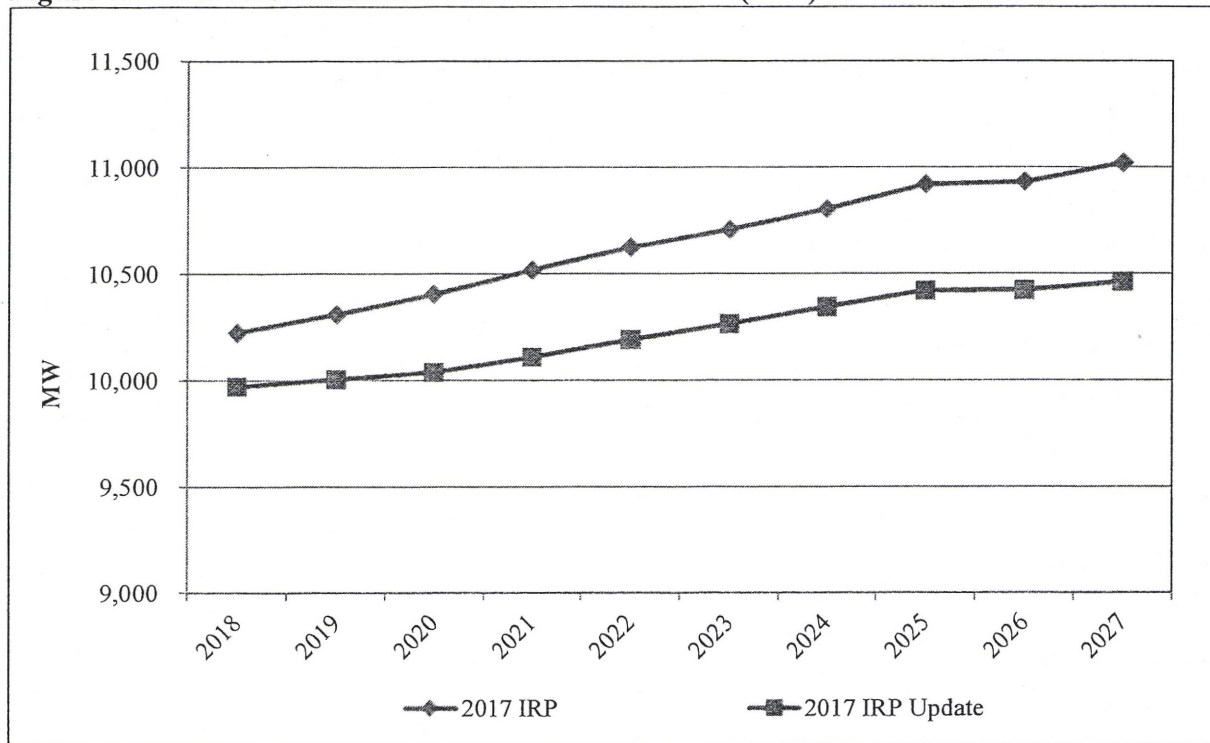
### System Coincident Peak Load Forecast

The 2017 IRP Update relies on PacifiCorp's August 2017 load forecast. Figure 4.1 compares PacifiCorp's most recent load forecast to the forecast used for the 2017 IRP. Figure 4.2 compares PacifiCorp's most recent coincident system peak load forecast to the forecast used for the 2017 IRP. Considering that PacifiCorp analyzes incremental energy efficiency and direct-load control programs as demand-side resource options in its IRP, both figures exclude incremental energy efficiency savings and direct-load control capacity included in the updated resource portfolio. The compounded average annual growth rate (CAGR) for system load is 0.55 percent over the period 2018 through 2027. The CAGR for system coincident peak is 0.54 percent over the period 2018 through 2027.

**Figure 4.1 – Forecasted Annual Load (GWh)**



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17-035-39  
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**Figure 4.2 – Forecasted Annual Coincident Peak Load (MW)**

### Wind and Solar Qualifying Facility Resource Updates

Table 4.1 and Table 4.2 summarize the capacity from wind and solar power-purchase agreements (PPAs) with qualifying facilities (QFs) that have or are expected to come online over the 2017-2021 time frame assumed in the 2017 IRP Update compared to the 2017 IRP.

**Table 4.1 – Qualifying Facility Wind PPAs**

Qualifying Facilities	State	2017 IRP Preferred Portfolio		2017 IRP Update	
		Capacity (MW)	L&R Balance Capacity at System Peak (MW)	Capacity (MW)	L&R Balance Capacity at System Peak (MW)
Casper Wind (Chevron)	WY	17	3	17	3
Chopin	WA	10	1	10	1
Everpower <sup>(1)</sup>	WY			239	38
Foote Creek II	WY	2	0	2	0
Foote Creek III	WY	25	4	25	4
Latigo Wind	UT	60	9	60	9
Mariah Wind	OR	10	1	10	1
Meadow Creek Project – Five Pine	ID	40	6	40	6