

PGE: An Introduction

House Energy and Environment

February 12, 2013

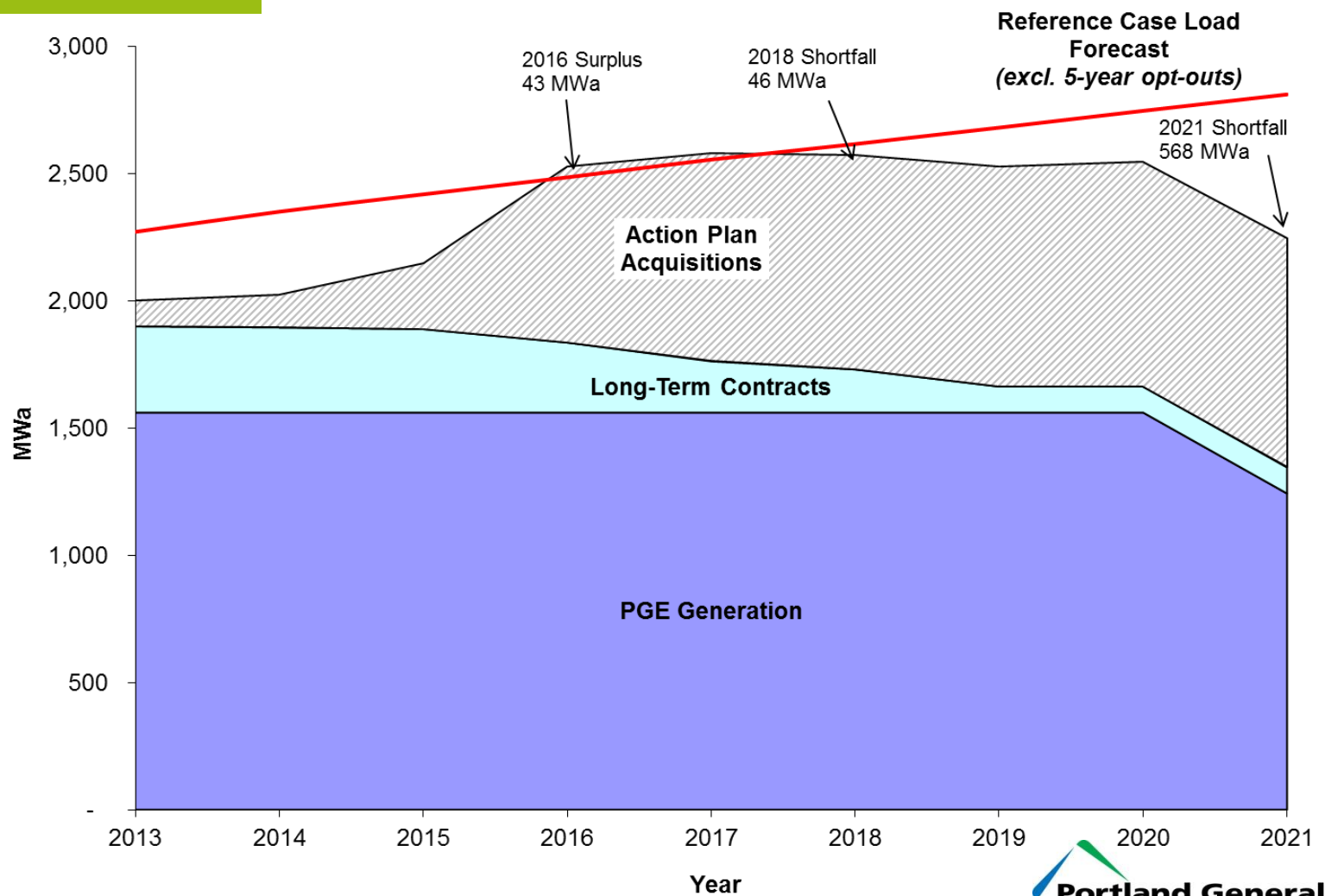


PGE Service Territory

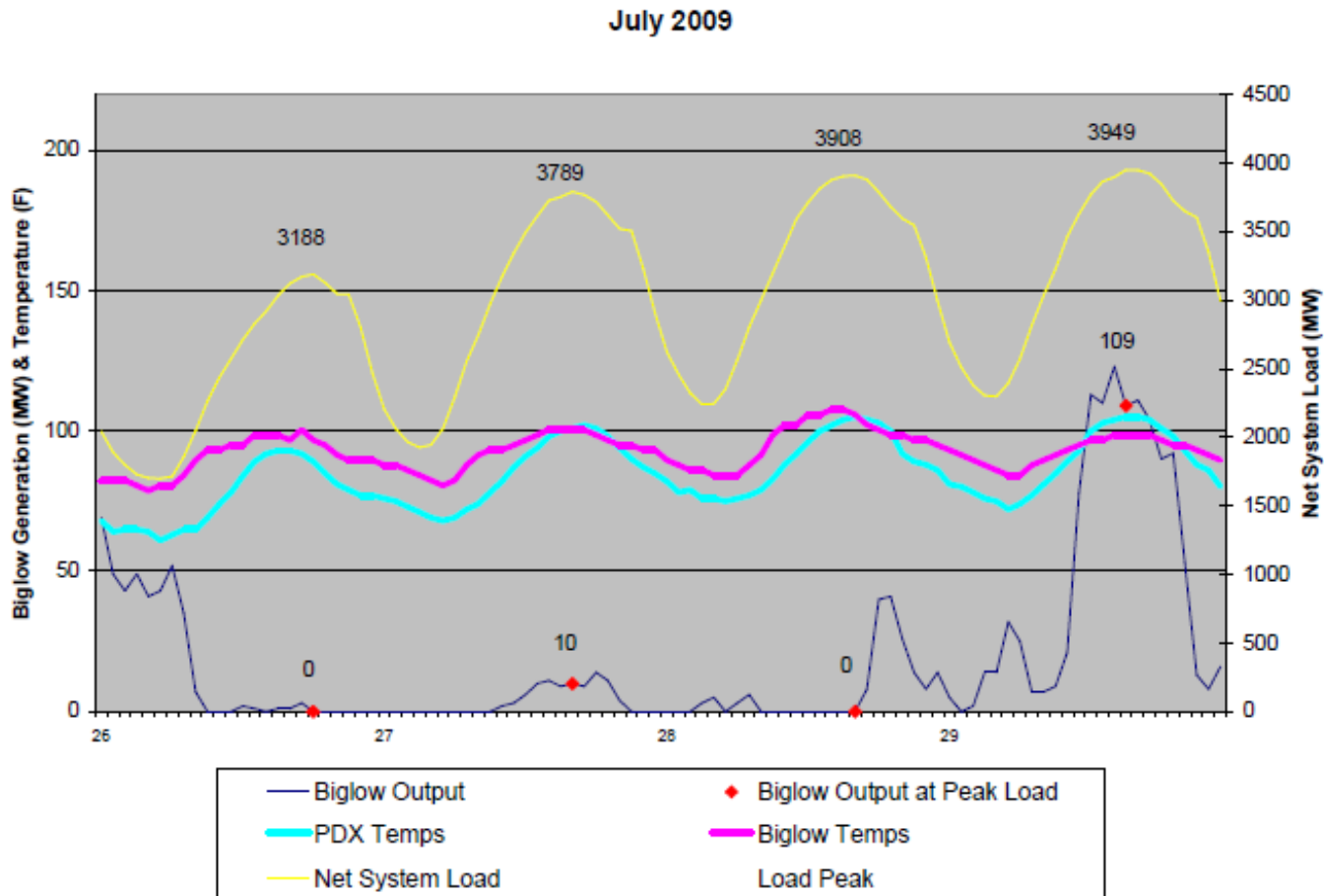
- 4,000-square-mile operating area
- 825,000 customers
- 43% of statewide customers, 38% of load
- Area is state's economic engine – 70% of the state's GDP
- 52 cities served
- 10.10 cents/kwh residential, less than national average
- 2,766 MW of owned generation capacity
- 2010 peak load of 3,582 MW
- Winter peak load of 4,073 MW (1998)



Load – Resource Balance: Energy



Resource variability & capacity value



IRP Action Plan

Requests for Proposals

- Capacity
 - 200 MW year-round flexible resource
 - 200 MW bi-seasonal peaker
 - 150 MW winter-only peaker
- Energy
 - 300-500 MW base load resource
- Renewables
 - 100 MWh to meet 2015 RPS with physical resources

Cascade Crossing

- 500 kV line and other system investments

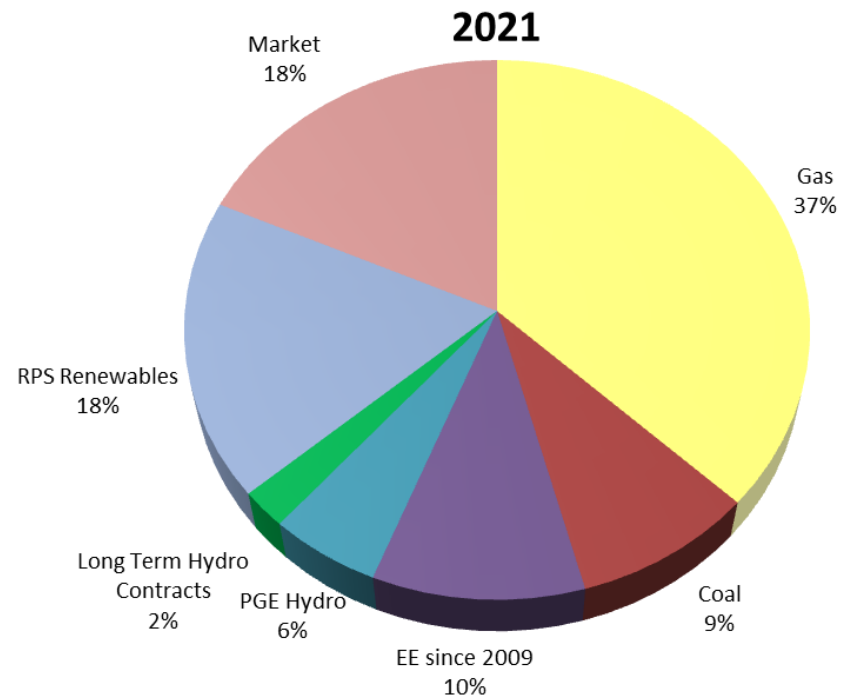
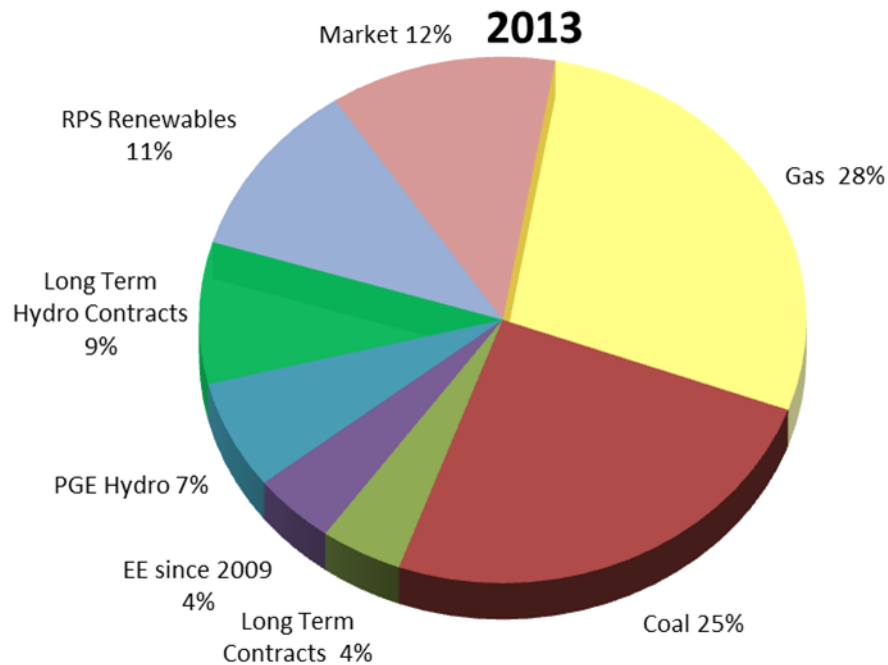
Demand Side Resources

- Acquire new demand-side resources by 2016:
 - All ETO-targeted EE (current forecast is 183 MWh)
 - 60 MW of demand response
 - 67 MW of additional dispatchable standby generation

Implement Boardman 2020



Current and Projected Energy Portfolio (to 2021)



- 50 MWa, or about 2%, of the RPS segment is PGE low-impact hydro
- 2021 RPS = 20%, net of EE

Innovative Programs

Smart Meters

- Installed system-wide
- T&D Automation
- Energy Tracker

Salem Smart Power Project

- Installed 5 MW lithium batteries and inverter systems

Boardman biomass

- Researching a variety of feed stocks for 2014 test burn

Demand Response

- Firm Load Reduction
- Water Heater Direct Control

Solar

- Baldock Solar Station
- Outback

2/12/2013

