



**Portland General Electric Company**

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**V. Denise Saunders**

*Assistant General Counsel*

May 4, 2010

***Via Electronic Filing and U.S. Mail***

Oregon Public Utility Commission

Attention: Filing Center

550 Capitol Street NE, #215

PO Box 2148

Salem OR 97308-2148

**Re: LC 48 Errata Filing**

Attention Filing Center:

Please find enclosed an original and one copy of an Errata to Portland General Electric Company's 2009 Integrated Resource Plan. This Errata contains the following revised Tables and Figures:

Table 8-3: PGE did not submit the corrected table identified in the Errata submitted on April 9, 2010. This filing contains the revised table which corrects a spreadsheet error resulting in a change to the values for Cases 4 and 5.

Figures 13A-4 and 13A-5: have been updated to include all resource actions necessary to meet load. That is, the replacement graphs incorporate market purchases. Technically these figures were correct but they have been revised to include short-term purchases in the resource mix.

Figure 10A-3: corrects a typographical error in the legend for WY.

Figure 10A-8: adds embedded EE and RPS renewables to the last 3 portfolios on the right – these were inadvertently omitted from the Figure included in our April 9, 2010 Addendum.

This is being filed by electronic mail with the Filing Center. It is also being served on the LC 48 service list. An extra copy of the cover letter is enclosed. Please date stamp the extra copy and return to me in the envelope provided.

Sincerely,

*Denise Saunders by cbm*

V. Denise Saunders

Assistant General Counsel

VDS:cbm

Enclosures

cc: LC 48 Service List (w/enclosures)

May 4, 2010

**Table 8 3: Cost Differential between Cascade Crossing & BPA-provided Transmission Service (Single-Circuit)**

Portfolio	Net NPV (2009\$)		
	Diversified Thermal w/ Green	Diversified Green	Diversified Green w/ on- peak Energy Target
1	(\$76,386)	(\$89,762)	(\$62,519)
2	(\$26,551)	(\$39,927)	(\$12,684)
3	\$11,026	(\$798)	\$25,104
4	\$26,347	\$4,861	\$30,764
5	\$47,439	\$25,953	\$51,856

Figure 13A-4: PGE Projected 2015 Energy Resource Mix<sup>10</sup>

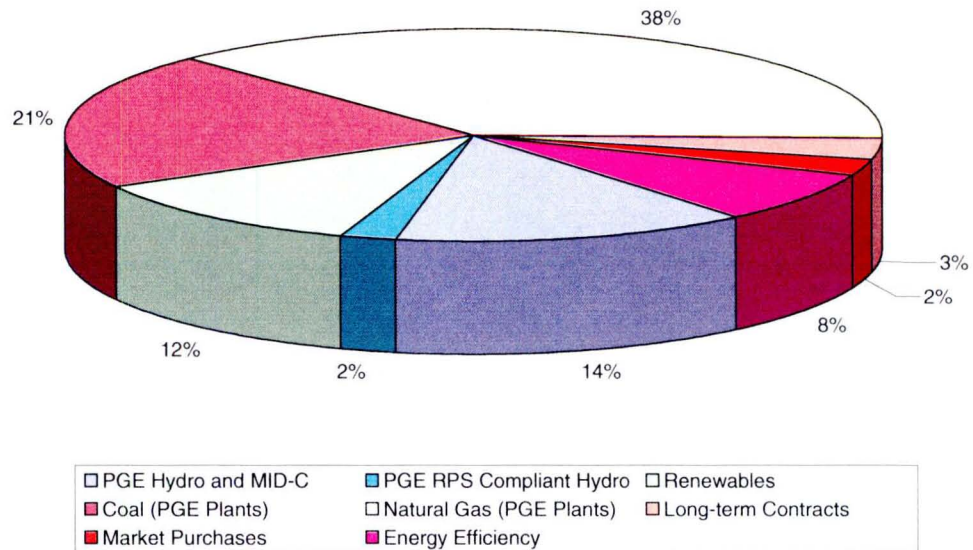
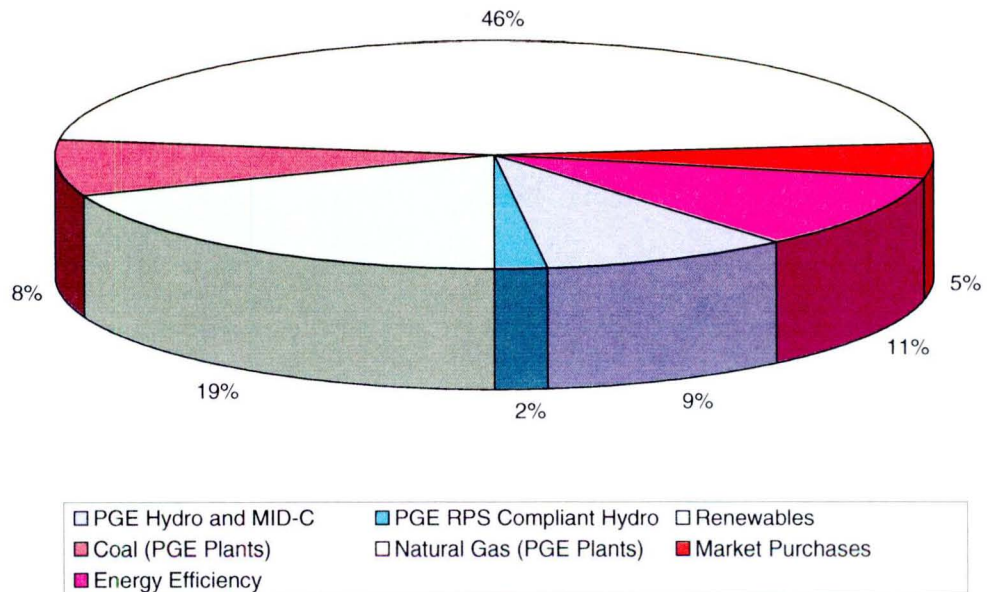
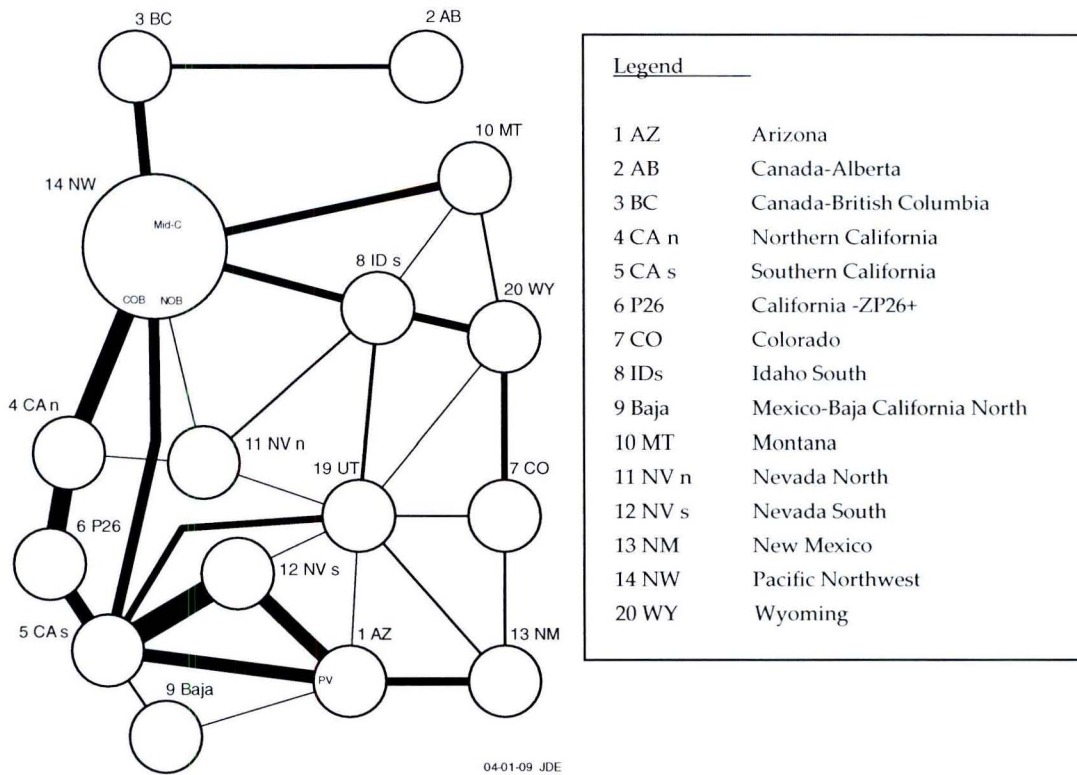


Figure 13A-5: PGE Projected 2021 Energy Resource Mix



<sup>10</sup> Total renewable percentage does not equal 15% due to inclusion of EE. Renewables as a percentage of load adjusted for EE will be 15%.

Figure 10A-3: WECC Topology



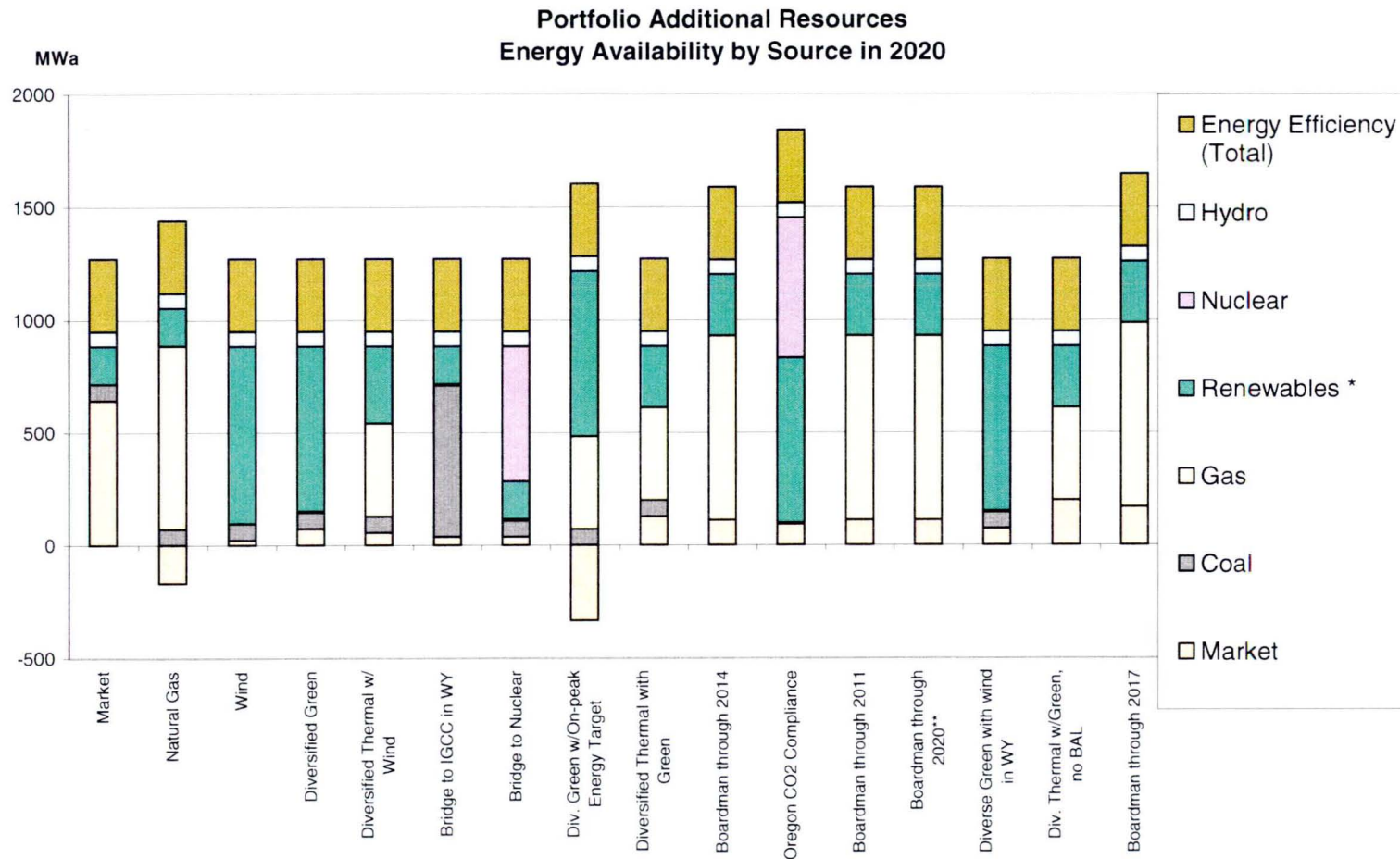
### 10A.1 WECC Long-Term Wholesale Electricity Market

As in the 2007 IRP, we used AURORAxmp to simulate the long-term build-out of WECC resources to meet future electricity demand and generate hourly electricity prices to be used in our portfolio analysis.

The AURORAxmp database specifies load, expected load growth over time, resources, transmission capability, fuel prices, hydro potential and generation, and generation resource emissions for each zone in Figure 10A-3. AURORAxmp simulates the WECC markets every hour by calculating the electricity demand of each of the 16 zones and stacking resources to meet demand and reliability standards with the least-cost resource, given operating constraints. The variable cost of the most expensive generating plant or increment of load curtailment needed to meet load for each hour of the forecast period establishes the marginal price.

We used a transparent approach that relies on the default database in AURORAxmp and validated it using our professional judgment and the advice

**Figure 10A-8: Portfolio Composition in 2020 – Energy Availability by Source**



\* Includes renewables added for physical compliance after 2016. Does not include 2008 RFP renewables

\*\* Boardman through 2020 after Boardman replacement

## CERTIFICATE OF SERVICE

I hereby certify that I have this day caused **ERRATA** to be served by electronic mail to those parties whose email addresses appear on the attached service list, and by First Class US Mail, postage prepaid and properly addressed, to those parties on the attached service list who have not waived paper service from OPUC Docket No. LC 48.

Dated at Portland, Oregon, this 4<sup>th</sup> day of May, 2010.

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