

Appendices

2009 Integrated Resource Plan

A. Public Participation	A-1
Integrated Resource Planning Advisory Group.....	A-1
Conservation Resources Advisory Group.....	A-2
Summary of IRPAG and CRAG Meetings	A-3
B. Legal Requirements.....	B-1
C. Financial Considerations.....	C-1
D. Environmental Matters.....	D-1
PSE Greenhouse Gas Policy	D-2
Regulatory and Policy Activity	D-10
Challenges/Issues of Climate Change Policy	D-15
E. Load Forecasting Models.....	E-1
Electric and Gas Billed Sales and Customer Counts.....	E-1
Peak Load Forecasting	E-3
Hourly Electric Demand Profile	E-7
F. Electric Resource Alternatives.....	F-1
Demand-side Measures	F-2
Solar Energy.....	F-6
Biomass	F-12
Fuel Cells.....	F-18
Water-based Generation	F-21
Waste to Energy Technologies	F-30
Wind Energy	F-34
Geothermal	F-40
Coal.....	F-44
Natural Gas.....	F-58
Nuclear	F-63
G. Regional Transmission Resources.....	G-1
Introduction.....	G-1
The State of PSE's Current Transmission System..	G-2
Regionally-Based Transmission Efforts	G-7
Outlook	G-16

H. Wind Integration	H-1
Overview	H-1
Wind Integration Costs in IRP Modeling	H-2
Short Term Outlook Case Study	H-2
Regional Challenges and Solutions	H-6
I. Electric Analysis	I-1
Methods and Models	I-3
Data	I-14
J. Gas Analysis	J-1
Analytical Models.....	J-1
Analytical Results.....	J-7
K. Global Insight Report.....	K-1
<i>Security of Natural Gas Supply for the Pacific Northwest, October 2008</i>	
L. Demand-side Analysis	CD enclosed