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December 3, 2008

MEMORANDUM

TO: Power Committee

FROM: Massoud Jourabchi

SUBJECT: Demand Forecast for the 6th Plan

In the November 14th teleconference, near and long-term projections of the key national and regional economic drivers were presented. In this month's meeting, a review of the base and alternative economic scenarios and their implications for the energy and peak load forecast will be presented.

Between 2010 and 2030, regional load is projected to grow at annual rate of between 1.2 percent and 2.0 percent depending on the scenario, prior to any new conservation. Summer peak load is projected to grow at annual rate between 2.1 percent and 2.8 percent. The monthly electricity bill for residential customers is projected to grow from \$60-\$70 to \$95-\$109 by 2030, growth of about 2 percent per year. The increase in electricity cost due to renewable portfolio standards is projected to be about \$1 per megawatt-hour (MWh) for Montana, \$3 dollars per MWH for Oregon, and about \$2 per MWH for Washington.

Scenario	Energy	Summer Peak	Winter Peak	
Low Growth	1.2 percent	2.1 percent	1.3 percent	
Base case	1.6 percent	2.5 percent	1.7 percent	
High Growth	2.0 percent	2.8 percent	2.0 percent	

Average Annual Growth Rate 2010-2030

The current uncertainty about the national economy impacts both the short-term forecast and, to a lesser extent, the long-term forecasts. The impact of the current slow-down in the economy has not been felt in the regional loads. For the first eight months of 2008, regional loads have been growing in spite of the projected slow-down in the economy. Sales of electricity between January and August 2008 have grown by 2.3 percent. Expectations are that sales in the last four months of the year will slow down. The overall annual growth rate for 2008 is projected to be 1.9 percent. For 2009, our forecast shows a slowdown in load growth rate that could go below 1.7 percent. The current base case economic forecast projects a recovery post-2010, in sync with the economic recovery during 2010-2013. The load growth is expected to jump to a 2.2 percent annual rate during 2010-2013. If the current expected recession becomes deeper than anticipated and lasts longer, load growth in 2010 is expected to be negative 0.06 percent.









	1985-2007	2010-2030	2010-2030	2010-2030
Sectoral Driver	Actual	Low Case	Base Case	High Case
Population	1.60%	0.60%	1.30%	2.20%
Residential	1.90%	0.60%	1.70%	2.20%
Commercial Floor space	2.30%	0.90%	1.50%	1.90%
Manufacturing Output \$	4.10%	2.30%	3.00%	3.90%
Agriculture Output \$	4.40%	3.00%	3.90%	5.00%
Light Vehicle Sales		0.50%	1.40%	2.20%
Plug-in electric Vehicle penetration rate by 2030	NA	10%	30%	40%
Inflation rate	2.20%	1.70%	1.90%	3.50%
Fuel Prices		Council's Low Forecast	Council Base Forecast	Council High Forecast

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Historic, Base Case and Alternative Scenarios Growth Rates can be summarized as







	Council	s Fuel P	rice Fo	precast
	Range	In Annual 2010-20	Growth F 30	Rate
		Low Case	Base	High Case
	Oil	-1.11%	1.1%	2.0%
Na	atural Gas	-1.3%	0.9%	1.7%
	Coal	-0.5%	0.5%	1.2%
		7		Northwest Power and Conservation Council













	Summary of Projected Growth Rate for 2010-2030			ate for
	Scenario	Energy	Summer Peak	Winter Peak
	Low Growth	1.2%	2.0%	1.3%
	Base Case	1.6%	2.3%	1.7%
		1070	20070	
	High Growth	2.0%	2.7%	2.0%
POW		14	1	Northwest Power and Conservation Council

	ustomers w	ionthiy Bill /Ho	usenoid 2	2006\$
	Oregon	Washington	Idaho	Montana
1986	73	72	81	62
2007	80	82	68	81
2020	86	87	74	87
2025	98	99	85	99
2030	106	108	94	109
Increase in M	onthly Bills			
1986-2000	-0.3%	-0.5%	-0.8%	0.1%
2000-2007	2.1%	3.1%	0.1%	3.6%
2010-2030	2.1%	2.3%	2.3%	2.2%
ncrease in Bi	lls For Sam	e Level of Sale	es	
2010-2030	1.5%	1.4%	1.4%	1.1%



