STUDY OF ELECTRICITY TAXATION			
WASHINGTON S	TATE DEPARTMENT OF REVENUE		
Anne Solwick	Legislation and Policy Division 360-570-6129		
Ray Philen	Research Division 360-570-6078		
Lorrie Brown	Research Division 360-570-60		
http://dor.wa.gov/i	ndex.asp?misc/electricity/final.htm		







Not all trends were agreed upon by the study participants.

The study team, with the help of the advisory committee, chose which trends were significant and which were not.

A baseline revenue forecast was produced using a forecast of electricity rates published by the Northwest Power Planning Council.

Fiscal Years	Public Utility State (\$000)	Public Utility City (\$000)	Change	PUD Privilege (\$000)	Change	Property (\$000)	Change
Base 1998	\$130,224	\$107,872		\$2 <mark>7</mark> ,794		\$44,869	1
Forecasted		100	2				
1999	\$136,736	\$ <mark>1</mark> 13,266	4.80%	\$27,658	-0.50%	\$46,439	3.40%
2003	\$153,299	\$126,986	2.70%	\$30,061	2.70%	\$53 <mark>,</mark> 290	3.40%
2005	\$162,004	\$134,197	2.70%	\$31,768	2.70%	\$57,086	3.40%





	Inp	uts To The A	nalysis	
	Estimated Amo	unt of Electricity	v Consumption	1
3	Purchased F	from Out-of-stat	e Suppliers	
			seppines	
275			Estimated Per	Estimated by
100	Price (mills	per kWh)	2831 Study	L&Ps
	Low	High	(MWh 000)	
Year	LOW			
Year 2000	19.0	31.0	28,832	16,37
Year 2000 2003	19.0 19.7	31.0 36.8	28,832 29,971	16,37

Data Sources: *Washington State Electricity System Study*, Washington Utilities and Transportation Commission and Dept. of Community, Trade and Economic Development, for ESSB 6560, (December 31, 1998). ; Northwest Power Planning Council, BPA Stranded Cost Simulation Model (2002-2006).

Washington Electric Utility Service Quality, Reliability, Disclosure and Cost Report, Washington Utilities and Transportation Commission and Office of the State Auditor, for ESHB 2831, (December 1, 1998).

Department of Revenue

Based on Estimates by Light and Power Businesses						
	Low P	rice	High F	Price		
Year	Lost PUT (000)	% Total PUT	Lost PUT (000)	% Total PUT		
2000	\$12,009	8.54%	\$5,596	3.988		
2003	\$13,056	8.52%	\$0	0.008		
2006	\$12,862	7.72%	\$0	0.00%		

	Low P	rice	High Price		
Year	Lost PUT (000)	% Total PUT	Lost PUT (000)	% Total PUT	
2000	\$20,418	14 <mark>.53</mark> %	\$8,596	6.12	
2003	\$22,198	14.48%	\$0	0.00	
2006	\$20,699	12.43%	\$0	0.00	



able showing the tax impacts of	each trend was develope
x impacts are based on increases. heration, consumption and price.	/decreases in power
Effects on Tax	Revenues
Increase in Efficiency-I	Enhancing Services
(Less Power Sold 7	Γo End Users)
Tax Type	Effect
PUT	Decrease
PUD Privilege Ñ Self-Generation	No Effect
PUD Privilege Sales to End Users	Decrease
B&O Tax	Increase
Sales and UseTax	No Effect
Property Tax	No Effect

TAX EQUITY ANALYSIS

In order to analyze differences in tax obligations, hypothetical electricity entities were created and taxed.

The hypothetical entities represent all activities in the electricity industry from generation to the sale to the final consumer.

Although hypothetical, the entities are typical representatives of Washington's electricity industry.

The typical businesses were created using actual data from Washington's electricity industry.

Department of Revenue



Tax Scenarios Bundled Electricity Service Compares the range of taxes implicit in the purchase of electricity from the various types of local light and power businesses. The Effect of Price on Total Residential Tax Bill This scenario demonstrates how price effects the overall tax burden. Competitive Sale to End-User Models the incremental sale to an end-user, ignoring distribution, transportation, and other fixed costs. Out-of-state Sale Focuses on the sale of electricity to customers in other states. **Unbundled Services** Illustrates the tax consequences of unbundling, where associated services such as metering and billing are provided by businesses other than the light and power business. Sales for Resale This comparison illustrates the tax impact of the sale of electricity for resale based upon the type of purchaser

Department of Revenue



Bundled Electricity Service Focus: Purchasing From Different Types of Light and Power Businesses					
Large industrial customer purchases electricity from:	e industrial customer purchases electricity : Taxes Total \$ % of Gross Sales		Cents per kWh		
Investor Owned Utility (generates own electricity)	\$4,640	15.89%	0.48		
Investor Owned Utility (with no generation capacity)	3,454	11.83%	0.35		
Municipal L&P (generated by local turbine) ¹	3,427	11.73%	0.35		
Municipal L&P (w/ hydro plant in another county) ²	3,719	12.73%	0.38		
Municipal L&P (with no generation capacity)	2,984	10.22%	0.31		
Mutual/Cooperative (generates own electricity)	4,640	15.89%	0.48		
Mutual/Cooperative (with no generation capacity)	3,454	11.83%	0.35		
PUD (purchases electricity on wholesale market)	3,609	12.36%	0.37		
PUD (generates electricity for itself)	4,260	14.59%	0.44		
Large Industrial Customer; generates own electricity ³	1,937	NA	0.20		
DSI Who Buys from an Out-of-State Seller, such as the BPA	0	0	0		















