

DOCKETED

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Department of Commerce

Renewable Energy from a Washington State Perspective: Demand, Supply, and Trading

Tony Usibelli

Spec. Assistant for Energy and Climate Policy

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Renewable Demand



Achieving Carbon Limits

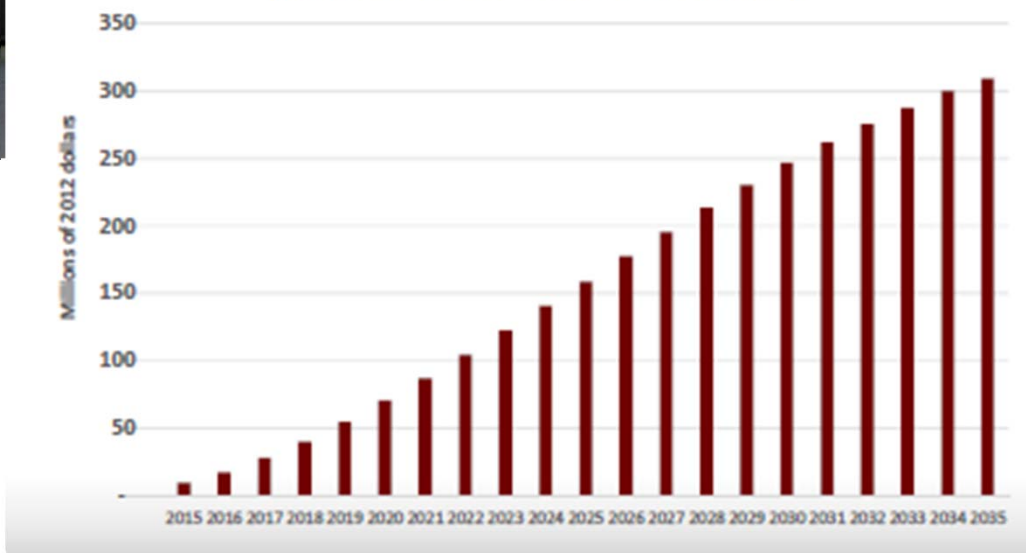
Puget Sound Energy agrees to shutter 2 oldest units at Colstrip coal plant



Electric Vehicles



Increase in Electric Utilities Revenue due to charging EV (millions of 2012 dollars)



Energy Locavore





Renewable Supply



Hydroelectricity – The New, Old Renewable



Young's Creek Hydro Project - SnoPUD

More power will be generated from same amount of water via \$120 million project – Daily Journal of Commerce



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WA RPS Resources 2016

2016 Renewable Resources and RECs by Resource Type

Eligible Renewable Resource	Energy (MWh)	RECs	Total	Percent of Total
Water	873,355	NA	873,355	12%
Wind	1,185,947	3,846,482	5,032,429	71%
Solar	-	8,180	8,180	0%
Geothermal	-	75,357	75,357	1%
Landfill Gas	-	121,415	121,415	2%
Wave, Ocean, Tidal	-	-	-	0%
Gas from Sewage Treatment	-	17,500	17,500	0%
Biodiesel Energy	-	-	-	0%
Biomass Energy	33,163	416,233	449,396	6%
Qualified Biomass Energy	-	118,958	118,958	2%
Total Electric Generation	2,092,465	4,604,125	6,696,590	
Multiplier Factors				
Apprentice Labor	59,178	179,210	238,387	3%
Distributed Generation	NA	110,053	110,053	2%
Total Multipliers	59,178	289,263	348,440	
Total Generation and Multipliers	2,151,643	4,893,388	7,045,031	100%

Note:

Qualified Biomass Energy is a new form of eligible renewable energy in 2016. It is from generating units that commenced operation before 1999.

Source: Utility reports submitted June 1, 2016. Available at:

<http://www.commerce.wa.gov/EIA>

Prepared 6/29/16



Renewable Trade



Interregional Transfers are Nothing New



Complementarity





Department of Commerce

Presented by:

Tony Usibelli

Special Assistant to the Director for
Energy and Climate Policy

(360) 725-3110

tony.usibelli@commerce.wa.gov

www.commerce.wa.gov

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