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December 3, 2013

#### MEMORANDUM

**TO:** Council Members

**FROM:** Howard Schwartz, Senior Energy Policy Analyst, WA staff Gillian Charles, Energy Policy Analyst

**SUBJECT:** Renewable Portfolio Standard Implementation in Washington

At the Council Meeting in Helena in October, staff presented the first in a series of presentations on the state renewable portfolio standards (RPS) enacted in the Pacific Northwest. This high level, top-down overview of the RPS policies in Montana, Oregon, and Washington looked at where the region is currently at in terms of renewable energy acquisition and forecasted the need for future renewable development or renewable energy credit (REC) procurement. Following the overview presentation, the Council heard from a panel on Montana's RPS policy and status. While Idaho does not have a regulatory RPS, at the November meeting in Boise, the Council heard from a panel about Idaho's renewable development and integration issues.

The presentation on December 10 follows in the series and focuses on Washington's RPS. Gillian Charles and Howard Schwartz will discuss the RPS policy in the state of Washington, highlight some developments that have arisen during implementation (in particular the discussion of a cost cap and the calculation of incremental cost), and discuss strategies utilities are employing to comply with the standard.

The Washington RPS was established through ballot Initiative 937 (I-937) in 2006. Seventeen utilities qualify to meet the standard (all electric utilities serving 25,000 customers or more), and together they make up about 84% of Washington's load. The standard states that qualifying utilities must use eligible renewable resources (or acquire RECs) to meet an annual target of 15% of load by 2020. There are interim targets increasing from 2012 (3%) through 2019 (9%).

The essential message of the presentation is that there is a great deal of uncertainty about both how much more renewable energy will be required by the RPS as well as what kind of resources utilities will use to meet their compliance obligations.







Washington Compared with Montana and Oregon					
		Montana	Oregon	Washington	
	Standard	10% in 2010 15% in 2015	5% in 2011 15% in 2015 20% in 2020 25% in 2025	3% in 2012 9% in 2016 15% in 2020	
	Date of Adoption	2005 Montana Renewable Power Production and Rural Economic Development Act of	2007 Oregon Renewable Energy Act	2006 Ballot Initiative-937	
	Sourcing Limits	Located in MT; or deliverable to MT	Located in WECC	Located in PNW; or delivering electricity into WA	
	Technology Minimums		20 MW-AC Solar PV by 2020		
	Banking	2 years	Unlimited	1 year	
	Credit Trading	Allowed	Allowed	Allowed	
Notherst	Multipliers		Solar PV x 2 (developed before 2016)	Distributed Generation x 2; Union apprenticed labor x 1.2	
Power and Conservation Council	* This table consolidates and simplifies at a high level many of the details, nuances, and unique qualities that make up each state's renewable portfolio standard .				





## Current Developments in Washington

- Utilities on track to meet 2020 compliance
- Many utilities relying on mix of existing resources and planned purchases of RECs to meet 2020 target
- Some utilities are nearing the cost cap
- There is uncertainty over how to calculate incremental cost



# Incremental Cost Calculation

"The **incremental cost** of an eligible renewable resource is calculated as the difference between the levelized delivered cost of the eligible renewable resource, regardless of ownership, compared to the levelized delivered cost of an equivalent amount of reasonably available substitute resources that do not qualify as eligible renewable resources, where the resources being compared have the same contract length or facility life." RCW 19.285.040(2)(b)

 Several approaches for calculating the incremental cost have been proposed in Washington based on UTC and Department of Commerce rules.











## A Wide of Range of Uncertainty

Based on this analysis, WA will need between 48 and 421 amw of new renewables between now and 2020.

If wind, this translates to a range of about 150- 1500 mw of capacity.

But there are further uncertainties.



## Further Considerations II

- PSE is rolling-over its REC's using the banking provisions in I-937 so they will meet their 2020 requirements with "inhand" contracts. According to their 5/30/13 IRP, in 2022 they will require an additional 74 amw and 186 amw in 2033.
- For the 7<sup>th</sup> Power Plan, a post-2020 analysis is needed for all utilities in WA.

