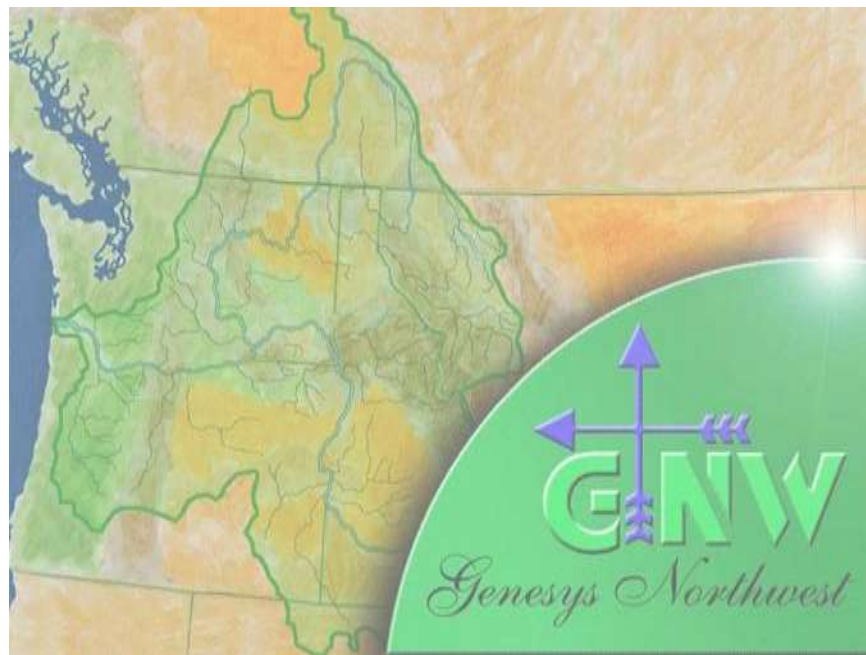


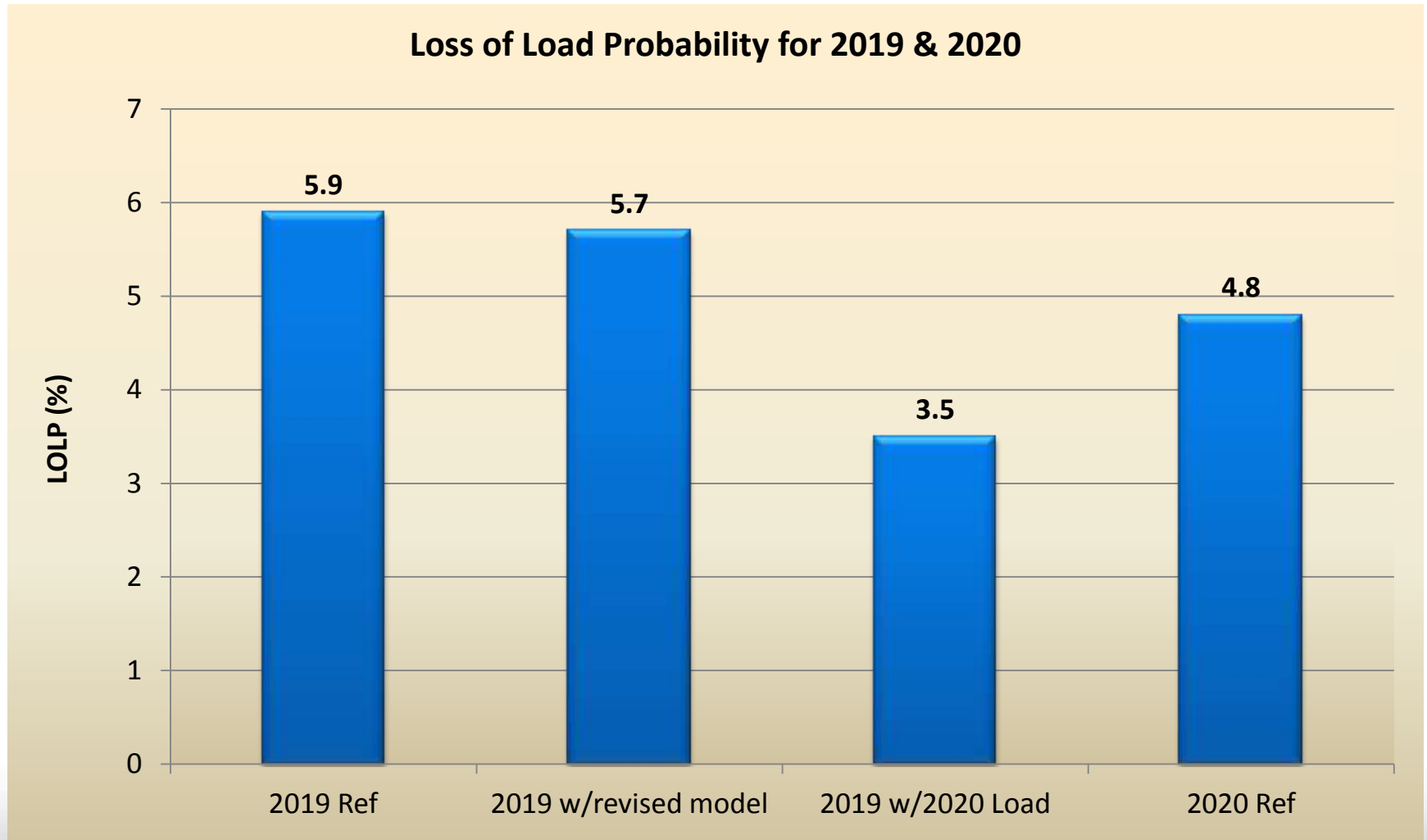
# 2020-21 Final Draft

## Resource Adequacy Assessment



SAAC/RAAC Joint Committee Meeting  
Portland, Oregon  
April 17, 2015

# 2020 Final Draft Assessment



# Final **DRAFT** Results for 2020<sup>1</sup>

Load ADJ >>>	-2.5%	-1.5%	0%	+1.5%	+2.5%
Import (MW)					
0	10.1%		13.3%		17.5%
1500	4.4%	5.0%	6.2%		
2500	3.2%	3.8%	4.7%	5.9%	6.9%
3400			4.1%	4.9%	
4500			0.7%		1.7%

<sup>1</sup>Studies to fill in other cells are ongoing.

# Effects of Coal Retirement 2021

- Resource changes 2019 to 2020
  - Boardman retires (600 MW nameplate)
  - Centralia 1 retires (730 MW nameplate)
  - Total loss of 1,330 MW
- Load change 2020 to 2021
  - 6<sup>th</sup> Plan EE savings (350 aMW)
  - Net load growth of ~80 aMW (~0.35%)

# Summary of 2021 Analysis

	2013 Analysis	2014 Analysis	2015 Analysis
Changes in Loads and Resources	N/A	+660 MW Gen	-250MW Gen -310 aMW Load
5-year out LOLP	6.6%	5.9%	4.8%
MW needed	700 MW <sup>1</sup>	400 MW	- 100 MW
2021 LOLP	15.3%	10.9%	8.3%
MW needed	2,000 MW	1,700 MW	1,150 MW
<b>Net MW needed</b>	<b>1,300 MW</b>	<b>1,300 MW</b>	<b>1,250 MW</b>

<sup>1</sup>This is an updated estimate.

# Coal Replacement Resources Needed to get to 5% LOLP

- Gas **1.15 GW**
- Solar PV **12.7 GW**
  - Current US installed 15.9 GW
  - Current NW installed 17.4 MW
- Wind **10 GW**
  - Only achieved an LOLP of 6.9%
  - More wind did not help

# Effects on June Oversupply (Expected Amount)

