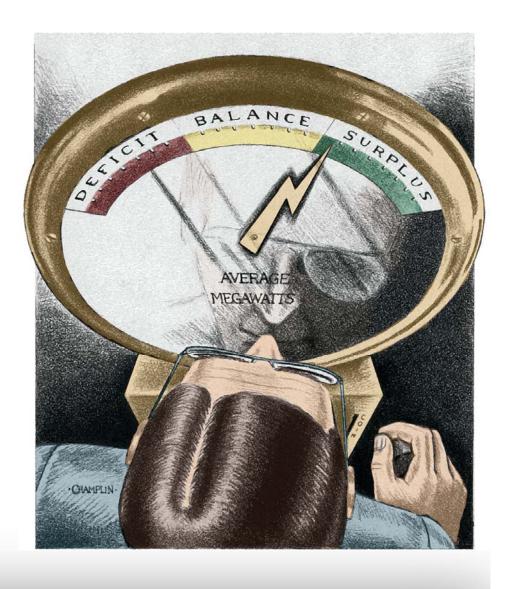
Review: Resource Adequacy 2019

RAAC Steering Committee November 17, 2014 Portland, Oregon





Outline

- Changes since the 2017 assessment
- Sensitivity to imports and load
- Resource Dispatch Order
- Effect of standby resources
- Schedule for 2020-21 assessment



Changes since the 2017 Assessment¹

Item	Change from 2017 Assessment			
2017 LOLP	7%			
Net Load Growth (incl. EE targets)	260 MWa			
EE Targets	700 MWa			
Dispatchable Generating Capacity	670 MW			
New Wind Capacity	260 MW			
Standby Energy	- 42,200 MW-hours			
Standby Winter Capacity	37 MW			
Standby Summer Capacity	113 MW			
Winter HLH Import Availability	800 MW			
2019 LOLP	6%			



Sensitivity to Imports and Load LOLP Results for 2019 (%)

Load	-2.5%	-1.5%	Medium	+1.5%	+2.5%
Import					
0 (MW)	7.5	8.6	10.5	12.9	14.9
1700	4.5	5.3	6.5	8.0	9.3
2000	4.3	4.9	6.2	7.7	9.0
2500	4.0	4.7	5.9	7.2	8.5
3000	3.8	4.5	5.4	6.7	7.9
3400	3.7	4.4	5.3	6.4	7.7



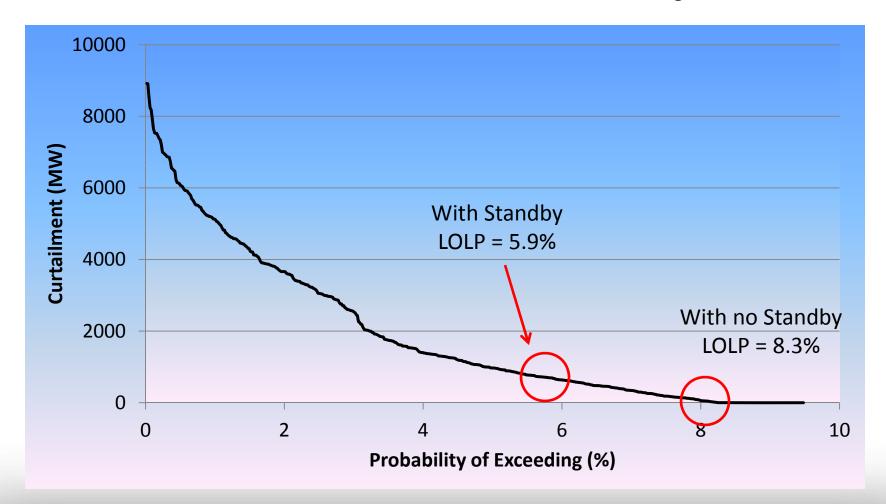
Resource Dispatch Order

Resource			
Firm Hydro and Thermal	From lowest to highest operating cost	Modeled in	
Non-firm and Markets	In-region and out-of-region markets, surplus hydro, borrowed hydro	GENESYS	
Standby Resources Type 1	Non-declared utility resources (diesel generators, etc.)	Modeled in	
Standby Resources Type 2	Buy-back provisions on load	Processor	
Emergency Action 1	More expensive non-declared resources or contract provisions		
Emergency Action 2	Governor's call for conservation	Not Modeled	
Emergency Action 3	Rolling black outs or brown outs		



Effect of Standby Resources

Peak-Hour Curtailment Probability Curve





Schedule for 2020-21 Assessment

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Tech Review load, resource and other data; review model enhancements; identify key assumptions							
Steering Review all data; review and recommend key assumptions							
			Tech	Tech Review preliminary 2020 assessment			
			Steering	Review preliminary 2020 assessment			
					Tech	Review final assessment	
					Steering	Review final assessment	
						Council Power	Review final
							Council Approval

