Western Resource Adequacy/Sufficiency Programs & Processes Inventory

DRAFT, v2, 8/12/2022

Darker shade= Timeframes that are emphasized/examined in more detail

Timeframes

							Timeframes
Responsible Entity	Program/Product	Area	Туре	Time Frame	Frequency	Method/Approach	Day Ahead, Real-time Next Month/ 12-18 Quarter/ Months Year 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Resource Adequacy Programs/Planning/Assessments (near to long-term)							
Investor-owned Utilities Consumer-owned Utilities	Utility IRPs (including BPA Resource Program)	BAAs/ Retail Customer Loads	Planning	Medium/ Long-term	~2-5 years	Varies	Action plan period
Northwest Power & Conservation	Northwest Power Plan	Pacific NW (WA, OR, Western MT	Planning	Medium/ Long-term	5 years	- Two load forecast models; Aurora (prices) - "New" Genesys (Monte Carlo hourly chronological simulation) - Regional Portfolio Model (RPM)	Action plan period
Council	NW Council Annual Adequacy Assessments	and ID)	Assessment	Medium/ Long-term	Annual	"New" Genesys, 5 year out "early warning" 5% annual LOLP (event year)	Year 5
BPA	Whitebook	Pacific NW (WA, OR, Western MT	Assessment	Long-term		Deterministic	
PNUCC	NW Regional Forecast	and ID)	Assessment	Long-term		Deterministic	
WPP	WRAP Forward-Showing Program	Participating Western Entities	Compliance	Near-term	Continuous	Load Responsible Entity (LRE) resource sufficiency evaluation	Under development Tariff filing planned Q3 2022
CPUC	CPUC RA Program	Load Serving Entities in CPUC's jurisdiction	Compliance	Near-term	Monthly and Annual	Load Serving Entity (LSE) resource sufficiency evaluation	
	Summer Reliability Assessment Winter Reliability Assessment		Assessment	Near-term	Annual		
WECC > NERC	Long-term Reliability Assessment (LTRA)	Western U.S. > North America	Assessment	Medium/ Long-term	Annual	MAVRIC (convolution)	
	Probabilistic Assessment (ProbA)		Assessment	Medium/ Long-term	Biennial		
WECC	Western Assessment of Resource Adequacy	Western States and Canadian Provinces	Assessment	Medium/ Long-term	Annual	PCM, Capital Expansion, MAVRIC	
Operations (short-term) Programs							
WPP	WRAP Operational Program	Participating Western Entities	Compliance	Operational	Continuous	Load Responsible Entity (LRE)	Under development Tariff filing planned Q3 2022
SPP	Markets+ Program	Participating Entities	Compliance	Operational	Continuous	BA-based	Under development Tariff filing planned 2023?
CAISO	Western Day-ahead Markets Enhancement (EDAM, DAME)	CAISO and Participating Entities	Compliance	Operational	Continuous		Under development Tariff filing planned Q2 2023
	Western Energy Imbalance Market (EIM)	CAISO and Participating Entities	Compliance	Operational	Continuous		