

# DRAFT RPM Related Action Items

# Please Keep In Mind..

- **These are recommendations to the Council Members, not necessarily the action plan items**
- **Other items and/or changes may be introduced – I will be very clear about which items were reviewed by the advisory committees**

# Thermal Options

Item	Maintain options to build generation for energy, capacity and ancillary service needs
Implementer(s)	BPA, Utilities and Utility Regulators
Specific	The region needs to maintain options to build thermal plants and monitor and build plants if load growth or ancillary service needs justify construction
Measureable	IRPs should be monitored for this action item
Actionable	The Council recommends utility IRPs and the BPA Resource Program examine the need for additional thermal generation compared to long-term contracts to maintain resource adequacy standards consistent with the Regional Adequacy Assessment
Realistic	Utilities often maintain these type of options or execute Power Purchase Agreements with companies that have options
Time-bound	This recommendation is for any IRPs released after the 7 <sup>th</sup> plan

# Renewable Generation

Item	Consider utility scale solar as an option when developing RPS compliance strategies
Implementer(s)	Utilities and Utility Regulators
Specific	Utility scale solar and wind are cost competitive in the region but each utility should consider its own cost profile
Measureable	IRPs should be monitored for this action item
Actionable	The Council recommends that utilities consider utility scale solar in IRPs when developing RPS compliance strategies
Realistic	Many IRPs already have considered solar
Time-bound	This recommendation is for any IRPs released after the 7 <sup>th</sup> plan

# Carbon Emissions

Item	If the region needs to reduce carbon emissions as a result of policy or regulation, retire plants with high CO2 emissions
Implementer(s)	Utilities and Utility Regulators
Specific	The most cost-effective strategy for meeting CO2 emissions reduction goals is to directly retire generating plants that emit high levels of CO2
Measureable	Compliance plans for CO2-based regulation should be monitored by the Council
Actionable	The Council recommends utilities and utility regulators consider pursuing compliance options for regulation that result in plant retirements or redispatch
Realistic	Retirements have been used to comply with other environmental regulations but there are also more expensive options in use
Time-bound	Based on CO2 regulation

# Conservation Action Items

# Conservation Cost-Effective Target

<b>Item</b>	<b>Set a regional target for achieving cost-effective energy efficiency in a manner consistent with the RPM findings</b>					
Implementer(s)	Council, RTF, NEEA, Utilities, Energy Trust, BPA					
Specific	Design programs with reasonable assurance of achieving 4500 MW cumulative by 2035. Development should follow this schedule through 2027.					
	FY16-17	FY18-19	FY20-21	FY22-23	FY24-25	FY26-27
	370	470	590	660	700	690
Measureable	BPA and utilities should work with the Council to track progress.					
Actionable	The Council recommends BPA and utilities design programs based on this goal to be consistent with the 7 <sup>th</sup> plan					
Realistic	Similar tracking was done for the 6 <sup>th</sup> plan					
Time-bound	Annual progress reports					

# Conservation for Adequacy

Item	Purchase additional conservation for adequacy
Implementer(s)	BPA
Specific	Establish a method consistent with the Council's Adequacy Assessment for purchasing conservation to meet adequacy standards beyond the cost-effective target at prices and levels consistent with the avoided cost of a thermal resource under critical to low water conditions
Measureable	BPAs resource program should outline the approach for this action item
Actionable	The Council recommends BPA adopt this as an agency priority for consistency with the 7 <sup>th</sup> plan
Realistic	BPA has established methods for purchasing energy efficiency
Time-bound	A method should be established ahead of the next Adequacy Assessment



# Conservation Capacity

Item	Monitor the contribution of conservation to system peak capacity needs
Implementer(s)	Council, RTF, NEEA, Utilities, Energy Trust, BPA
Specific	Monitor and report on the contribution of conservation to system peak capacity needs and compare it to the 7 <sup>th</sup> plan
Measureable	BPA and utilities should work with the Council to track progress
Actionable	The Council recommends BPA and utilities track the contribution of programs to system peak
Realistic	It is possible to estimate the impact with current information but additional research would greatly refine this estimate
Time-bound	Reports should be biannual to match conservation target schedule

# DR Action Items

# DR Advisory Committee

Item	Create a Demand Response Advisory Committee
Implementer(s)	Council
Specific	A major finding of the 7 <sup>th</sup> plan is that the region would benefit from the development of Demand Response. To facilitate this the Council should establish an advisory committee to assist in the identification of strategies to overcome regional barriers to DR implementation and the quantification the DR potential.
Measureable	Recruit advisory committee members and establish a charter
Actionable	This should be implemented by Council staff
Realistic	Staff has experience running advisory committees
Time-bound	The advisory committee needs to be formed before the next update of the DR resource assessment

# PNDRP

Item	Host PNDRP
Implementer(s)	Council
Specific	The Council should continue to coordinate with the Regulatory Assistance Project to host the Pacific Northwest Demand Response Project (PNDRP)
Measureable	PNDRP meetings should be held annually
Actionable	This should be implemented by Council staff
Realistic	Staff has experience running advisory committees
Time-bound	Immediately

# Market Transformation

Item	Demand Response market transformation and cost reduction
Implementer(s)	BPA , NEEA, Utilities, Energy Trust
Specific	Support market transformation efforts to both expand regional potential and reduce the cost of implementing demand response.
Measureable	BPA and utilities should work with the Council to track progress.
Actionable	The Council recommends BPA and utilities design market transformation programs to ensure sufficient supply of DR available to meet system adequacy needs at a low cost
Realistic	The region has previously pursued similar measures for energy efficiency
Time-bound	A systematic approach to market transformation should be well established two years in advance of the next power planning process

# DR Infrastructure - BPA

Item	Expand Demand Response infrastructure
Implementer(s)	BPA
Specific	Create or contract for systems to enable a rapid expansion of DR programs and robust and dependable methods for integrating and dispatching DR in coordination with the FCRPS
Measureable	BPA should report to the Council on current systems and identify any gaps in implementation of this action item
Actionable	The Council recommends BPA adopt this as an agency priority for consistency with the 7 <sup>th</sup> plan
Realistic	BPA has already run both pilot programs and commercial DR programs
Time-bound	Systems should be well established ahead of scheduled coal retirements and maintained as a resource for low-water conditions, high load and/or other conditions of system stress

# DR Contract Barriers - BPA

Item	Create standard contracts that enable BPA customers to supply Demand Response
Implementer(s)	BPA
Specific	Create institutional relationships or contract for third-party aggregation that enable BPA customers to easily and quickly supply DR of any reasonable size, especially under water or load conditions that are likely to stress the regional system
Measureable	BPA should report to the Council on current systems and identify any gaps in implementation of this action item
Actionable	The Council recommends BPA adopt this as an agency priority for consistency with the 7 <sup>th</sup> plan
Realistic	BPA has already established contracts with aggregators
Time-bound	Systems should be well established ahead of scheduled coal retirements and maintained as a resource for low-water conditions, high load and/or other conditions of system stress

# DR Resource Acquisition Rules - BPA

Item	Create a methodological approach for acquiring DR
Implementer(s)	BPA
Specific	Establish a method consistent with the Council's Adequacy Assessment for purchasing additional DR at prices and levels consistent with high load and critical to low water conditions and maintain the size of existing programs unless the adequacy assessment shows long-term capacity surplus
Measureable	BPA should report to the Council when a method is established
Actionable	The Council recommends BPA adopt this as an agency priority for consistency with the 7 <sup>th</sup> plan
Realistic	BPA has established methods for purchasing other resources, in particular energy efficiency
Time-bound	A method should be established ahead of the next Adequacy Assessment



# DR Potential Assessment - BPA

Item	Assess the potential DR supply available to BPA
Implementer(s)	BPA
Specific	Add an assessment of DR potential to the Resource Program and quantify the contribution potential of DR to system needs and the cost and any barriers to obtaining the potential to the extent possible
Measureable	BPA should include the assessment in the next Resource Program
Actionable	The Council recommends BPA adopt this as an agency priority for consistency with the 7 <sup>th</sup> plan
Realistic	Potential assessments have been done for multiple regional IRPs
Time-bound	The next Resource Program after the final 7 <sup>th</sup> plan should include the DR potential

# DR Planning Data - BPA

Item	Create public data for existing DR dispatch
Implementer(s)	BPA
Specific	Create systems to add existing DR dispatch to the publicly available BPA data to assist planners and researchers
Measureable	BPA should report to the Council when systems are in place
Actionable	The Council recommends BPA adopt this as an agency priority for consistency with the 7 <sup>th</sup> plan
Realistic	BPA maintains significant amounts of real-time public data on it's website
Time-bound	Systems should be well established two years in advance of the next power planning process

# DR Infrastructure - Region

Item	Expand regional DR infrastructure
Implementer(s)	Utilities that dispatch resources, utility regulators and States
Specific	Create or contract for systems to enable a rapid expansion of DR programs and robust and dependable methods for integrating and dispatching DR
Measureable	Utilities should include in their IRPs current and future planned DR infrastructure
Actionable	The Council recommends utilities adopt these systems to maintain regional adequacy
Realistic	Utilities have a wide range of experience with DR
Time-bound	Systems should be well established ahead of scheduled coal retirements and maintained as a resource for low-water conditions, high load and/or other conditions of system stress

# DR Planning Data - Region

Item	Integrate DR into IRPs
Implementer(s)	Public Utilities, Investor-Owned Utilities and utility regulators
Specific	Provide information on the historic dispatch of DR, future plans for DR acquisition including the system need DR is anticipated to fill and potential assessment of DR within the utility service territory
Measureable	Utilities should include these data in their IRPs
Actionable	The Council recommends utilities adopt these practices to assist in the regional assessment of DR
Realistic	Many utilities already include some or all of these elements in their IRPs
Time-bound	This recommendation is for any IRPs released after the 7 <sup>th</sup> plan