

## **Public Recommendations for Improving Electric Power Resource Adequacy**

Submitted through June 14, 2022, for the June 17, 2022, Resource Adequacy Meeting

### **Demand Response and Distributed Energy Resources**

1. Make use of bi-directional charging features of new electric vehicles, such as the Ford F150 Lightning.
2. Work with homeowners for coordinated distributed solutions.
3. Provide incentives for heat pumps, electric or induction stoves, and insulation.
4. Provide incentives for installation of solar photovoltaic systems and bi-directional electric vehicle charging.

### **Generating Resources**

1. Maintain cold standby availability of coal-fired resources that are removed from service.
2. Make small nuclear reactor technology a high priority.
3. Slow the deployment of wind and solar.
4. Promote hybrid floating offshore wind projects, with small modular nuclear reactors as backup.
5. Evaluate firm zero-carbon resources with high availability during multi-day extreme or atypical weather events.
6. Prioritize renewable options and infrastructure over carbon capture.

### **Grid Enhancements**

1. Invest in advanced technologies that prevent transmission and distribution lines from failure modes.
2. Encourage energy storage resources including battery storage, pumped hydro and other long duration energy storage technologies.
3. Encourage utilities to consider hybrid resources which pair renewable energy resources with long duration energy storage.
4. Take practical and cost-effective steps to ensure the resilience of the grid in extreme events. This includes proper vegetation management and infrastructure maintenance.
5. Actively track new long duration energy storage technologies which provide >4 hours duration including but not limited to iron-flow, iron-air and pumped hydro storage technologies.

### **Planning Methods and Data**

1. Incorporate climate change in integrated plans.
2. Ensure utilities are using updated methodologies for considering reliance on regional wholesale markets.
3. Use more accurate methodologies to evaluate the capacity value of conventional power sources.

Note: These suggestions were submitted by members of the public at the invitation of the Washington Department of Commerce and the Washington Utilities and Transportation Commission. The agencies are providing these suggestions for discussion purposes only.

4. Revise modeling data and techniques, including climate-adjusted weather and hydro data, chronologically specified operations, and resource accreditation methods.
5. Account for climate impacts, behind the meter resources, transmission limits, and storage in resource adequacy modeling.
6. Commerce and UTC prepare with input from a stakeholder group a detailed analysis of grid reliability using a robust electric grid simulation model.

#### **Public Policy**

1. Roll back the renewable portfolio standards.
2. Simplify permitting for solar installations.
3. Enhance building codes to support electric vehicles and solar photovoltaic systems.
4. Amend CETA and its rules to allow utilities to use unspecified source power contracts without attesting that the source is not coal.
5. As part of performance-based ratemaking, create tracking metrics and performance incentive mechanisms tied to metrics associated with reliability.

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