

POTENTIAL DRAFT ACTION PLAN ITEMS – GENERATING RESOURCES

Models

- Staff to update the **MicroFin revenue requirements model**, used to calculate the levelized cost of energy resources, from its Excel workbook to a current and fully-supported technology platform. In addition, ensure the model is more user-friendly.
- Staff to update the **various resource data sources** (existing/new projects workbook, Regional Portfolio Standard (RPS) workbook, and the GENESYS database) and ensure consistency between them.

Analysis of New Generating Resources

- Monitor and track research and progress on **emerging technologies** with potential in the future Pacific Northwest power system. In particular, battery storage, small modular reactors, off-shore wind, wave/tidal, and enhanced geothermal systems. **Included in the analysis of each, any potential benefit or detriment to the region during low water years.** Track significant milestones in development, cost and technology trends, and successful demo and early commercial projects.
- Research and develop white paper on the value of storage to the future power system, in particular **pumped storage and battery storage**.
 - Convene small subgroup of experts
- Continue to track **solar photovoltaic** costs, potential, and technology trends in the Pacific Northwest

Natural Gas Infrastructure

- Monitor **new natural gas developments** in the region and gauge the potential impacts on the regional power system such as
 - Potential pipeline constraints and possible Westside limitations
 - LNG facility developments
 - Production from British Columbia, Alberta, and the US Rockies
 - Methanol plant development

Environmental Regulations and Compliance

- Monitor and track current and proposed federal and state regulations regarding the impacts of generating resources on the environment in the Pacific Northwest and subsequent impacts to the regional power system.



1. PNW EIM/SCED – reserve sharing schemes (also, CAISO EIM governance changes on the way)
2. Micro-Grid (and extension of the solar/battery theme)
3. Transmission build/no build
4. California initiatives - Hydrogen production/electrolysis of renewable over generation – Desalination too.

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