

# Hydro Power Supply Curves

Information Gathering Session  
Gillian Charles & Ken Dragoon  
March 27, 2012, 1-4pm



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## Agenda

- Introductions
- Purpose
- Background
- Current Activities
- Determine Scope
- Next Steps



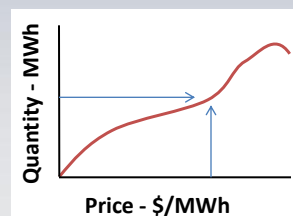
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## Sixth Power Plan – Action Plan

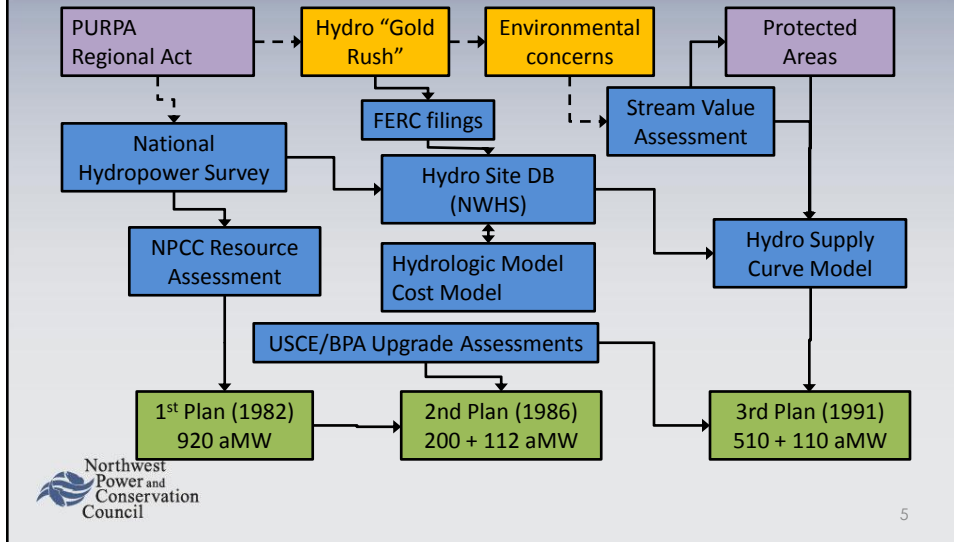
- **GEN-2.** Facilitate development of smaller-scale, cost-effective, low carbon resources.
  - Survey resource development potential
- **GEN-11.** Resource Assessment – periodically assess the availability, cost, and performance of generating resources and associated technologies.
  - Hydropower upgrades, new hydropower projects

## Purpose

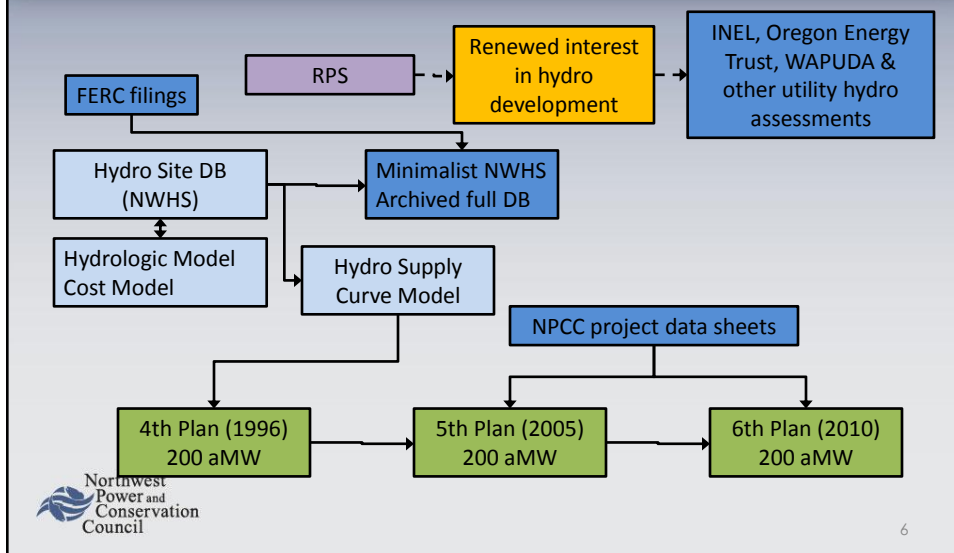
- Develop a **hydro supply curve** to determine the hydropower development potential in the NW region
  - Council's Seventh Power Plan
  - Supply curves estimate the price and quantity of available resources
  - Determine cost-effectiveness



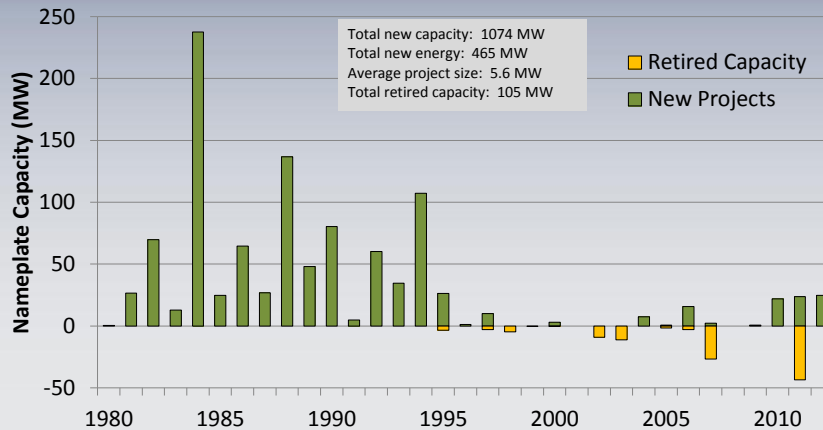
## Hydro Assessment: 1980's



## Hydro Assessment: 1990's - Present



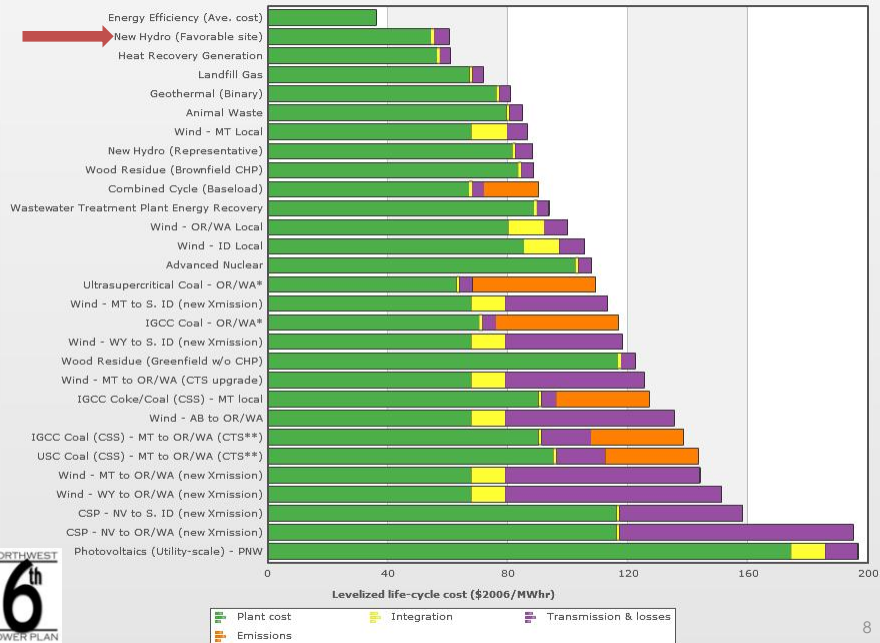
# PNW Hydro Development Activity



Northwest  
Power and  
Conservation  
Council

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## Estimated cost of new resource options (ca. 2025)



NORTHWEST  
6<sup>th</sup>  
POWER PLAN

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## Current Activities

- Bonneville Power Administration
  - NW Hydro Supply Database
- Energy Trust of Oregon, WAPUDA, Snohomish PUD
- NW Hydro Association
- Hydro Developers
- National Labs – Hydro potential studies
- Others?



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## Determining Scope

- **Scope**
  - New hydropower, existing efficiency upgrades, powering irrigation dams and diversions, hydrokinetics, wave power, etc. ?
- **Parameters**
  - Timeline – 12-18 months?
  - Budget
- **Methodology and Final Product**



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# Next Steps