What Was in Sixth Plan?

- Doubled potential compared with Fifth Plan
- 63 Measures applied to 19 PNW Industries
- Nearly 800 aMW potential
- Most less than $50/MWh
- A top-down methodology
  - End use shares of electric load
  - Percent savings by measure by end use
  - Fraction incomplete
  - Measure interactions
Key Measure & Practices

- Air Compressor Demand Reduction
- Air Compressor Equipment
- Air Compressor Management
- HighBay Lighting
- Lighting Controls
- Motors: Efficient Rewind VSD Controls
- Motor Management Program
- Fan Efficient Centrifugal
- Food: Fans and Blowers
- Other: Fans and Blowers
- Fan ASD Control
- Premium Pump
- Pump ASD Control
- Transformers
- Synchronous Belts
- Food: Cooling and Storage
- Food: Refrigeration O&M
- Metal: New Arc Furnace
- Paper: Medium Consistency Pump
- Mech Pulp: Refiner Replacement
- Mech Pulp: Premium Process
- Mech Pulp: Refiner Plate Improvement
- Kraft Pulp: Effluent Treatment System
- Kraft Pulp: Efficient Agitator
- Paper: Efficient Pulp Screen
- Paper: Premium Fan
- Paper: Material Handling
- Wood: Replace Pneumatic Conveyor
- Wood: Hydraulic Press
- Cold Storage Retrofit
- Cold Storage Tuneup
- Fruit Storage Refer Retrofit
- CS Retrofit -- CO2 Scrub
- CS Retrofit -- Membrane
- Fruit Storage Tuneup
- Groc Dist Retrofit & Tuneup
- Generic O&M

6P Savings Potential by Measure
Seventh Plan Approach

- Use 6th Plan analysis structure, update parameters
  - Load forecast, by industry
  - End use shares, by industry
    - NEEA - Industrial Facilities Site Assessment (IFSA)
    - DOE – Manufacturing Energy Consumption Survey (MECS)
  - Saturation, by measure or end use measure group
    - Increase measure presence to reflect 2010-2015 achievements
    - BPA - 6 Going on 7 for 2010-2015 achievements, extrapolated for 2014 and 2015
  - Measure costs
    - Some BPA projects
    - Industrial Applications Center (IAC) database
  - Specific review of Compressed Air measures
  - Specific review of Energy Management measures
  - Remove Transformers – new Federal Standard addresses most potential, additional standards to come in 2022
  - If time permits
    - Add HVAC measures
    - Break out stone/clay/glass as new sub-industry

Industrial Forecast
Accounting for 2010-2015 Achievements

**Analysis Steps**

- Remaining Potential at Existing Facilities
- Potential from Load Growth in 7th Plan
  - 6th Plan approach, but with adjusted Saturations
  - Use 2035 load

![Graph showing potential achievements from 2010-2015]
Accounting for 2010-2015 Achievements

Excludes potential from load growth forecasted in 7th Plan

Next Steps

- Finish cost updates
- Some measure savings updates
- Add new measures as time allows
- Incorporate review comments
- Build supply curves