Current Response to the Northwest Power Act of 1980

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Facts about the Northwest

- About 4% of the overall US population
- Expended about 9% of total US expenditures on Energy Efficiency per year
- NW Generating Capacity is about 60,000 MW 58% of which is Hydro
- Export on average 3200MW to California per month.
- Through 2008 regional EE savings were just shy of 4,000 average megawatts.
  - (aMW = 1MW running 8760 hours)
  - Enough to power all of the state of Idaho and Western Montana all year.
The Northwest Power Act of 1980

The Act:

- Regional Resource Development is a collaborative effort (MT, ID, OR, and WA)
- Declared Energy efficiency equivalent as a resource and highest priority. Created a loading order, 23 years before California.
- Most recent 20 year 6th Power Plan identified that 85% of all new demand could be met by new conservation measures.
Regional Energy Efficiency Savings

- Since 1980, half of the growth in demand for electricity in the Northwest has been met with energy efficiency.
- Conservation savings
  - Offset 8-10 new coal- or gas-fired generating plants.
  - 15 million tons less carbon-dioxide in 2008 alone.
- Average cost of savings
  - less than 2¢ kW/h,
  - less than the 3¢ kW/h the Bonneville Power Administration currently charges its electric-utility customers.
- Energy efficiency costs about 20 percent as much as wind power, which currently costs 8 to 12 cents per kilowatt-hour.
Exceeding Regional Targets
Northwest Energy Efficiency Alliance

- A voluntary Regional Energy Efficiency partnership with all 130+ NW utilities
- Conducts market transformation program work
- Of the 5,500 aMW of EE savings identified by the Power Councils 6th power plan, NEEA helps to support 3,300 aMW.
  - Of these 2,275 are lost opportunity megawatts that are supported by NEEA's work.
- 10% of total regional EE program dollars spent on NEEA returns about 17% of the total regional savings.
- Net levelized cost of 1.7¢ per kW/h