



Demand Response in the Pacific Northwest

Ken Corum, NW Power and Conservation
Council

FERC Technical Conference on DR and
Advanced Metering

January 25, 2006

Background for PNW

- Historically, hydropower system made meeting peak load “easy”
- Outgrowing our hydropower system
- Large TX links, especially w/ California
- Modest steps toward retail access
- No ISO
- Somewhat surplus at the moment

PNW Experience w/ DR

- During 2000-2001, bought out ~2000 MW for months (not hours)
- Several utilities have used “demand exchange” programs
- Several utilities have direct control programs for WH, AC, IRR
- Pilot projects for TOU rates
- Support for Grid Wise RD&D
- Total DR >200 MW

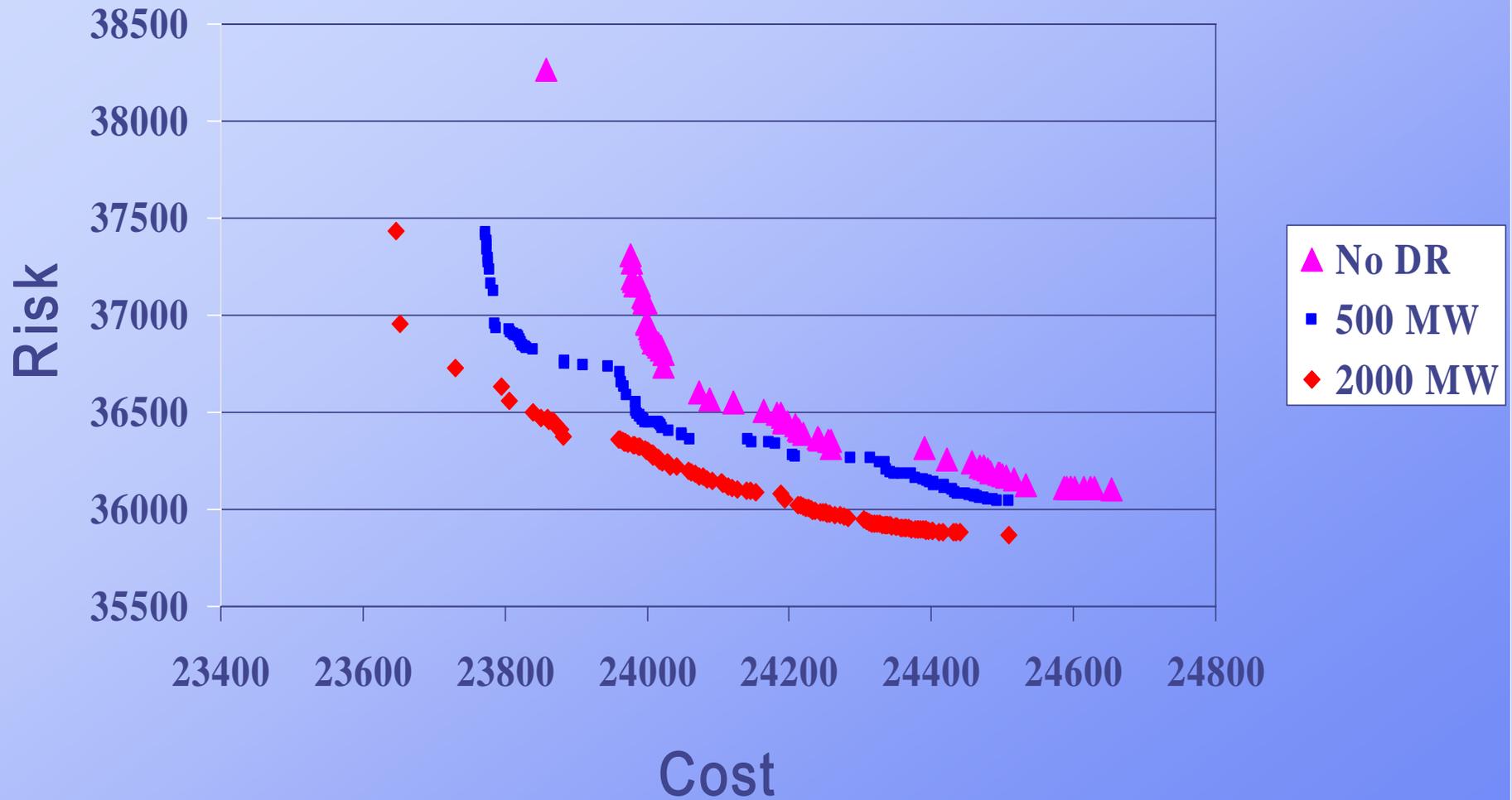
DR and Transmission

- BPA exploring DR as alternative to TX investments
- Very site-specific
- Issues of pooling benefits to generation, TX and distribution
- Some attractive applications

Council's Planning Considers DR's Effect on Risk

- Modeled as “superpeaker” w/ low fixed cost, short lead time over 20 yr horizon
- Availability of DR lowers expected cost and risk

No DR vs. 500 MW vs. 2000 MW



Issues

- What works?
- Optimal development of capability in advance of need?
- How to measure cost effectiveness?
- How to deal with “non-firm” DR for planning?
- www.nwccouncil.org/energy/Default.htm