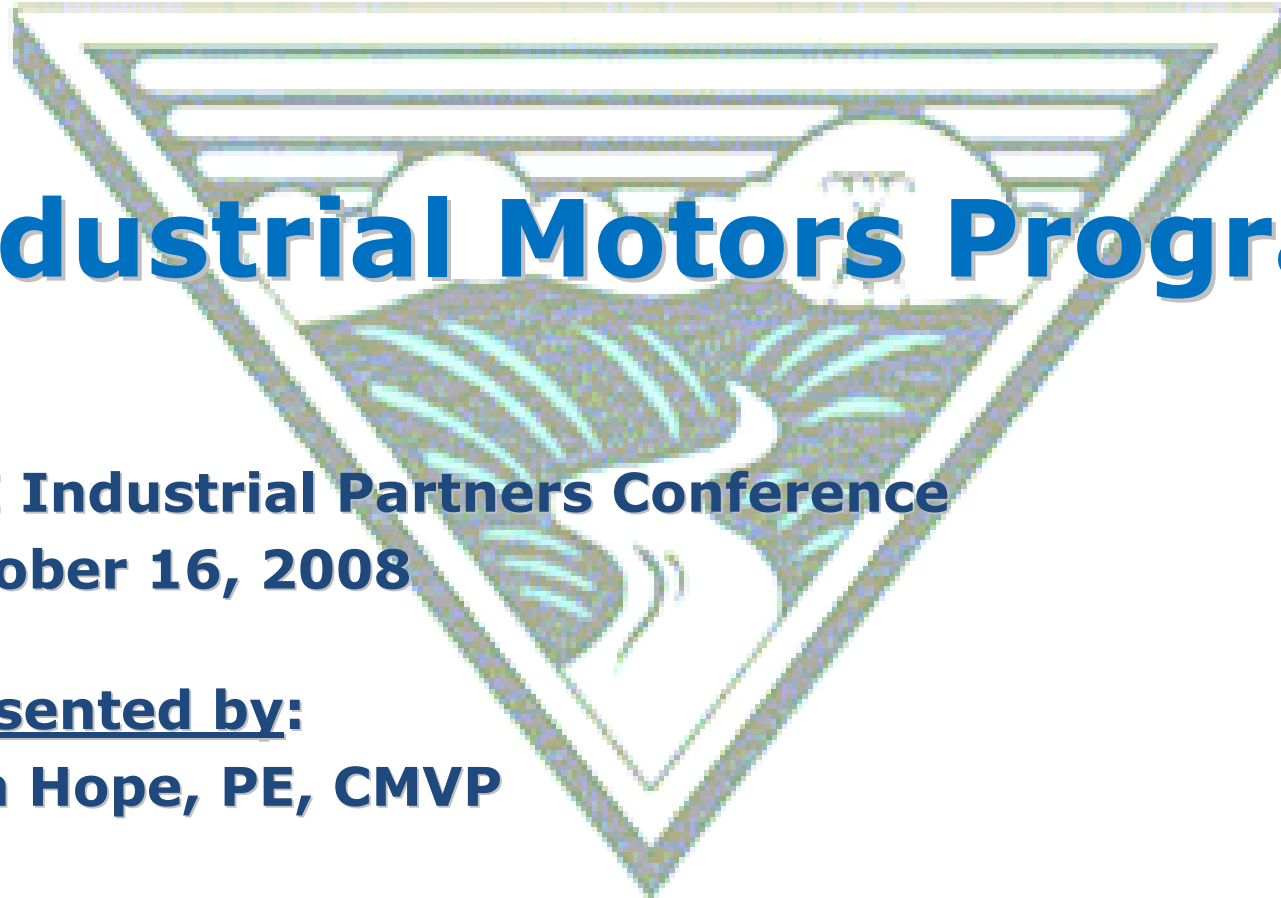


**B O N N E V I L L E**  
**P O W E R A D M I N I S T R A T I O N**

# **Industrial Motors Program**

**CEE Industrial Partners Conference**  
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## Who is Bonneville Power Administration?

- Federal Power Marketing Agency – Department of Energy (i.e., WAPA)
- Been around since 1937 – 71 years young
- Markets and transmits power from the Federal Columbia River Power System (FCRPS).
- 31 Federal hydro project dams, one non-federal nuclear plant and several small non-federal power plants (includes wind)
- Approximately 8,000 aMW of energy generated annually
- Self-financed ~\$3.5 billion/year; pays US Treasury \$1 billion/year.



## Who is Bonneville Power Administration?

- Owns, operates and maintains over 15,000 circuit miles of high voltage transmission lines (represents ~80 percent of PNW's capacity).
- Sells power at cost - \$0.03/kWh.
- Supplies over 40 percent of the electricity in the PNW:
  - Serves 140 utility customers (PUDs, Municipals, REA Coops, DSIs, etc.)
  - Energy Efficiency programs work with utility customers, does not work directly with end-users.



## Program Background

- Since 1981, BPA's energy conservation programs have added over 900 aMW to its long-term power supply
- Enough electricity to serve the City of Seattle
- BPA's Current Energy Efficiency targets ~60 aMW/year
- Annual cost of Energy Efficiency savings is ~ \$70 million.



## BPA Green Motor Initiative

- For motors 15 Hp to 500 Hp
- Incentive is \$2 per Hp
  - \$1/Hp to the motor service center and \$1/Hp instant credit on the invoice to the end user
- For 2009, the Target is 0.5 aMW savings (4.7M kWh)
- 56 Northwest Motor Service Centers target for certification by October 1, 2009
- 21 Service Centers certified to date



## BPA Green Motors Initiative Phase 2

- Add incentives for induction motors up to 1000Hp
- Offer incentives to replace motors that have core damage but are typically rewound anyways
  - Currently collecting data from participating motor service centers to determine potential savings and determine if cost effective



## BPA Green Motors in the Future

- Collect data on older motor's efficiency
- Determine potential energy savings by replacing older motors *that qualify as a Green Motor* instead of rewinding
- If cost effective, offer incentive to remove older, less efficient motors from service



**That's It ...**

**Thank You!**