



# Pumping Systems

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# Session Agenda

- ▼ Introduction: Why pumps, and why now?
  - Spectrum of member approaches
- ▼ Two program approaches to pump system savings:
  - Southern California Edison, Gary Suzuki & Bill O'Neill
  - BC Hydro, Angela Melick
- ▼ Discussion: Is there a role for CEE to assist members in accessing pump system savings?

# Objectives

- ▶ Learn from member programs
  - Can we match approaches/tools to particular markets?
  - What tools & resources are available, worthwhile?
  - What challenges/needs do programs face?
- ▶ Identify possible role for CEE to serve member interests in pumping systems

# Why Pumps? Why Now?

## ▶ Energy Savings

- Pumping systems offer significant energy savings in industrial, commercial, agriculture and water-wastewater applications

## ▶ Strategic Opportunity

- Pump industry is showing renewed interest in engaging w/programs
- Can members identify a particular ask to industry, to improve program effectiveness

# Spectrum of Member Approaches

- ▶ 20+ CEE members have calculated offerings for pumping system applications
  - Prescriptive incentives for ASDs – on particular applications, or no qualifications
  - Savings projections may consider
    - Pump only (maintenance, return to BEP)
    - Pump & system
    - Project savings from ASD
  - Outreach & project identification varies

# Dedicated Programs

- ▶ Several members focus program efforts on pumping systems :
  - Southern CA Edison – Pump test program
    - Conduct tests, training courses & incentives
  - BC Hydro – PowerSmart Industrial Pumps
    - Outreach, study funding, incentives
  - Focus on Energy – Pulp & Paper market sector

# Available Tools & Resources

- ▼ Dept. of Energy Resources
  - Pump System Assessment Tool (PSAT)
  - Qualified specialists
  - Training materials
  - Tip sheets
- ▼ Pump Systems Matter
  - Training materials
  - Assessment guide
- ▼ ANSI/HI Standards

# Member Presentations

- ▶ Gary Suzuki & Bill O'Neill, Southern California Edison
- ▶ Angela Melick, BC Hydro



# Can We Target Success?

- ▶ Is there opportunity to improve program access to savings by targeting particular systems?
- ▶ What does a high-value pump system project look like? A low-value project?
  - System characteristics
  - Facility/market sector
  - Customer
- ▶ Could this be a role for industry?

# Challenges & Innovations

- ▼ What challenges have programs encountered?
  - Outreach & project identification (participation)
  - High transaction costs
  - Setting appropriate baselines
- ▼ Members taking innovative approaches?
  - Energy management systems
  - Prescriptive opportunities

# Role for CEE?

- ▶ Is there a role for CEE improving members' to access pumping system savings?
  - Availability of outside resources (DOE, PSM)
  - Develop/promote standard outreach materials
  - Program guidance