

Panel Discussion:
**Designing Pump and Fan
Programs to Capture
Motor System Savings**

**MT Symposium, Working Session I
March 25, 2002
Washington, D.C.**

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Why Motor Systems?

Motor System Energy Consumption:

Big opportunity (industrial sector)

- 679 billion kWh, 23% of all electricity sold
- 25% Pumps, 14% Fans, 15% Compressed Air

Large potential savings (industrial sector)

- 11-18 percent with proven technology
- Individual projects show larger savings potential ranging from 30-50 percent.
- 33% Pumps, 5% Fans, 18% Compressed Air

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Why Motor Systems?

Motor System Energy Consumption:

Big opportunity (water pumping)

- 220 billion kWh, 7.5% of all electricity sold
- 46% Pumps, 7% Fans, 40% Compressed Air

Large potential savings (water pumping)

- 22 percent with proven technology
- 42% Pumps, 2% Fans, and 30% Compressed Air

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Motor System Savings

Program Approaches:

1) Motor Efficiency Upgrades - 30%

- Premium Efficiency Motor Programs
- CEE/NEMA Premium

2) System Efficiency Measures - 70%

- Customized Technical Assistance
- Innovative Program Approaches
- Motor Challenge/Compressed Air Challenge
- CEE Motor Systems Initiative

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Session Objective and Format

- **Identify Opportunities to Optimize Motor Systems Through Coordinated Action**
- **Format**
 - Opening Presentations (2)
 - Panel Discussion (3)
 - Discussion
 - Key Issues/Next Steps

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Introductions

Facilitator: Ted Jones, CEE

Presenters: Chris Cockrill, DOE's Office of
Industrial Technologies
Neal Elliott, ACEEE

Discussants: Robert Asdal, Hydraulic Institute
Laurie Kokkinides, NYSERDA
Scott Rouse, Ontario Power
Generation

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