



An Energy-Efficiency Workshop & Exposition
Palm Springs, California

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Set pagers to vibrate
Take conversations outside**



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Palm Springs, California

***The Role of New Technologies:
The FEMP New Technology
Demonstration Program***

Presented by:

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Pacific Northwest National Laboratory

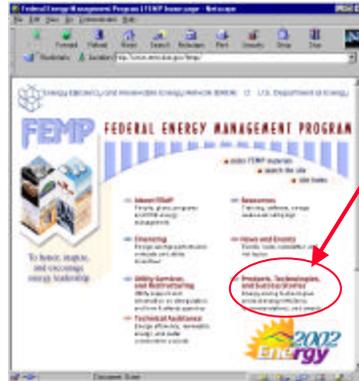
2002 National President, Association of Energy Engineers

Editor-in-Chief, Cogeneration and Competitive Power Journal



First things first

- Most NTDP publications are available through the FEMP web site:
- Federal energy and facility managers, tell us what you need to see evaluated. Submit requests through the FEMP web site.



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Overview

- Program objectives
- Description of publications
- Technologies evaluated and available
- Technologies being evaluated
- Things you need to know
- What's next

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Program objectives

- Reduce federal-sector energy and water costs and improve overall energy efficiency
- Introduce new energy-efficient technologies to the federal sector
 - Increase deployment rates
 - Increase market penetration
 - Help federal agencies understand how to effectively use new technologies

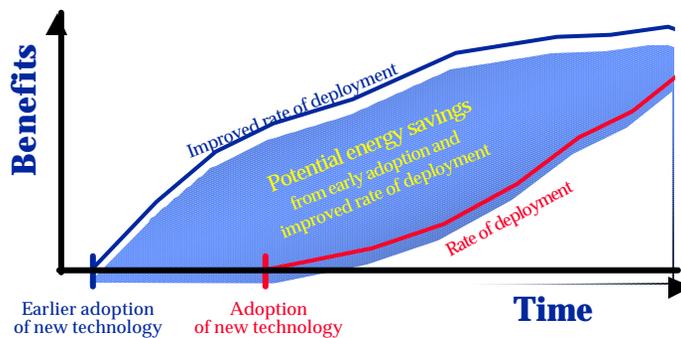
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New technology deployment



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Publications

- Demonstration reports
- Federal Technology Alerts
- Technology Installation Reviews
- Technology Focuses
- Technology guideline reports
- Other publications



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What's available

- Variable-speed drives using magnetic coupling (demo)
- CFL torchieres (guide)
- Low-energy building design (guide)
- Polarized lighting (demo)
- Gravity-film heat exchanger (TF)
- Ground-source heat pumps-update (FTA)
- Thermal-energy storage for space cooling (FTA)
- Combined heat and power for buildings (TF)
- Dual-source heat pumps (TIR)
- Integrated systems (FTA)
- High-efficiency clothes washers (TIR)
- 3000-hp boiler (TIR)
- Steam trap performance assessment (FTA)

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What's coming

- Micro turbines
- Micro turbine CHP
- Flywheel UPS systems
- Energy control systems
- Lighting controls
- Lighting equipment
- Chiller controls
- Task ambient cooling
- Cool roof technology
- Efficient windows
- Packaged AC control
- Green roofs
- CO₂ air sensors
- Water conservation
- Reverse osmosis
- Irrigation controllers
- Alt-fueled vehicles
- Biomass diesel
- Skylight thermal impact
- Video communications

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Where to get information

- FEMP web site
<www.eren.doe.gov/femp/prodtech/newtechdemo.html>
- DOE Clearinghouse
1-800-363-3732
(international callers please use 703-287-8391)
- Get on our mailing list
<www.eren.doe.gov/femp/prodtech/ntdp_mlform.html>

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Caveat Emptor

- As with all things new, there are risks
- Publications are summaries, for informational purposes only, they are not endorsements
- Not a substitute for sound engineering or due diligence
- Only demonstrations based on measured and verified findings
- Subject to change, watch the publication date
- Watch for misrepresentation!

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Listening to federal agencies

- Federal energy and facility managers:
Tell us what new technologies you need to see evaluated
 - Submit technology ideas through the FEMP web site
<www.eren.doe.gov/femp/prodtech/ntdp_tsform.html>
 - Interlaboratory Council selects projects from this list
- Federal agencies may access the National Laboratories through DOE on a cost-reimbursable basis

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Remember what's important

- Operations
- Maintenance
- Controls
- High-efficiency equipment
- New technology

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What you can do for us

- Get on our distribution mailing list for new publications
 - See the FEMP web site
 - [<www.eren.doe.gov/femp/prodtech/ntdp_mlform.html>](http://www.eren.doe.gov/femp/prodtech/ntdp_mlform.html)
- If you like what we do, **please**
 - Tell FEMP
 - Send a message to Ted Collins and Beth Shearer
- If you don't like something we do
 - Tell me
 - Send a message to steven.parker@pnl.gov

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Thank you

Any questions?