

# CHP as a Boiler Replacement Opportunity

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Program

**Susan Wickwire**, Manager, US EPA CHP Partnership: Introduction

**Jay Weist** P.E., Business Development Director, Worley Parsons: Evaluating CHP as a Boiler Replacement Option

**Paul Moser**, Superintendent of Steam Services, Penn State University; and **Laura Miller**, PhD, P.E., Senior Energy Engineer, Penn State University: Penn State's experience replacing an aging boiler with a CHP system

**Questions** (Moderated by **Bob Sidner**, Eastern Research Group, Inc.)

# CHP Partnership

- The EPA CHP Partnership (CHPP) is a **voluntary program** that seeks to reduce the environmental impact of power generation by promoting the use of **highly efficient CHP**.
- Through 2012, **the CHPP and its over 450 Partners** put into operation 770 CHP projects representing more than 5,700 MW of capacity.
- The CHPP offers **tools and resources** to assist with CHP project development and overcoming regulatory and other barriers.
- June webinar: Commercial Property-Assessed Clean Energy (PACE) and CHP – Date TBA

# CHP as a Boiler Replacement Opportunity

- CHPP new fact sheet – illustrates potential economic, operational, and environmental benefits of replacing a boiler system with a CHP system.
  - Context - nearly one-half of U.S. boiler population with capacity greater than 10 MMBtu/hr is at least 40 years old and facility owners facing a number of issues (e.g., increased maintenance costs, new regulations, new steam demands)
  - Presents analysis that compares natural gas CHP system to natural gas boilers.  
([http://www.epa.gov/chp/documents/boiler\\_opportunity.pdf](http://www.epa.gov/chp/documents/boiler_opportunity.pdf))
- Analysis demonstrates that for many facilities, CHP is a proven, financially attractive option
- Speakers will provide real world examples