

# Biomass CHP Systems Short Course

Penn State Bioenergy Short Course Series 2010

Using Wood and Perennial Grasses for Renewable, Reliable Heat and Power

Four Points Sheraton

Greensburg, PA

17-18 November, 2010



## OVERVIEW:

One of the major opportunities for industrial and commercial building designers is to create facilities that are both economically and ecologically viable. Biomass based Combined Heat and Power systems promise to be a significant component of future green building efforts, providing thermal and electrical needs from locally-produced, renewable fuel. Several new and ongoing projects in the region are successfully using biomass CHP to supply their needs, and there is scope for strong growth in this sector in the coming years.

Join us for this outstanding 1.5-day event featuring expert presentations, discussion and networking opportunities. The meeting will also feature a tour of the Greensburg Thermal plant, an innovative CHP facility that is spearheading a conversion from coal to biomass for its fuel feedstock. For further information, visit the event website at

<http://www.bioenergy.psu.edu/shortcourses.asp>

## WHO SHOULD ATTEND:

This technical workshop is intended for design engineers, architects, and project developers interested in developing an understanding of biomass CHP systems and the role they can play in future projects. Continuing Professional Development credit is available for professional engineers.

## SPEAKERS:

We are pleased to have some of the nation's top experts in Biomass Combined Heat and Power for the event. This is an outstanding opportunity to interact with leaders in the field and gain real understanding about this important and fast-developing field. Speakers include:

Gearoid Foley, Integrated CHP Systems Corp.  
Richard Sweetser, Exergy Partners  
Ed Johnstonbaugh, Penn State  
Chuck Ray, Penn State  
Dan Arnett, Ernst Biomass  
Steven Feldbauer - Abbot Boiler  
Jay Clark - AFS Energy

Jointly sponsored by Penn State Biomass Energy Center, US DOE Mid Atlantic Clean Energy Application Center, Catalyst Connection Economic Development.

## PROGRAM TOPICS:

- CHP Fundamentals and History
- Owner and Societal Benefits of CHP
- Biomass Availability and Sustainability
- De-mystifying wood as a biomass fuel
- Grasses as a biomass fuel for CHP
- CHP Technologies and Applications
- CHP Qualifiers and Considerations
- CHP Economics in Pennsylvania
- Renewable Energy Credits and CHP in
- Combustion Units for Biomass CHP
- Steam Turbine Systems for CHP
- Fuel Storage and Handling
- How to Investigate Your CHP Potential
- Energy and Policy Trends

## REGISTRATION:

Register online at

<http://www.bioenergy.psu.edu/shortcourses.asp>

Due to significant sponsorship by the US Department of Energy Clean Energy Application Center, early registration is only \$95. After Oct 29<sup>th</sup>, the price jumps to \$130. Registrations close November 12<sup>th</sup>. Registration includes lunches on both days and a reception at the close of day 1

For further information contact

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