

Energy Savings Opportunities for Indiana WWTFs: Energy Efficiency and CHP



Energy Efficiency and Cost Control Measures, Digester Gas Applications, and Combined Heat and Power for Wastewater Treatment Facilities

Monday, May 19, 2008

Government Center South

402 W. Washington Street – Conf. Room B

Indianapolis, Indiana 46204

Wednesday, May 21, 2008

RV / MH Hall of Fame

21565 Executive Parkway

Elkhart, Indiana 46514

The **Indiana Office of Energy & Defense Development** along with its co-sponsors invites you to attend a one day workshop at two locations aimed at informing and educating Indiana's wastewater treatment facility managers and operators on:

- Growing Energy Issues and Problems Facing the Indiana WWTF Industry
- How to Identify and Improve the Energy Efficiency in Your WWTF
- Integrating Combined Heat & Power (CHP) Technologies with Anaerobic Digesters
- Digester Gas Cleanup Cautions and Strategies
- The Role of the Electric Utility in Designing and Implementing a CHP Project
- The Economic, Environmental, and Financial Aspects of Digester Gas / CHP Projects
- Case Studies of Existing Installations
- How to Obtain Further Assistance in Evaluating These Technologies for Your WWTF

Who Should Attend?

Wastewater treatment facility managers, operators, and engineers, as well as anyone involved in the design, financing, operation, or regulatory oversight of these type of facilities.

What is the Cost?

- Register before May 5th, the cost is "FREE" thanks to the co-sponsors.
- The **late registration fee has also been waived** thanks to the co-sponsors.

How do I register? (See Page 3)

1. By Phone... Call (312) 355-3476
2. By Fax... (312) 996-5620 – Attn: Cliff H.
3. By Email... chaefk1@uic.edu
4. By Web Site... http://www.chpcentermw.org/01-07_wwt1_registration.html

Workshop Co-Sponsors

- U.S. Department of Energy
- Indiana Office of Energy & Defense Development
- Indiana Water Environment Association
- Indiana Industrial Operators Association
- Alliance of Indiana Rural Water
- Blue Moon Fund
- Midwest CHP Application Center

Note, approval of IDEM Continuing Education Credits is pending at this time. Information on the number of CECs awarded for attending the workshop(s) will be posted on the Midwest CHP Application Center web site at a future date.



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Indianapolis, IN – May 19, 2008

Elkhart, IN – May 21, 2008

Agenda – Indianapolis, Indiana

7:30 AM	Registration & Continental Breakfast	
8:00 AM	Welcome	Chris Dorman, Indiana Office of Energy & Defense Development
8:10 AM	Keynote Speaker	Brandon Seitz, Deputy Chief of Staff for Lt. Governor Skillman
8:30 AM	Identifying Energy Efficiency and Performance Contracting Opportunities in WWTFs	Bob Scott, Johnson Controls
9:00 AM	Energy Efficiency / Conservation Case Studies in WWTFs	Doug Tischbein, Energy Systems Group
9:30 AM	Break	
9:45 AM	CHP: A Concept for WWTFs	Cliff Haefke, Midwest CHP Application Center
10:15 AM	Digester Gas Cleanup & Treatment	Jan Scott, Unison Solutions
10:45 AM	Working with the Local Utilities	Michael Dvorak, Indianapolis Power & Light
11:15 AM	CHP Case Studies in WWTFs	
	- Integrating Landfill Gas and Biogas from a WWTF in a CHP System	Dean Karafa, Middough, Inc.
11:45 AM	Lunch (provided)	
1:00 PM	CHP Case Studies in WWTFs (continued)	
	- Rochester (Minnesota) Water Reclamation District	Chet Welle, Rochester Water Reclamation District Paul Hanson, Integrated Technology Engineering, Inc.
	- West Lafayette FOG (Fats, Oils, & Greases) and CHP Project	Adam Downey, MD Wessler & Associates
	- KBCSI CHP Project in Akron, Ohio	Dennis Totzke, Applied Technologies
2:30 PM	Break	
2:45 PM	Carbon Credits & Trading Program	Todd Parker, Delta Institute (Aggregator for the Chicago Climate Exchange)
3:15 PM	Permitting Air Quality Issues	Don Robin, Indiana Department of Environmental Management
3:45 PM	Financing Options and Next Steps	Paul Cummings, Indiana Office of Energy & Defense Development
4:15 PM	Adjourn	



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9:30 AM	Break	
9:45 AM	CHP: A Concept for WWTFs	Cliff Haefke, Midwest CHP Application Center
10:15 AM	Digester Gas Cleanup & Treatment	Jan Scott, Unison Solutions
10:45 AM	Working with the Local Utilities (Part I)	Stewart Bayer, NIPSCO
11:15 AM	Working with the Local Utilities (Part II)	David Kline, Indiana Michigan Power
11:45 AM	Lunch (provided)	
1:00 PM	CHP Case Studies in WWTFs	
	- Rochester (Minnesota) Water Reclamation District	Chet Welle, Rochester Water Reclamation District Paul Hanson, Integrated Technology Engineering, Inc.
	- West Lafayette FOG (Fats, Oils, & Greases) and CHP Project	Adam Downey, MD Wessler & Associates
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Registration

Complete registration form and either fax or email completed form to (312) 996-5620, attention Cliff Haefke or chaefk1@uic.edu. You may also register at http://www.chpcentermw.org/01-07_wwt1_registration.html. If you have any questions on either of the workshops, please contact Cliff at (312) 355-3476, or chaefk1@uic.edu. We look forward to seeing you at the conference.

Location: _____ Indianapolis, IN _____ Elkhart, IN _____
(circle workshop you will be attending) (May 19th) (May 21st)

Name: _____
Title: _____
Organization: _____
Street Address #1: _____
Street Address #2: _____
City/State: _____
Zip Code: _____
Business Phone: _____
Email Address: _____

Directions and Hotels:

May 19 – Indiana Government Center South

- The Indiana Government Center South is located at 402 W. Washington St, Indianapolis, Indiana, 46204.
- For driving directions and parking please go to http://www.chpcentermw.org/01-07_wwt1_registration.html
- For discounted hotel rates, contact the Indianapolis Marriott Downtown at (877) 640-7666 or The Westin Indianapolis at (317) 262-8100 by April 20th and mention the group name **“WWTF Energy Savings.”**

May 21 – RV / MH Hall of Fame

- The RV / MH Hall of Fame is located at 21565 Executive Parkway, Elkhart, Indiana, 46514.
- For driving directions please go to <http://www.rvmhhalloffame.org/location.cfm>
- For discounted hotel rates, contact the Best Western Inn & Suites at (574) 262-8761 or the Holiday Inn Express at (574) 262-0014 by April 20th and mention the group name **“WWTF Energy Savings.”**

