



# CHP in the Ethanol Industry

April 1st, 2004

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# Overview

- What is the EPA CHP Partnership
- Why does EPA promote CHP?
- How can EPA Help?
- Where do we go from here?

# EPA's CHP Partnership

- Voluntary public-private partnership to help get CHP projects installed
- Launched in 2001
  - 127 partners today
  - 851 MW in operational CHP projects assisted
- Partners are Governments, Institutions, Industry, NGO's, Regional CHP Initiatives
- Key agencies: DOE, FEMP, HUD

# What does the CHPP Do?

- Work closely with states to promote the environmental, economic, and energy benefits of CHP
- Work closely with DOE and the regional applications centers
- Conduct targeted market development
- Help Partners implement CHP projects
- Recognize CHP Projects and partners
  - Energy Star CHP awards

# Why Combined Heat and Power?

- Reduces emissions
- Saves money
- Improves power infrastructure
- Benefits the consumer, the State, and the environment

# Why isn't CHP common in the Ethanol Industry?

- Unfamiliarity with technologies
- Concern about natural gas prices
- Not normally offered by energy suppliers
- Lack of capital
- Utility practices
- Other pressing priorities

# How are EPA and DOE Helping this Industry?

- Evaluated economic and energy benefits of CHP at ethanol plants
- Potential to burn VOCs in CHP system
- Developed educational materials
- Holding workshops for ethanol industry
- Visiting and networking with plants, developers, and states
  - Communicating with about 6 ethanol plants

# How can we help you?

- Educational resources
  - Technologies, business opportunities
- Feasibility assessments
- Network with partners, consultants, developers, permit writers
- Identify funding opportunities
- Offer sales collateral
- Recognize your CHP projects



# EPA CHP Partnership Assistance to End-User Partners

The mission of the CHP Partnership is to assist in the deployment of environmentally beneficial CHP projects nationwide. The following services may be available to CHP End-user Partners to assist with CHP project development:

STAGE IN PROJECT DEVELOPMENT		INFORMATION GATHERING	PROJECT DEVELOPMENT	REVIEWING PROPOSALS	IN ENGINEERING	UNDER CONSTRUCTION	OPERATIONAL
<b>Milestone to Advance</b>	Education about CHP applications and technologies	Qualified: end-user interest and site CHP applicability	Feasible/proposed	Contract signed	Approved construction documents	System start-up and commissioning	M&V
<b>EPA CHPP Assistance Available</b>	<ul style="list-style-type: none"> <li>• Website reference materials</li> <li>• Niche market CHP seminars</li> <li>• Conferences</li> <li>• Presentations</li> </ul>	<ul style="list-style-type: none"> <li>• Funding database</li> <li>• Provide referrals to industry Partners through website and direct assistance</li> <li>• Provide direct assistance to end-users, answer questions about CHP</li> </ul>	<ul style="list-style-type: none"> <li>• Provide feasibility studies to targeted end-users</li> <li>• Provide web and phone referrals to CHP team (e.g., engineering, project development, equipment, construction, finance)</li> </ul>	<ul style="list-style-type: none"> <li>• Provide EPA CHPP staff member or letter to affirm environmental benefit of CHP to end-user decision-maker or local regulators</li> </ul>	<ul style="list-style-type: none"> <li>• Provide information/referrals regarding permitting or regulations</li> </ul>	<ul style="list-style-type: none"> <li>• Provide information/referrals regarding permitting or regulations</li> </ul>	<ul style="list-style-type: none"> <li>• Energy Star CHP Award</li> <li>• CHPP Certificates</li> <li>• Support for ribbon-cutting ceremonies</li> </ul>

Please call your EPA CHP team liaison or contact us at [CHPTeam@epa.gov](mailto:CHPTeam@epa.gov) to inquire about assistance for your project.

# EPA CHP Partnership Assistance and Services to Industry Partners

The mission of the CHP Partnership is to assist in the deployment of environmentally beneficial CHP projects nationwide. The following services may be available to CHP Industry Partners to assist with CHP project development:

STAGE IN SALES CYCLE		SUSPECT	PROSPECT	LOI/ PROPOSED	IN ENGINEERING	UNDER CONSTRUCTION	OPERATIONAL
<b>Milestone to Advance</b>	First contact	Qualified	Feasibility completed	Contract signed	Prints, final estimate	Start-up	M&V
<b>EPA CHPP Assistance Available</b>	<ul style="list-style-type: none"> <li>• Provide networking and leads</li> <li>• Conferences</li> <li>• Presentations</li> <li>• Niche market development activities</li> </ul>	<ul style="list-style-type: none"> <li>• Provide general CHP and application-specific sales collateral</li> </ul>	<ul style="list-style-type: none"> <li>• Provide general CHP and application-specific sales collateral</li> <li>• Funding database for incentive/grant opportunities</li> <li>• Provide feasibility studies to targeted end-users</li> <li>• Provide referrals to CHP team (e.g., engineering, construction, finance)</li> </ul>	<ul style="list-style-type: none"> <li>• Provide EPA CHPP staff member or letter to affirm environmental benefit of CHP to end-user decision-maker or local regulators</li> </ul>	<ul style="list-style-type: none"> <li>• Provide information/referrals regarding permitting or regulations</li> </ul>	<ul style="list-style-type: none"> <li>• Provide information/referrals regarding permitting or regulations</li> </ul>	<ul style="list-style-type: none"> <li>• Energy Star CHP Award</li> <li>• CHPP Certificates</li> <li>• Support for ribbon-cutting ceremonies</li> </ul>
<b>EPA CHPP Business Planning Offerings</b>	Market studies, funding database, networking, policy news, niche market development						

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# For More Information

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