

# Southeast CHP Regional Application Center

## How did we get here?

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# *National CHP Roadmap Process*

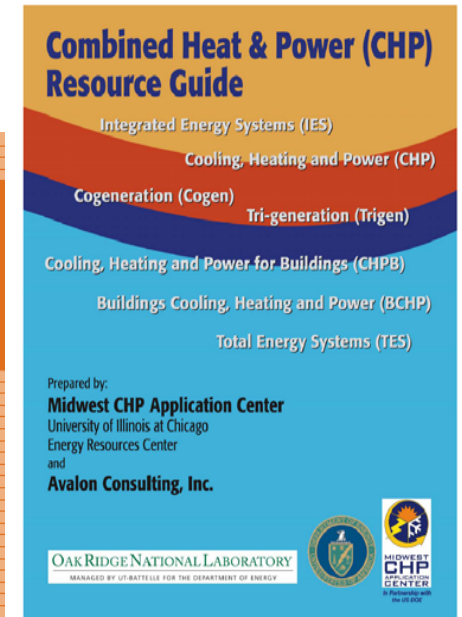
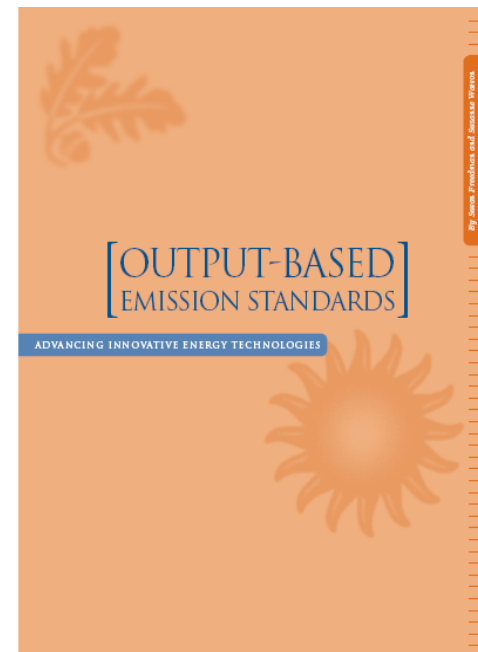
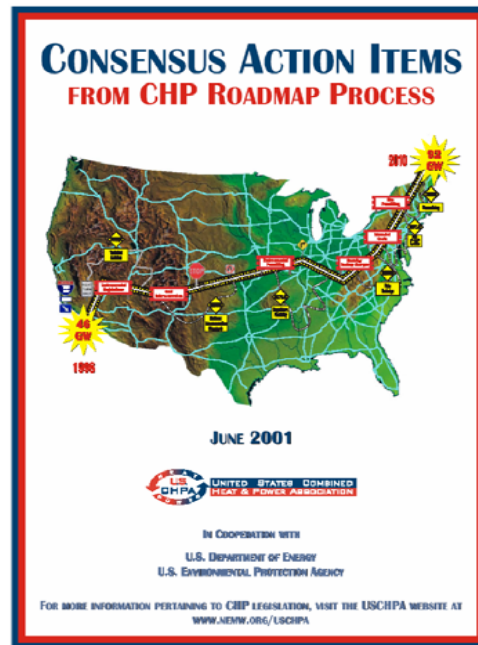
- DOE/EPA/USCHPA Team Effort Formally initiated with the announcement on Dec., 1998,, of the **CHP Challenge to double the amount capacity in the US by 2010.**
- Visioning workshop held June, 1999.
- 1st National Roadmap Workshop held in Baltimore in Nov, 2000. 1st “Roadmap” w/action plan published March, 2000.
- 2nd National CHP Roadmap workshop held in Baltimore in Oct., 2001.
- Additional Meetings every year since.

# Continuous improvement in available information

## COMBINED HEAT AND POWER (CHP) A VISION FOR THE FUTURE OF CHP IN THE U.S. IN 2020

BASED ON DISCUSSIONS AT THE CHP VISION WORKSHOP  
WASHINGTON, D.C.  
JUNE 8-9, 1999

September 1999



NC Combined Cooling, Heating and Power Program



# *SRO Kickoff Meeting – May 22, 2002*

- Plan the overall development, structure, and purpose of the Southeast CHP Initiative and identify key issues
- 13 people in attendance from 11 different organizations industry suppliers, environmental groups, universities, and government organizations.
- Decided on the biggest issues facing development of CHP in the Southeast, mainly:
  - Regulatory barriers to open up to new DER and CHP.
  - Interconnection regulations
  - Low electrical rates/CHP economics
  - High rate of natural disasters – ice storms, hurricanes, tornadoes, etc.
  - Environmental Air Quality Opportunity – high pollution rates in region
  - High humidity levels creates a need for humidity control and thermally driven cooling technologies
- Subcommittees formed to tackle major issues of Policy, Education, Interconnection, Permitting, and Market Development.
- Full Agenda and Minutes can be found at <http://uschpa.admgt.com/regional.htm>

# *2<sup>nd</sup> Meeting – September 26, 2002*

- More groups attending as additional interested parties hear about the activity
- Presentations given by:
  - Oak Ridge National Laboratory
  - US EPA
  - NCSU Solar Center
  - Mississippi Valley Gas
  - Florida Solar Energy Center
  - Tennessee Valley Authority
  - GTI

# *3rd Meeting – January 8-9, 2004*

- Meeting held to prepare for impending SEP solicitation
- 40 attendees at this latest meeting, representing 30 separate groups representing all interested parties (industry, education, government, environment)
- Presentations made by US EPA, US DOE Southeast Regional Office, Energy and Environmental Analysis, Inc., NCSU Solar Center, Southface Energy Institute, ORNL, Power Equipment Associates, and Emory University
- Attendees formed two breakout/brainstorming groups, one to discuss **Permitting, Policy, and Interconnection** and a second to discuss **Education, Outreach, and Market Development**.
- Action Items were determined by these groups, and can be found in detail at the following website along with some presentations:  
[http://www.eere.doe.gov/regions/southeast/der\\_chpi.html](http://www.eere.doe.gov/regions/southeast/der_chpi.html)

# *Barriers facing CHP*

- Financing challenges
  - High first costs
  - Uncertain long-term commitment to incentives
  - Uncertainty in RE certificate markets for biomass
- Unreasonable interconnect requirements
- High standby/back-up power costs
- EE environmental benefits / fossil & nuclear environmental costs not valued
- Siting and permitting delays/uncertainties
- Non-core business investment for the customer

# Do we have some questions?

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