

# Combined Heat and Power Southeast Regional Application Center

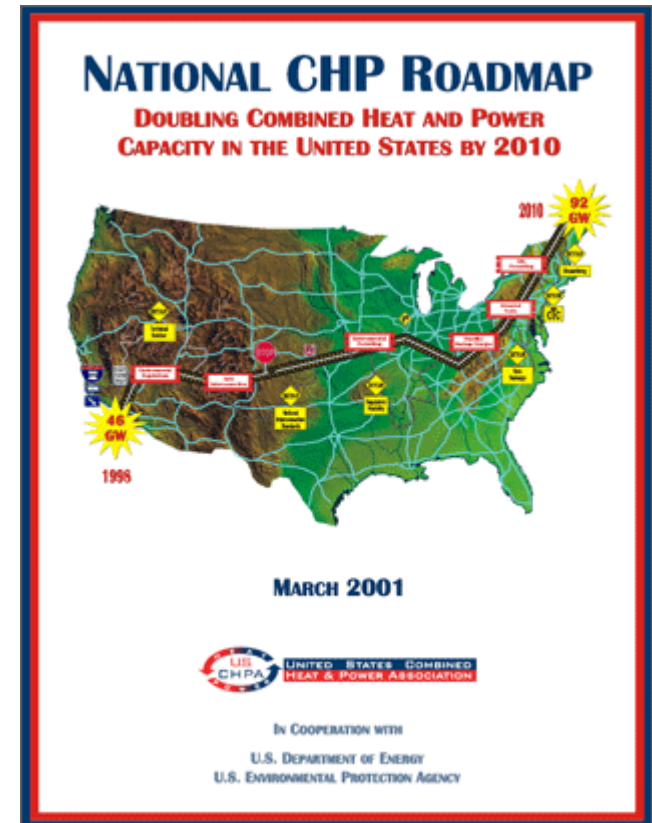
Incentivizing CHP in the Southeast  
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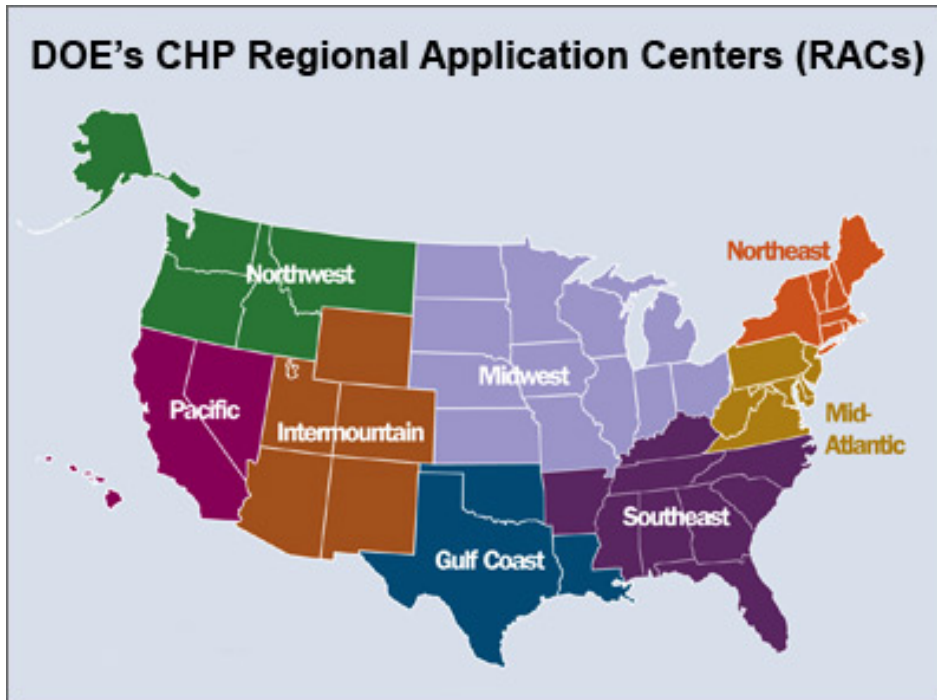


# National CHP Roadmap

- 1998- DOE/EPA/USCHPA Team effort formally initiated with the announcement of the CHP Challenge to double the amount capacity in the US by 2010.
- 1999- Visioning workshop held
- 2000- First National CHP Roadmap Workshop held in resulting in the “Roadmap” w/action plan
- 2001- Second National CHP Roadmap Workshop held



# Regional Application Centers



The CHPCenterSE was established in 2004 for the US Dept. of Energy to promote the development and deployment of Combined Heat and Power.

It is co-located at the Micro-CHP and Bio-Fuels Center at Mississippi State University and the North Carolina Solar Center at North Carolina State University.

[www.chpcenterse.org](http://www.chpcenterse.org)



# Barriers facing CHP

- Financial Challenges
  - High first cost
  - Uncertainty of financial incentives
  - Uncertainty of RE credits for biomass
  - Low spark spread
- Unreasonable/uncertain interconnection requirements
- High standby/back stand charges
- EE environmental benefits not valued
- Siting / permit delays
- Non-core business investment



# RAC activities

- Education & Outreach
  - Website ([www.chpcenterse.org](http://www.chpcenterse.org))
  - Focused training & support
  - Workshops & conferences
  - Regulatory interactions
  - Project profiles / Case studies
- Project support
  - Site assessments (Level I & Level II)
  - Technical assistance



# RAC activities

- Policy development
  - EPA CHP partnership
  - USCHPA support
  - CHP Team support
  - State focused support
  - White papers
  - Technical support to legislators / regulators / NGO's



# RAC activities

- Tool development
  - CHP Primer
  - CHP graduate level courses
  - CHP screening guide
  - Environmental permitting guidebook
  - CHP resources guidebook
  - Target market collateral
  - Heat Map software



# RAC activities

- Demonstration
  - Micro-CHP facility @ MSU
  - RE-CHP demonstration facility @ NCSU
- Vendor support
- Market Assessments
- Technology RD&D



# Clean Energy Application Centers

- “CHP Regional Application Centers” will transform into “Clean Energy Application Centers”
- Authorized in EISA 2007
- Recent FOA and announcement of award winners
- Focus on CHP, District Energy, Waste Heat Recovery and other Clean Energy Applications



# Clean Energy Application Centers

CEAC's will integrate Industrial Technology Program products into their offerings

- Industrial Assessment Centers
- Save Energy Now - Energy Savings Assessments
- Qualified Specialist training programs
- Distance learning opportunities



# Incentivizing CHP in the Southeast

## Speakers

Keith McAllister, Program Manager, CHPCenterSE

Renewable Portfolio Standards/Green Building Standards

Laurel Varnado, Editor of *Connecting to the Grid*  
Newsletter

Interconnection and Net Metering

Amy Heinemann, Policy Analyst, DSIRE Project  
Financial Incentives

