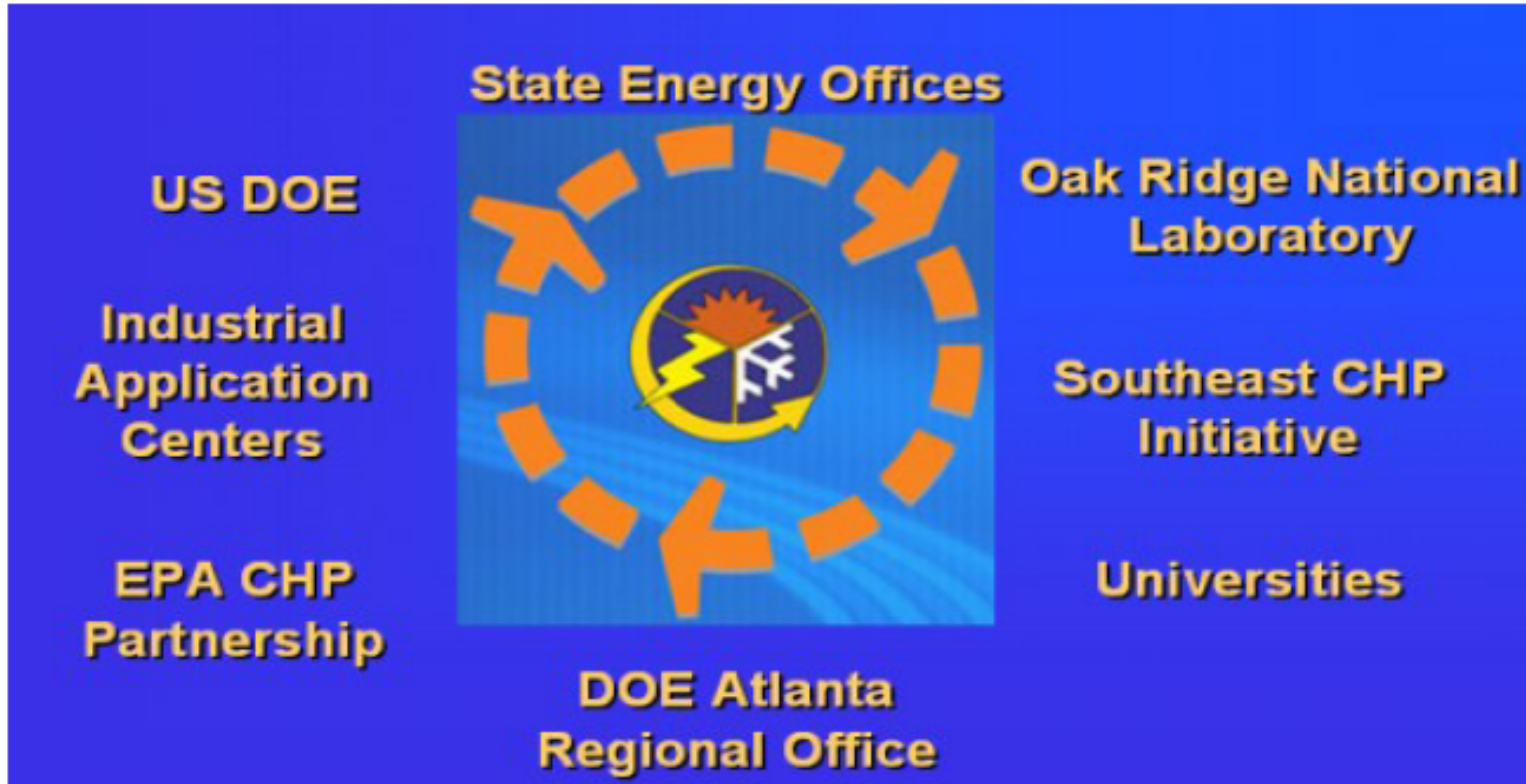


Introducing the Combined Heat and Power Southeast Regional Application Center

Mississippi State University
North Carolina State University
www.CHPCenterSE.org



What is a RAC

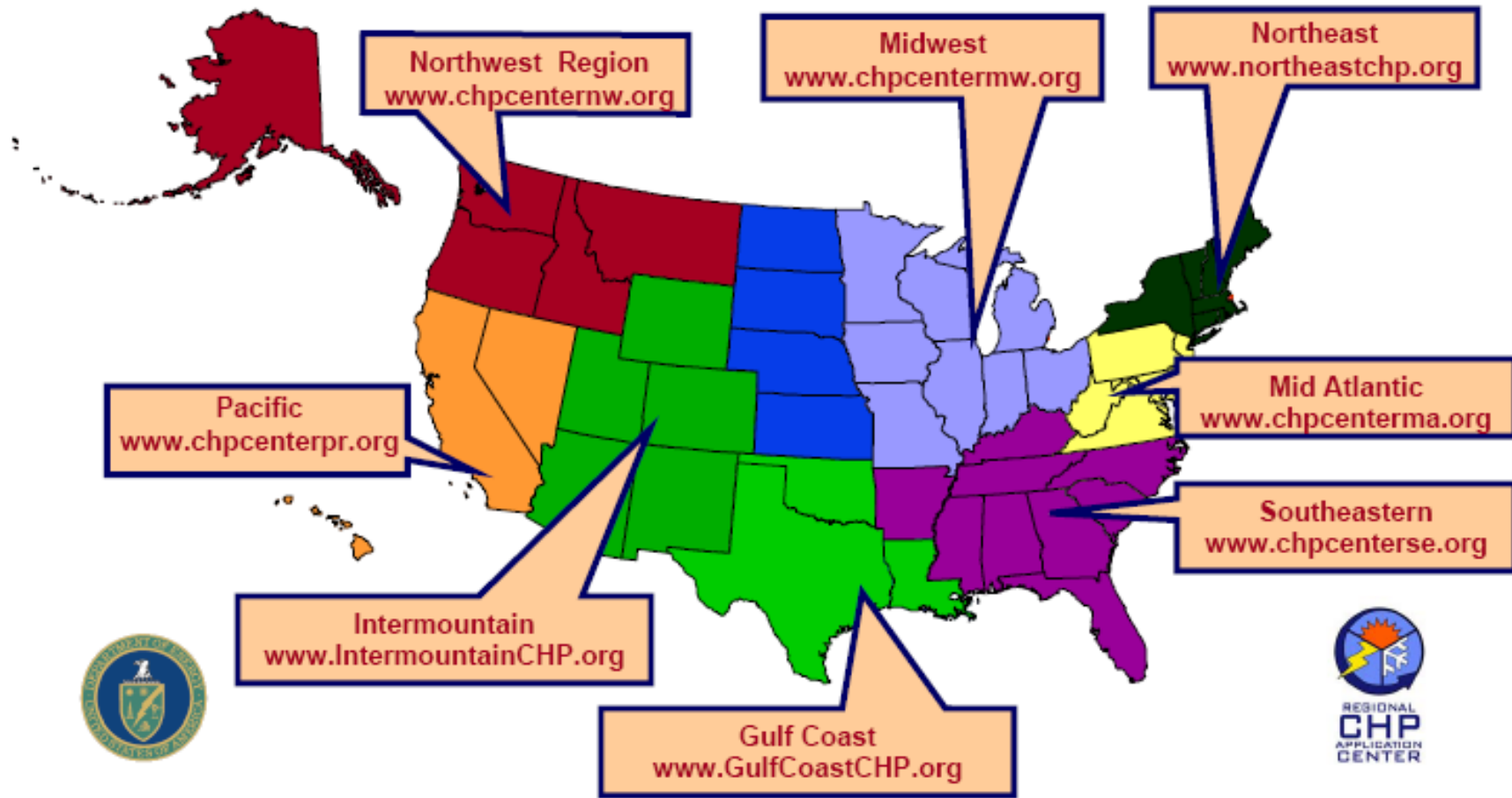


National CHP Roadmap

- 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.



Regional Application Centers



Origin of the CHP Center SE

- First meeting on May 22, 2002
- Second meeting on September 26, 2002
- Third meeting on January, 8-9, 2004
- Contract awarded to Mississippi SEO in August 2004 – Contracts to MSU & NCSU in May 2005
- Roadmap meeting held on September 20-21, 2005



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



Roadmap

- Pre-meeting survey
 - Barriers to CHP
 - Potential Markets for CHP
 - The viable alternative fuels
 - End user motivation for implementing CHP technologies
 - The types of applications which were most suitable for CHP, and
 - The most beneficial types of activities for the Southeastern CHP Application Center



Roadmap – Breakout sessions

- Agriculture & alternative fuels
- Industrial applications
- Cooling & Dehumidification
- Energy Security & Reliability



Roadmap - Priorities

- Policy development
- Education & Outreach
- Market Analysis
- Technology RD&D
- Demonstration Projects
- Vendor/equipment support
- Project development support
- Tool development



RAC activities

- Education & outreach
 - Website (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



CHP Center SE

Questions?



CHP Center SE

- Dr. Louay Chamra – MSU

chamra@me.msstate.edu

662-325-0618

- Keith McAllister, PE

keith_mcallister@ncsu.edu

919-515-3933

