2011 ENERGY STAR® EMERGING TECHNOLOGY AWARD

FACT SHEET

The ENERGY STAR Emerging Technology Award:
- Recognizes innovative products that have the potential to significantly reduce greenhouse gas emissions.
- Advances promising technologies that may not yet meet key principles associated with categories eligible for the ENERGY STAR label (e.g. broadly available, proven and cost-effective to the consumer) or may be relatively more complex to properly install and operate.
- Raises the profile of products, helping to build demand so cost may ultimately be reduced and availability broadened.
- Is an annual award given to products that meet rigorous performance criteria in 1-2 select categories per year.

2011 Selected Category: Micro Combined Heat and Power (CHP)
The category selected for 2011 is Micro CHP. EPA estimates a typical home in a cold climate could reduce CO₂ emissions by 20-30% with a Micro CHP system.

Call for Applications
- Applicants must meet eligibility criteria. Criteria are available online at www.energystar.gov/emergingtech
- Applications and supporting materials are due by November 1, 2010.
- Submit materials to emergingtech@energystar.gov.
- Award winners will be announced in January, 2011.

Benefits of the ENERGY STAR Emerging Technology Award:
- Recognition. Award winners will be featured on website and will have the opportunity to promote their accomplishments in product literature and marketing materials in accordance with EPA guidelines.
- Match-making. With over 17,000 partners in dozens of sectors, ENERGY STAR and EPA are uniquely placed to help match award winners with partners interested in emerging efficient technologies.
- Barrier removal. All emerging technologies face barriers to wider market acceptance. In some cases, EPA may be able to help companies develop strategies to overcome these barriers.

Why CHP?
Micro combined heat and power (CHP) was selected through a stakeholder process that evaluated technologies based on the following criteria:
- Commercially available, but not widely adopted (<5% market share)
- Preferably offered by more than one supplier
- Demonstrated environmental performance; third party verified
- Likely to significantly reduce greenhouse gases at competitive costs
- Environmental acceptability (technology use is a net plus for the environment)
- Technology is supported by capable partners who are adequately financed with established business records
- Challenges matched to EPA competencies and appropriate roles

What is Micro CHP?
Micro CHP (Combined Heat and Power) is a hybrid technology that combines an internal-combustion engine generator, or fuel cell, coupled with a space and/or water heating device. The unit produces electricity as a byproduct of space and/or water heating, allowing the home, multi family unit or small commercial business to self-generate a portion of its electricity. By capturing the waste heat from the electric generation and using it for space heating less fuel energy is used when compared with incumbent technologies.

Beyond 2011
At this time, EPA is not accepting proposals for additional award categories. If EPA continues the Emerging Technology Award beyond 2011, a call for proposals will be posted at www.energystar.gov/emergingtech