

# 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 CO<sub>2</sub> 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](http://www.energystar.gov/emergingtech)
- Applications and supporting materials are due by November 1, 2010.
- Submit materials to [emergingtech@energystar.gov](mailto: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](http://www.energystar.gov/emergingtech)