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U.S. EPA Presents Prestigious 2011 ENERGY STAR Emerging Technology Award to Marathon Engine Systems

Marathon Engine Systems ecopower™, a micro combined heat and power (Micro CHP) system, surpasses EPA product performance requirements and receives top honor.

EAST TROY, WI – The U.S. Environmental Protection Agency today awarded Marathon Engine Systems, an engineering and manufacturing company, with the 2011 ENERGY STAR Emerging Technology Award for the ecopower™ Micro CHP system. The East Troy, WI, company's innovative product increases overall energy production efficiency and reduces greenhouse gas emissions.

What is Micro CHP?

Micro CHP is an emerging technology for combined heat and electrical power generation in homes and small businesses. Unlike the central power plant or large industrial generator, Micro CHP brings the “power plant” to the consumer. The ecopower™ Micro CHP uses the long life Marathon™ IC engine for durable output. Built-in microcontrollers supervise the energy output with advanced software.

About 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 a select category.

ecopower™ Micro CHP – Cleaner Distributed Energy

These small home energy systems deliver energy to the home with twice the energy efficiency compared to a typical central power plant.**

The ecopower™ anticipates daily energy needs and also changes output in as little as seconds to meet unscheduled energy requirements (DR – demand response).

Energy Star Award: http://www.energystar.gov/index.cfm?c=pt_awards.pt_emerging_technologies

EPA News Release:

<http://yosemite.epa.gov/opa/admpress.nsf/d0cf6618525a9efb85257359003fb69d/9b9cc5c9e5fb678d8525783100580264!OpenDocument>

*Source: EPA ENERGY STAR Emerging Technology Award website

**Sources: ICES lab testing of ecopower™ efficiency, and EIA for average power plant efficiency





How Did Marathon Engine Systems ecopower™ Surpass the Requirements and Receive the Award?

Micro-CHP ENERGY STAR Emerging Technology Award Criteria		
Product Performance		
Characteristic	Requirement	ecopower™
NOx Emissions*	< 0.3 lb./MWh	0.005 lb./MWh
Overall CHP Efficiency*	> 70% HHV (> 80% LHV)	83% HHV (93% LHV)
System Noise	≤ 60 dB(A) at 1 m	55 dB(A) at 1 m
Minimum Warranty	2 years parts & labor	2 years parts & labor
Minimum Field Testing	Verified, 5 units for 1 year	Verified, 5 units for 1 year
Certification	UL 2200; UL 1471	UL 2200; UL 1471 listed

*ecopower™ tests are third party-verified performance.



The ecopower™ Engine Is Proudly Made in the U.S.A.
And certified to the new 2011 EPA emissions standards.