



# 2007 Emerald Award Winner For Environmental Excellence

Sponsored by the Broward County Board of County Commissioners

## Innovative Procedures/Process Improvement



Cyclone Power Technologies, Inc. is a research and development company with more than 68 patents, including patents for the development of the Green Revolution Engine and the Waste Heat Engine.

The company's environmental achievements include:

- Cyclone holds the U.S. patent, international patent applications, and exclusive commercial rights to the Cyclone Engine "Green Revolution Engine™" an environmentally-friendly and highly-efficient external combustion, heat-regenerative engine.
- The Cyclone engine regenerates (or recycles) its heat, which allows it to run cleaner, cooler and more efficiently than traditional internal combustion engines. It is capable of running on any liquid or gaseous fuel, including ethanol, bio-diesel and propane (same engine with no changes) and is lubricated with de-ionized water instead of motor oil.
- The company also recently filed a patent application for its Waste Heat Engine, a low-pressure engine capable of running on heat emitted from external sources, including the waste exhaust of a another engine, bio-mass, or solar power.
- Both these engines are lubricated with de-ionized water instead of motor oil, and by eliminating many subsystems like oil pumps, radiators, catalytic converters and fuel injectors, the Cyclone Engines are expected to cost less to manufacture, operate and maintain.
- The Cyclone Engine in particular is highly scalable and sufficiently powerful for applications ranging from lawn equipment and small home generators, large stand-alone generators, to cars, trucks, buses, RV's, boats and ships, as well as earth moving equipment and locomotives.



Frankie Fruge, COO (left) and Harry Schoell, Inventor and CEO (right) stand besides the Cyclone Power Generator. It can burn any type of fuel including kerosene, diesel, alcohol, biofuels, propane, methane, coal or wood chips.



If just 10% of consumers of lawn mowers in Florida switched to a Cyclone Engine, our air could be spared 127,200 pounds of hydrocarbons, 1,200 pounds of nitrogen oxides and 3,360 pounds of particulates.

Cyclone is in late stage development for the 3 hp engine that will go into push lawn mowers, to be consumer ready by 2010.



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