

5<sup>th</sup>  
Annual

**CLEAN  
AIR**  
Excellence  
Awards

2004



Office of Air and Radiation

**A Message from the  
Acting Administrator  
Stephen L. Johnson**

Congratulations to the winners of the 5<sup>th</sup> Annual Clean Air Excellence Awards. Your innovative projects and creative programs demonstrate our national resolve for cleaner air and a healthier America. These unique contributions are an important part of air quality improvement across our nation. Thank you for your outstanding work and dedication.



**A Message from Assistant Administrator  
Jeffrey R. Holmstead**

It is a great honor to recognize the thirteen winners of the 2004 Clean Air Excellence Awards. The recipients have shown strong leadership and have demonstrated their commitment to reducing air pollution. I am pleased to join Acting Administrator Johnson in congratulating the winners.



# Clean Air Technology



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## **Evinrude® E-TEC™ Clean Air Technology** **Bombardier Recreational Products Inc.**

In 2003, Bombardier Recreational Products Inc. (BRP) introduced Evinrude E-TEC, the cleanest outboard engine for marine recreational products, which is based on two-stroke engine technology. Compared to a similar state-of-the-art 2004 four-stroke engine, carbon monoxide emissions with Evinrude E-TEC are typically 30 to 50 percent lower; and at idle are lower by a factor of 50 to 100 times. In addition, Evinrude E-TEC emits 30 to 40 percent



less total particulate matter on a weight basis than a similar “ultra-low emissions” four-stroke outboard. Furthermore, oxides of nitrogen and hydrocarbon emissions for Evinrude E-TEC are similar, if not lower, than a four-stroke outboard.

In addition to air quality benefits, Evinrude E-TEC engines are cost effective and uniquely designed. Evinrude E-TEC is also competitively priced against comparable four-stroke products. Moreover, there is no scheduled dealer maintenance for the first three years or 300 hours under recreational use. There are no oil changes with this engine, as well as no belts, and no valve or throttle linkage adjustments. This makes Evinrude E-TEC engines easier to own than comparable four-stroke engines.

Numerous advancements combine to create the Evinrude E-TEC quiet signature sound including an exclusive idle air bypass circuit. E-TEC engines are compact but house durable, robust components in a unique design that has a swept back profile and a self-aligning hood for easy engine access.

This advanced new Evinrude E-TEC technology offers environmental benefits, providing an enjoyable and safe boating experience, and has vast potential outside the marine industry.

## About the Clean Air Excellence Awards Program

The Clean Air Excellence Awards Program is sponsored by EPA's Office of Air and Radiation. The Program was suggested by the Clean Air Act Advisory Committee (CAAAC), a senior-level federal advisory committee that provides advice to EPA on Clean Air Act issues and the Awards Program.

The Awards Program, now in its fifth year, annually recognizes and honors both individuals and organizations that have undertaken the risks of innovation, served as pioneers in their fields, and have improved air quality. Each award recipient has either directly or indirectly reduced emissions of criteria pollutants or hazardous/toxic air pollutants. The programs are innovative, replicable, and sustainable; their efforts have helped to make progress in achieving cleaner air.

The award recipients are chosen through a multi-step judging process. EPA staff conducts an initial technical screening of all applications. Selected entries are then reviewed by a CAAAC task force, which provides advice to EPA on the candidates' programs. EPA's Office of Enforcement and Compliance Assurance then provides additional comments on entries. EPA's Assistant Administrator for Air and Radiation makes the final award determinations.

EPA posts information about current and past award recipients on the Clean Air Excellence Awards Program Web site, located at [www.epa.gov/air/caaac/clean\\_award.html](http://www.epa.gov/air/caaac/clean_award.html).

