



Fact Sheet

California Environmental Protection Agency

 **Air Resources Board**

Cleanest Gasoline Powered Vehicles

Many new gasoline vehicles are being designed to produce extremely lower levels of emissions, and are achieving a Partial Zero Emission Vehicle, or PZEV rating by the California Air Resources Board (ARB). PZEVs are so clean because they meet ARB's most stringent tailpipe emission standard - Super Ultra Low Emission Vehicle, and have a 15 year/150,000 mile warranty and zero evaporative emissions.

Environmental Benefits

Gasoline vehicles with a PZEV rating are mass-produced in a variety of makes and models and are available to the public today. They have an immediate impact on air quality because they are popular models at affordable prices. In addition, the extended warranty provides added security that the vehicle will be maintained for a longer period of time.

Perks and Conveniences

Nothing new here - just a much cleaner version of the conventional internal combustion engine vehicle. In many instances car buyers may pay only \$100 more for a cleaner vehicle model that comes with a better warranty. It is even possible to be driving a clean car and not even know it!

Technology

Automakers are continually making advancements in technologies that improve their vehicles. Tremendous benefits have resulted alone by industry's ability to simplify, refine, and reduce the costs of their emission control systems. PZEVs are primarily four cylinder engines, however there are some five and six cylinder models available. Many PZEVs utilize various combinations of multiple catalysts, several oxygen sensors, exhaust gas recirculation, and an air pump.

Facts

- In 2003 there were 15 PZEV models available. There are 27 models in 2004.
- BMW, Ford, Volvo, Toyota, Honda, Subaru, Hyundai, Mitsubishi, Nissan and Volkswagen all have several PZEV models available to consumers.
- Cars with a PZEV emission rating have such tight pollution controls, and the burning of fuel is so complete, that in very smoggy urban areas, exhaust out of the tailpipe can actually be cleaner than the air outside.



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- Ford's 2003 Focus certified with a PZEV emissions rating, has a larger engine that weighs less, produces more horsepower, and is more fuel-efficient than the dirtier version of that same vehicle.
- The California Air Resources Board estimates 140,000 PZEVs will be on CA roads in 2004 - reaching 700,000 more each year by 2011 in CA alone.
- Gasoline vehicles meeting PZEV emissions standards sometimes have even lower emissions than hybrid or alternate fuel vehicles.

Where can I get more information?

Please contact the ARB toll-free at (800) END-SMOG/(800) 363-7664 (California only) or (800) 272-4572. You may obtain this document in an alternative format by contacting ARB's Americans with Disabilities Act Coordinator at (916) 322-4505 (voice); (916) 324-9531 (TDD, Sacramento only); or (800) 700-8326 (TDD, outside Sacramento).