

TECHNOLOGY AND INNOVATION



NHTSA'S FUEL ECONOMY STANDARDS ENCOURAGE MANUFACTURERS TO DEVELOP INNOVATIVE TECHNOLOGIES TO CONTINUALLY IMPROVE THE EFFICIENCY OF VEHICLES IN THE U.S.

VISIT NHTSA.GOV FOR MORE INFORMATION.



THERMAL MANAGEMENT TECHNOLOGIES:

WINDOWS
 NHTSA standards encourage manufacturers to install heat reflective or heat absorbing glass in passenger cars which keeps cars cooler in hot weather, and on cold days, keep the inside of the vehicle warmer.


Some new cars are "smart" enough to know when it's getting too hot inside and can automatically lower the windows a small amount to let hot air escape.


ACTIVE SEAT VENTILATION
 Some new cars have technologies that keep seats cool without air conditioning. Less energy directed to temperature control can lead to savings at the pump.

SOLAR REFLECTIVE PAINT
 NHTSA encourages manufacturers to use paint that reflects sun rays preventing heat buildup and keeping vehicle interiors cooler; less energy is needed to keep the vehicle cool, which helps to save fuel.




HIGH EFFICIENCY EXTERIOR LIGHTS
 NHTSA provides incentives for lighting technologies that use less electricity compared to conventional lighting systems. This applies to nearly all the lights on the outside of vehicles. Less power running exterior lights means that less fuel is used.


START-STOP TECHNOLOGIES
 Stop-start technology conserves energy by shutting off a vehicle's engine when it is stopped and automatically re-starting when the driver presses the gas pedal. This reduces the amount of time the vehicle spends idling, which leads to less fuel consumption and emissions.


SOLAR PANELS
 Some electric, fuel cell electric, hybrid electric and plug-in hybrid electric vehicles can have solar panels fitted in the roof panels of the vehicle. This allows the vehicle to capture the sun's energy and help run the electrical systems which can save fuel.

DID YOU KNOW?

Only about one quarter of the energy from your car's fuel is used to move your car. The rest of the energy is wasted or used to power accessories. NHTSA standards encourage cars to do better.