

Technological and Innovative Developments Reducing Carbon Footprint and Emissions

According to a report by the Rhodium Group, **U.S. greenhouse gas emissions fell 10.3% in 2020** due to the coronavirus pandemic. While likely to rebound, this decrease will contribute to the United States' pledge to **reduce greenhouse gas emissions by 50% to 52% by 2030**.

Georgia's Clean Air Force (GCAF), in partnership with the Georgia Environmental Protection Division (EPD), highlights **recent technological and innovative developments that will help to reduce our carbon footprint and carbon dioxide (CO₂) emissions.**

Auto Engine Shutdown.



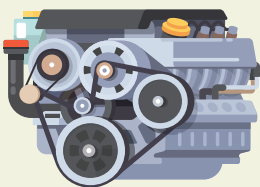
The U.S. Department of Energy estimates that idling personal vehicles waste about **six billion gallons** of fuel and generate **30 million tons** of CO₂ a year. New cars include auto engine shutdown, a feature activated every time the brakes are hit and the car comes to a stop. This technology **boosts fuel efficiency by over 8%**.

Biofuels.



A biofuel is any liquid **fuel derived from biological matter** and can be replenished swiftly. These fuels are **zero net emitters** since they release the same CO₂ that plants absorb to grow. The more we utilize biofuels, the less we rely on fossil fuels.

Redesigned Engines.



To meet the emissions regulations included in the Paris Agreement, researchers in Spain designed an **engine that doesn't emit damaging gases or CO₂**. It's currently only being used for large vehicles, but redesigned engines for passenger use are in development.

Vibrating Foot Pedals.



Harsh driving significantly decreases a car's fuel efficiency. To correct these habits, a technology was developed to provide feedback to the driver through foot pedal vibrations. Studies have shown that this will **help cut fuel consumption by seven percent.**

For more information, please visit
www.cleanairforce.com.

