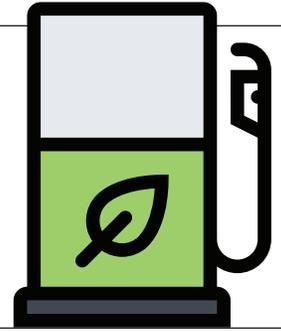


# Ethanol: A renewable, earth-friendly biofuel



## QUICK FACT

Between 1980 and 2015, the land used to grow a bushel of corn shrank by 41 percent, while the need [for irrigation fell by 46 percent](#).

## QUICK FACT

In the first 10 years of the policy, the RFS has reduced greenhouse gas emissions by an amount equal to removing [124 million vehicles from the road](#).

Ethanol is a renewable biofuel produced from grains, plants, and grasses. Ethanol burns cleaner and cooler than oil, which is good for our environment and our car engines.

## ETHANOL IS GOOD FOR THE EARTH.

- Corn ethanol reduces greenhouse gas emissions by 43 percent compared to conventional gasoline and has the potential to [reduce emissions by as much as 76 percent](#).
- Advancements in cellulosic biofuels can reduce [emissions by 100 percent](#), and today the first commercial-scale plants are fully operating.
- Ethanol helps to [displace toxic petroleum chemicals](#) that have been proven to cause cancer and smog.
- The U.S. used enough ethanol in 2017 to offset the need for more than 343 million barrels of toxic petroleum products like MTBE, benzene, Toluene, and xylene - which all have detrimental impacts on human health. That amount would fill almost [22,000 Olympic-sized swimming pools](#).

## ETHANOL IS GETTING GREENER EVERY YEAR.

- Advanced cellulosic biofuels production technologies are only possible thanks to the foundation of research and development laid by conventional producers.
- The Renewable Fuel Standard (RFS) has driven technological advancements creating further efficiency in the ethanol process - the ethanol industry is using less water and land today than ever before while producing record-breaking higher yields.

## ETHANOL PRODUCTION DOES NOT THREATEN NATURAL GRASSLANDS AND PRAIRIES.

- Thanks to innovative farming techniques, U.S. [corn production is up over the last 10 years, but agricultural land use is down](#).
- Farmers today grow five times as much corn as they did in the [1930s on 20 percent less land](#).

## ETHANOL PRODUCTION USES LESS WATER THAN GASOLINE PRODUCTION.

- With ongoing innovations in agriculture and biofuel production, ethanol gets cleaner and more sustainable year after year, delivering great benefits for consumers and for our environment.
- [The water required to produce ethanol](#) has dropped almost 50 percent in the past 10 years. Modern production only requires 2.7 gallons of water per gallon of ethanol.