

ETHANOL: AN AMERICAN SUCCESS STORY

Ethanol is providing consumers with more affordable fuel options at the pump, keeping our air clean, and revitalizing rural America with homegrown biofuels.

GIVING CONSUMERS A CHOICE

AT THE PUMP

- ✓ Ethanol gives American drivers a better performing, cleaner, less expensive, and homegrown fuel option – ethanol-blended fuel.
- ✓ Today, higher ethanol blends like E15 are available at more than 1,700 gas stations around the country, saving consumers up to 10 cents per gallon at the pump.

98% of our fuel supply contains ethanol¹

More than **90%** of cars on the road are approved for E15²



In 2018, **365,883 jobs** were supported by ethanol³



The ethanol industry produces over **44 million tons of animal feed**, which helps meet our nation's need for fuel and food.⁴



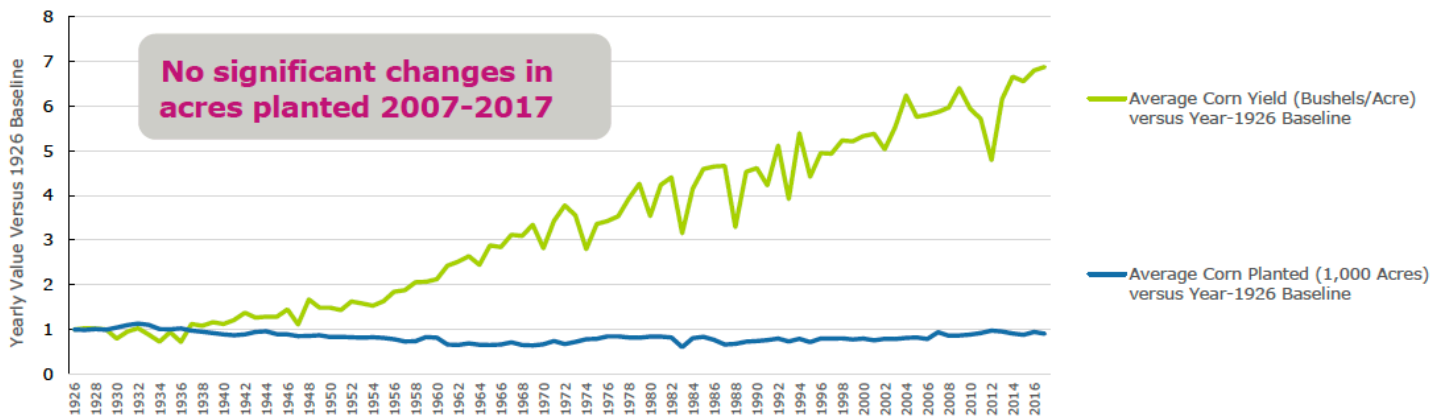
The ethanol industry has a production capacity of over **16 billion gallons**⁵

REDUCING OUR ENVIRONMENTAL FOOTPRINT

- ✓ 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.⁶
- ✓ Ethanol helps to displace toxic petroleum chemicals that have been proven to cause cancer and smog.⁷
- ✓ Precision farming and innovation have helped reduce our environmental footprint, cutting land use for corn by more than four million acres since 2007.⁸
- ✓ The next generation of advanced biofuels, like cellulosic ethanol, can reduce greenhouse gas emissions by 100 percent or more over.⁹

THROUGH INNOVATION, FARMERS DECREASE ACRES WHILE INCREASING YIELDS¹⁰

Average us corn yield for grain (bushels/planted acre) and total us planted acres of corn for all purposes (mm-acres) versus 1926 baseline (1926 to 2017)



ENCOURAGING HOMEGROWN BIOFUELS

- ✓ Today, the U.S. consumes more than 19 million barrels of oil per day, and about 19 percent of that is still being imported from other countries.¹¹
- ✓ Since 2005, net oil imports have dropped by more than 70 percent in part due to the increased production of renewable fuels like ethanol.¹²

1 [U.S. Department of Energy](#), Alternative Fuels Data Center, Ethanol Fuel Basics, Mar. 2019

2 [Growth Energy](#), 2018 RVO Comments, Aug. 2018

3 [U.S. Census Bureau](#), Labor Force Statistics, 2019

4 [U.S. Grains Council](#), DDGS, Mar. 2019

5 [EIA](#), U.S. Fuel Ethanol Plant Production Capacity, July 2018

6 [USDA](#), 'A Life-Cycle Analysis of the Greenhouse Gas Emissions of Corn-Based Ethanol', Jan. 2017

7 [EESI](#), 'Fact Sheet - A Brief History of Octane in Gasoline: From Lead to Ethanol', Mar. 2016

8 [USDA](#), National Agricultural Statistics Service, Mar. 2019

9 [DOE](#), Alternative Fuel Data Center, 'Flexible Fuel Emissions', Mar. 2019

10 [USDA](#), Economic Research Service, 'Feedgrains Sector at a Glance', Mar. 2019

11 [EIA](#), FAQ, 'How much oil is consumed in the United States?', Mar. 2019

12 [EIA](#), Petroleum & Other Liquids, Mar. 2019