



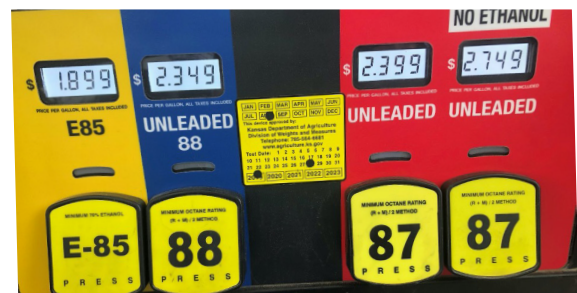
## Why High-Octane Low-Carbon Fuel?

**Automakers are seeking affordable, higher octane motor fuels enabling them to unlock increased efficiency gains within future spark ignition engines.**

While there are many potential sources of additional octane in future fuels, ethanol is the only commercially available product that can check all of these boxes: Low Carbon, High Octane, Affordable, Abundant and Renewable! The National Corn Growers Association, in partnership with state corn organizations, continue their efforts to shape long-term future domestic demand for U.S. produced corn-based ethanol.

### *Why should you care about High-Octane Low-Carbon fuels?*

1. Domestic Market Demand: A high-octane low-carbon fuel in the marketplace, once fully implemented, increases long-term annual ethanol usage by more than 5 billion gallons . That's equal to over 1.8 billion bushels of new annual corn demand.<sup>1</sup>
2. Domestic Energy Independence: More ethanol means less reliance on foreign oil. In 2018, ethanol displaced 594 million barrels of crude oil.
3. Future Engine Performance: Auto makers are asking for a higher-octane fuel standard allowing new technology capable of delivering substantial gains in engine efficiency and performance.
4. Environmental Impact: In 2018, the use of ethanol in gasoline reduced CO<sub>2</sub>-equivalent Greenhouse Gas Emissions (GHG) from vehicles in the U.S. by 55.1 million metric tons. That's equal to removing 11.7 million cars from the road for an entire year!
5. Reduces the price at the Pump: Today regular gasoline without ethanol is often times priced at well over a \$0.50 higher compared to fuel containing a minimum of E10. Higher blends of ethanol in a future high-octane fuel would allow consumers access to a high-octane fuel without the high-octane price premium we see today.



<sup>1</sup> Implementation gradually spread over the next 20 years

Learn more about the benefits of high-octane low-carbon fuel at [ncga.com/octane](https://ncga.com/octane)

