



IMPACTS OF CLEAN OCTANE ON HEALTH THE ENVIRONMENT AND THE ECONOMY



AMERICANS CONSUME **140 BILLION** GALLONS OF GASOLINE EACH YEAR¹

Approximately 30% of a typical gallon contains **carcinogenic aromatic hydrocarbons** which are emitted as ultrafine toxic particulates linked to pre-term births, cancer, IQ loss, neurological disorders, and a multitude of respiratory diseases.^{2,3}

THERE ARE CURRENTLY MORE THAN **270 MILLION** LIGHT DUTY VEHICLES REGISTERED IN THE U.S.⁴



With approximately **16 million** new cars sold every year, the majority of which have internal combustion engines, **gasoline will remain a long term threat to public health for years to come.**⁵

WHY TAKE ADVANTAGE OF RENEWABLE BIOFUELS?

BETTER FOR HEALTH



Clean octane blends, including higher corn ethanol blends, reduce harmful toxins from gasoline exhaust.⁹

HELPS THE ENVIRONMENT



In general, biofuels emit fewer greenhouse gas emissions.¹⁰ In fact, an acre of U.S. corn sequesters more than one metric ton of atmospheric carbon.¹¹

GOOD FOR THE ECONOMY



Ethanol displaces more than 400 million barrels of oil each year. Using E30 could reduce U.S. oil imports by one billion barrels per year.¹²

REINVIGORATE THE RURAL ECONOMY IN PURSUIT OF 'CLEAN OCTANE'

Automakers have acknowledged the benefits of establishing a national octane standard of 98-100 research octane number (RON). The Clean Air Act⁶ prohibits the addition of more carcinogenic aromatics, **therefore, refiners would have to add more ethanol to achieve the higher octane ratings.**

The U.S. corn ethanol industry produces approximately 17 billion gallons per year (GPY). In 2019, refiners blended only 14 billion GPY of ethanol into their gasoline and approximately 1.6 billion gallons were exported.⁷

U.S. corn farmers produce approximately 15 billion bushels of corn on 90 million acres with consistent increases in yields due to precision agriculture advances.⁸

The US corn ethanol industry could expand to transition the US from today's nationwide E10 to a high octane 100 RON E30 fuel nationwide.

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