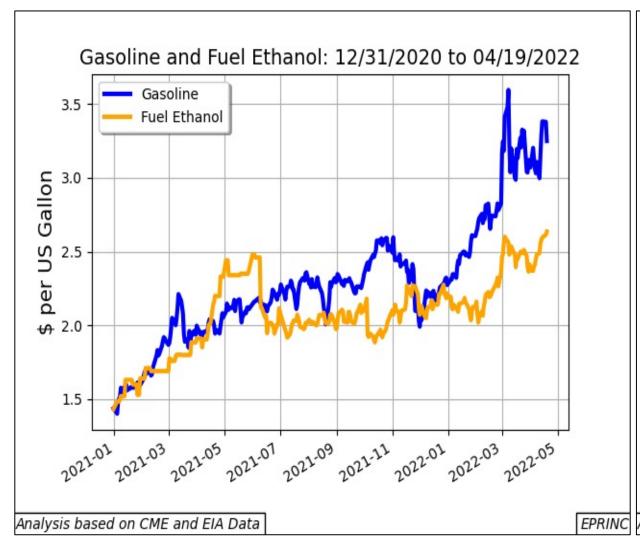


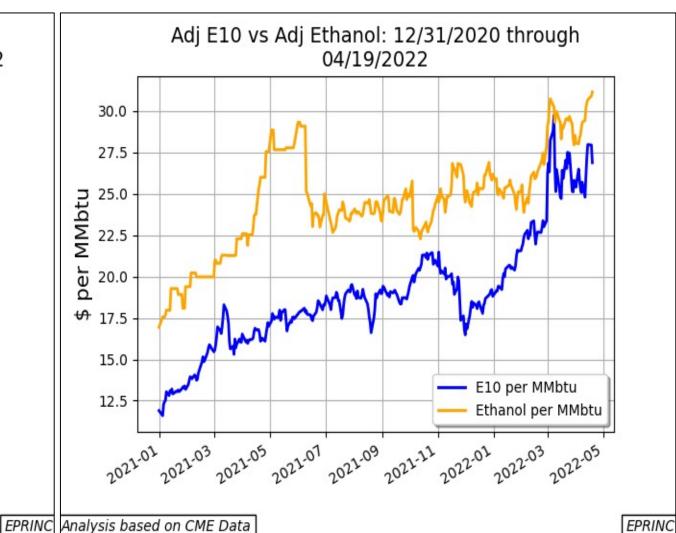


Max Pyziur Lucian Pugliaresi April 20, 2022 Washington, D.C.

Gasoline and Ethanol Price Differentials, Volumetric and Energy Bases







Energy Value of Ethanol vs Gasoline



- Since the beginning of 2022, gasoline prices have risen over 40%. Because of the adverse consequences of high prices for U.S. consumers, the Biden administration has been trying to find policies to provide immediate relief.
- On April 12, 2022 the Administration announced plans for EPA to issue an emergency waiver to allow summertime sales of gasoline blends of E15 (gasoline blended with 15% ethanol). Currently, gasoline has ethanol at a maximum of 10% in most parts of the U.S.
- While fuel ethanol prices have risen also, they have increased at much slower rates than that of gasoline. On a volumetric basis during 2022, the price of wholesale ethanol has averaged 56 cents less than that of wholesale gasoline blendstock.
- However, ethanol has 70% of the energy density of non-ethanol blended gasoline (E0). E10 has 97% of the energy density; E15 has 95.5%. This implies that for the same volumetric amount of fuel, a motor vehicle would have lower mileage per gallon using E15 compared to using E10.
- In addition, only about 2,300 of the U.S.'s 150,000 filling stations have appropriate pump and tank hardware to handle gasoline blends above 10%.
- This slide deck is available on the <u>EPRINC Website</u>
- For more information on this chart, please contact Max Pyziur (<u>maxp@eprinc.org</u>) or Lucian Pugliaresi (<u>loup@eprinc.org</u>).



Additional Slides

Crude Oil and Corn Price Differentials, Volumetric and Energy Bases



