USA: Impact of COVID-19 on Renewable Energy Development

EGNRET-54
Philippines (Virtual)
November 10-11, 2020
US Covid-19 energy impacts: Electricity consumption

U.S. electricity consumption
billion kilowatthours

Components of annual change
billion kilowatthours

Source: U.S. Energy Information Administration, Short-Term Energy Outlook, November 2020
US Covid-19 energy impacts: Renewable energy production

Note: Hydropower excludes pumped storage generation. Liquid biofuels include ethanol and biodiesel. Other biomass includes municipal waste from biogenic sources, landfill gas, and other non-wood waste.

Source: U.S. Energy Information Administration, Short-Term Energy Outlook, November 2020
US Covid-19 energy impacts: Liquid fuels consumption

U.S. liquid fuels product supplied (consumption) million barrels per day

Components of annual change million barrels per day

Source: U.S. Energy Information Administration, Short-Term Energy Outlook, November 2020
An unexpected COVID impact is the rise in renewable liquid fuels production

- In mid-August 2020, Philipps 66 announced plans to permanently cease processing crude oil at the 120,000 bpd Rodeo, California refinery and convert the plant to a renewable fuels refinery to be known as Rodeo Renewed
  - Rodeo Renewed will produce 800 million gal/year (50,000 b/d) of renewable fuels, making it the largest such facility in the world

- As an example of greenfield construction on the US Gulf Coast, Valero Energy Corporation is in advanced engineering and development cost review for a new facility in Port Arthur, Texas
  - The proposed plant will produce 400 million gal/year of renewable diesel and 40 million gal/year of renewable napatha

Source: Oil & Gas Journal, October 5, 2020, page 38-41
Questions

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