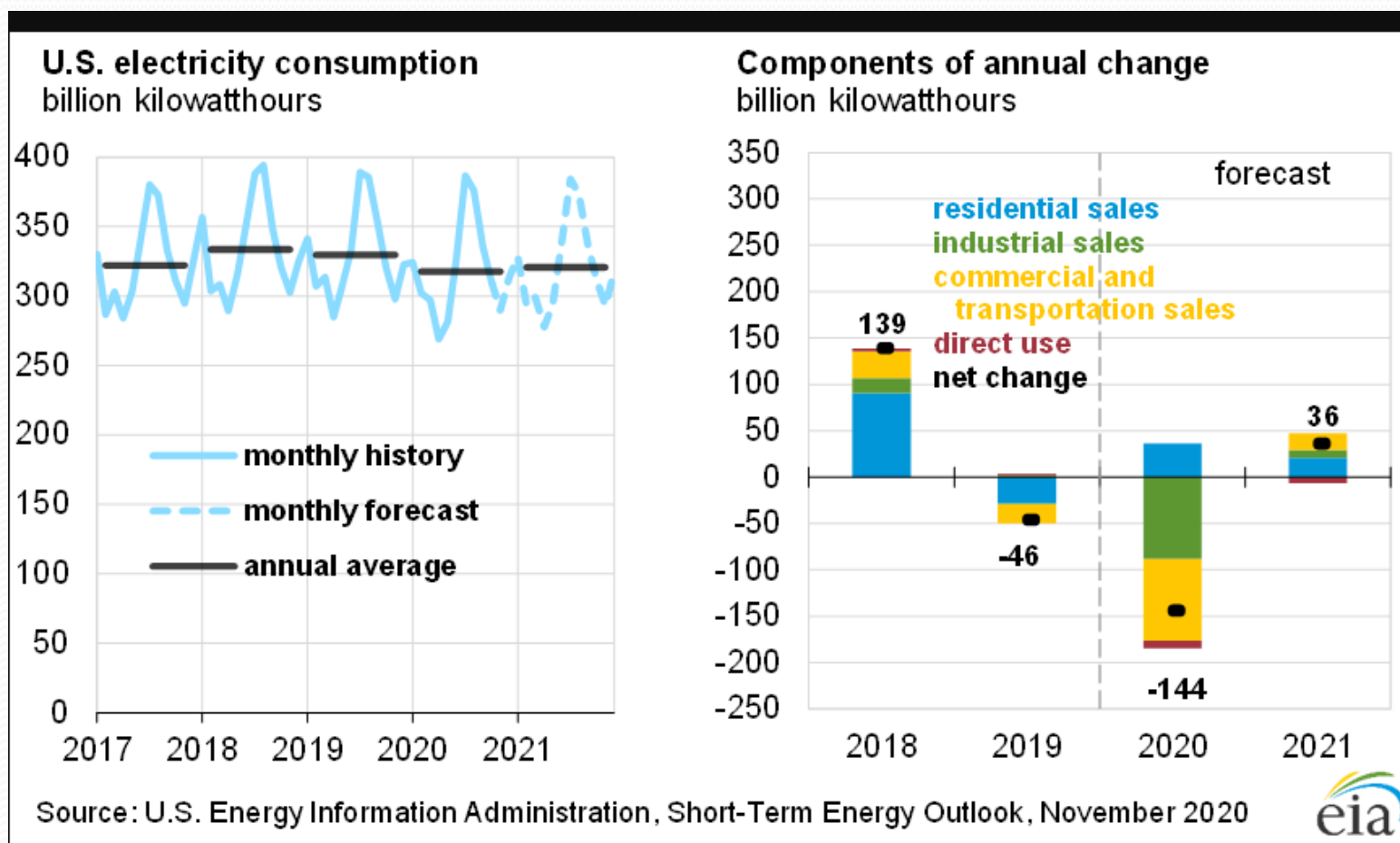


USA: Impact of COVID-19 on Renewable Energy Development

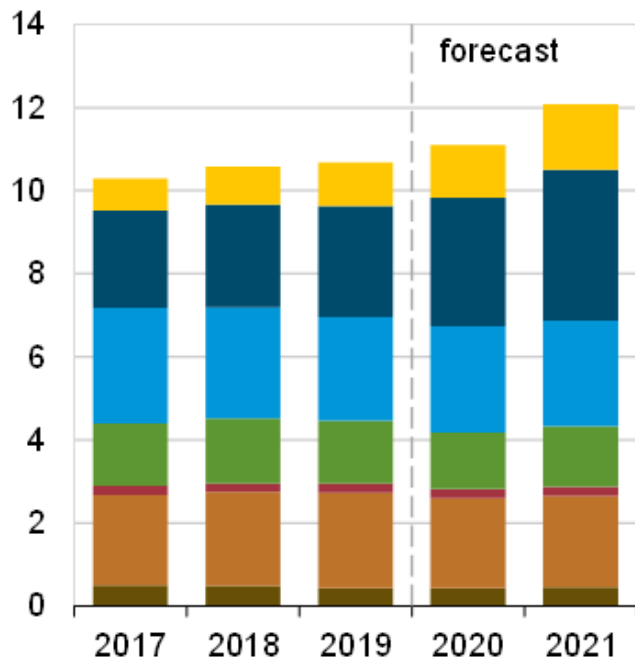
EGNRET-54
Philippines (Virtual)
November 10-11, 2020

US Covid-19 energy impacts: Electricity consumption

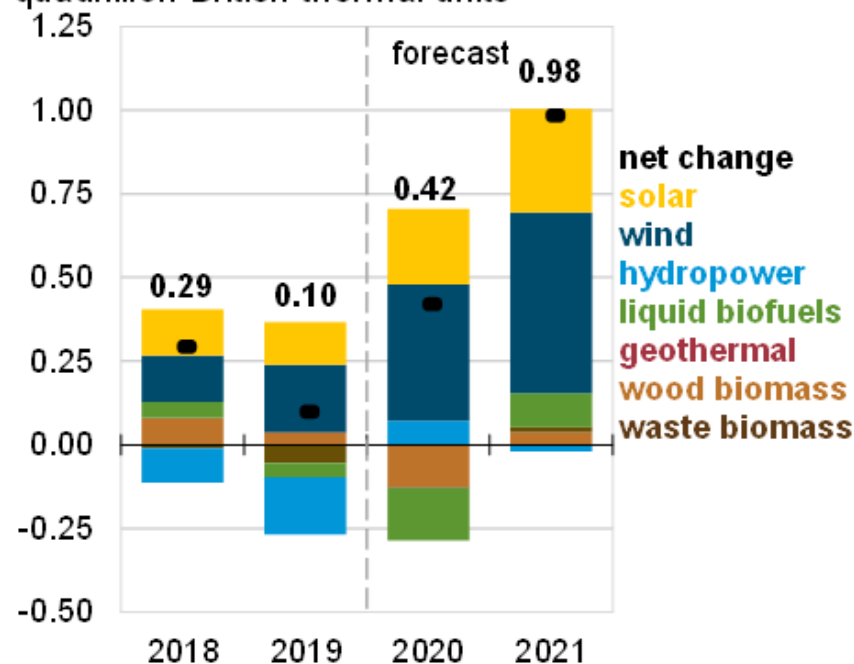


US Covid-19 energy impacts: Renewable energy production

U.S. renewable energy supply
quadrillion British thermal units



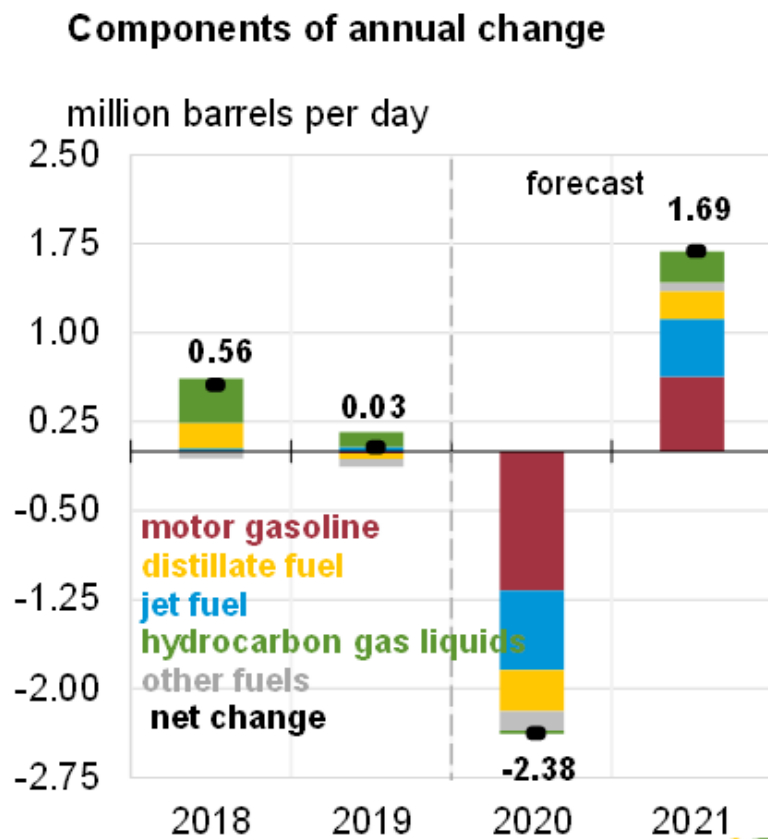
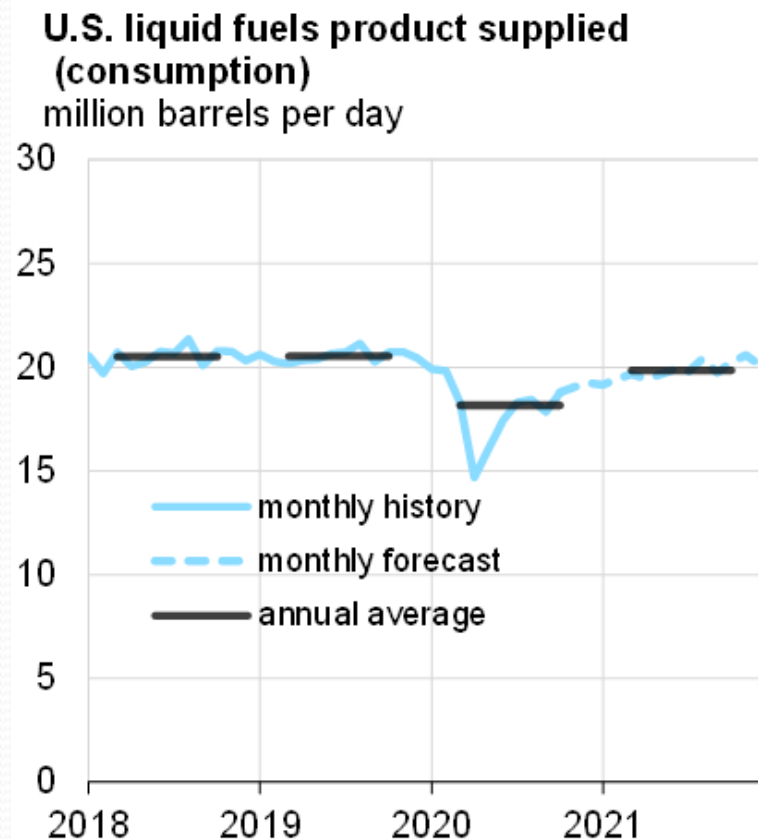
Components of annual change
quadrillion British thermal units



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



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 naphtha

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



Questions

?