



ASAP
(American Solar Action Plan)

PV-Wind Monthly Slideshow

January 2021

ASAP

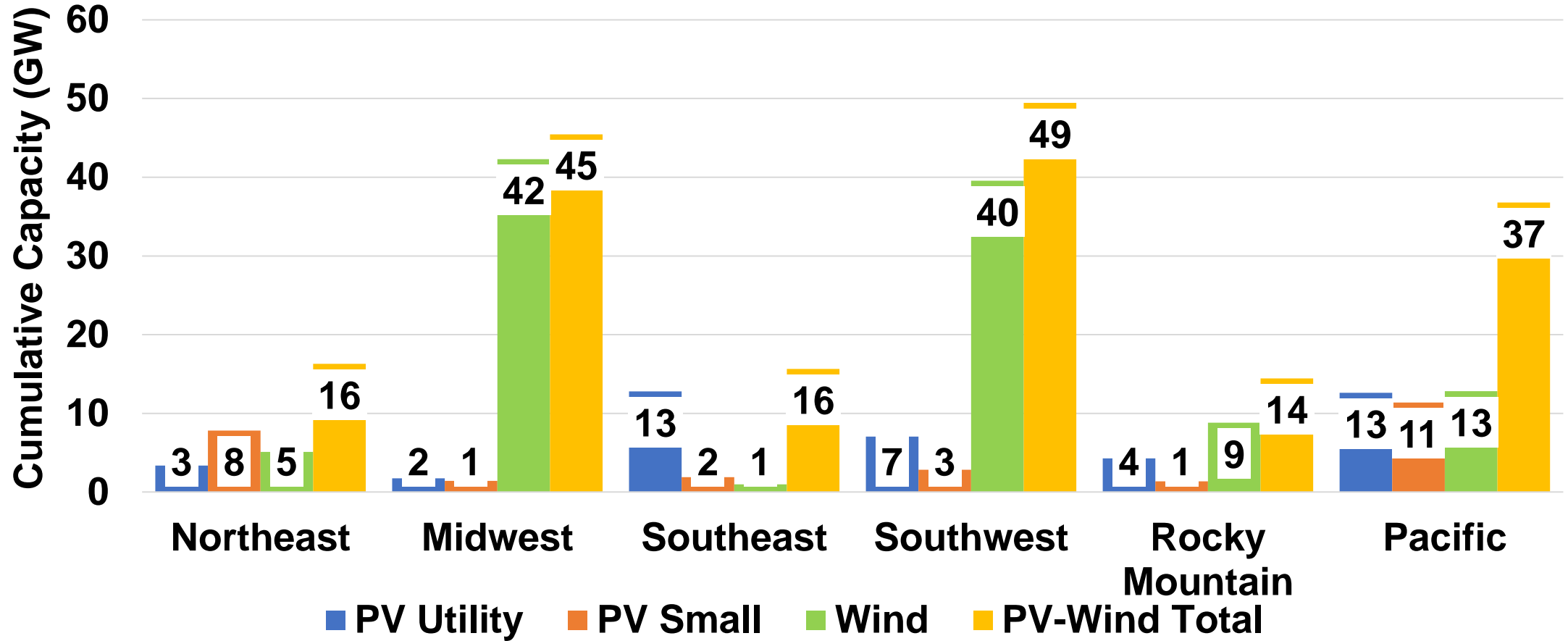
Website: www.solarplan.org

Contact: asap@solarplan.org



PV and Wind Capacity and Capacity Growth

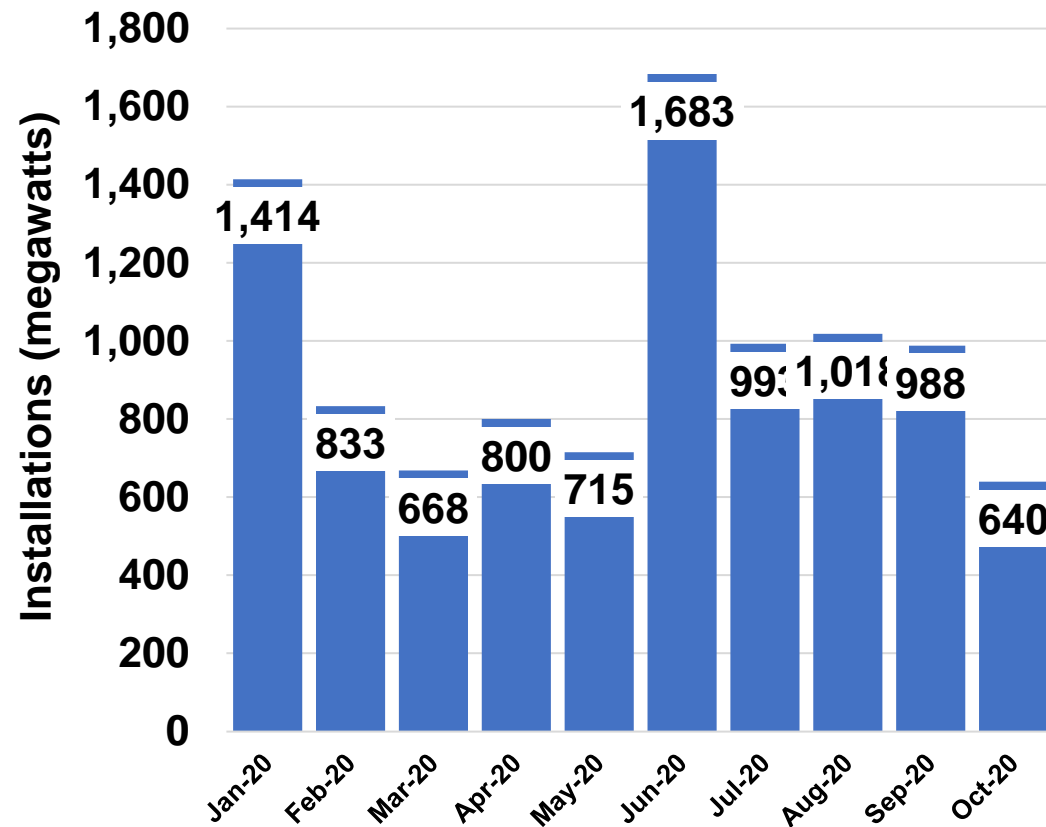
PV and Wind Cumulative Capacity by Region Through October 2020



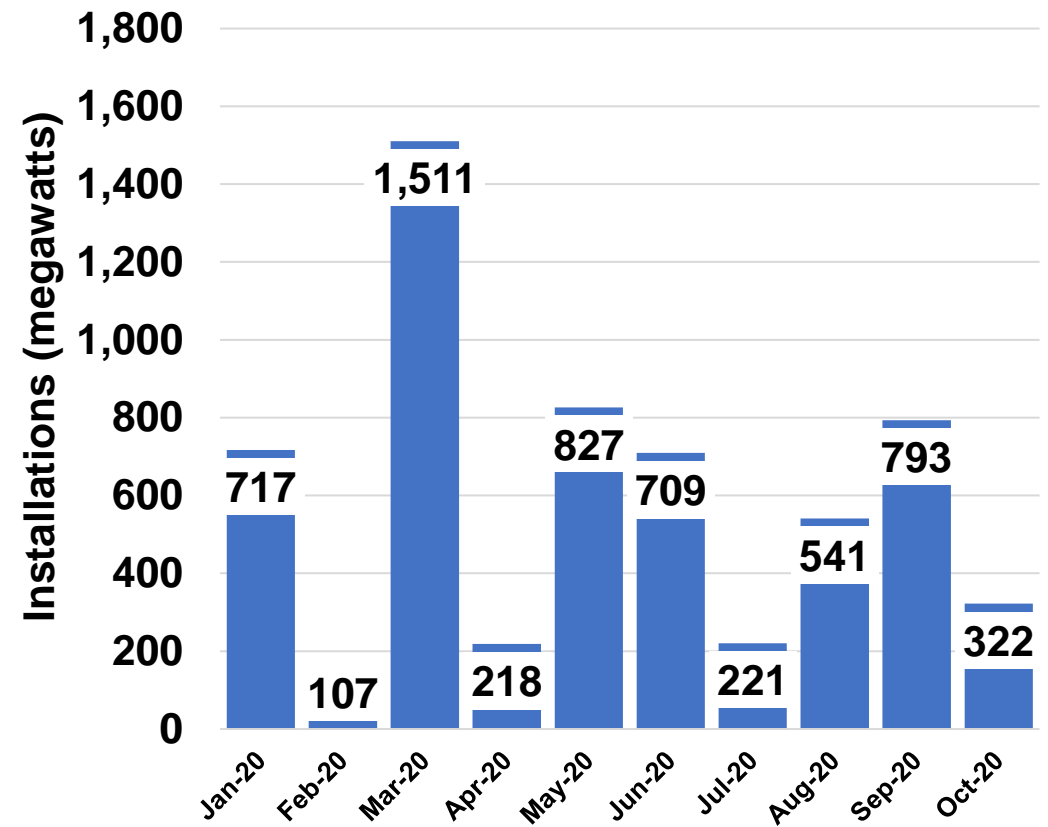
2020 – Net Monthly PV and Wind Installations (New Installations minus Removed from Service)



Monthly Total PV Installations



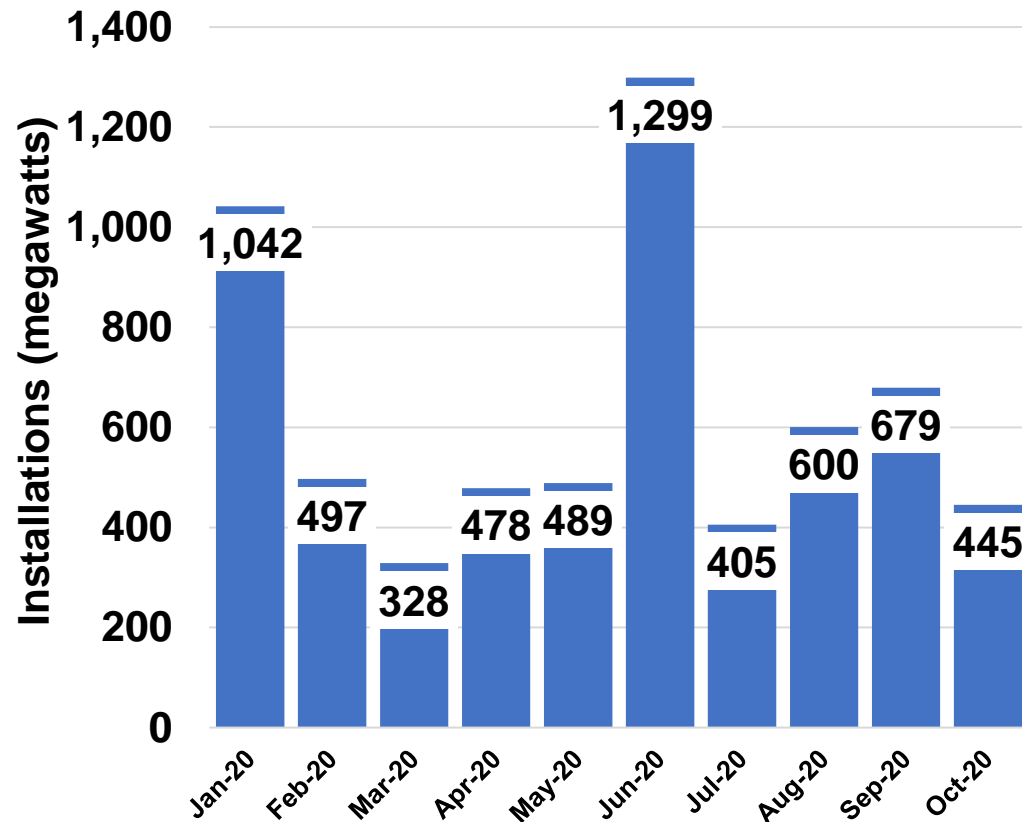
Monthly Wind Installations



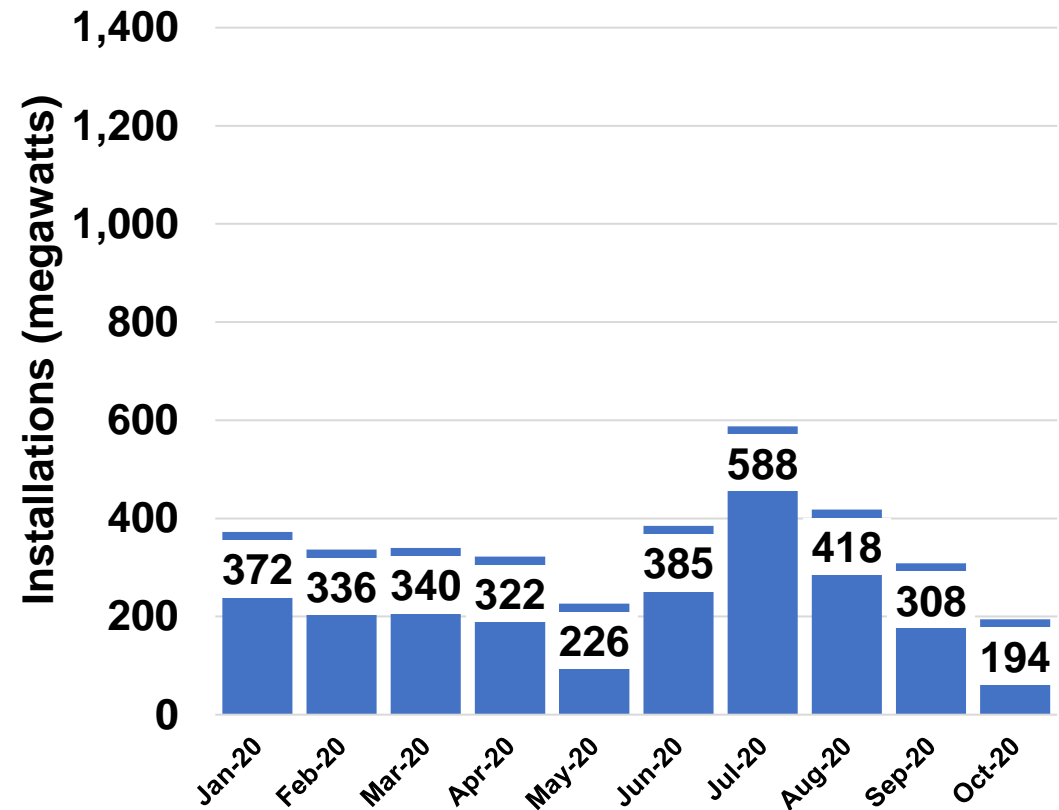
2020 – Net Monthly PV Installations (New Installations minus Removed from Service)



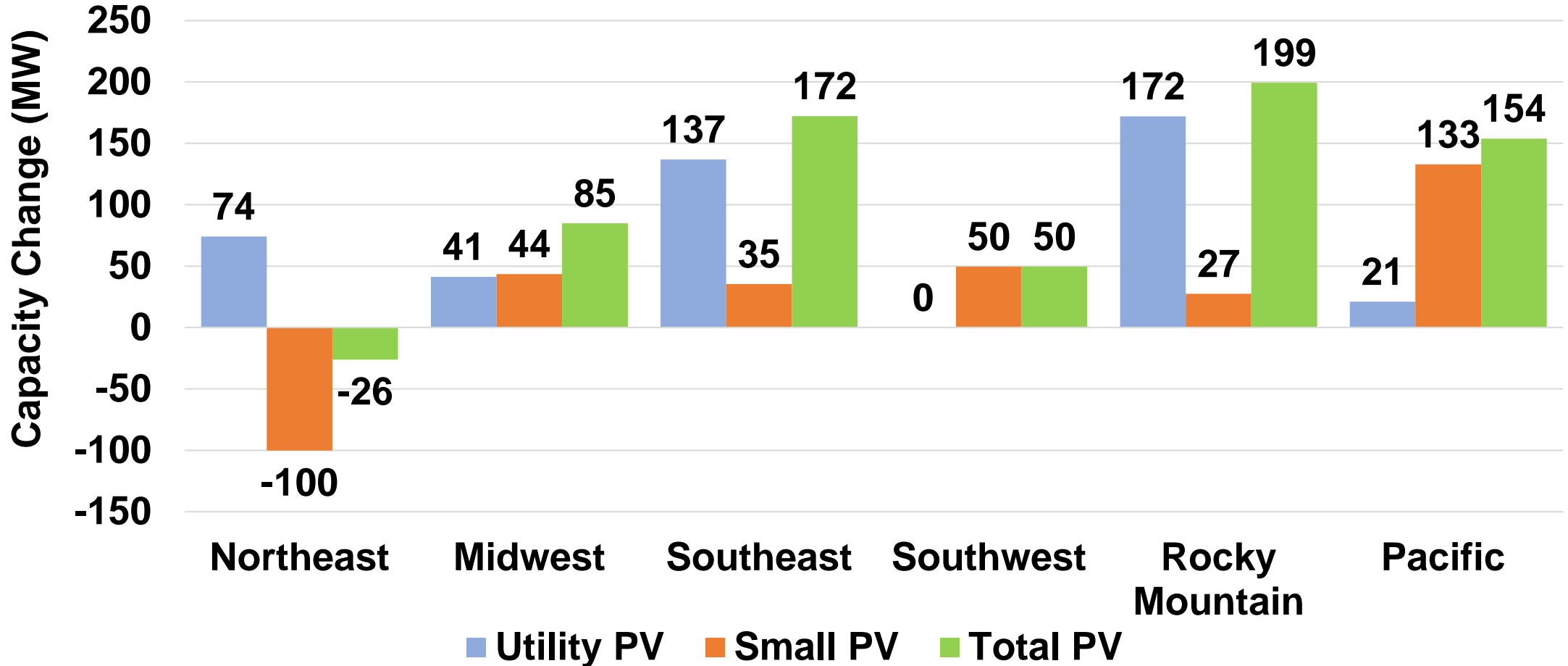
Utility PV Installations



Small PV Installations

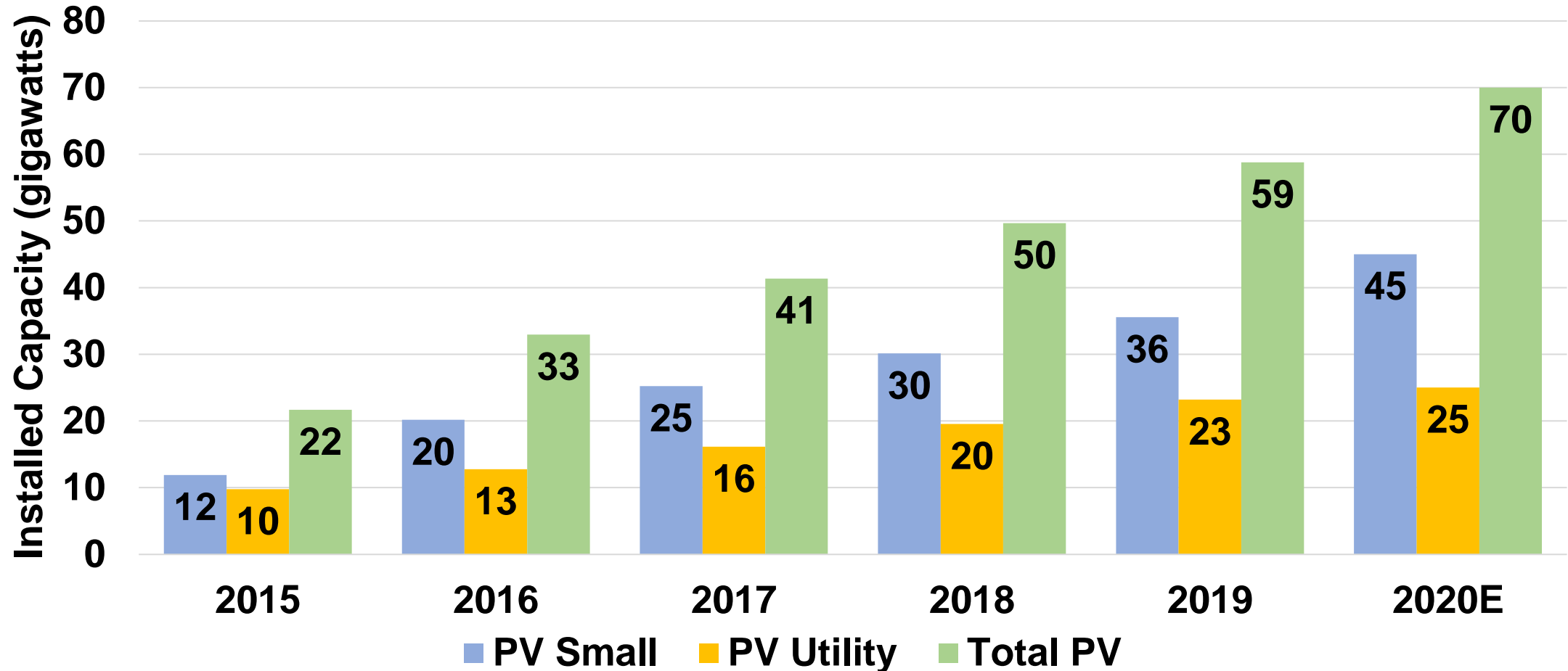


Regional PV - Net Capacity Additions October 2020



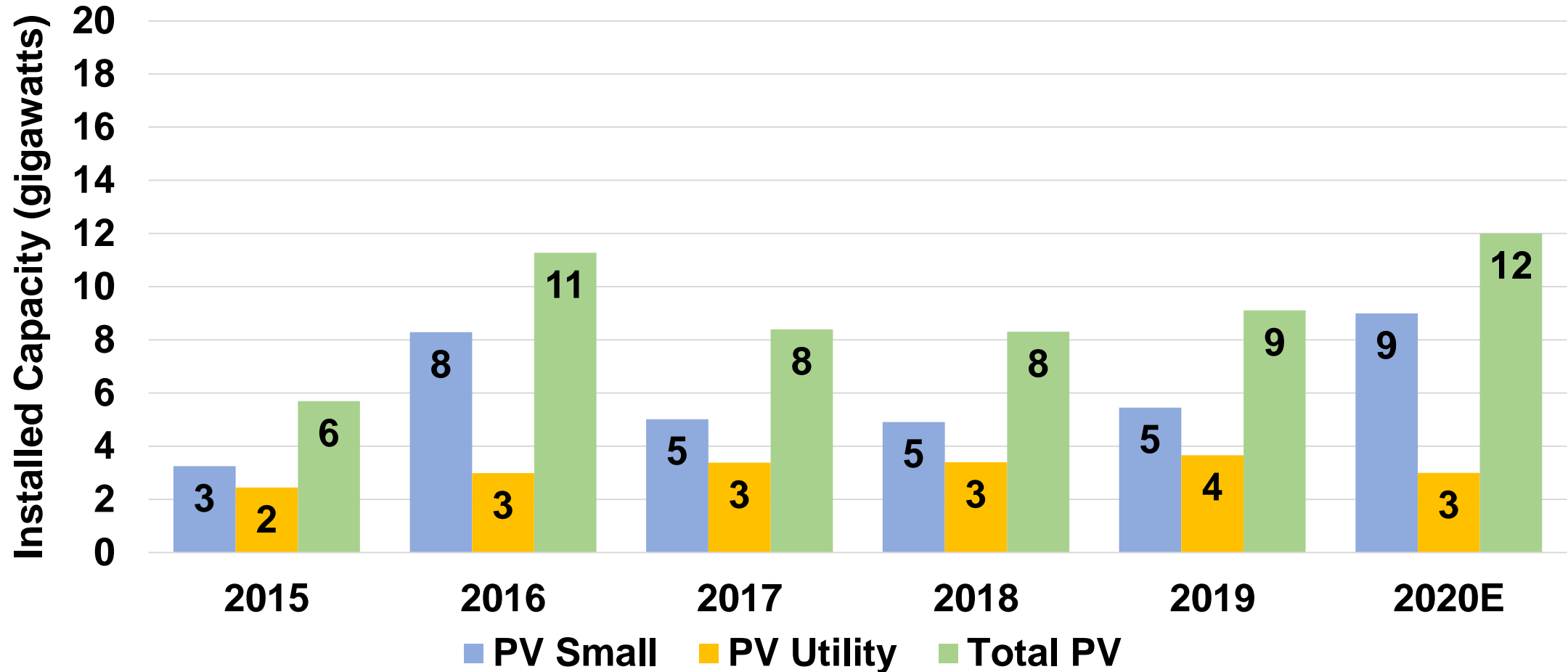
PV Cumulative Installed Capacity – 2020 Forecast

Small PV, Utility PV and Total PV

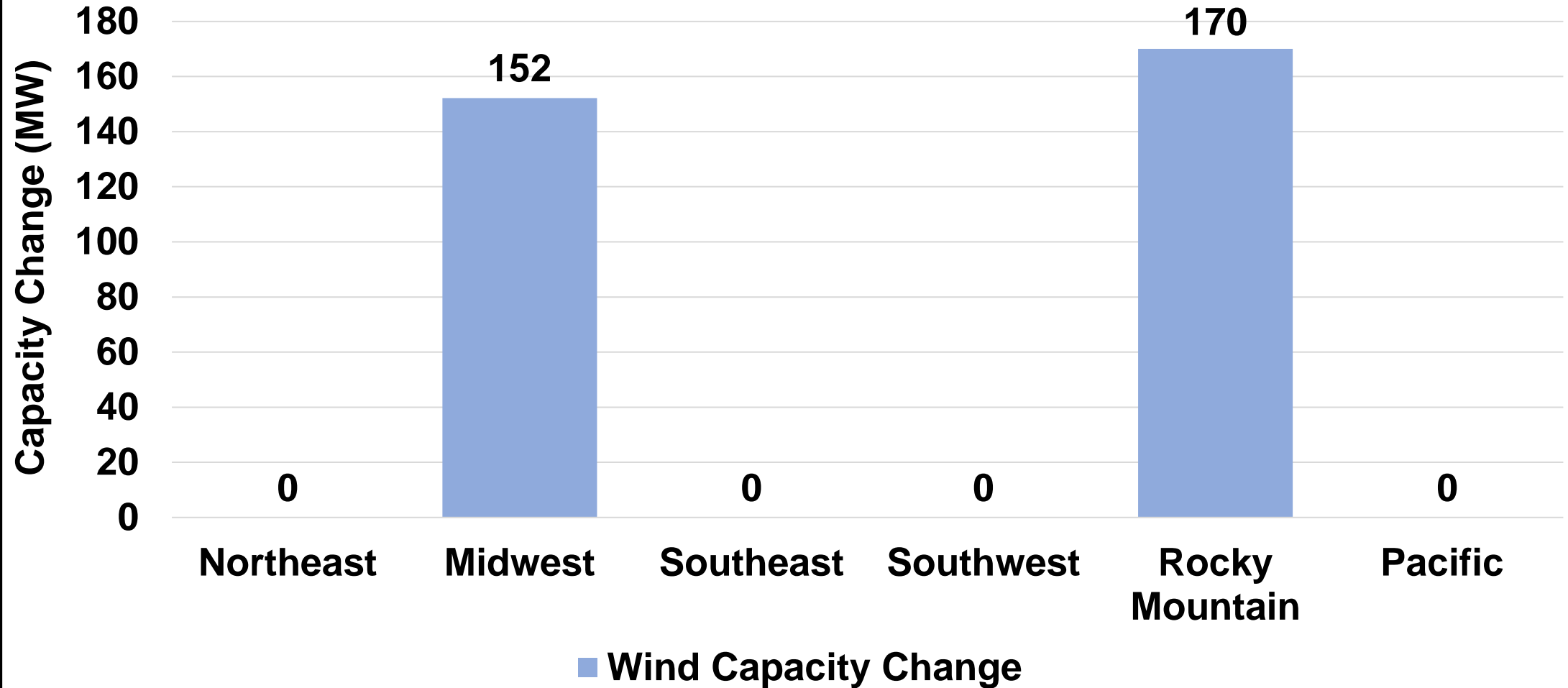


Annual Growth – PV Installed Capacity – 2020 Forecast

Small PV, Utility PV and Total PV

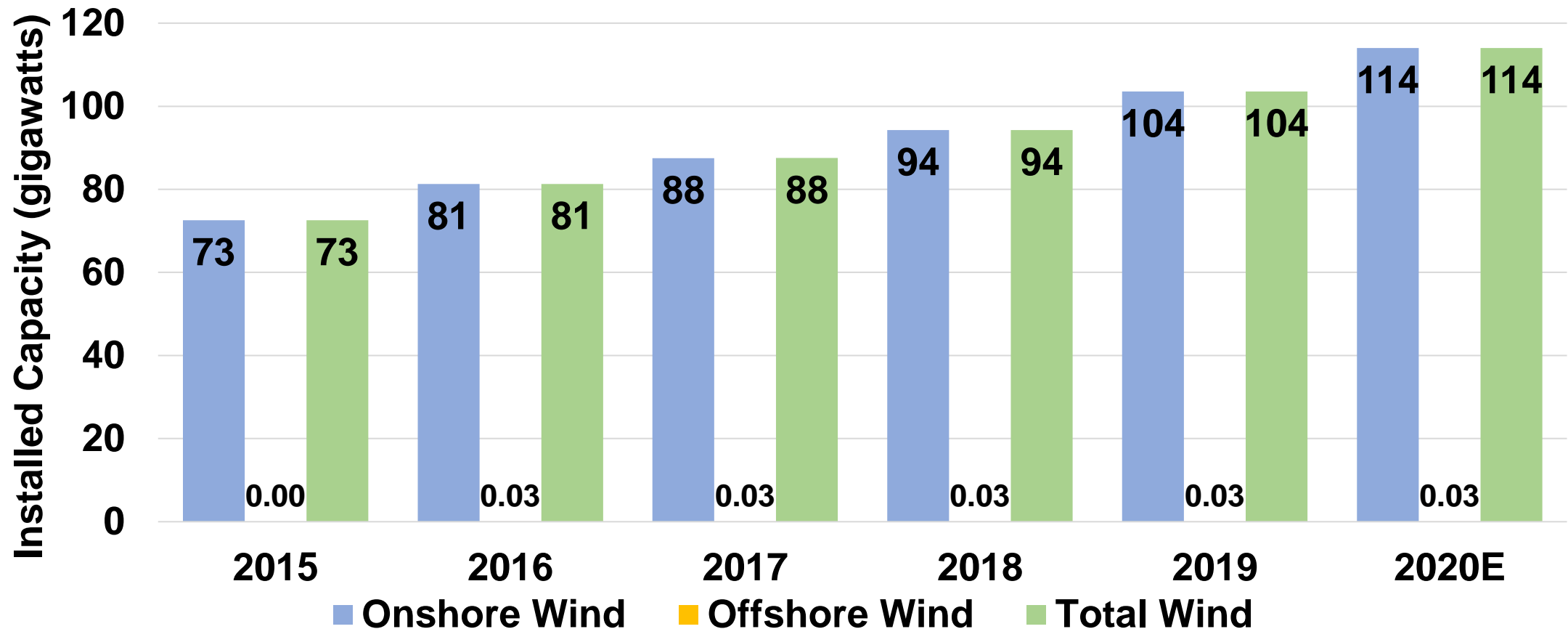


Regional Wind – Net Capacity Additions October 2020



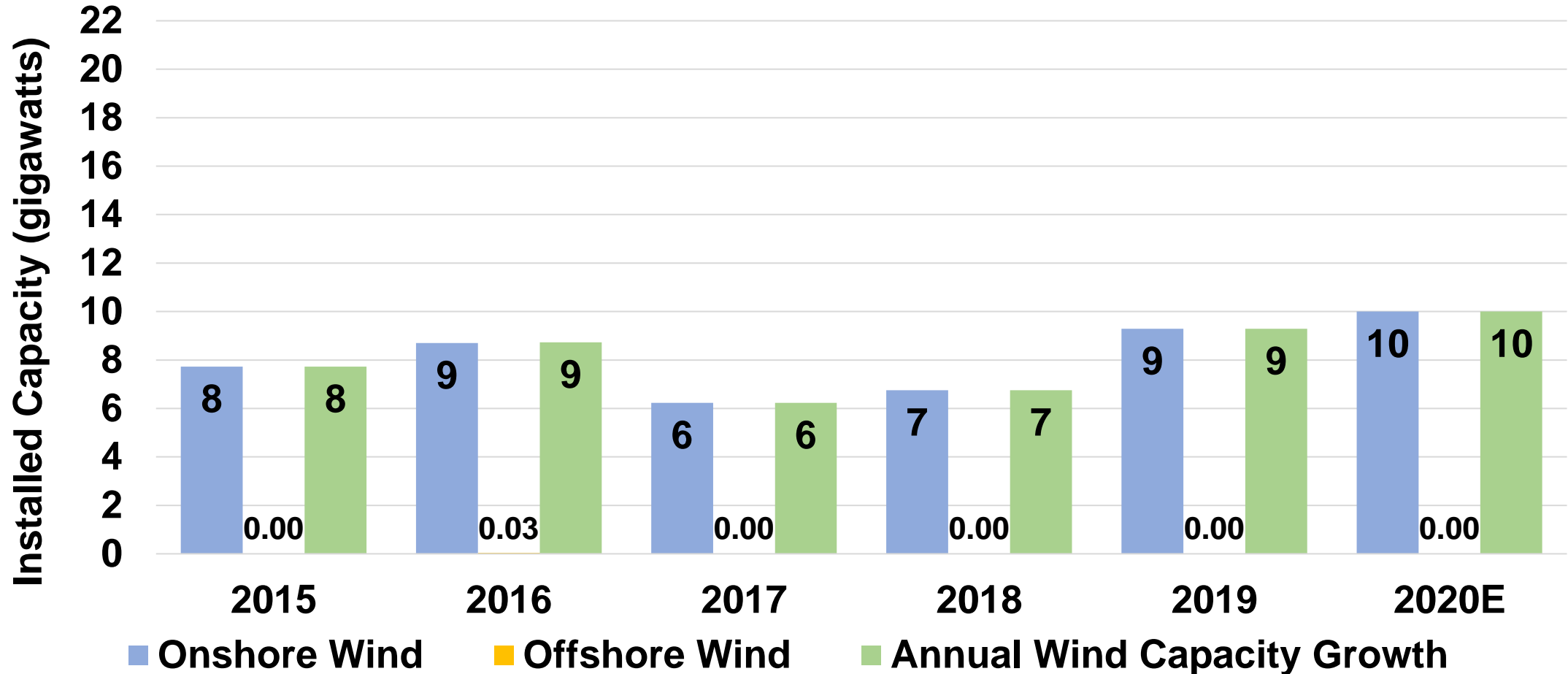
Wind Installed Capacity – 2020 Forecast

Wind Onshore, Wind Offshore and Total Wind



Annual Growth – Wind Installed Capacity – 2020 Forecast

Wind Onshore, Wind Offshore and Total Wind

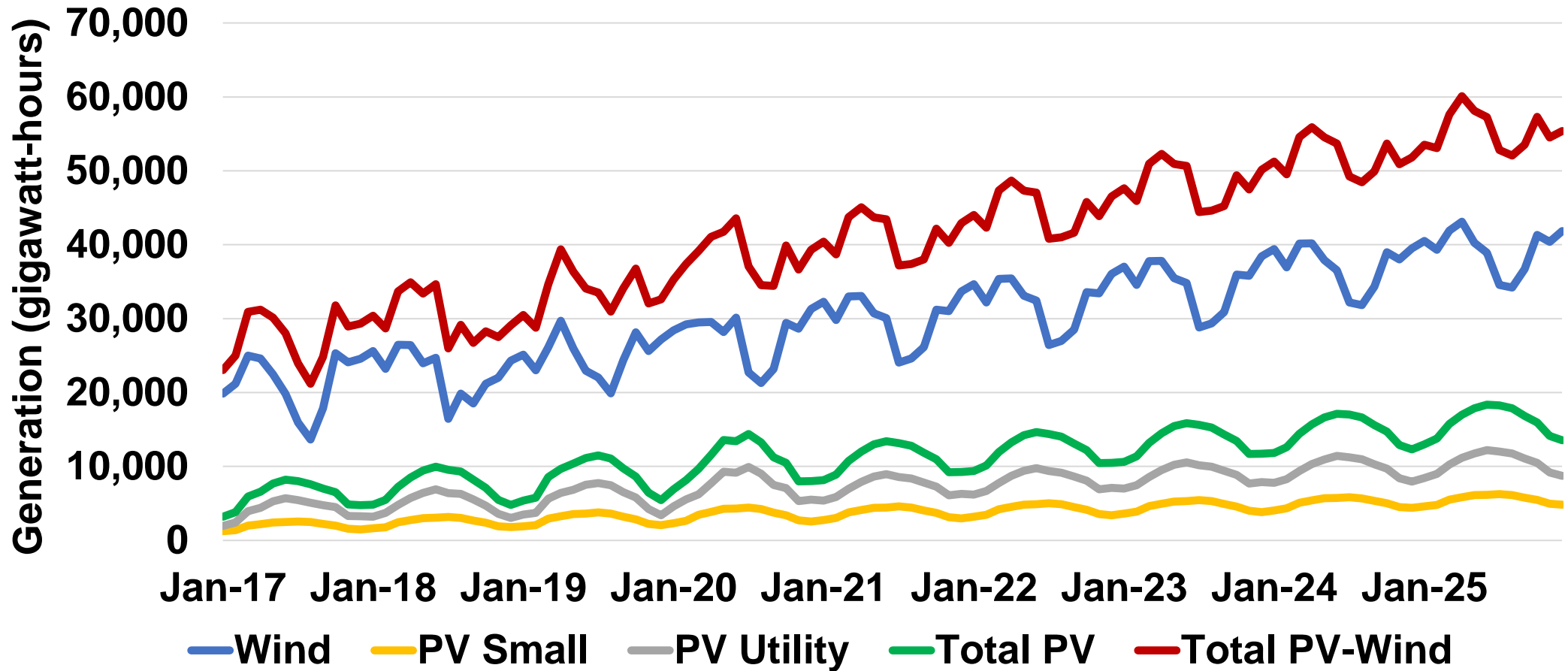




U.S. PV and Wind Electricity Supply

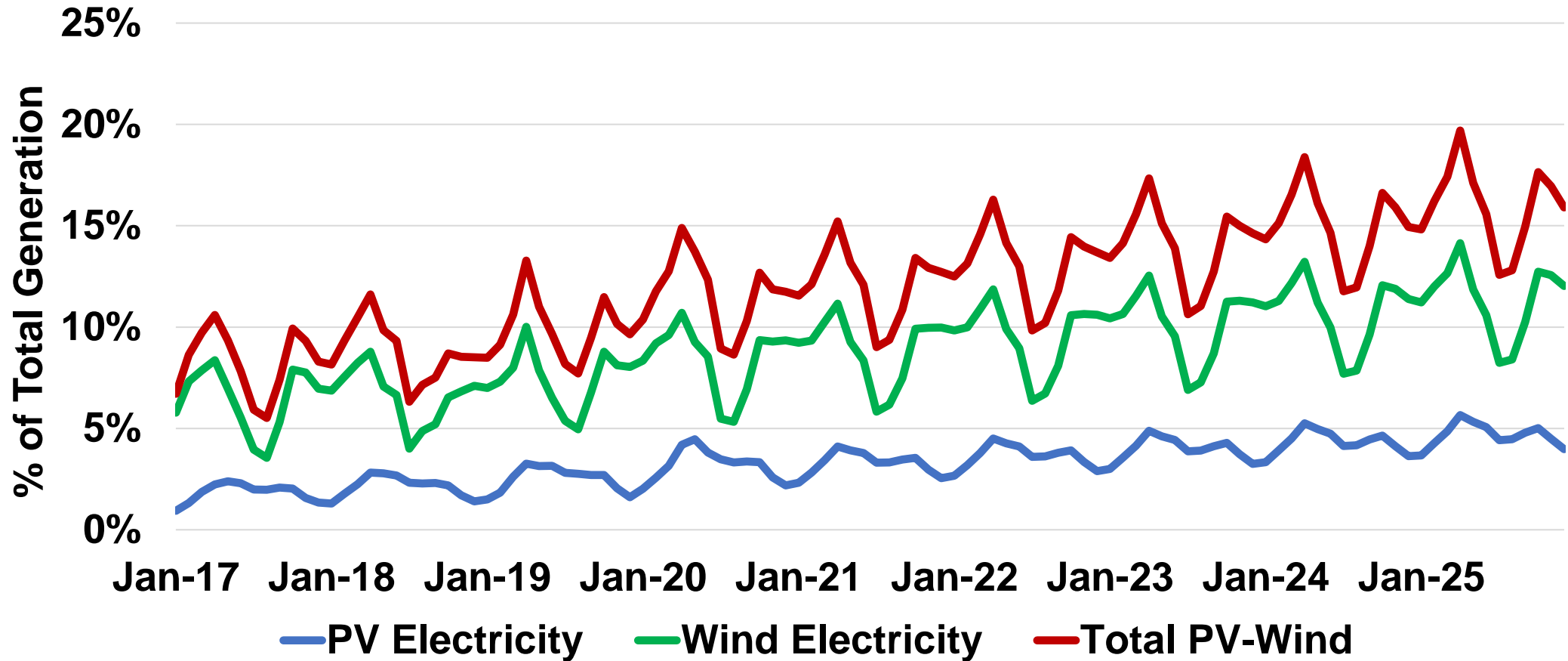
U.S. PV & Wind Electricity Generation

Actual through October 2020; Forecast through Dec. 2025



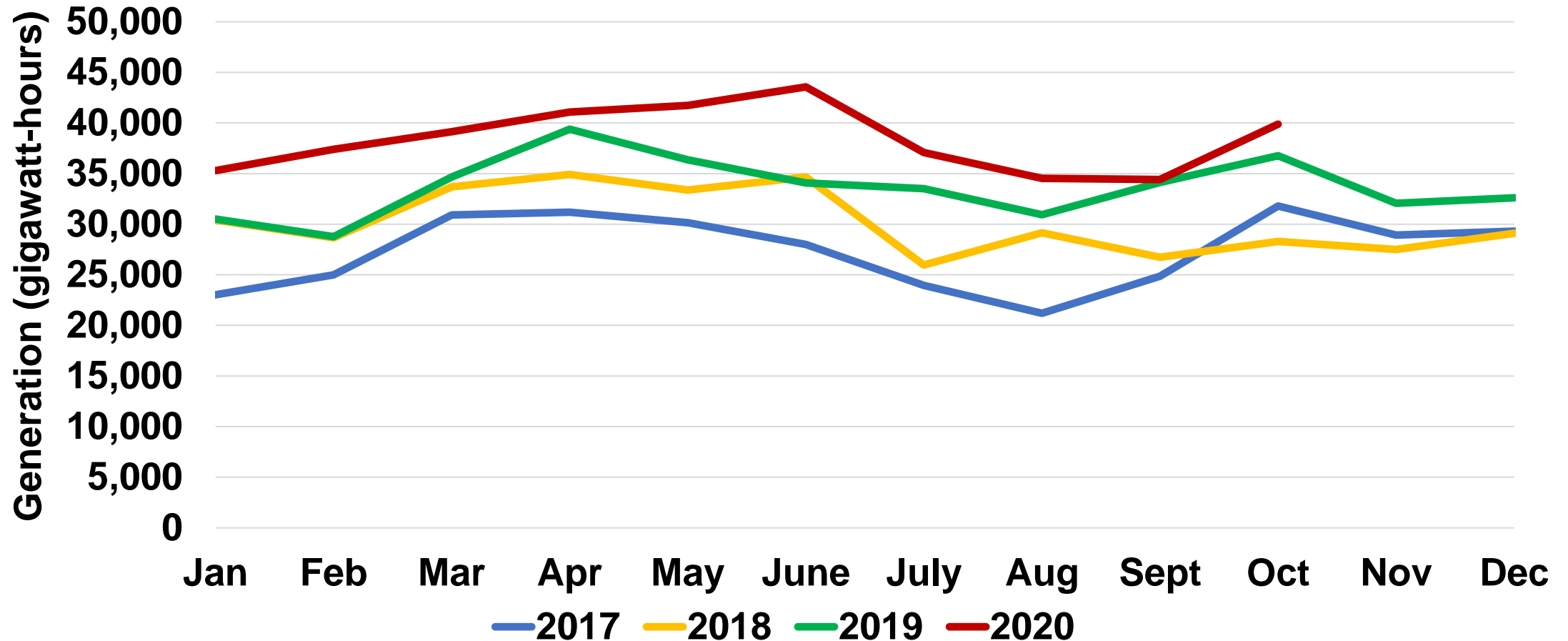
Note: PV Small is less than 1.0 MW; PV Utility is 1.0 MW and greater

U.S. PV & Wind Electricity as % of Total Generation Actual through October 2020; Forecast through Dec. 2025

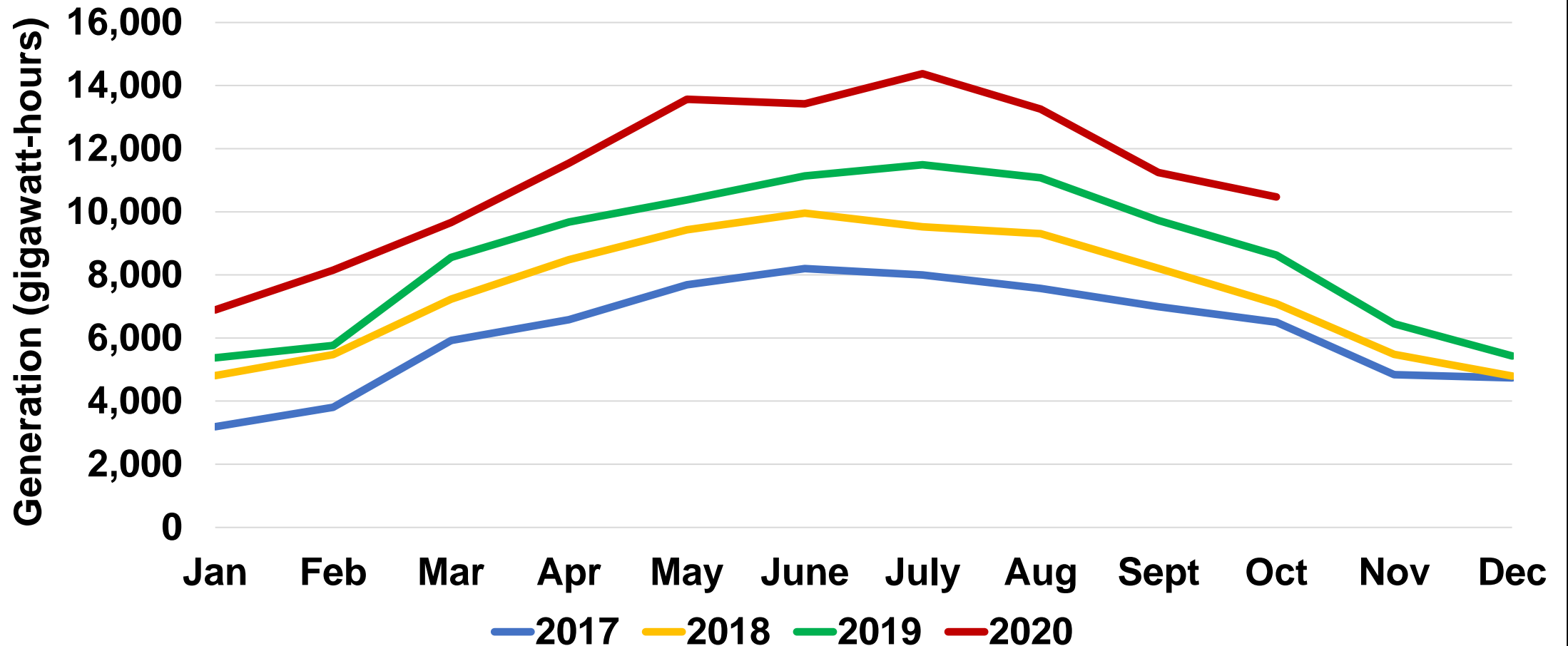


Note: Fossil fuel electricity generation was 62% of total 2019 electricity generation.

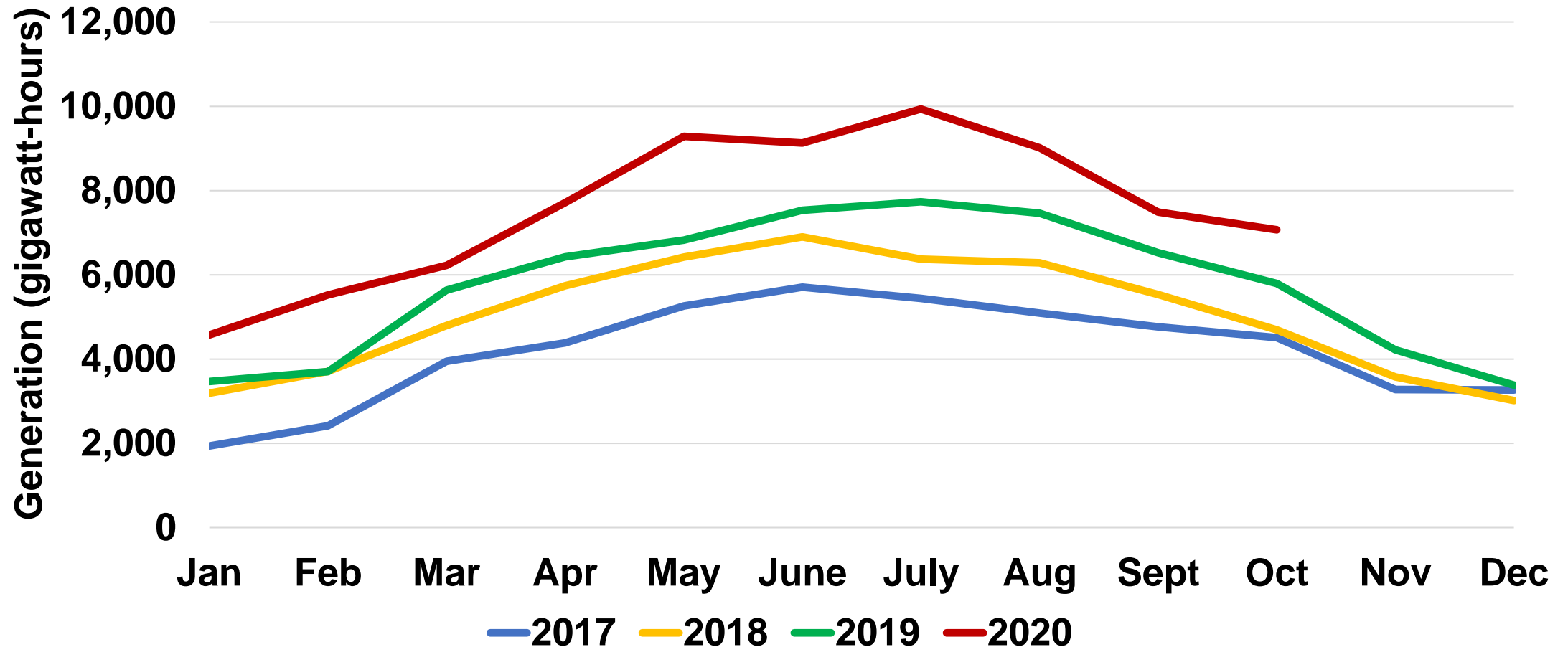
Combined PV and Wind Electricity Generation Year-on-Year (through October 2020)



PV Electricity Generation Year-on-Year (through October 2020)

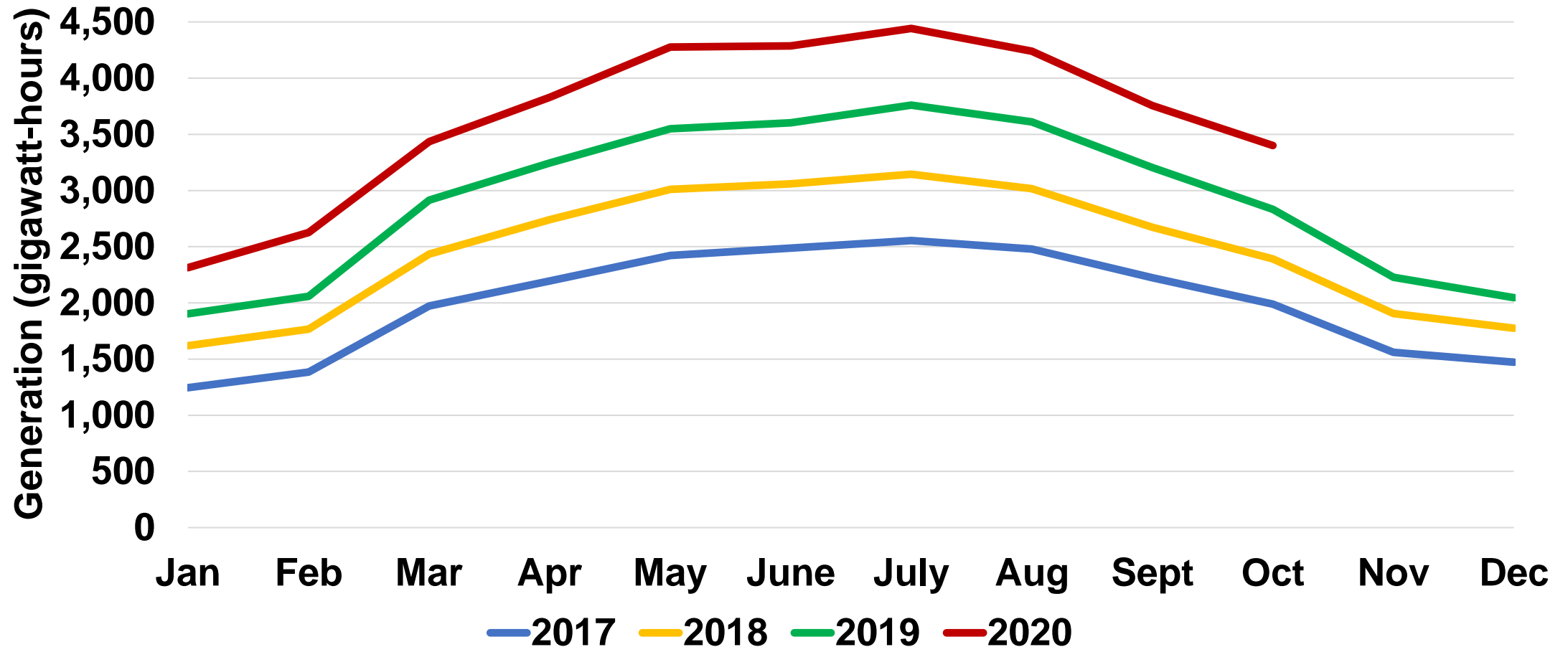


Utility PV Electricity Generation Year-on-Year (through October 2020)



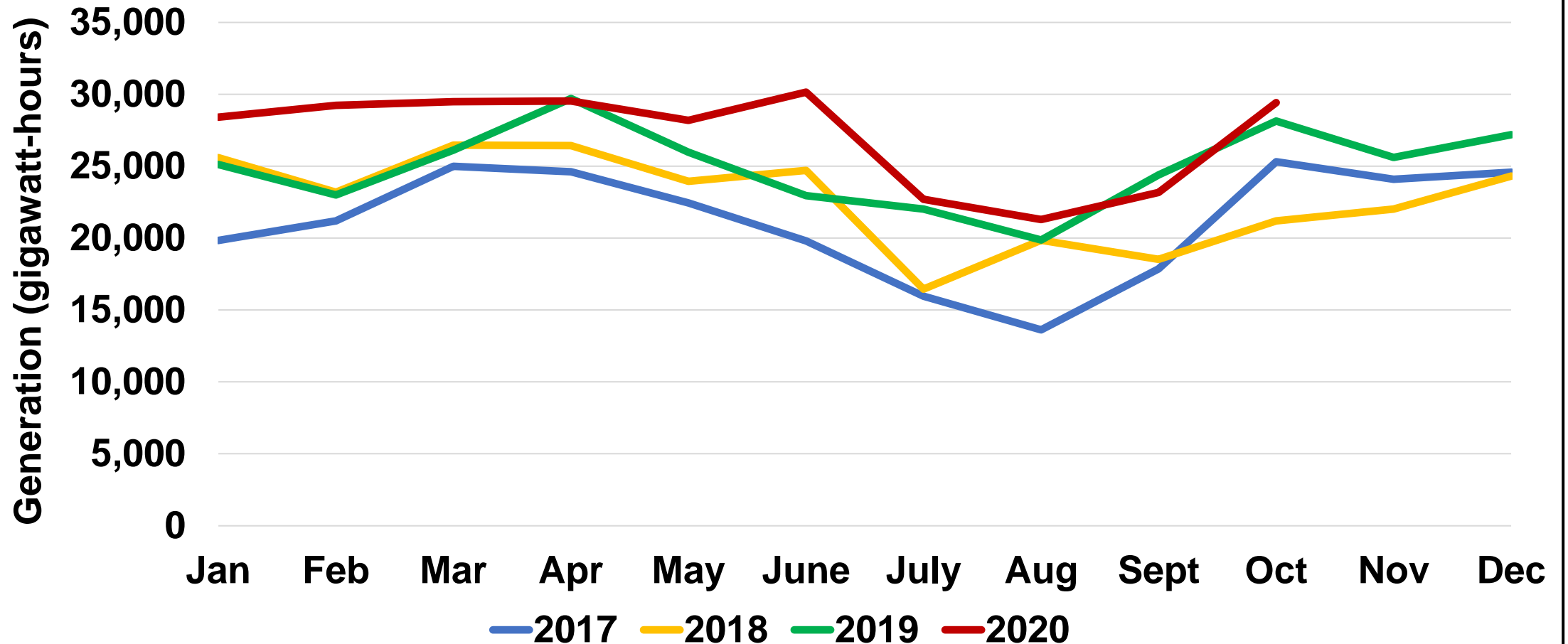
Note: PV Utility is greater than 1.0 MW

Small PV Electricity Generation Year-on-Year (through October 2020)

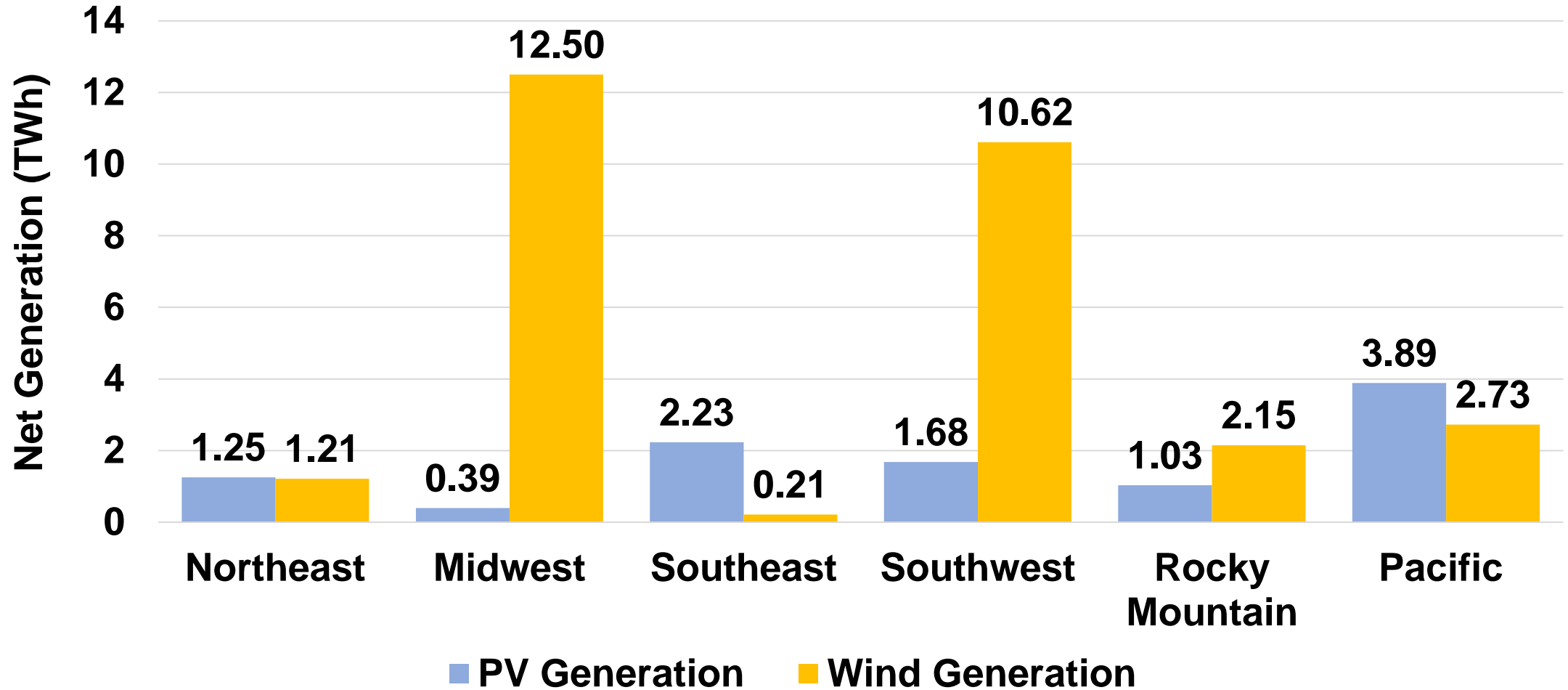


Note: PV Small is less than 1.0 MW

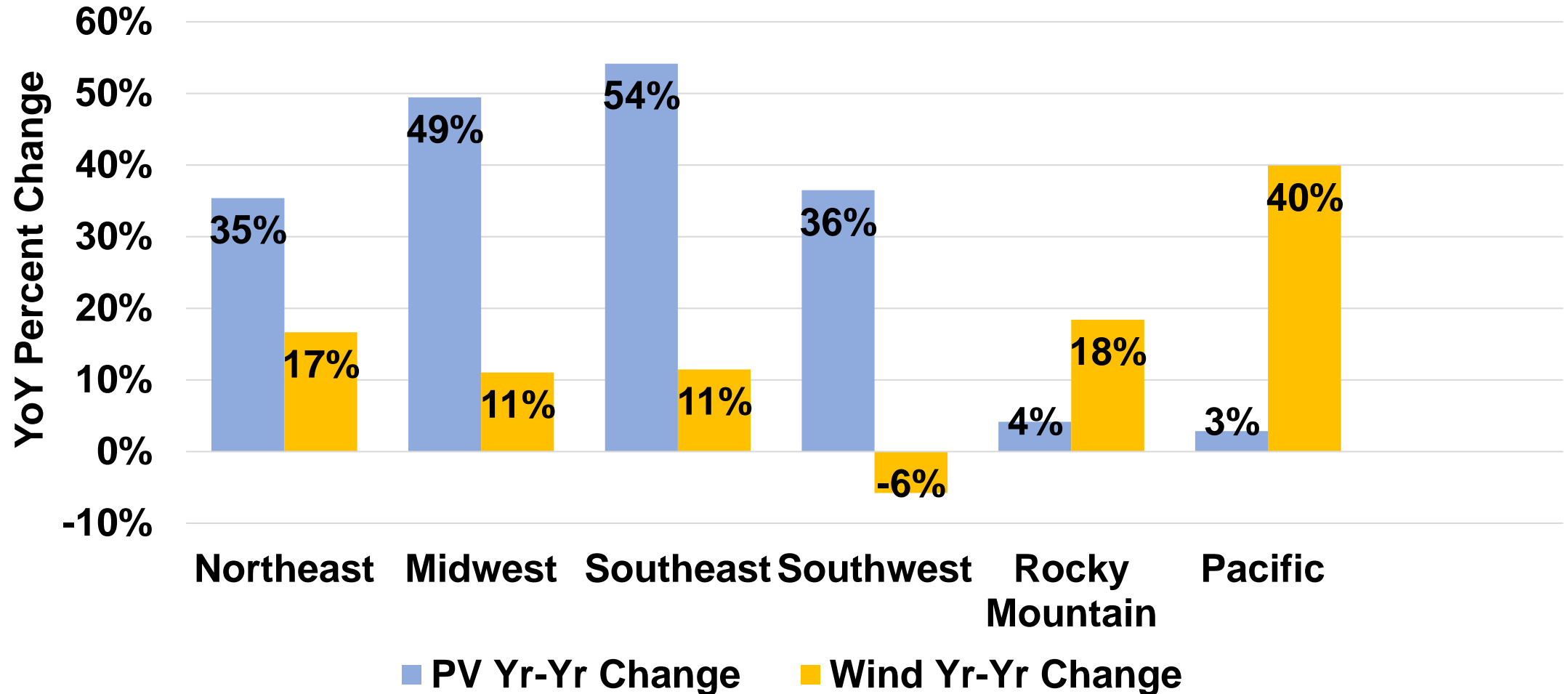
Wind Electricity Generation Year-on-Year (through October 2020)



Regional PV & Wind Electricity Generation October 2020



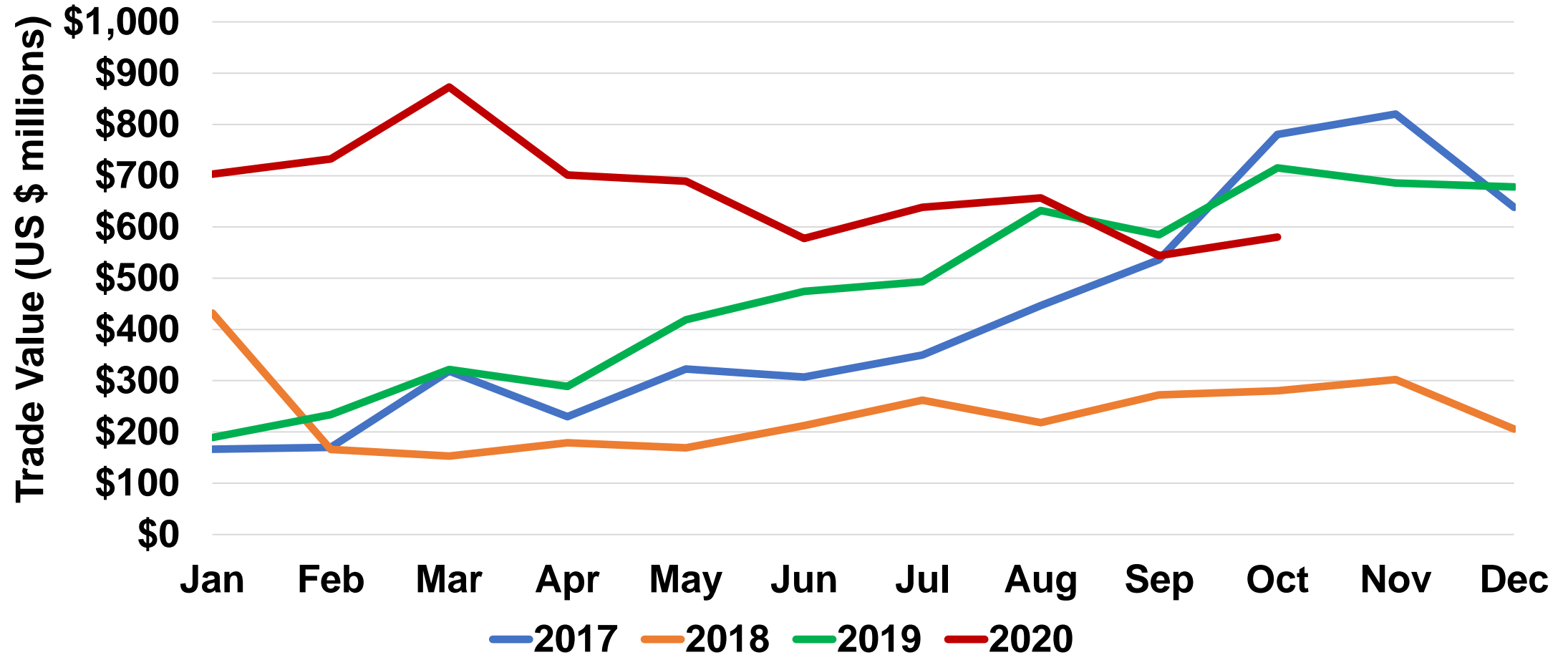
Regional PV & Wind Electricity Generation Year-on-Year Change (October 2019 – October 2020)



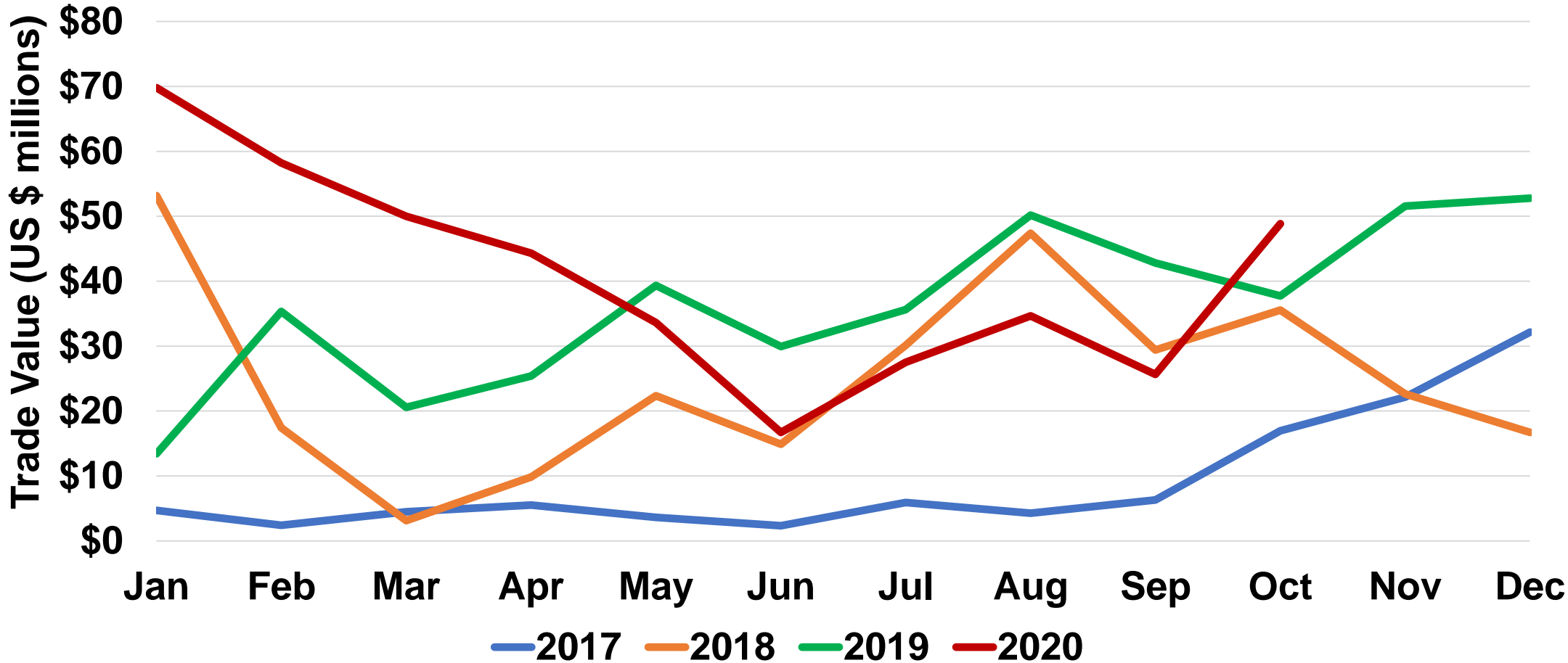


U.S. PV Trade (Cells and Panels)

U.S. Year-on-Year PV Panel Imports Year-on-Year (through October 2020)



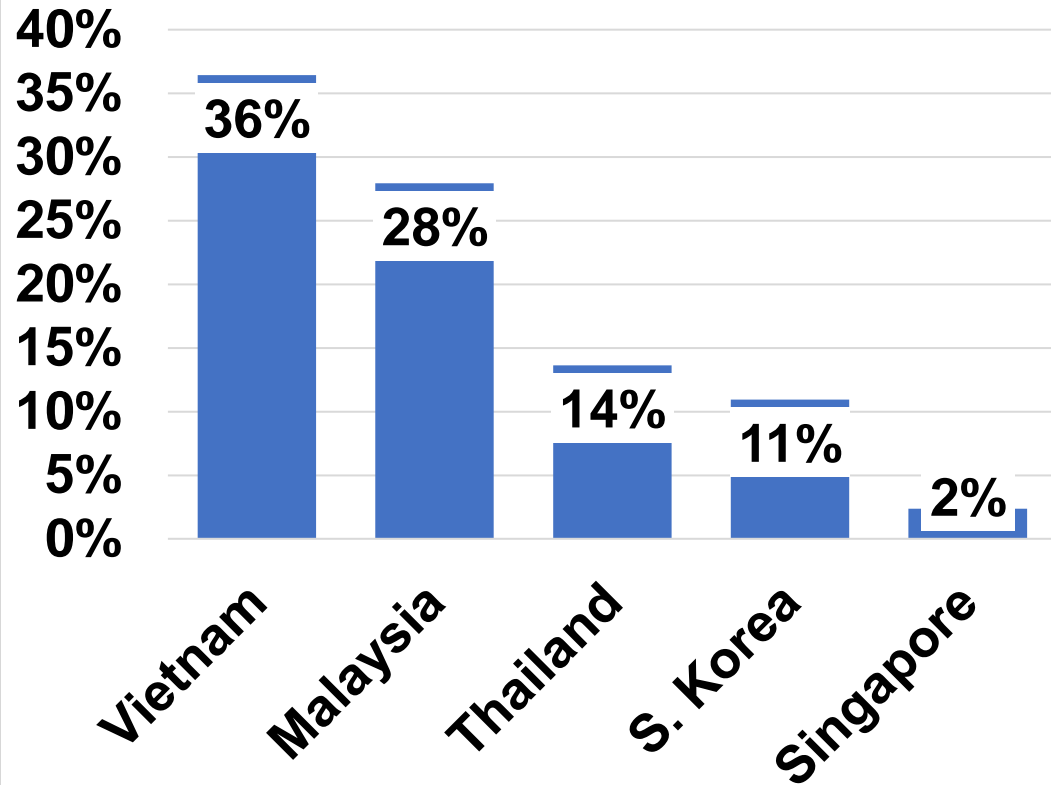
U.S. Year-on-Year PV Cell Imports Year-on-Year (through October 2020)



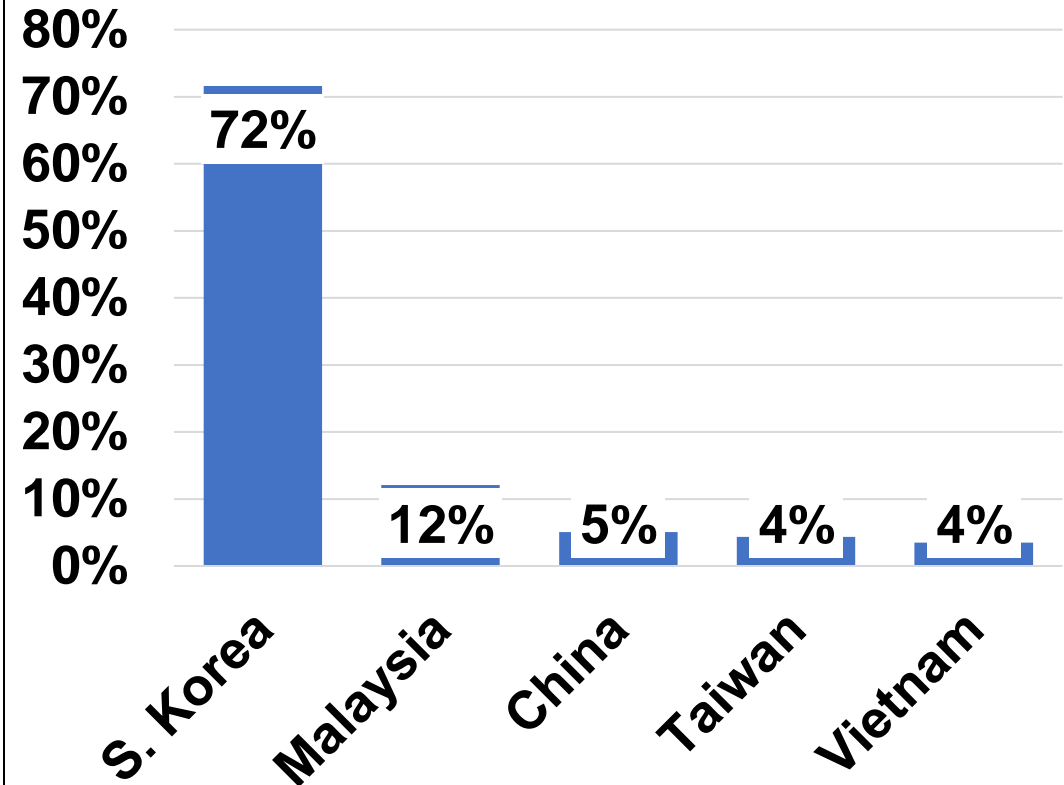
Monthly U.S. PV Panel and Cell Imports by Country October 2020



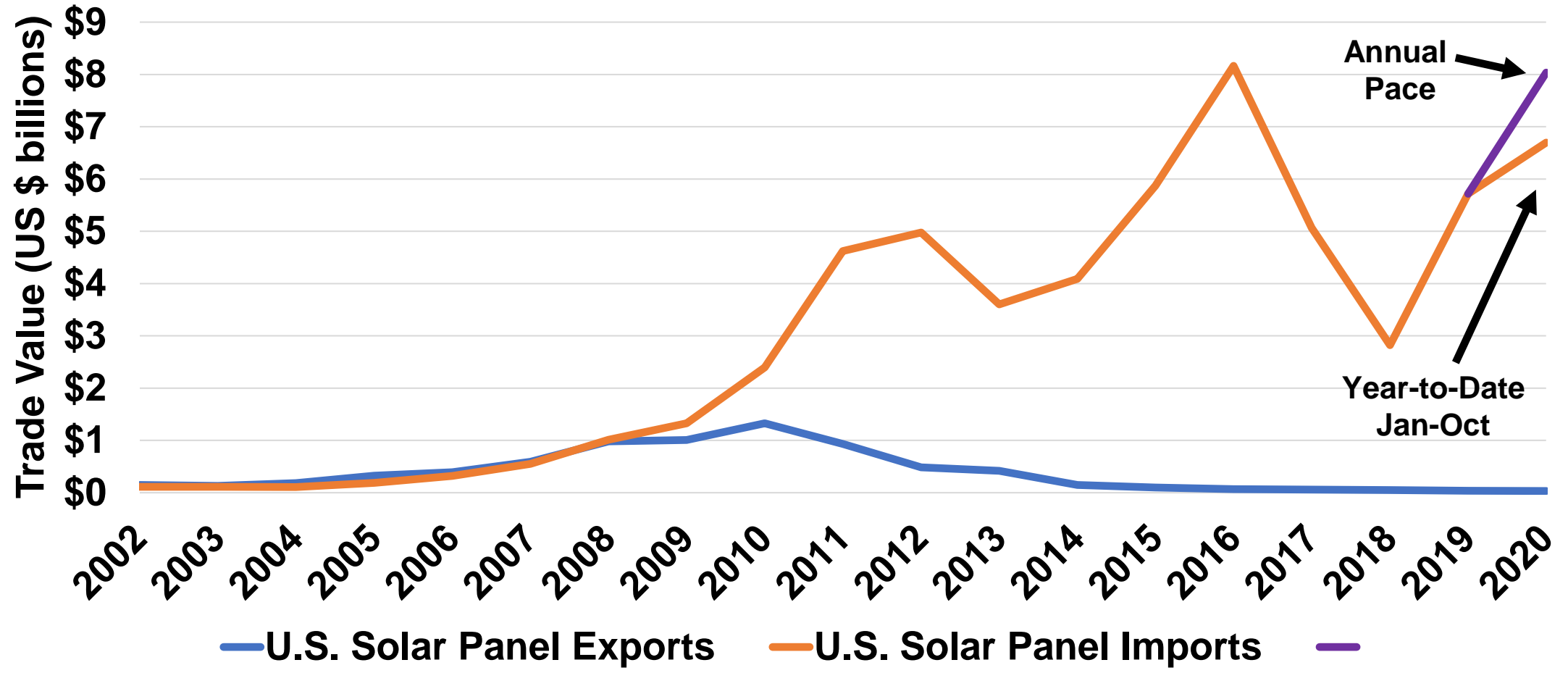
U.S. PV Panel Imports by Country



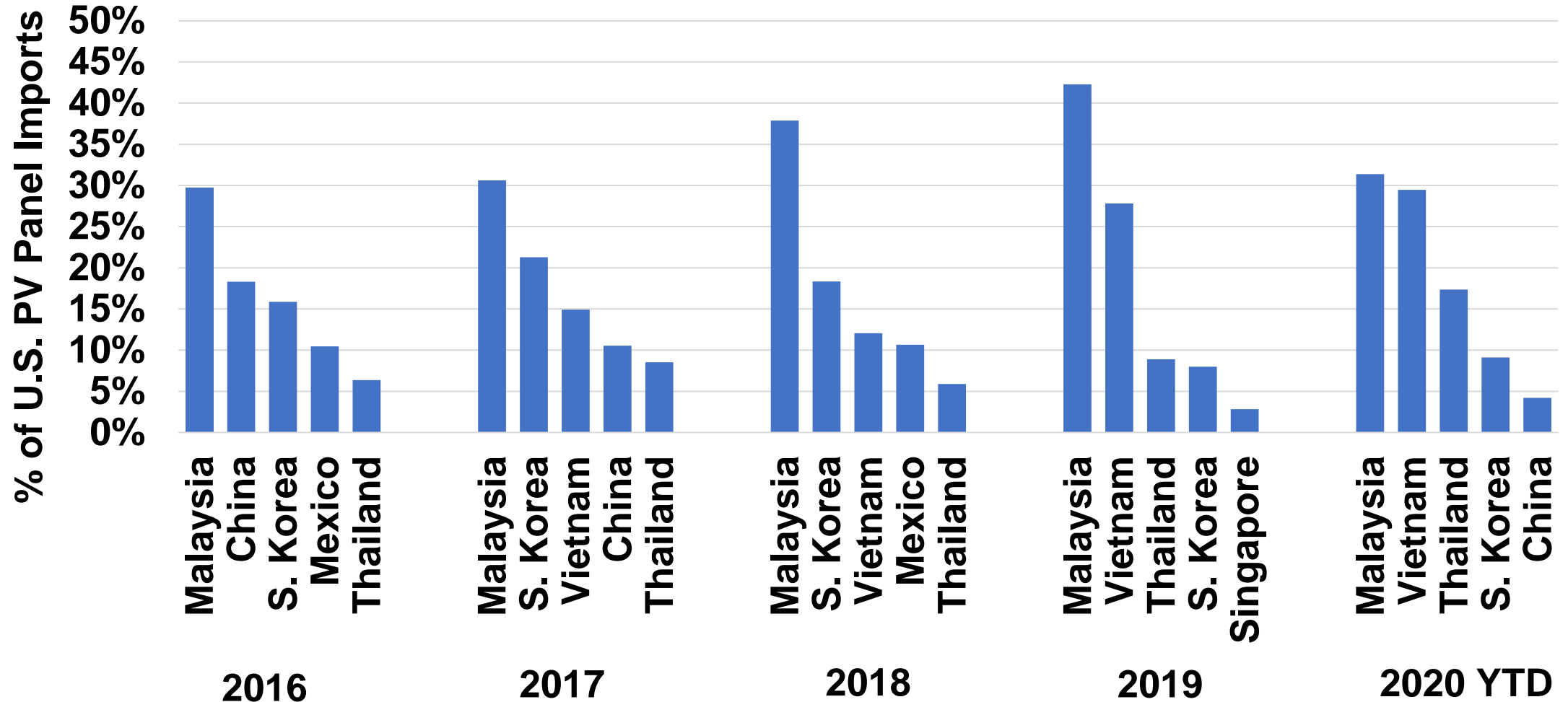
U.S. PV Cell Imports by Country



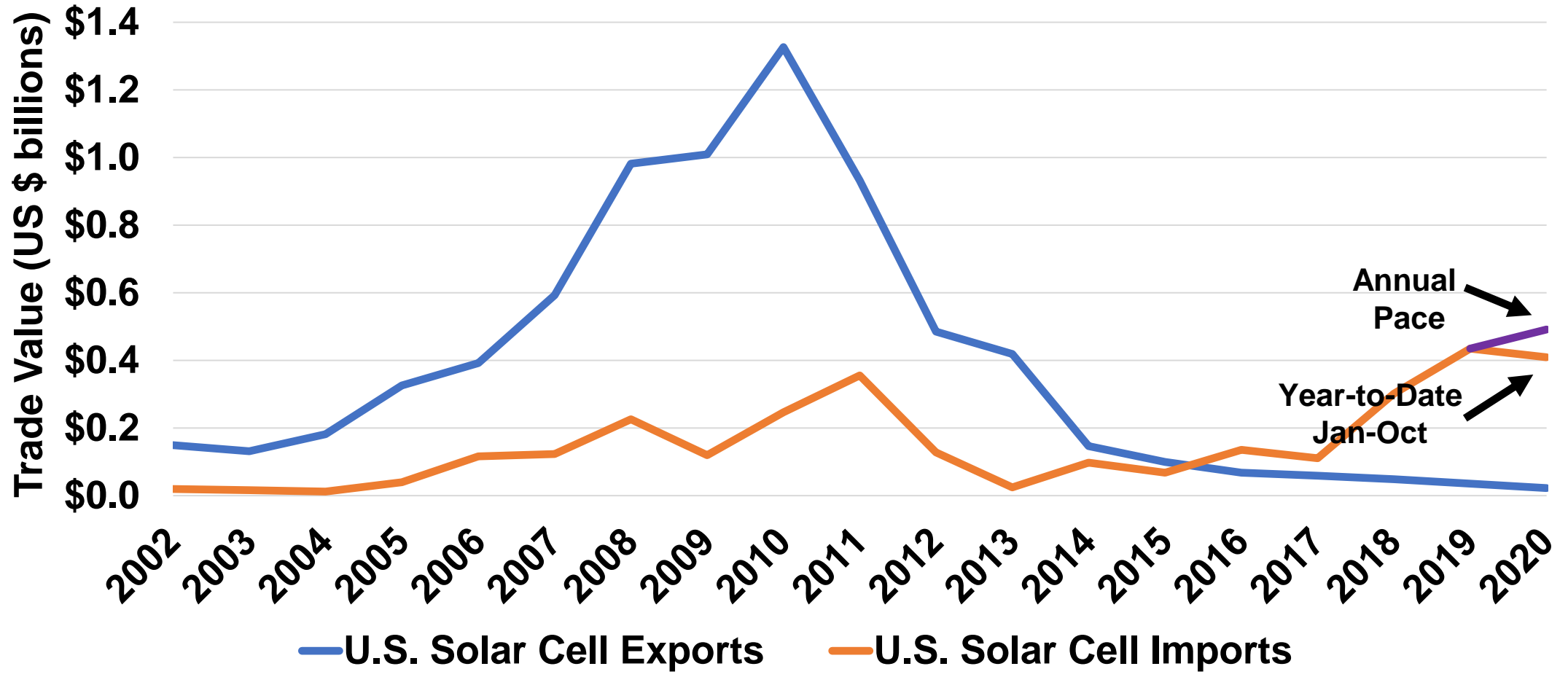
U.S. Annual PV Panel Trade



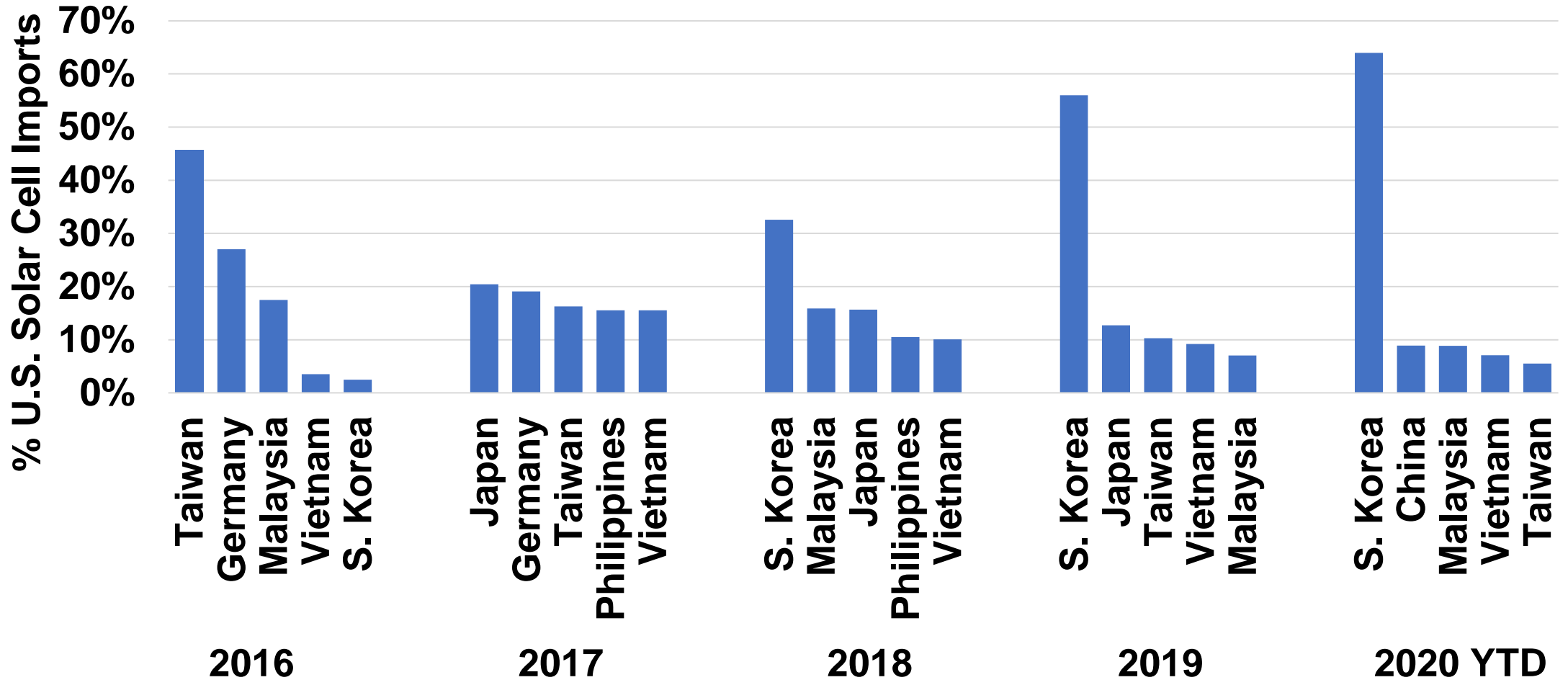
Annual U.S. PV Panel Imports Rank Order of Countries 2020 through October



Annual U.S. PV Cell Trade



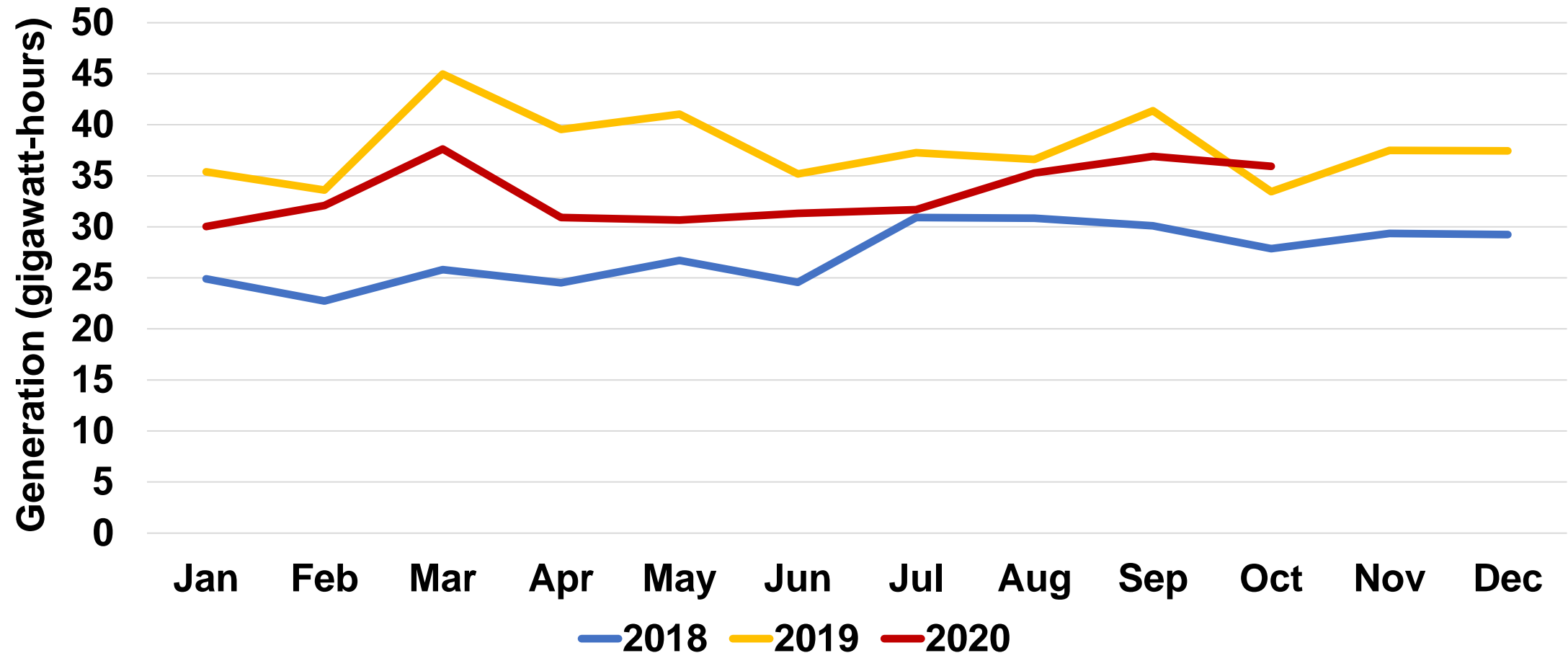
U.S. PV Cell Imports Rank Order of Countries 2020 through October



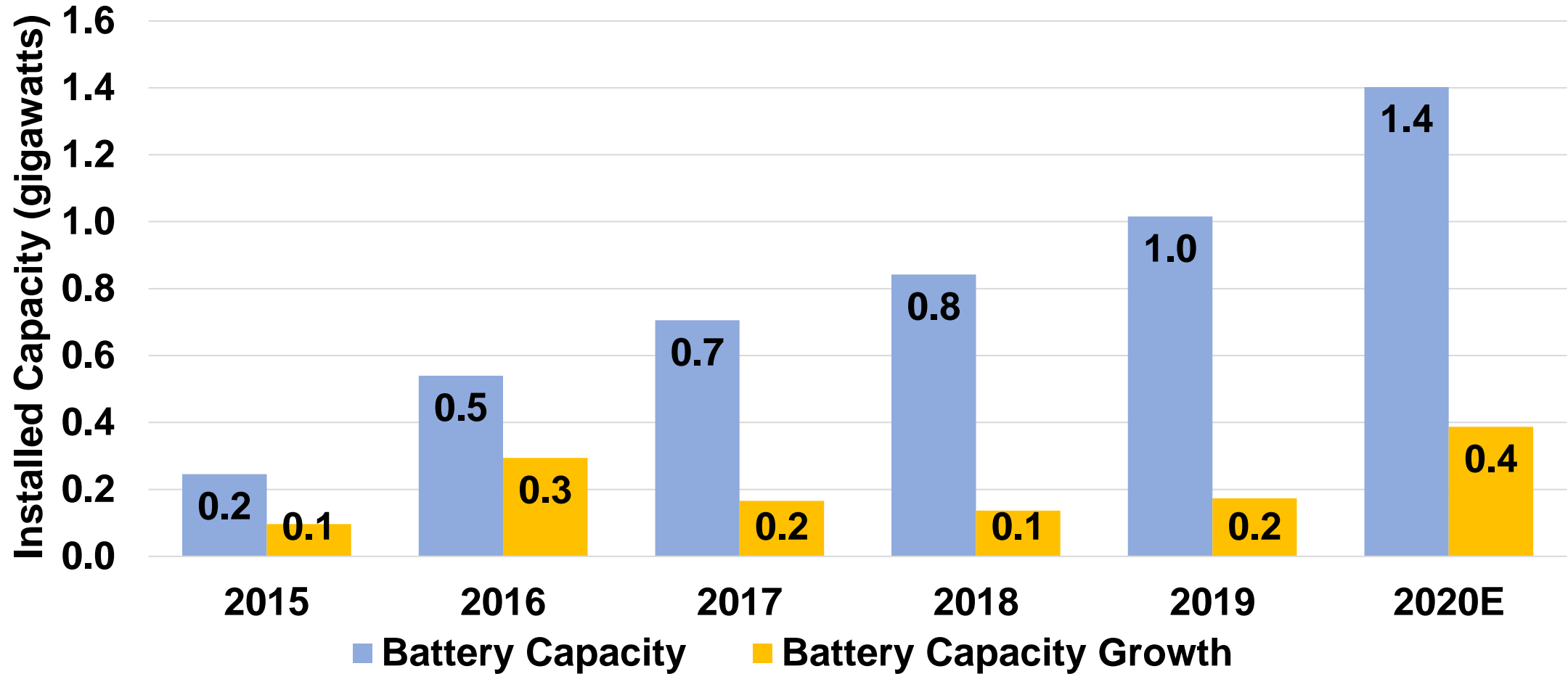


U.S. Battery Storage

Battery Stored Electricity Generation Year-on-Year (through October 2020)



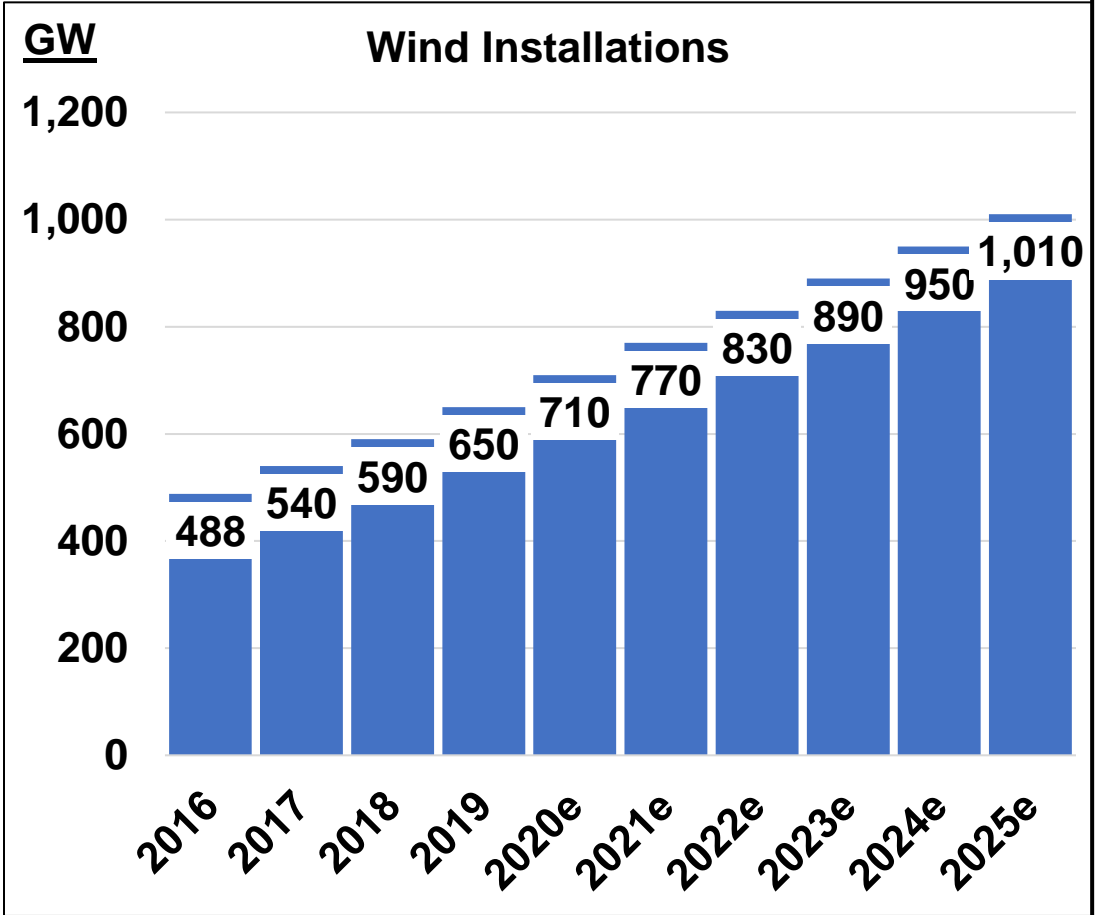
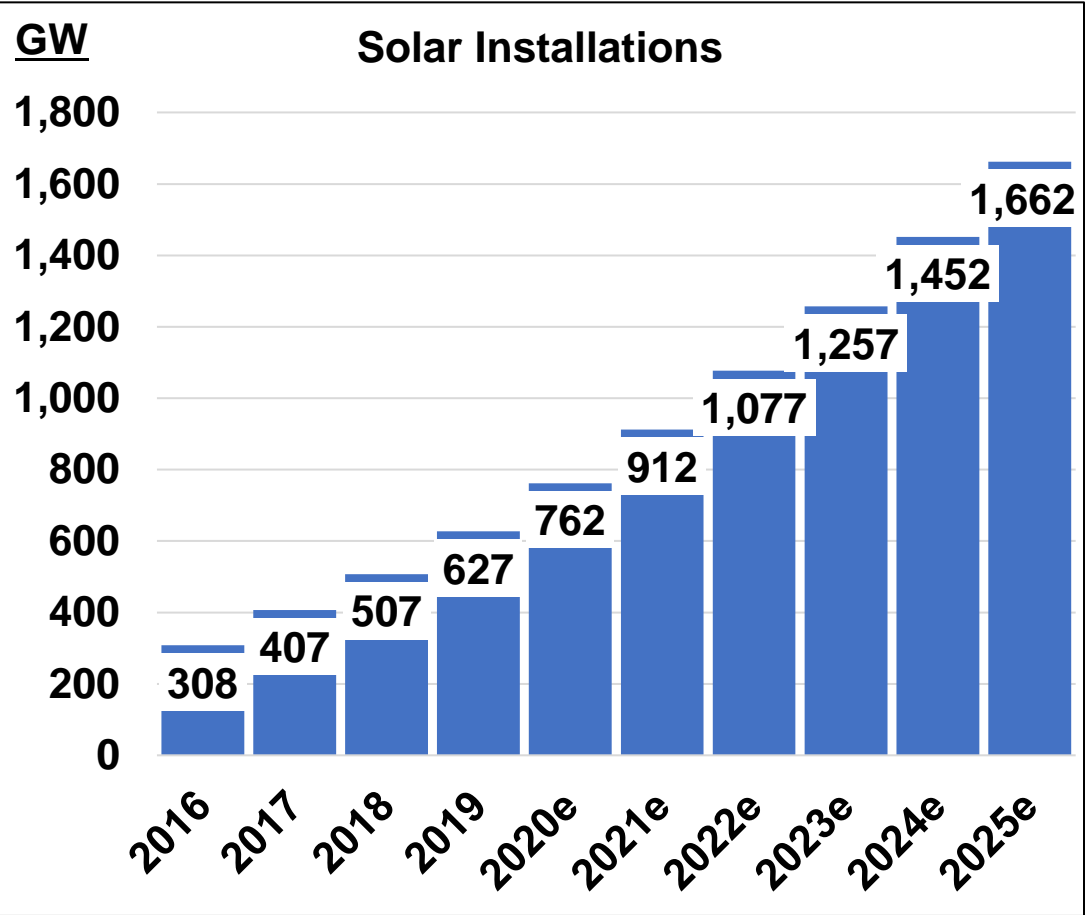
Battery Storage Capacity and Growth – 2020 Forecast



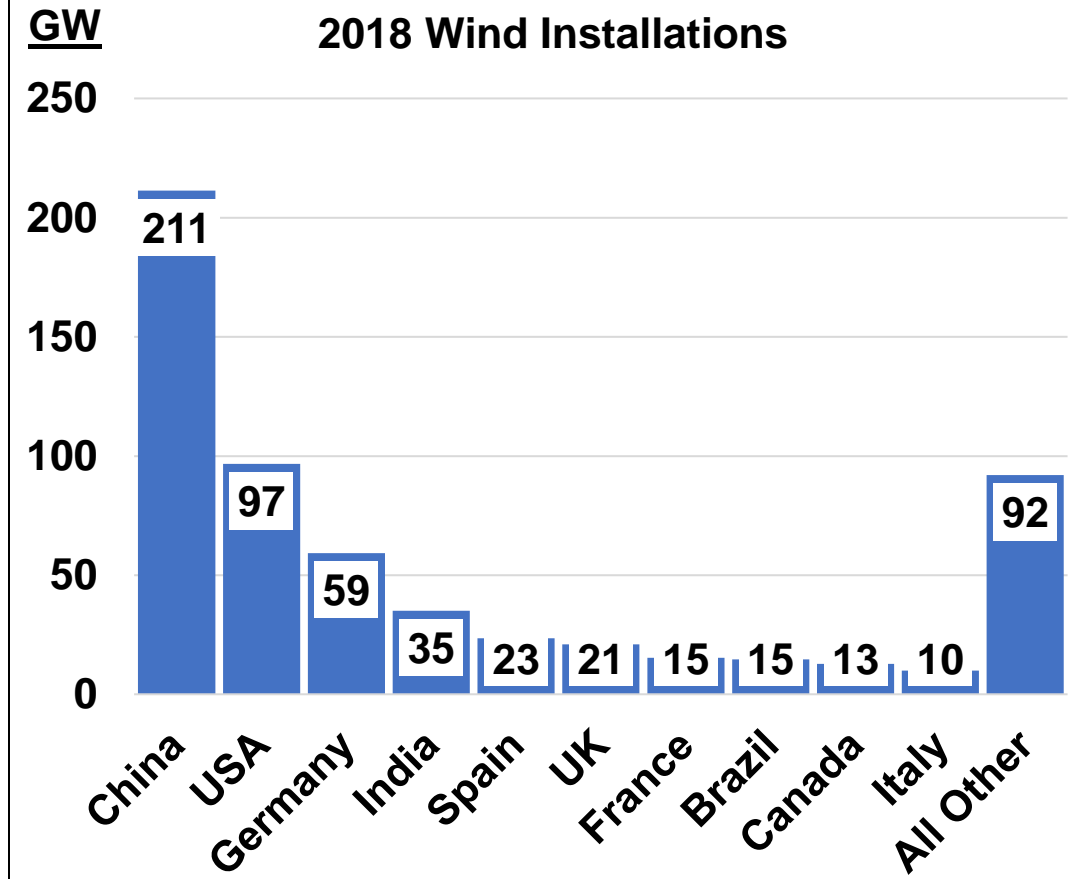
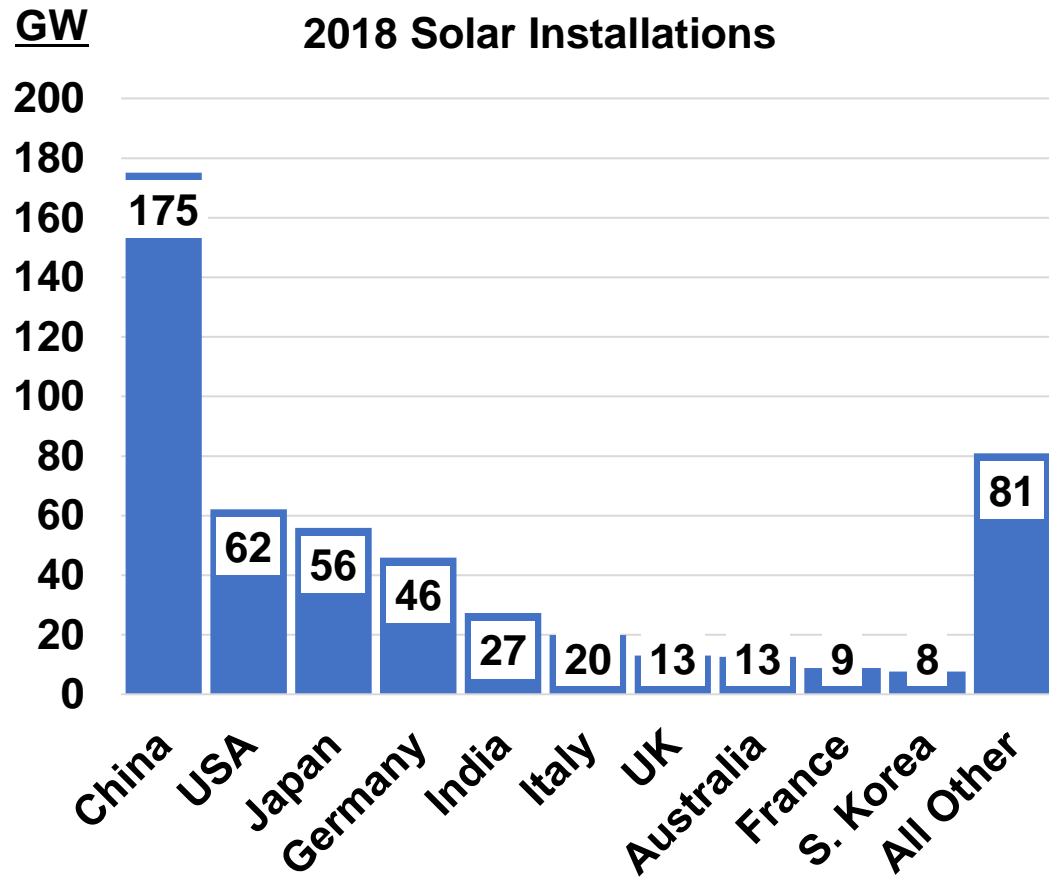


Global Solar and Wind

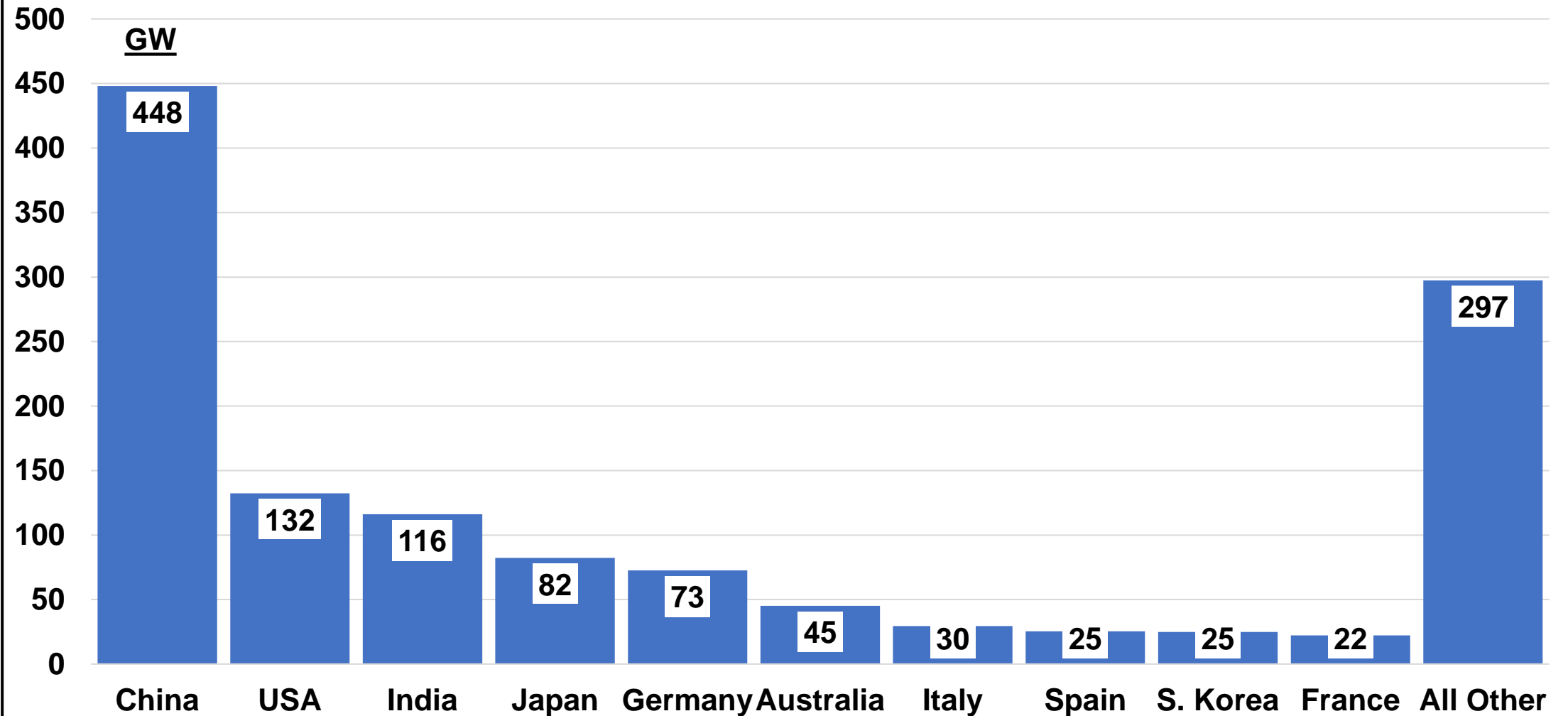
World Cumulative Solar and Wind Installations



2018 Cumulative Solar and Wind Installations by Country



2023 Forecast Cumulative Solar Installations by Country

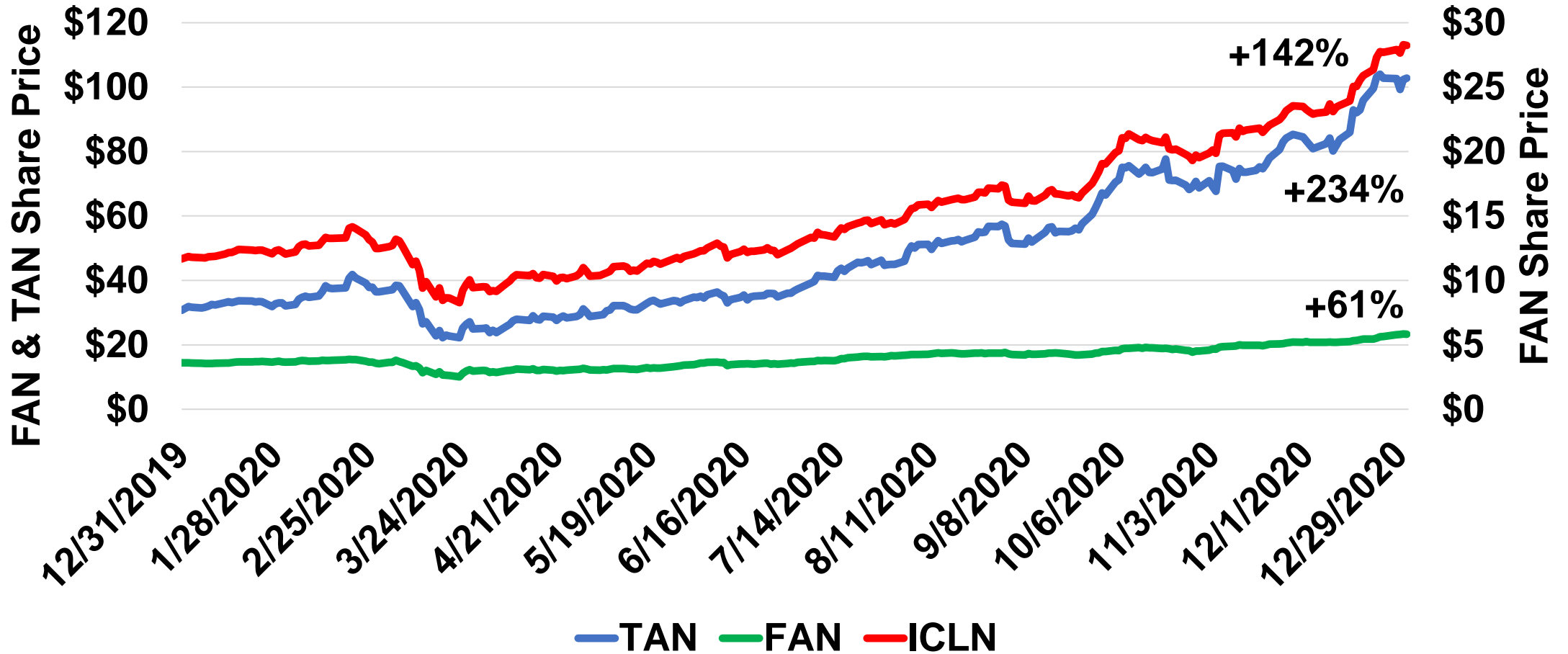




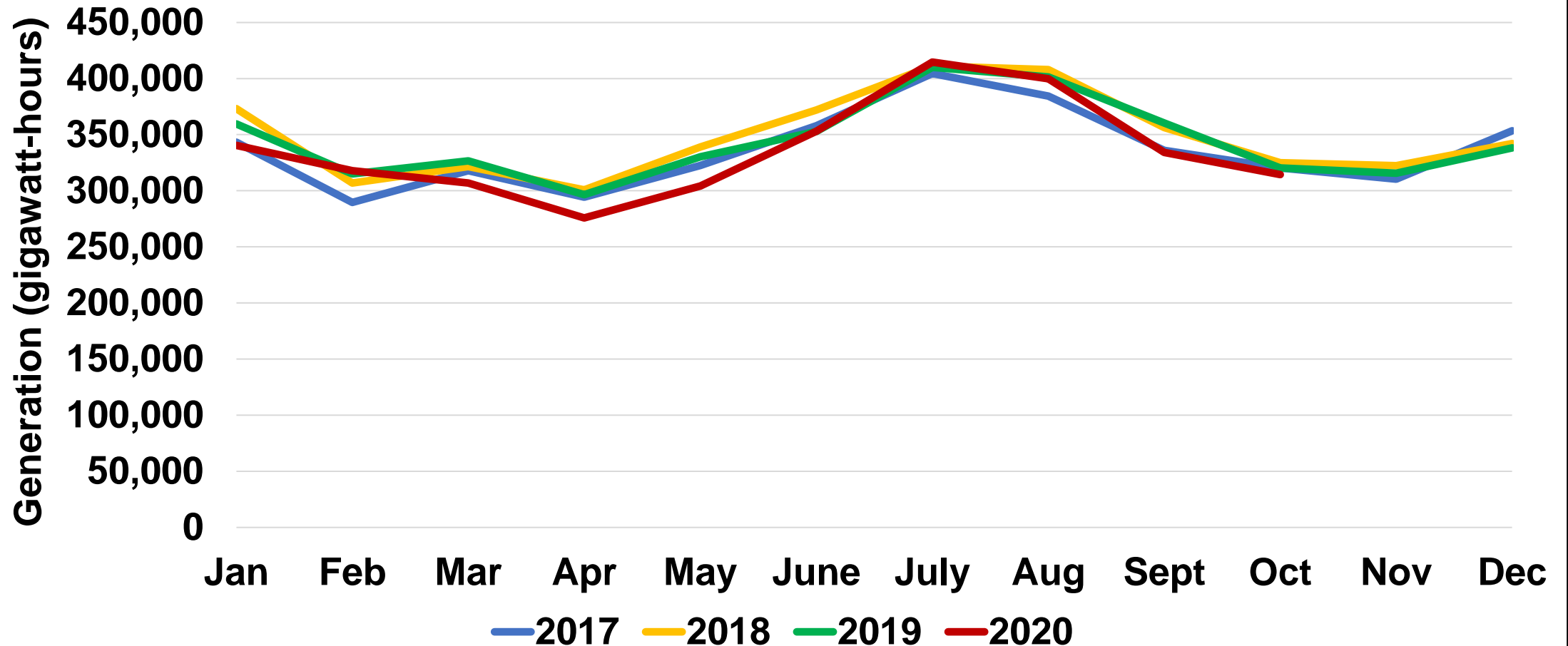
U.S. Electricity Market Overview

TAN, FAN and SPY Stock Prices
Monthly Electricity Supply and Demand
Electricity and Energy CO₂ Emissions

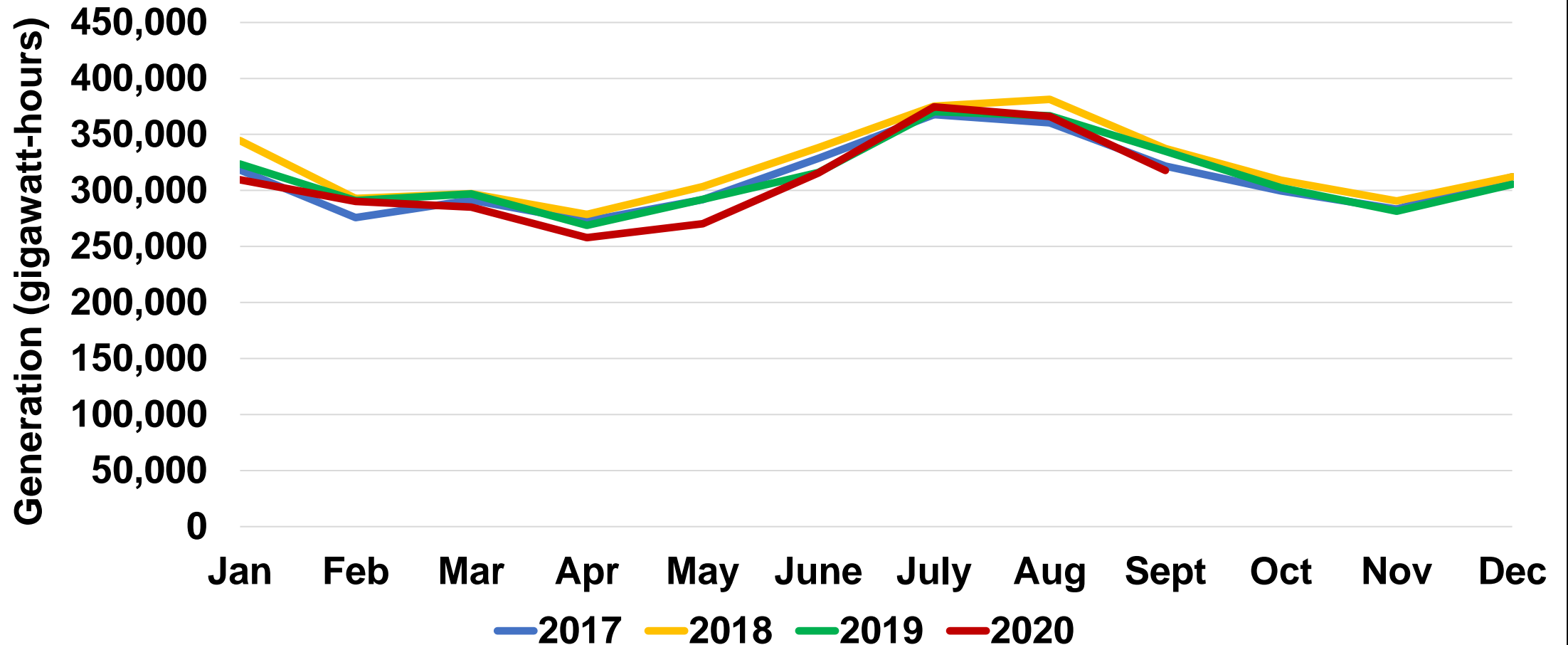
TAN, FAN and ICLN ETF Share Prices (Adjusted Close Prices to December 31, 2020)



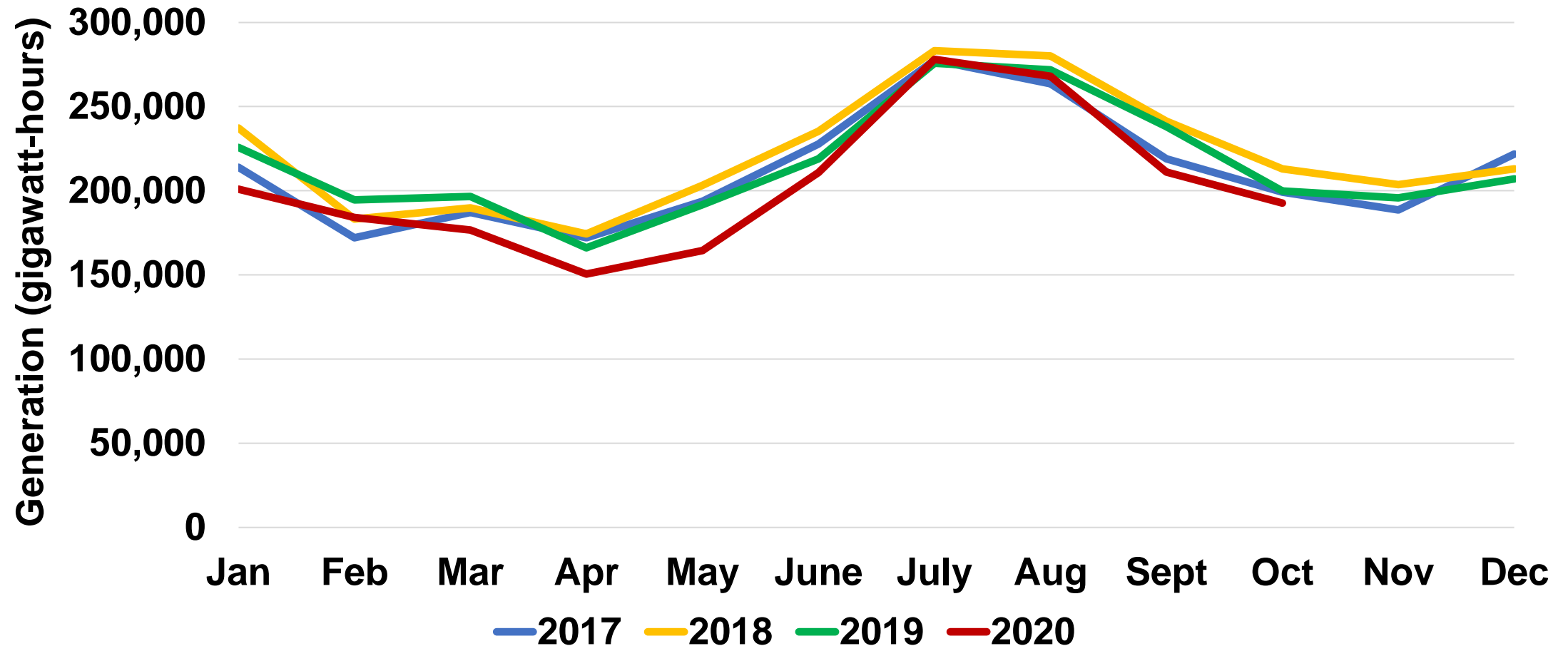
U.S. Total Electricity Supply (Generation) Year-on-Year (through October 2020)



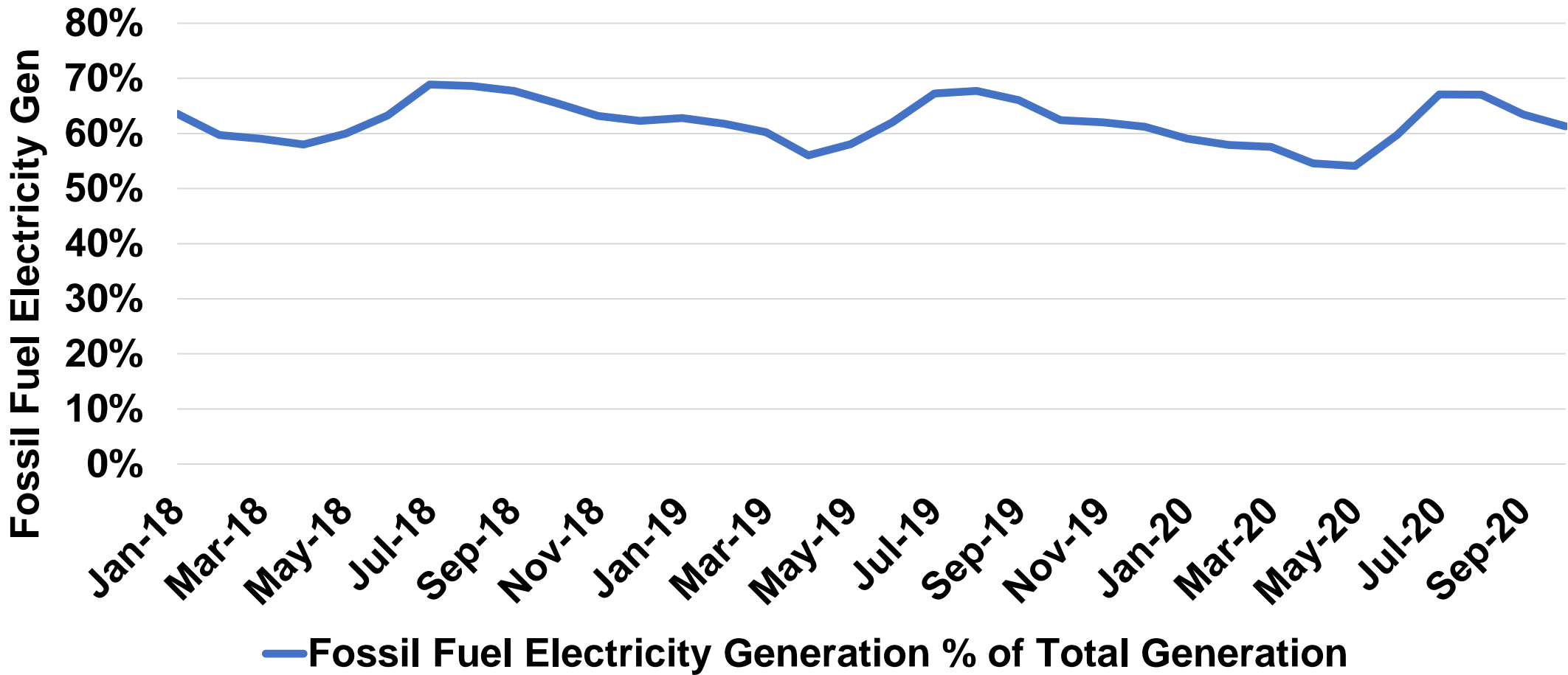
U.S. Total Electricity Demand (Retail Sales) Year-on-Year (through September 2020)



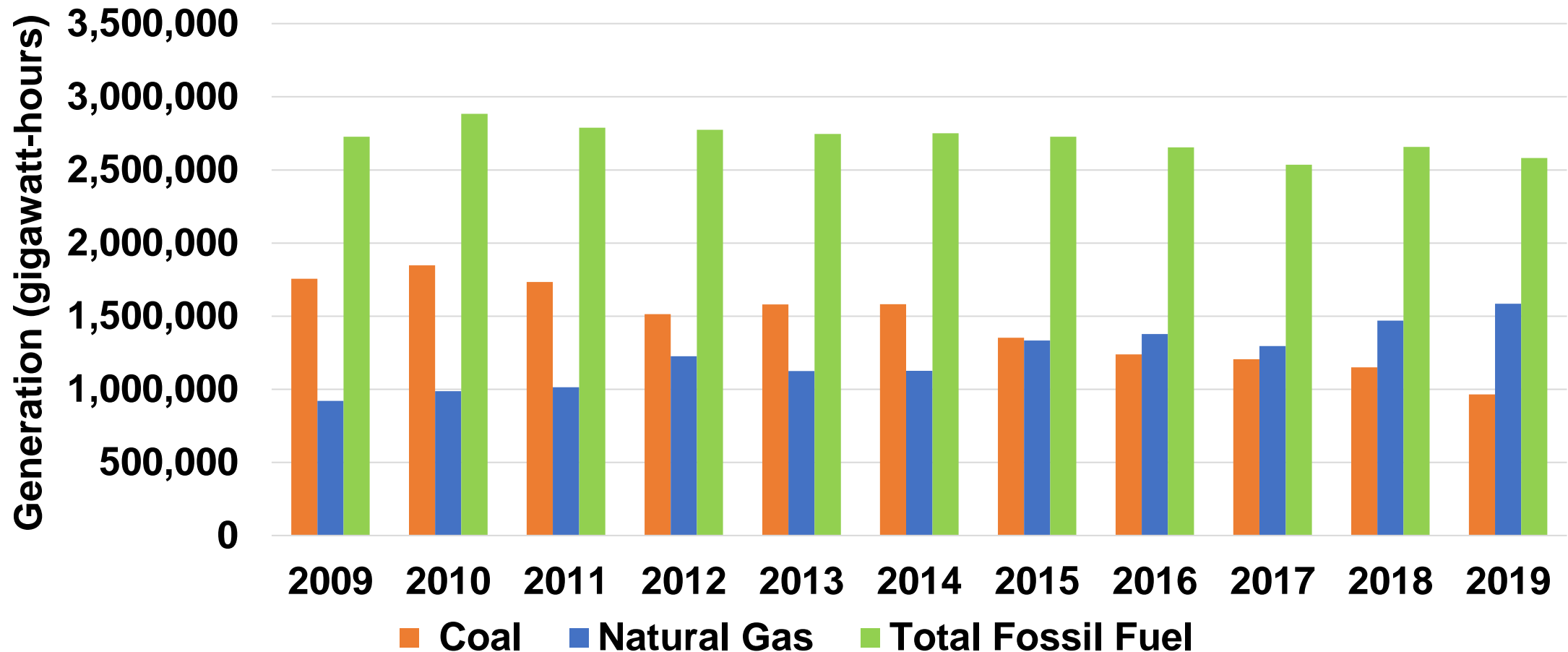
U.S. Fossil Fuel Electricity Generation Year-on-Year (through October 2020)



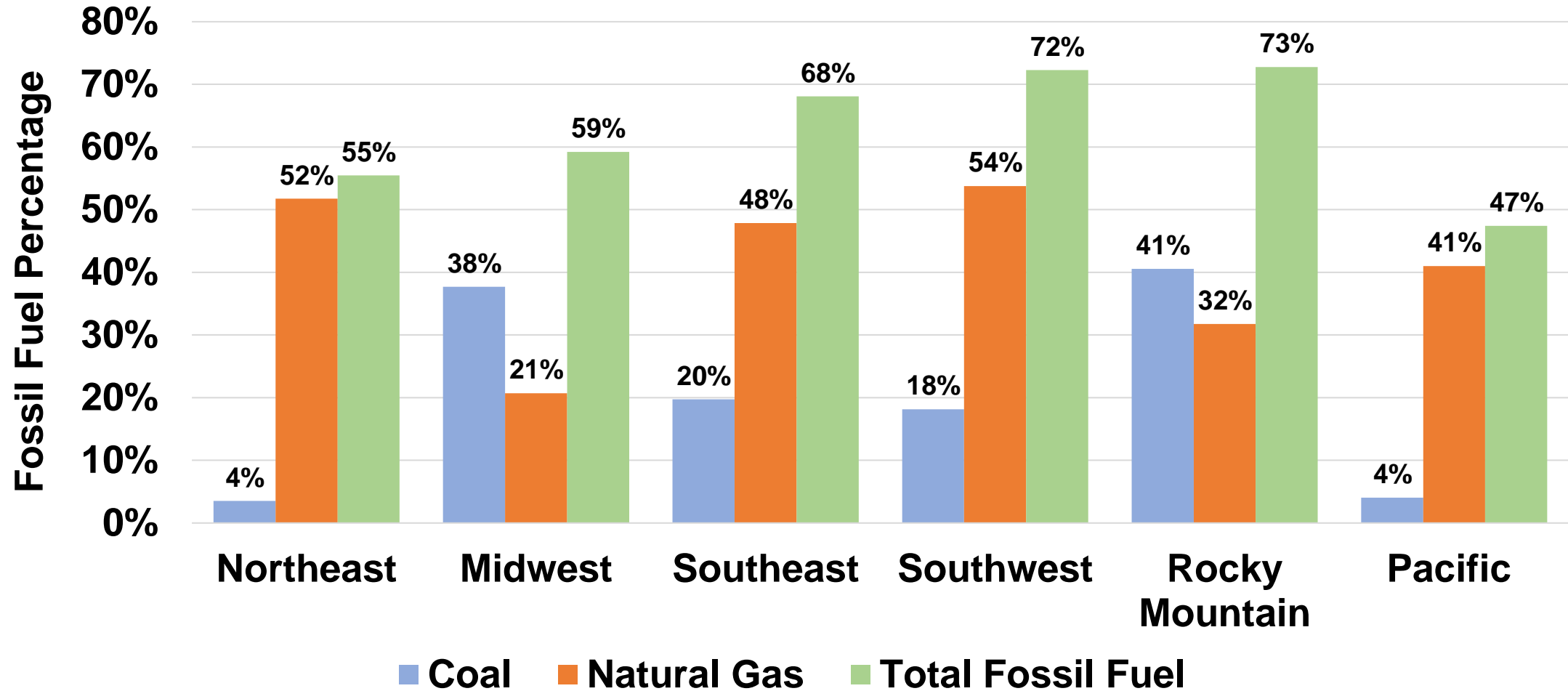
U.S. Fossil Fuel Electricity Generation % of Total Generation



U.S. Annual Fossil Fuel Electricity Generation (2009-2019)



Regional Electricity Generation from Fossil Fuels September 2020

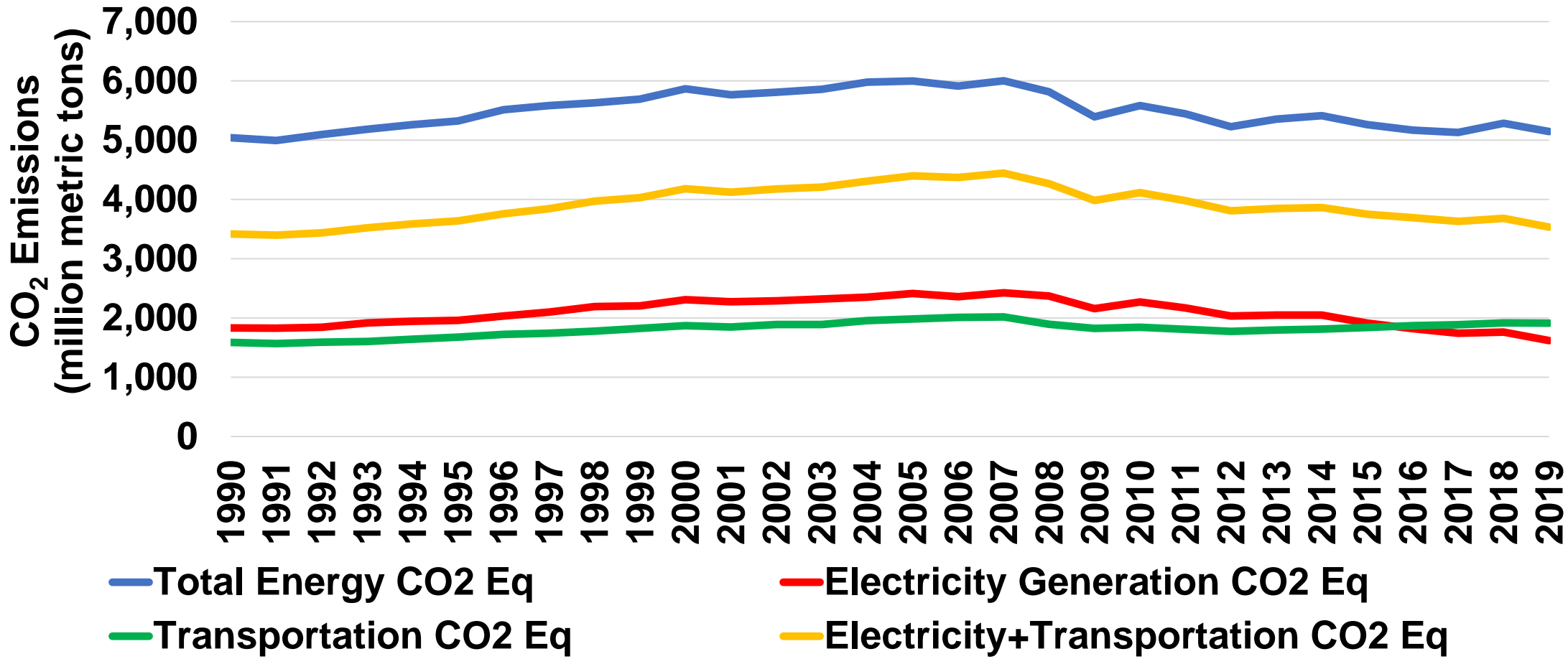


U.S. Electric Power Sector Fossil Fuel Consumption September 2020

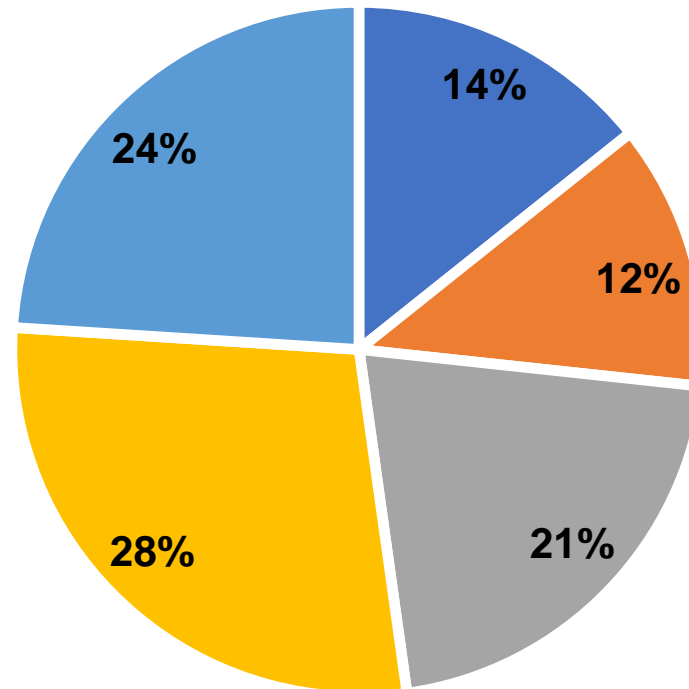


	Coal (Short Tons)	Natural Gas (Mcf)	Other Gases (Billion Btu)	Petroleum (Barrels)
Northeast	1,358,640	177,053,935	212	111,231
Midwest	14,962,277	136,576,488	967	551,586
Southeast	10,049,781	408,663,659	864	1,284,546
Southwest	6,595,951	251,129,989	1,547	94,850
Rocky Mountain	3,575,053	38,845,258	203	69,187
Pacific	95,388	55,349,347	818	999,892

U.S. Fossil Fuel CO₂ Equivalent Emissions



U.S. Energy CO₂ Emissions by Sector (2018)



■ Residential ■ Commercial ■ Industrial ■ Transportation ■ Electric Power

ASAP Regional Map

