



# **ASAP** **(American Solar Action Plan)**

## **PV-Wind Monthly Data Slideshow**

**March 2026**

**ASAP**

**Website: [www.solarplan.org](http://www.solarplan.org)**

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# Highlights for December 2025 Data



- PV capacity additions are 6,318 MW; Wind capacity additions are 1,939 MW.
  - MW = megawatts; GW = gigawatts (1000 MW); TW = terawatts (1000 GW)
- PV and Wind generated 17.7% of total U.S. electricity generation with PV generating 5.4% and Wind 12.3%.
- PV panel imports were \$531 million and PV cell imports were \$141 million.
- For the month of February, the TAN ETF (solar) share price increased 2.1%, and the FAN ETF (wind) share price increased 8.6%.

# Slideshow Objectives



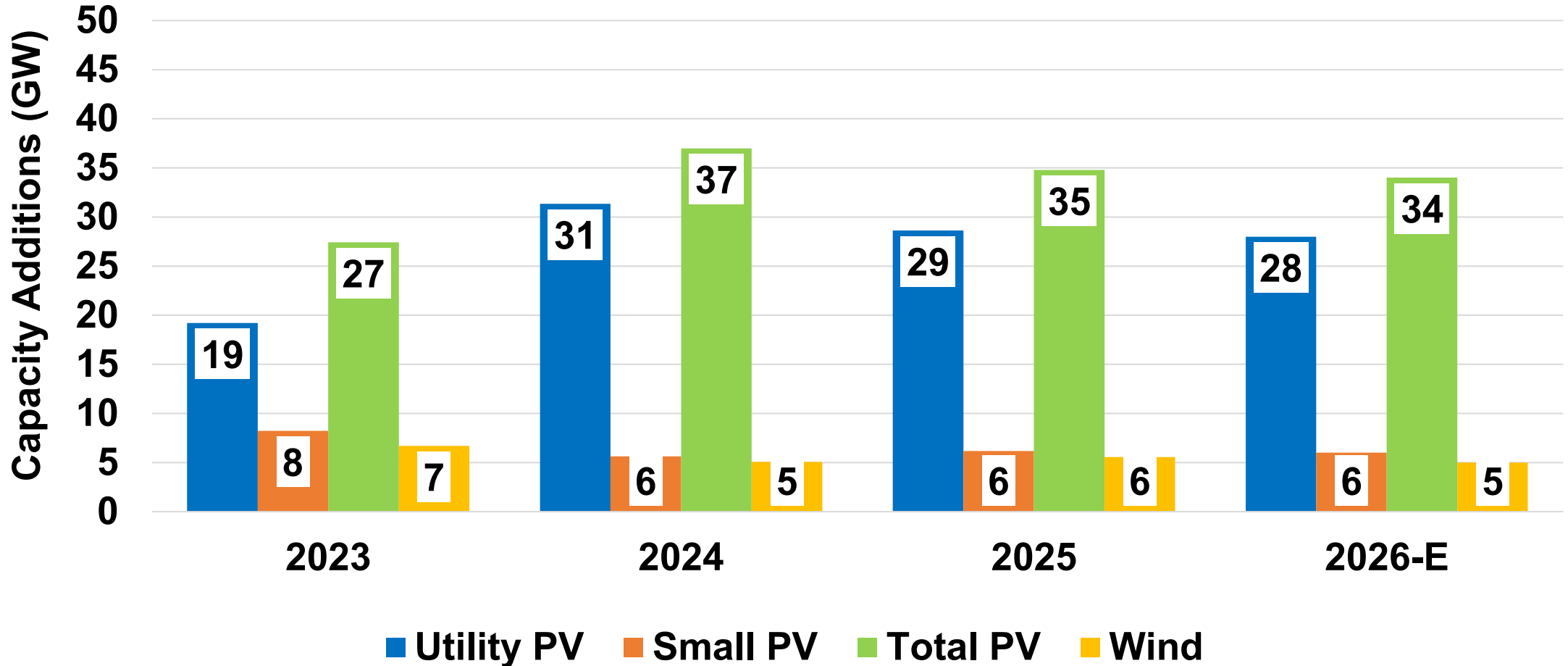
- To Document Monthly and Annual Growth in PV and Wind Capacity and Electricity Generation
  - MW = megawatts; GW = gigawatts; TW = terawatts; MT = thousand metric tons (polysilicon)
- PV and Wind Capacity Additions
  - The Graphs Show Current and Past Year Monthly PV and Wind Capacity Additions
  - For Perspective, Compare Current Monthly Capacity Additions to the Long-Term Goals
    - U.S. PV Long-Term Goal (2040 forward)
      - Monthly Average – 8 GW of Capacity Additions
      - Annual Average – 96 GW of Capacity Additions
    - U.S. Wind Long-Term Goal (2040 forward)
      - Monthly Average – 4 GW of Capacity Additions
      - Annual Average – 48 GW of Capacity Additions
    - World PV Long-Term Goal (2040 forward)
      - Annual Average – 700 GW of Capacity Additions
    - World Wind Long-Term Goal (2040 forward)
      - Annual Average – 300 GW of Capacity Additions
- Slides Present U.S. Monthly PV, Wind and Fossil Fuel Electricity Generation to Show Seasonality



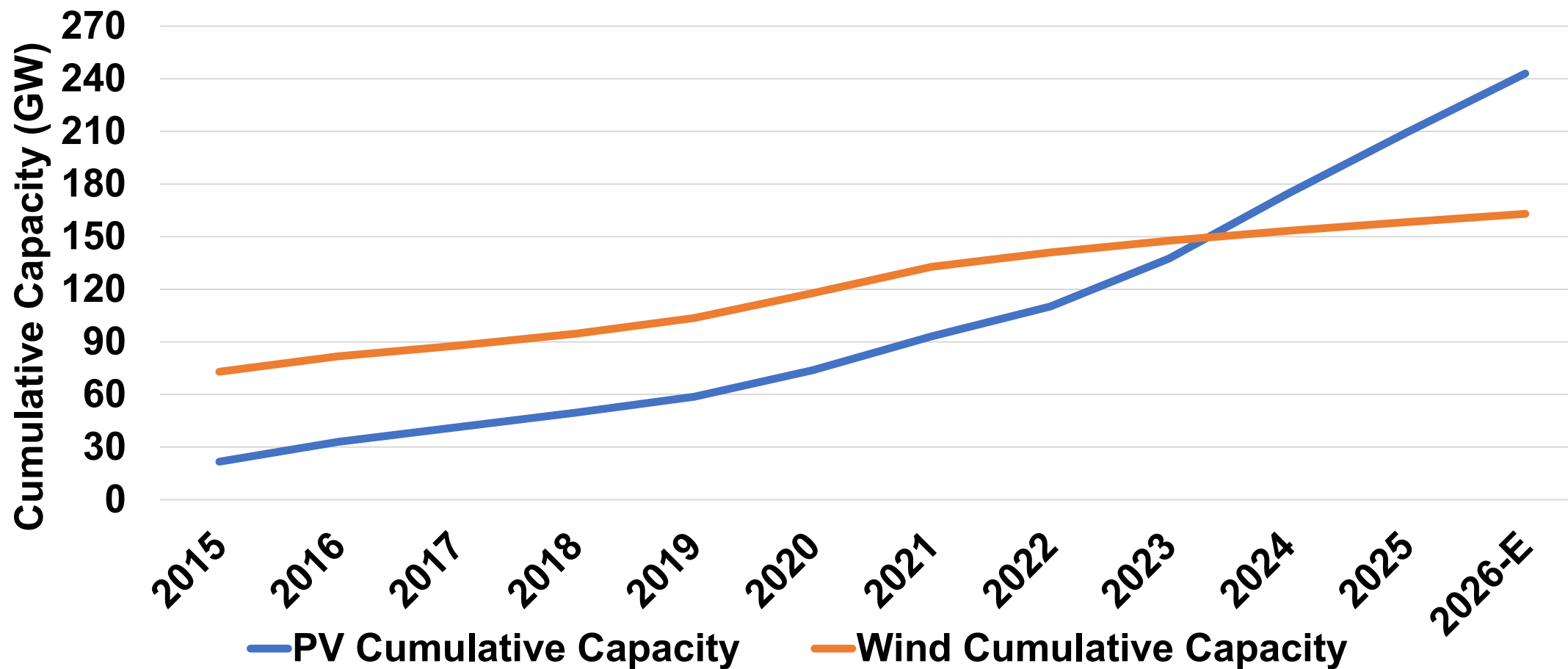
# U.S. PV and Wind Capacities

# 2026 PV and Wind Forecast

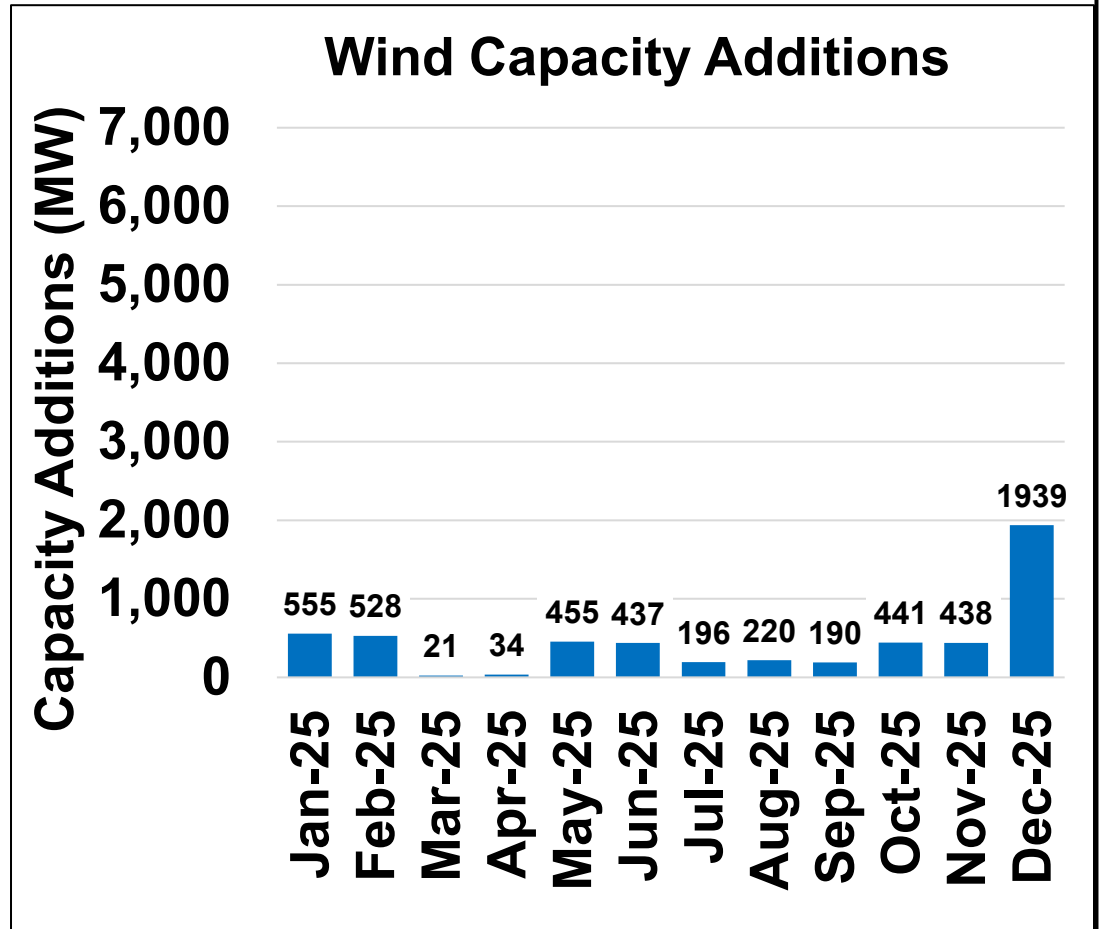
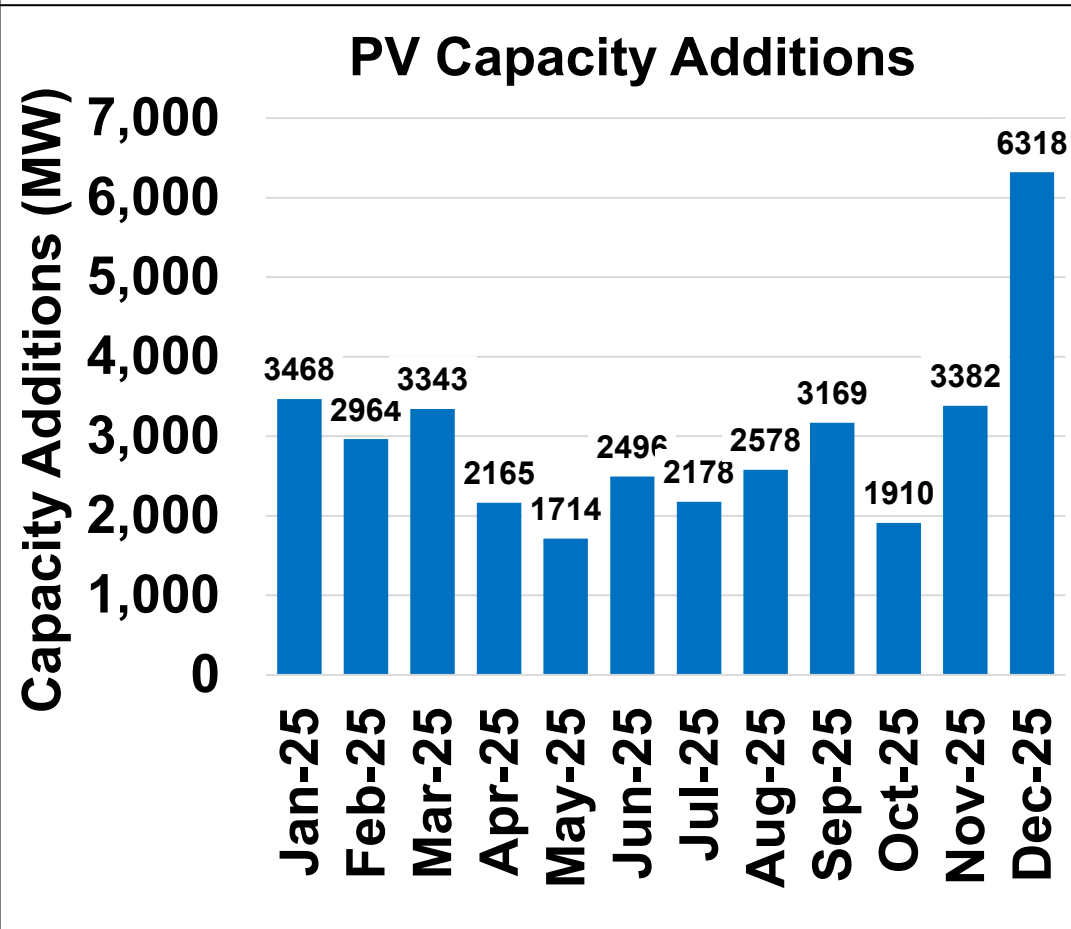
## U.S. Annual PV and Wind Capacity Additions 2023-2025



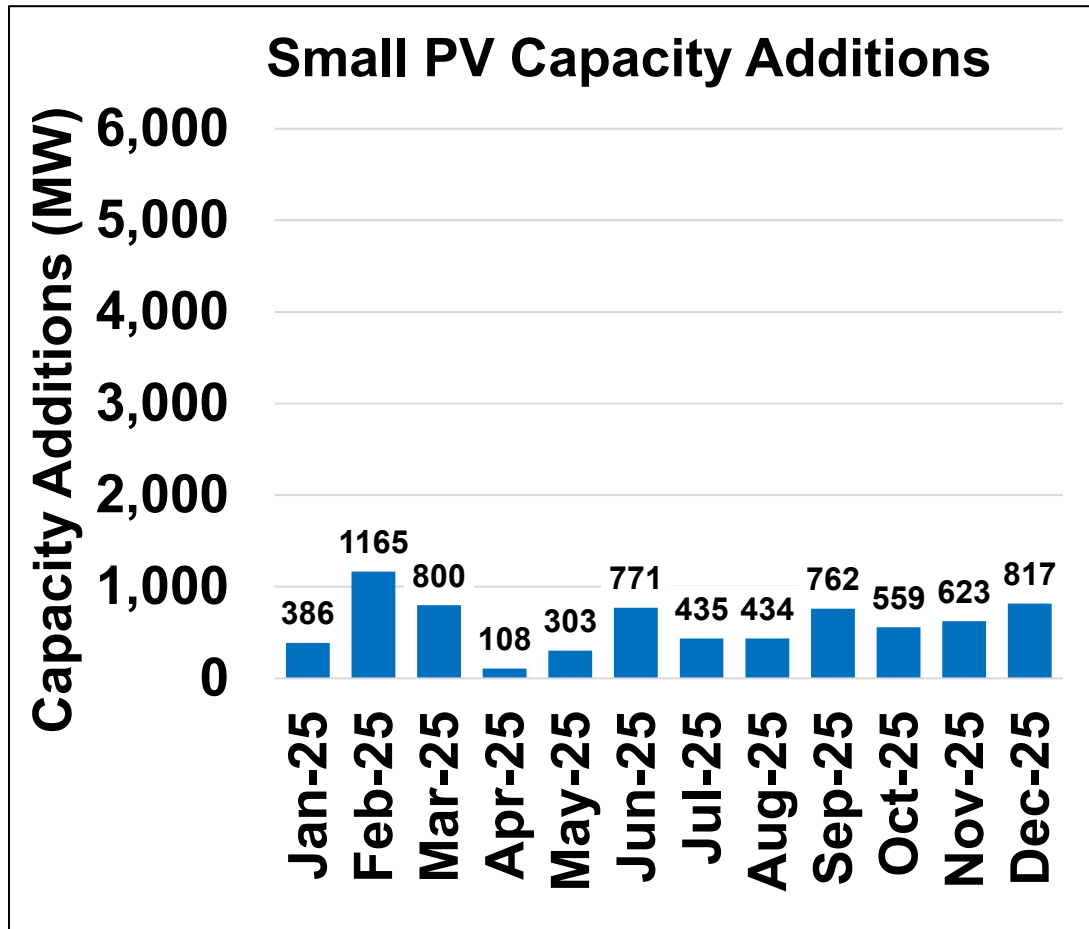
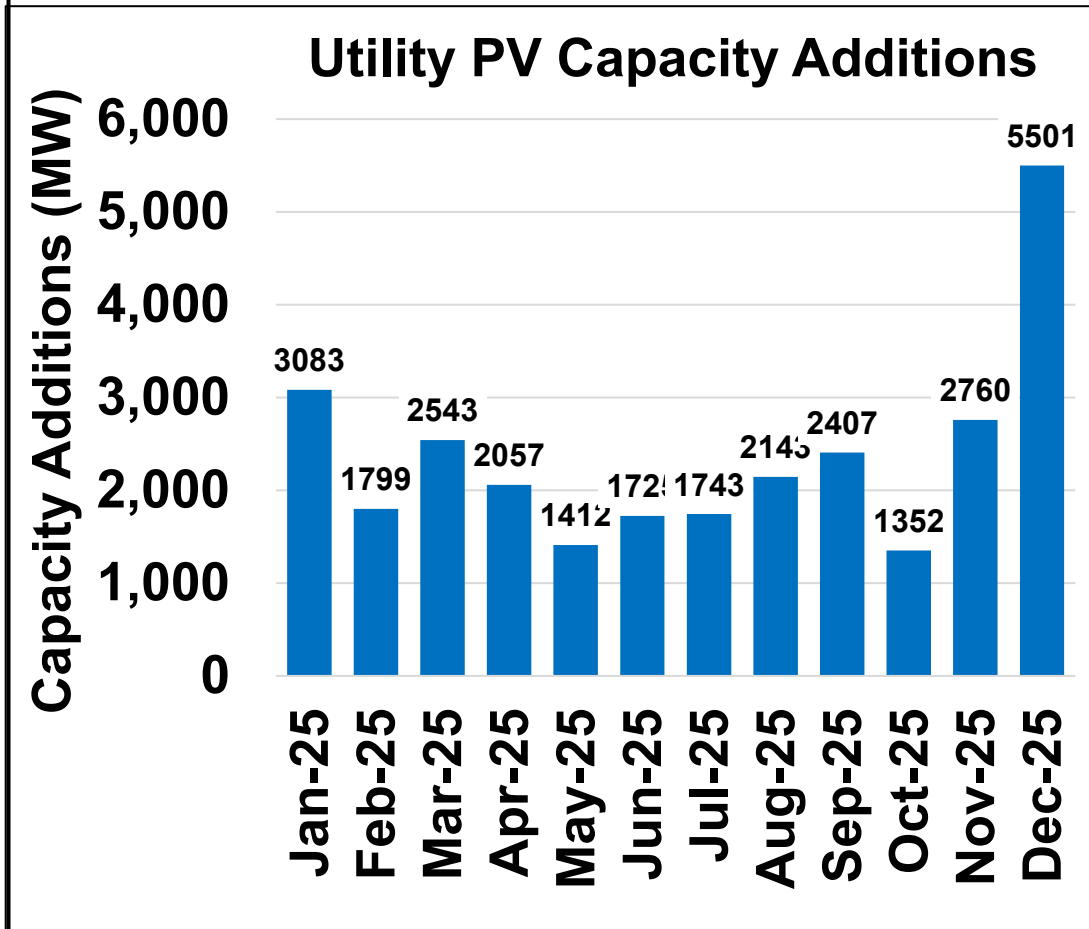
# PV and Wind Cumulative Capacity



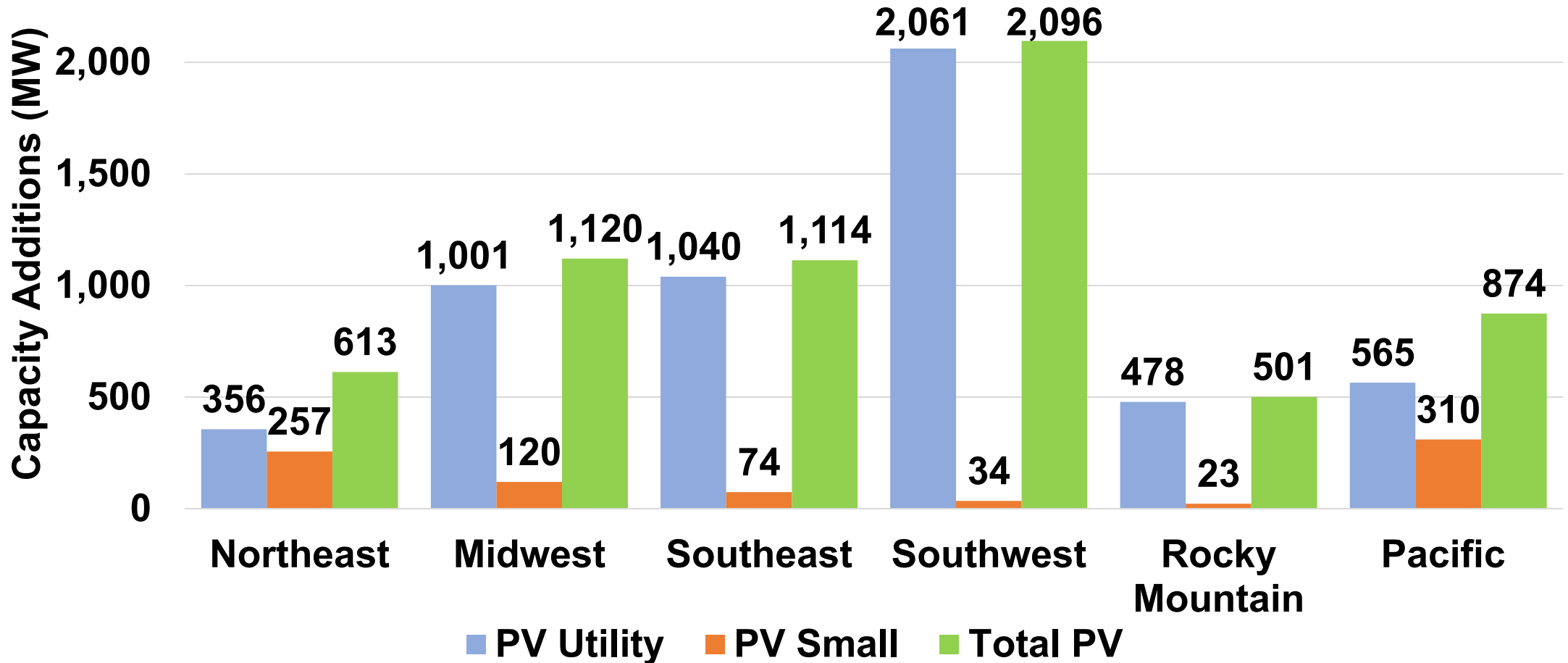
# U.S. PV and Wind Monthly Net Capacity Additions 2025 (through December)



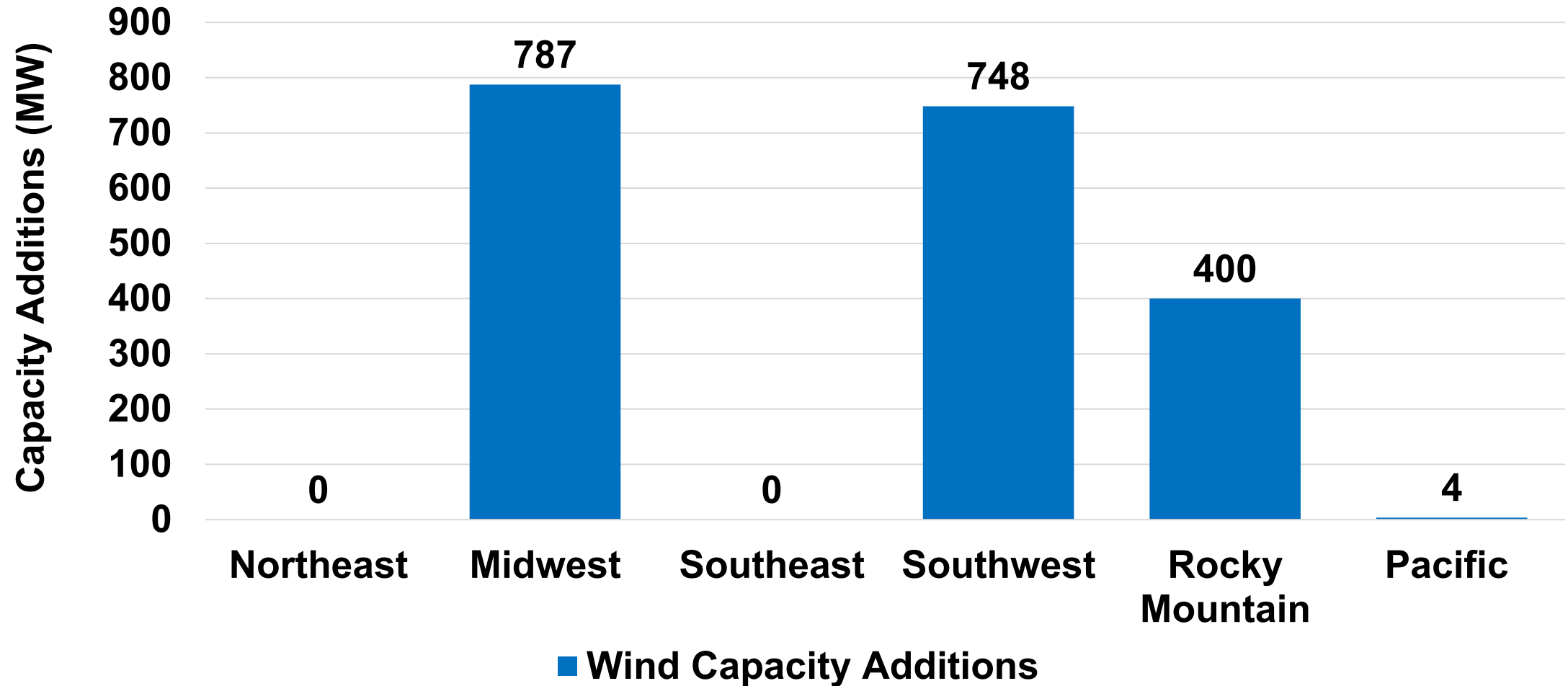
# Monthly Utility and Small PV Net Capacity Additions 2025 (through December)



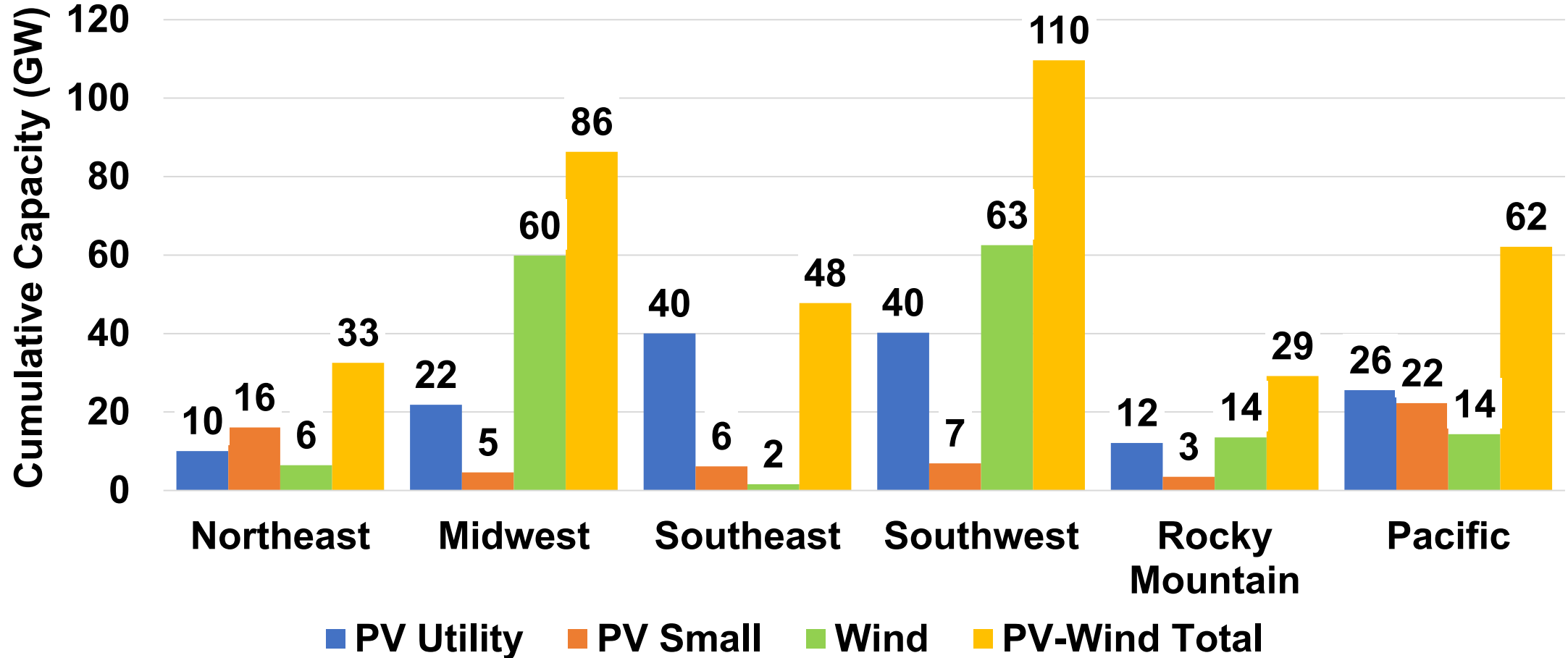
# Regional PV Capacity Additions December 2025



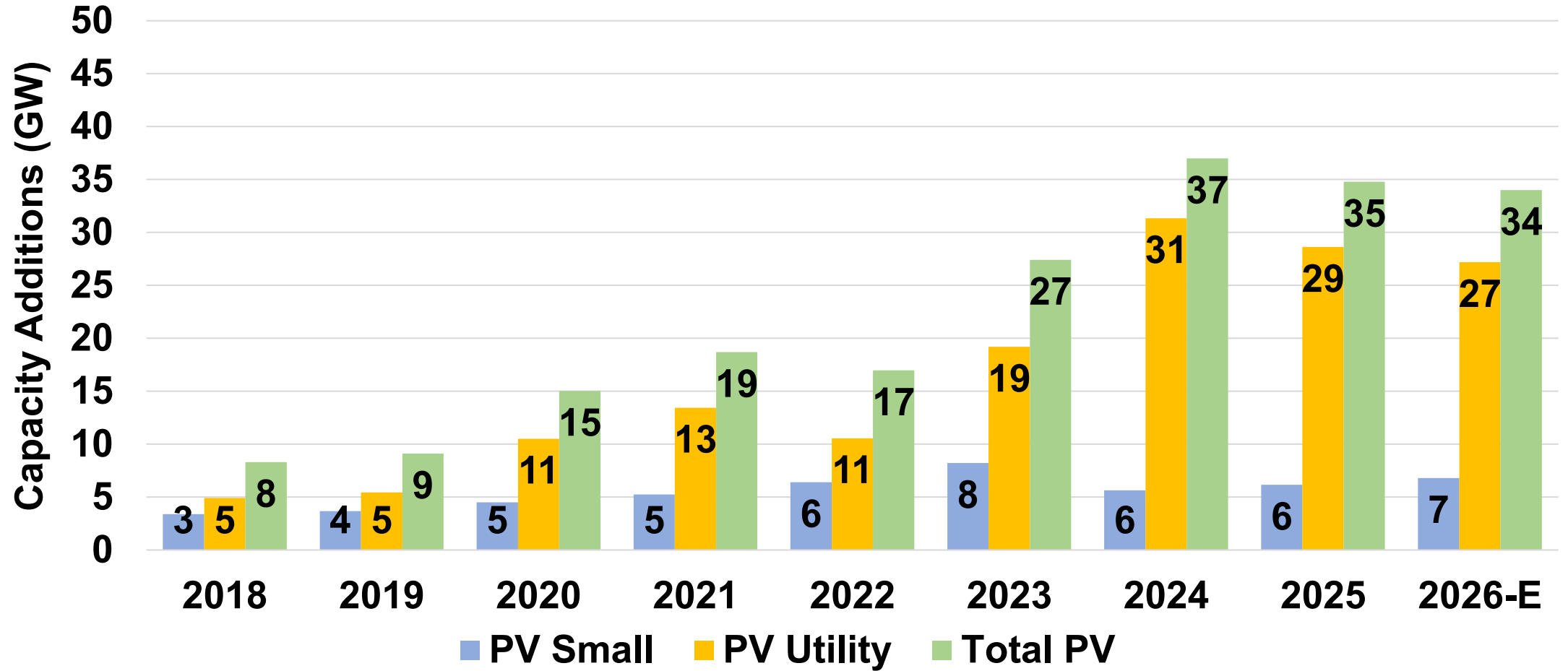
# Regional Wind Net Capacity Additions December 2025



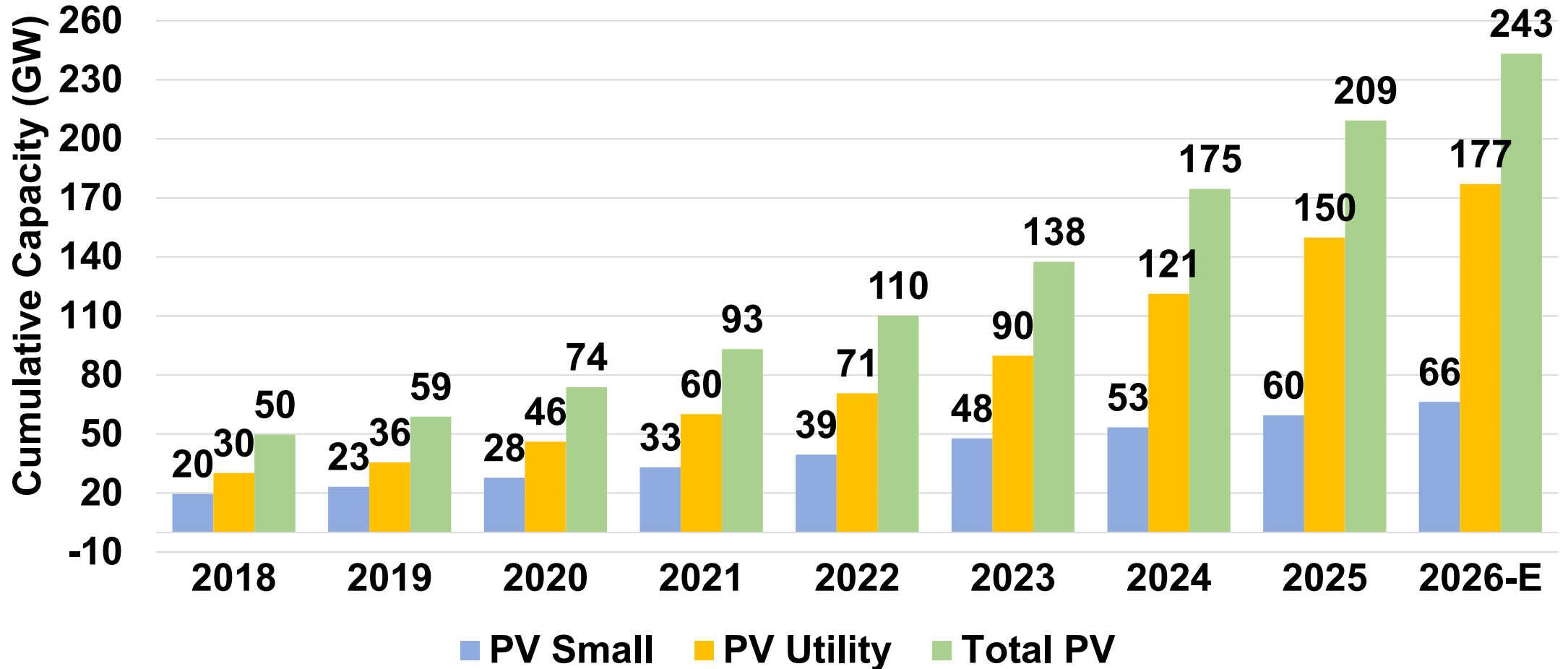
# PV and Wind Cumulative Capacity by Region December 2025



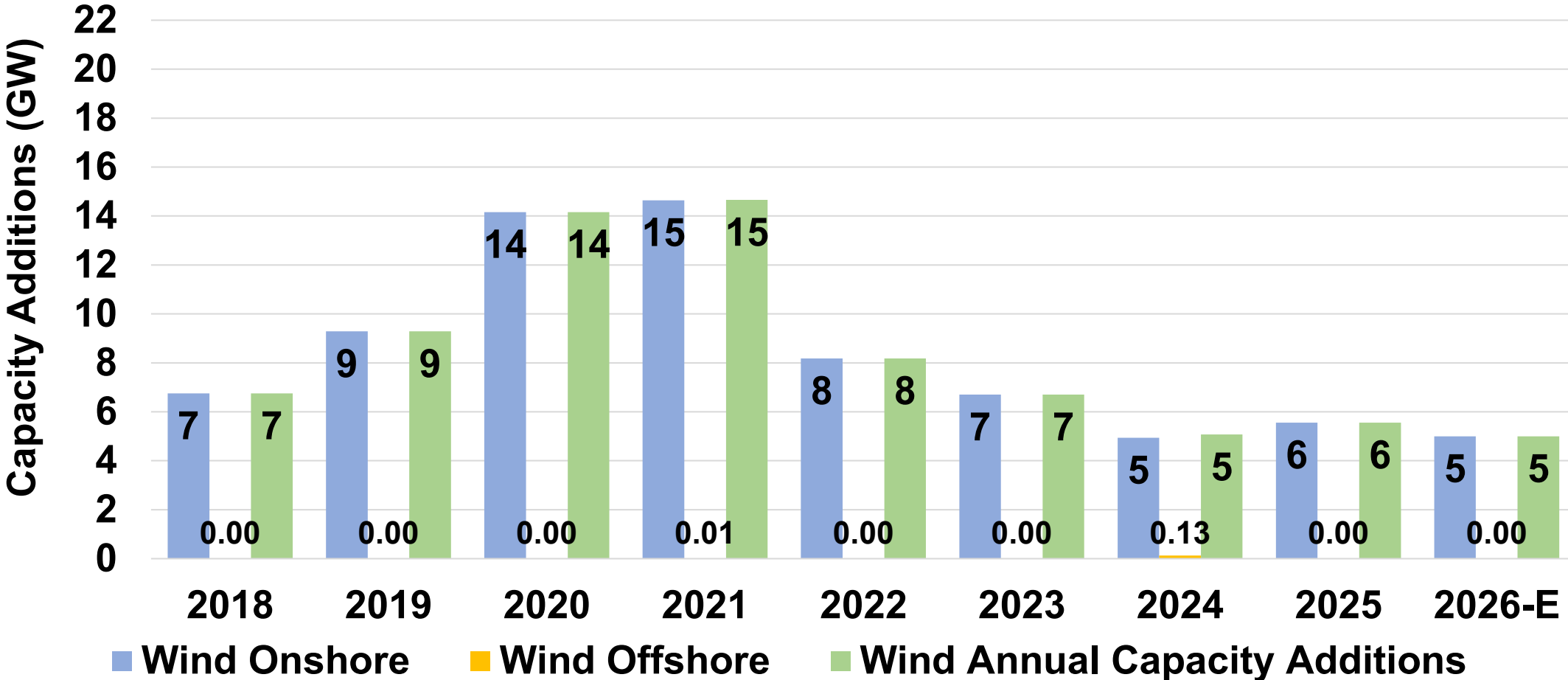
# PV Annual Capacity Additions 2026 Forecast



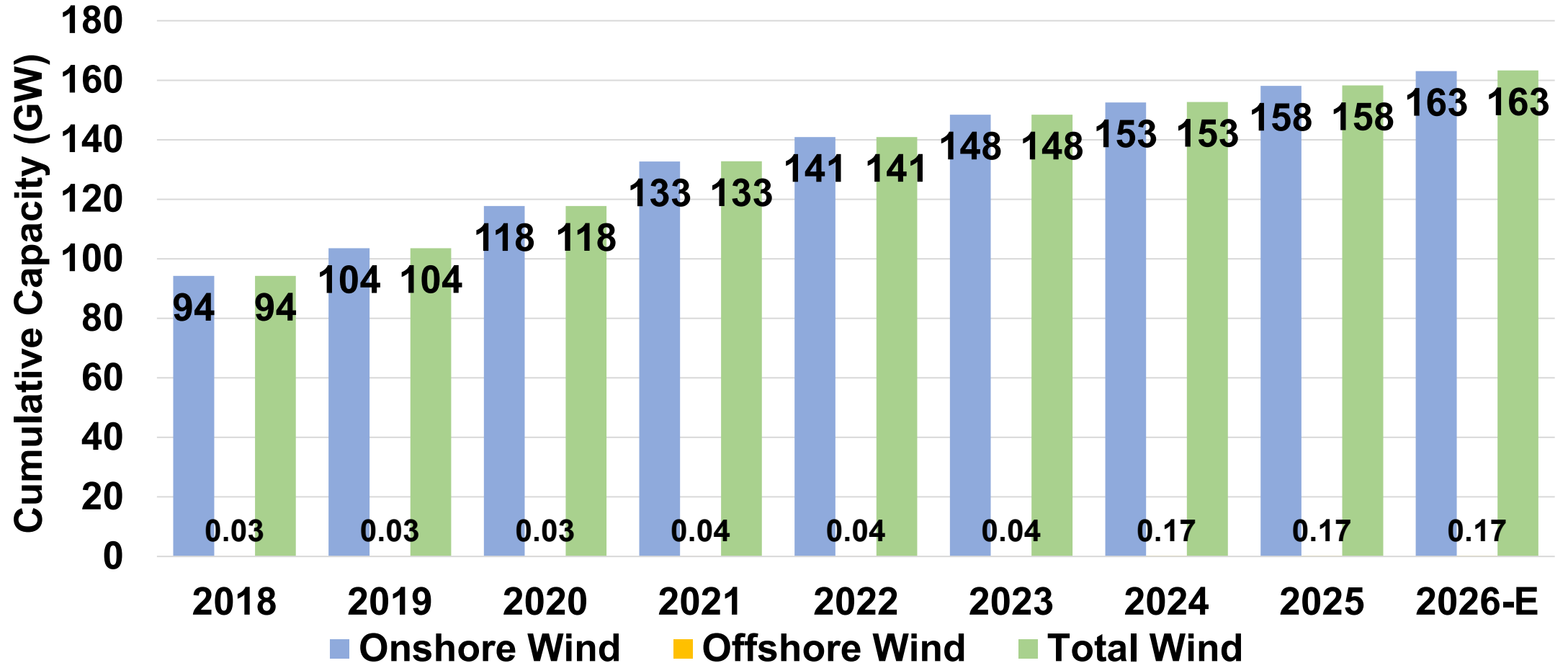
# PV Annual Cumulative Capacity 2026 Forecast



# Wind Annual Capacity Additions 2026 Forecast



# Wind Annual Cumulative Capacity 2026 Forecast

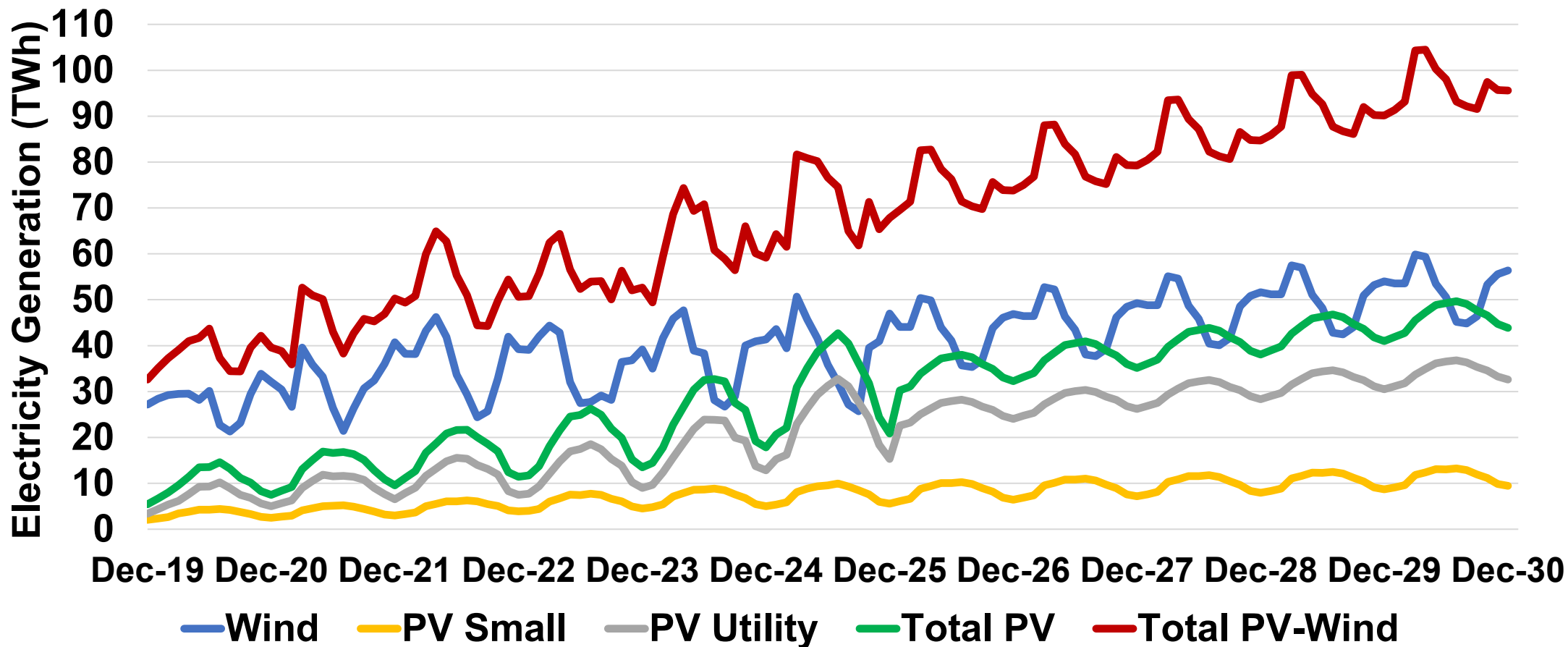




# U.S. PV and Wind Electricity Generation

# U.S. PV & Wind Monthly Electricity Generation

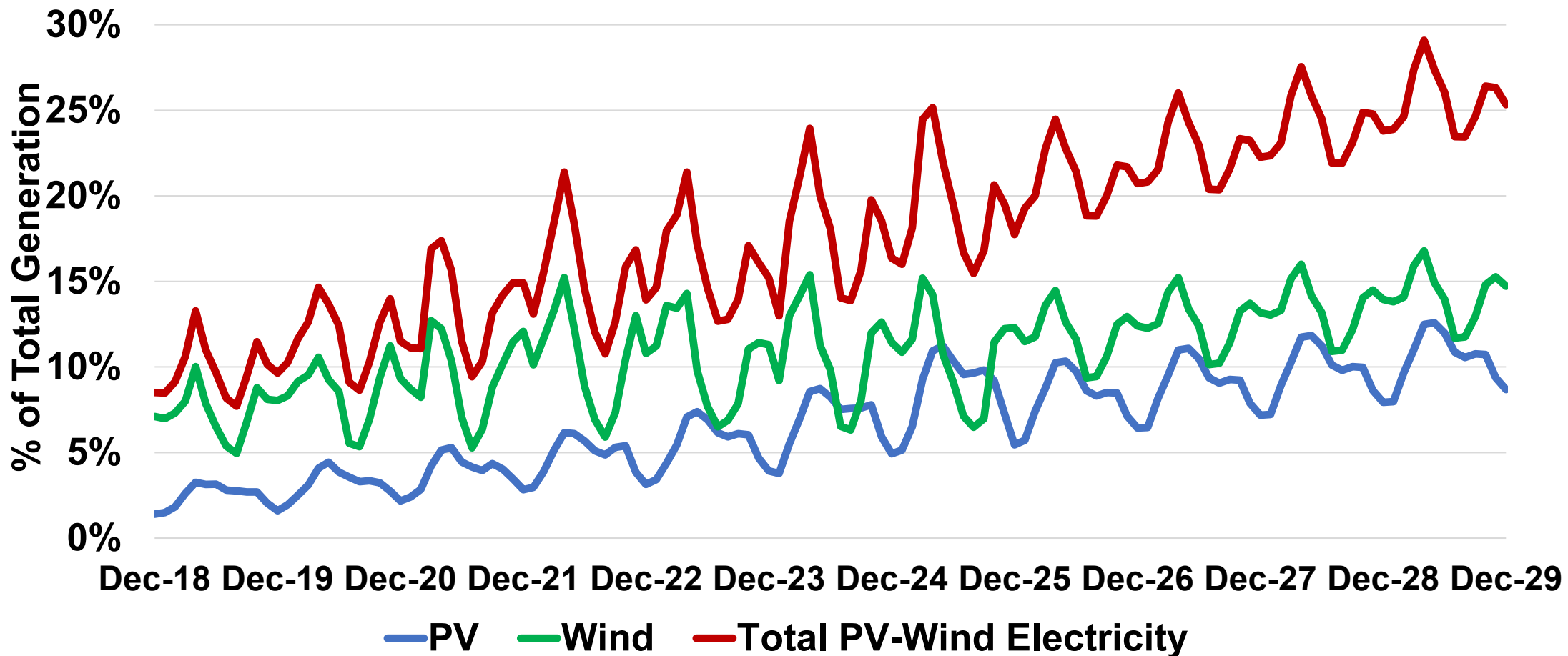
Actual through December 2025; Forecast through Dec. 2030



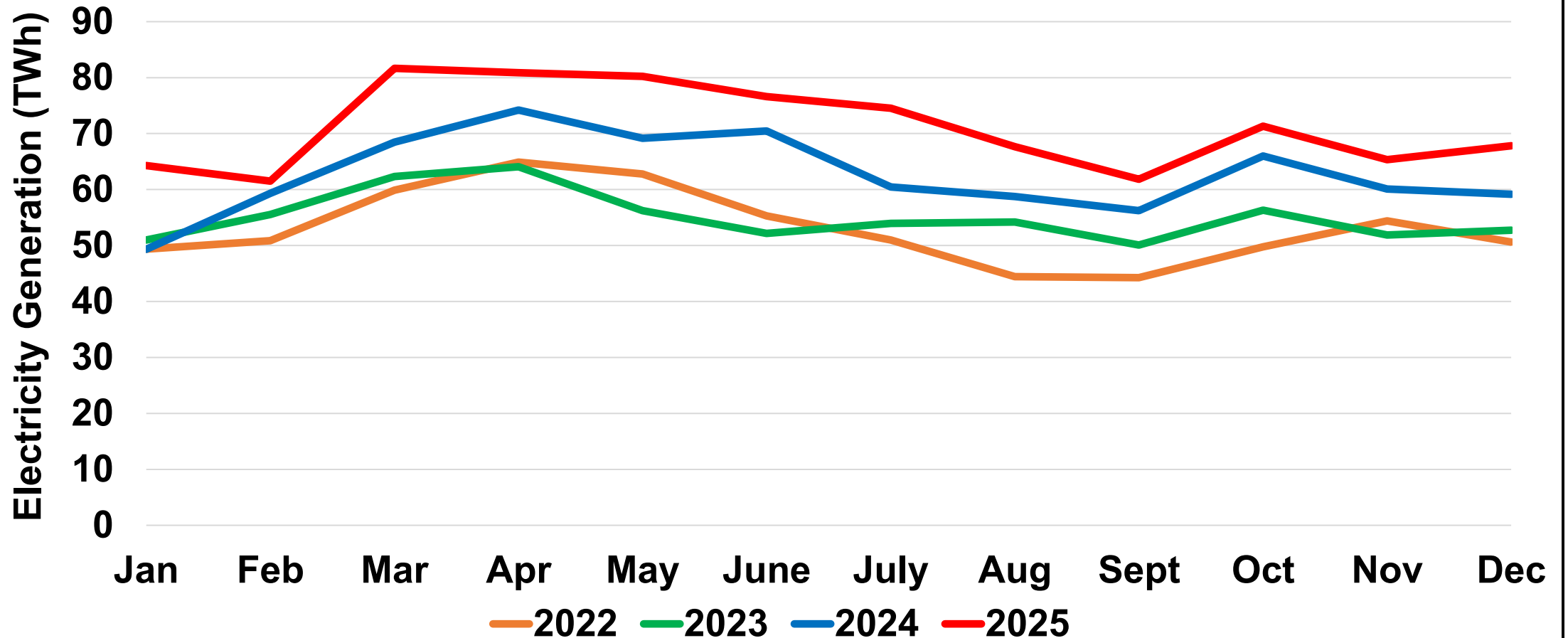
Note: PV Small is less than 1.0 MW; PV Utility is 1.0 MW and greater

# U.S. PV & Wind Electricity as % of Total Generation

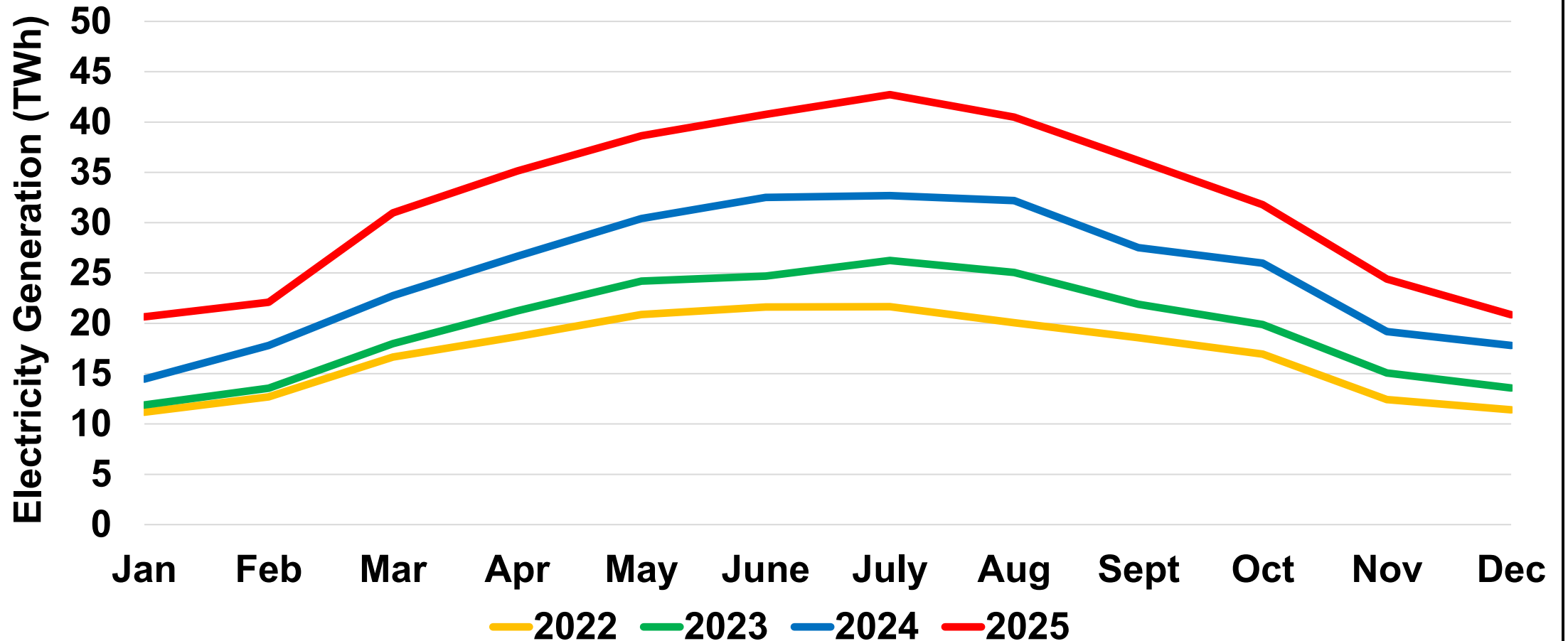
Actual through December 2025; Forecast through Dec. 2029



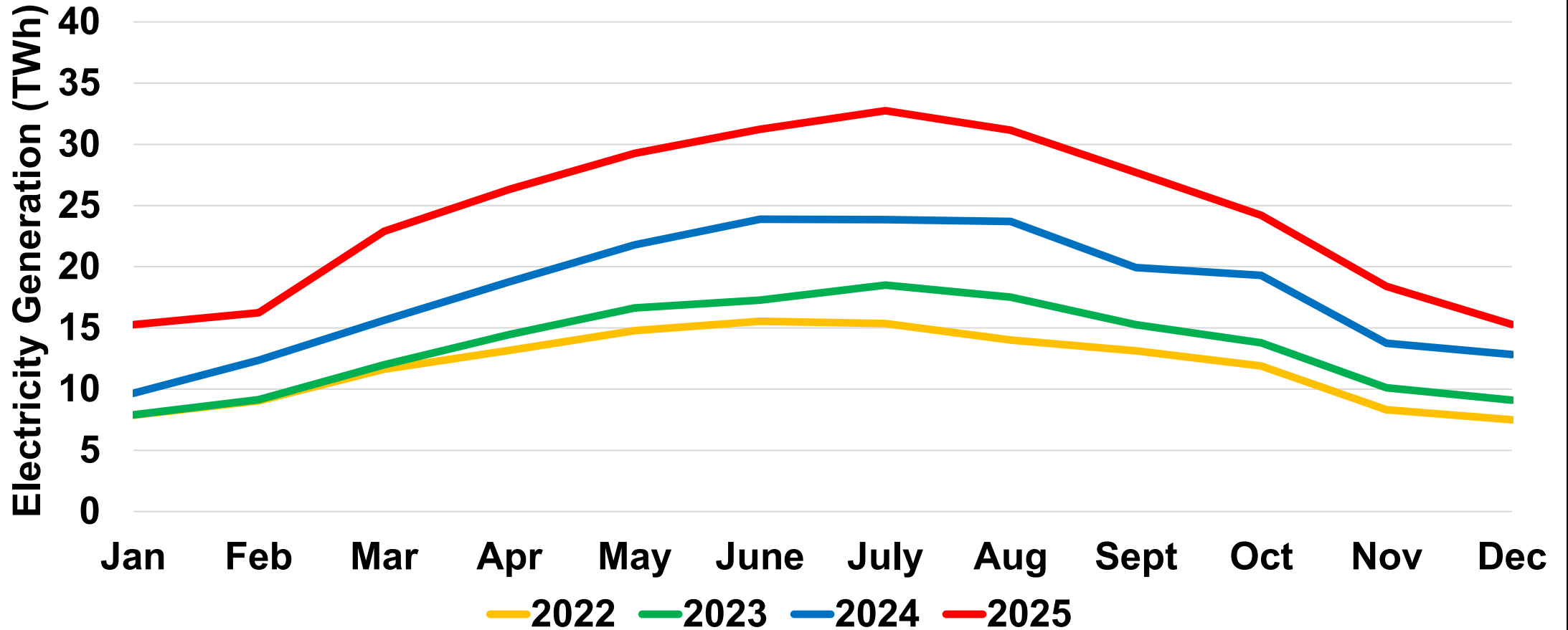
# Combined PV and Wind Electricity Generation Year-on-Year (through December 2025)



# PV Electricity Generation Year-on-Year (through December 2025)

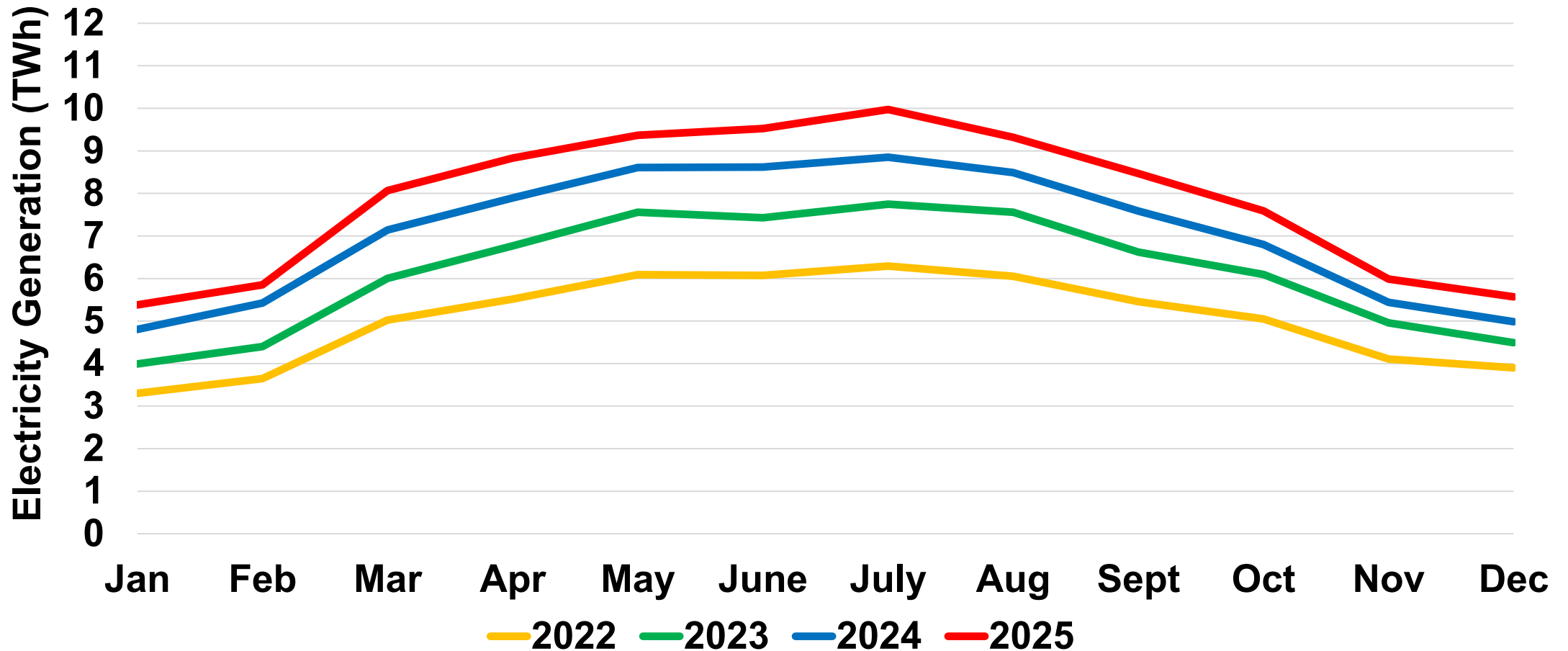


# Utility PV Electricity Generation Year-on-Year (through December 2025)

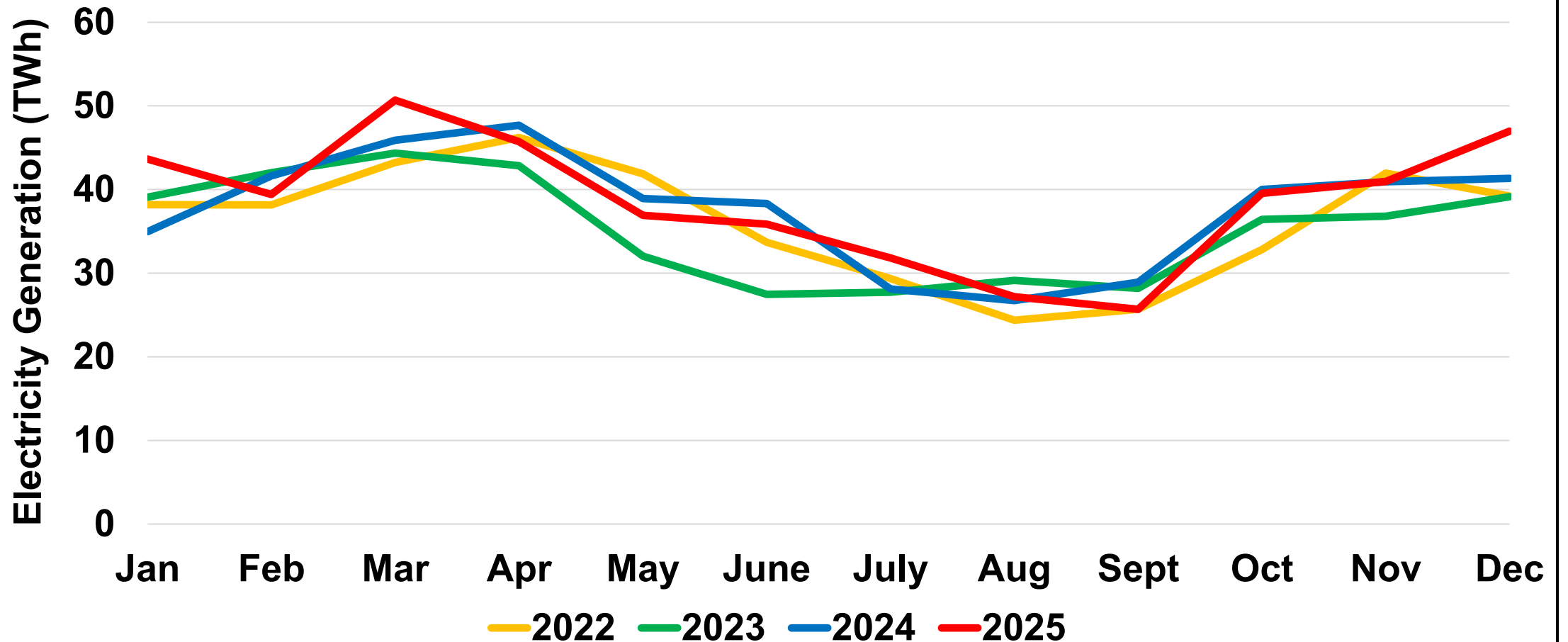


Note: PV Utility is greater than 1.0 MW

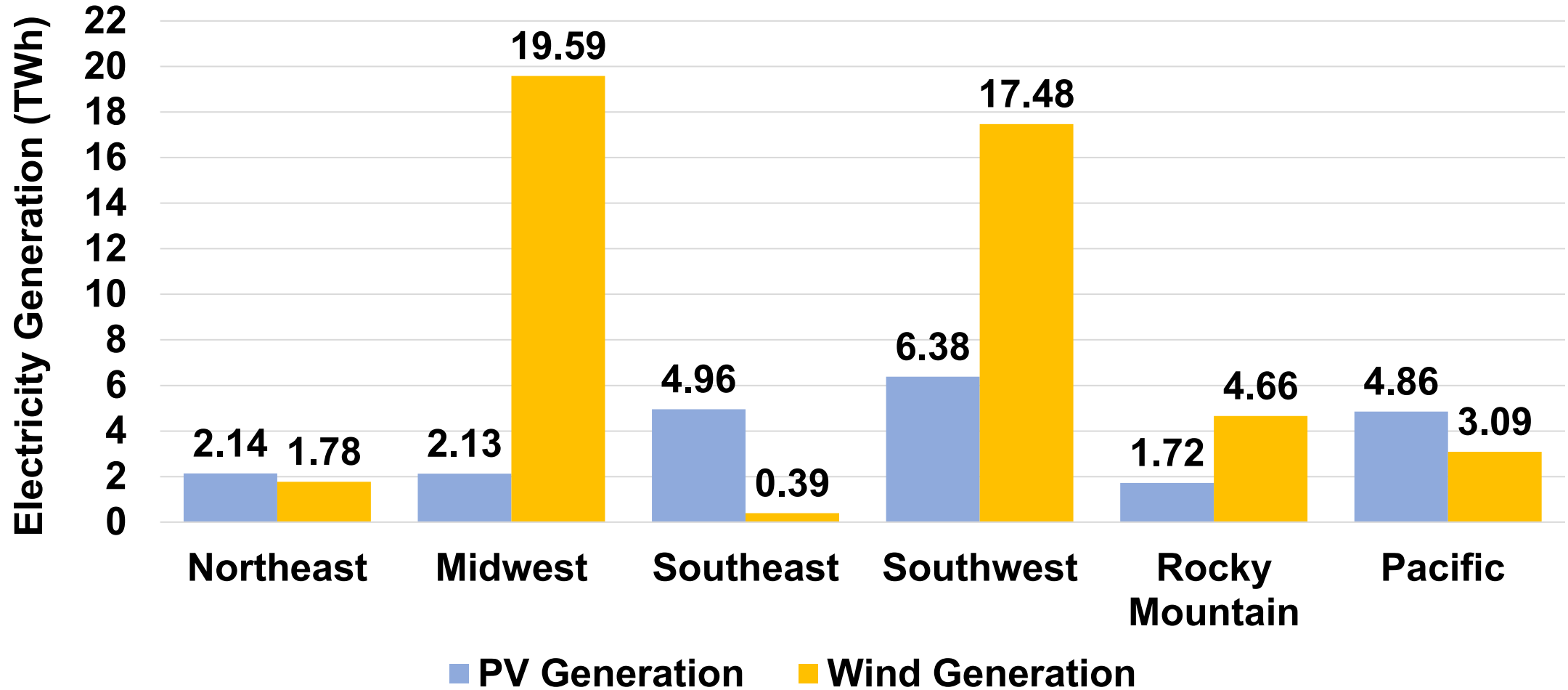
# Small PV Electricity Generation Year-on-Year (through December 2025)



# Wind Electricity Generation Year-on-Year (through December 2025)



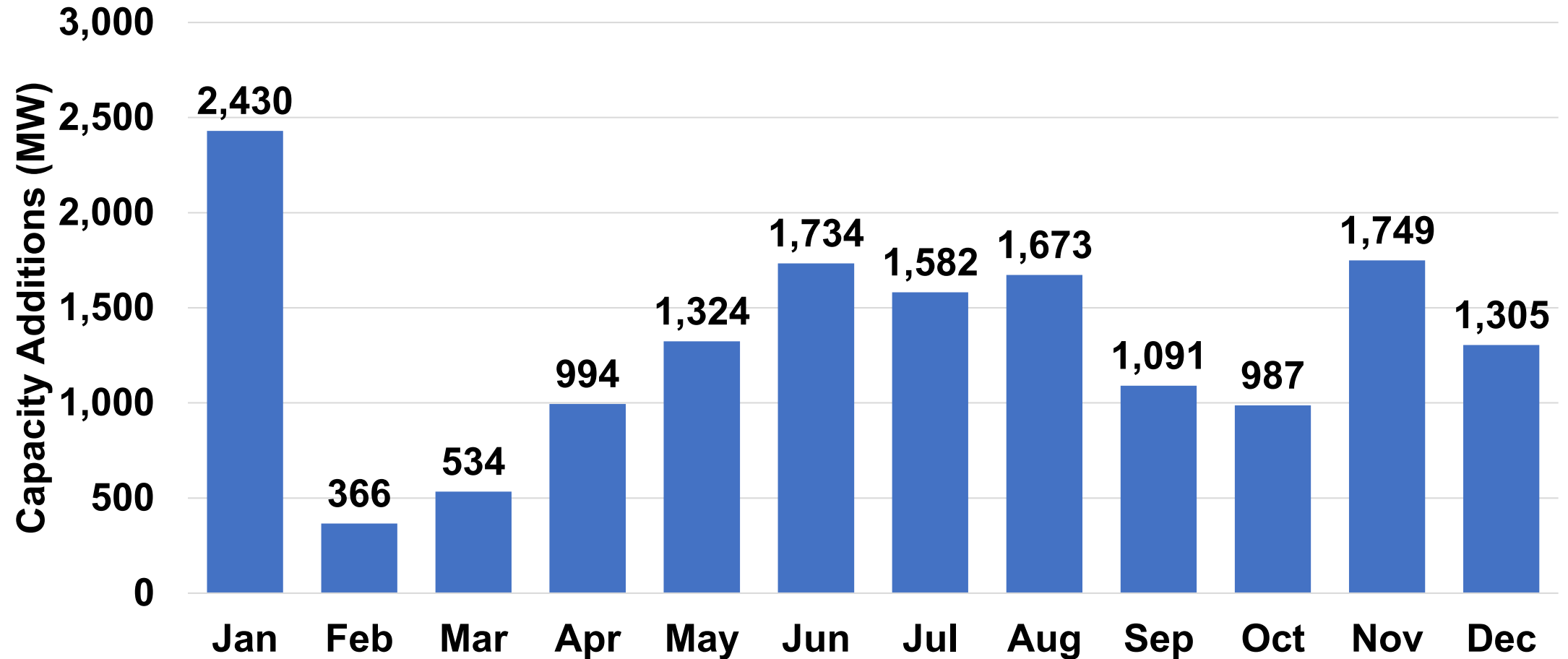
# Regional PV & Wind Electricity Generation December 2025



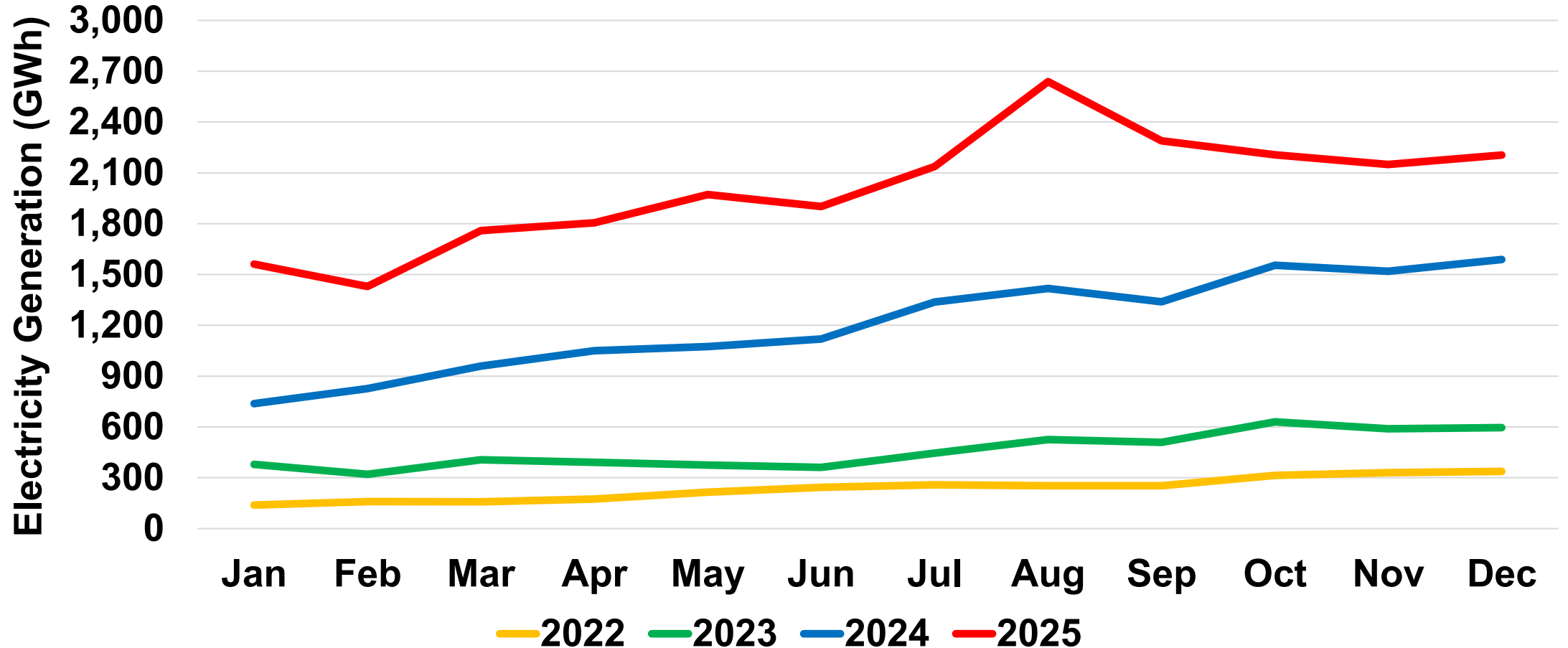


# U.S. Battery Storage

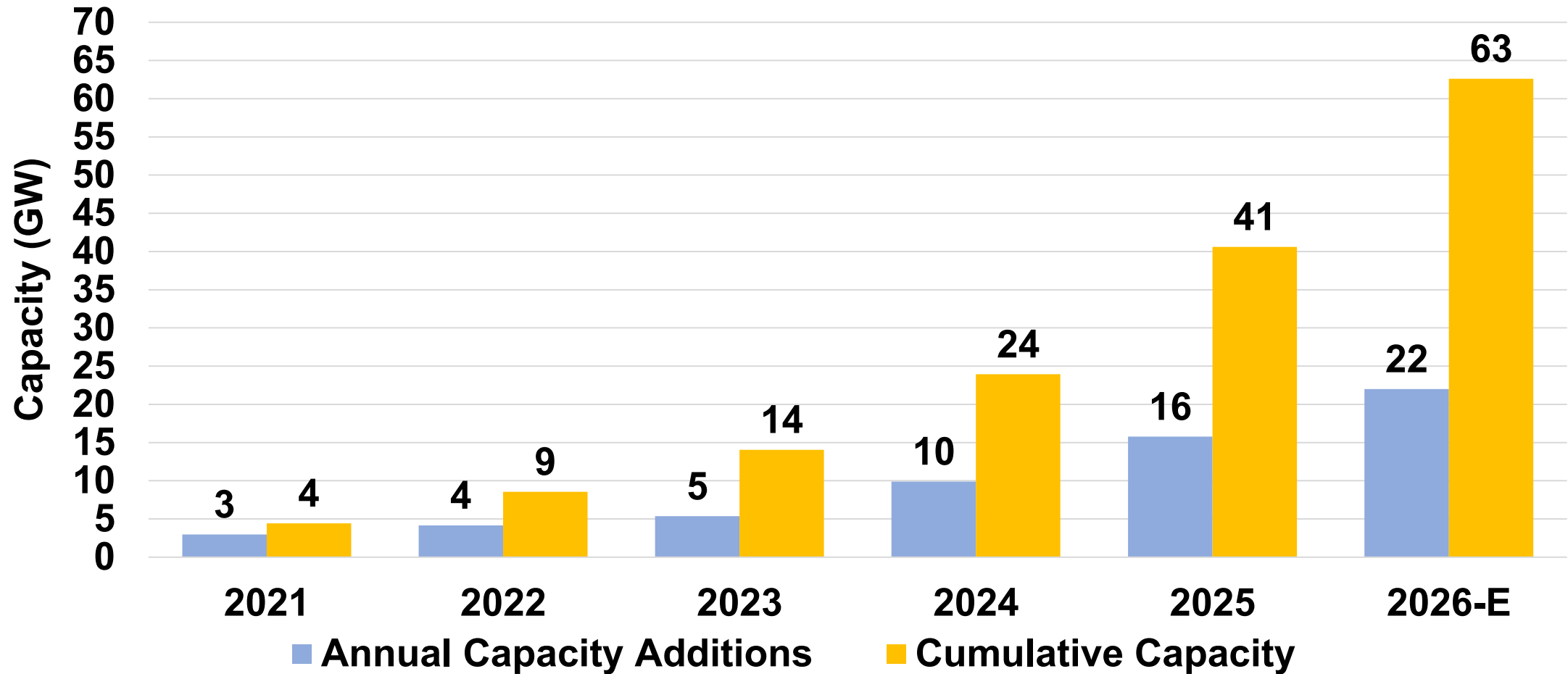
# Battery Storage Capacity Additions 2025 (through December)



# Battery Electricity Generation Year-on-Year (through December 2025)



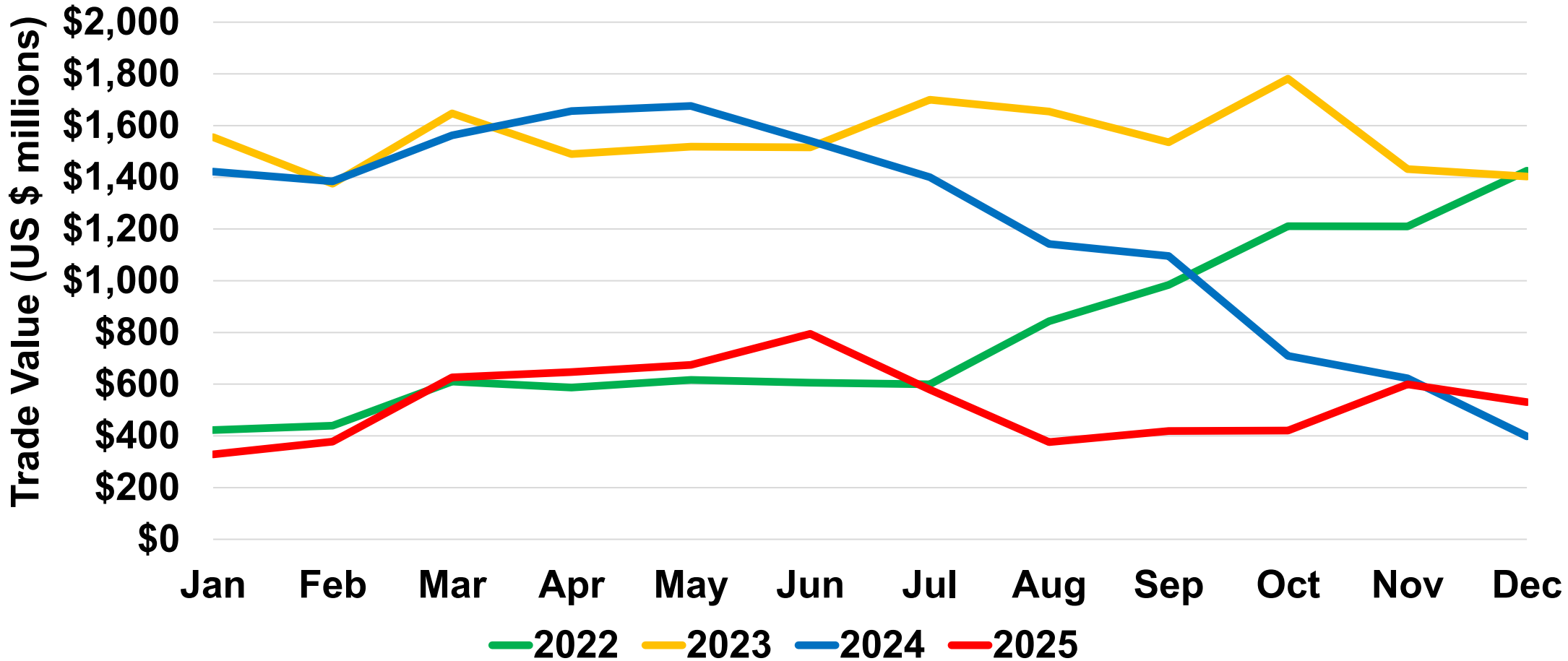
# Battery Storage Forecast 2026



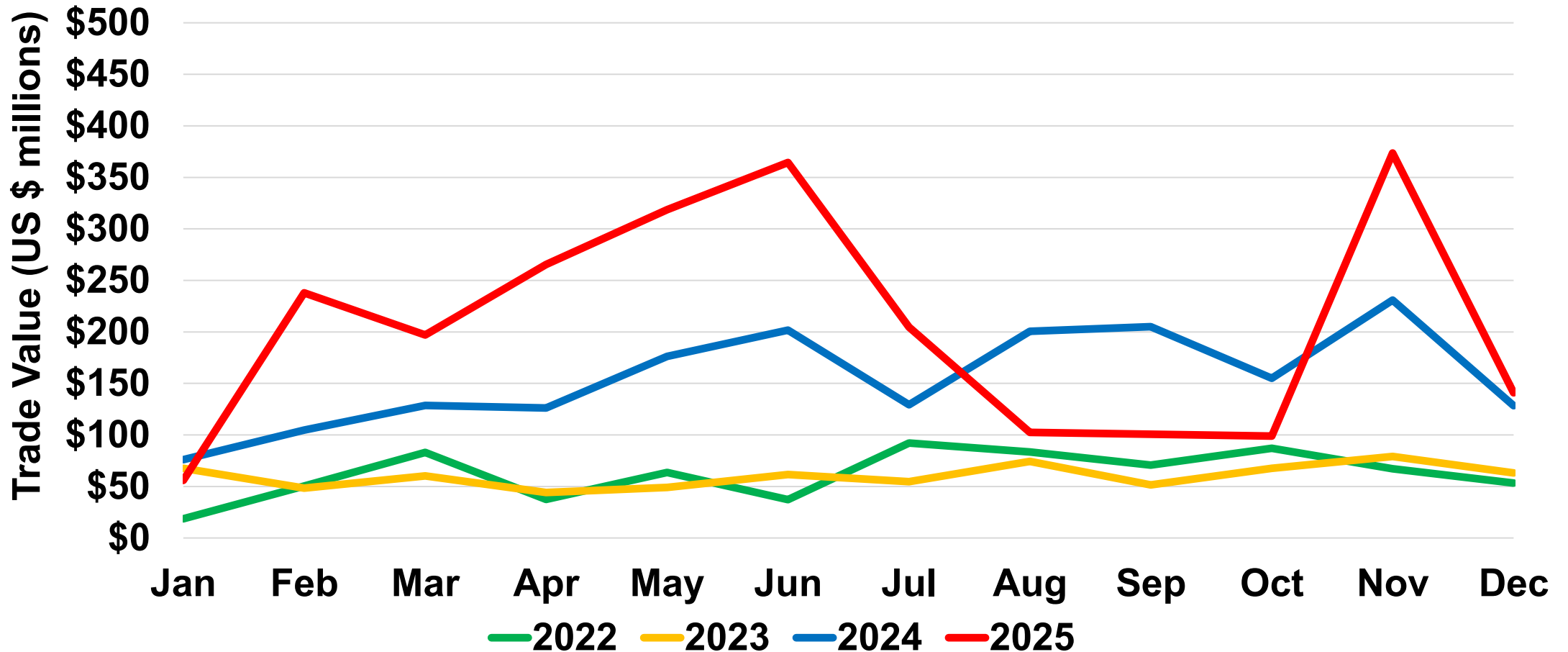


# **U.S. PV Trade (Cells and Modules)**

# U.S. Year-on-Year PV Panel Imports (through December 2025)



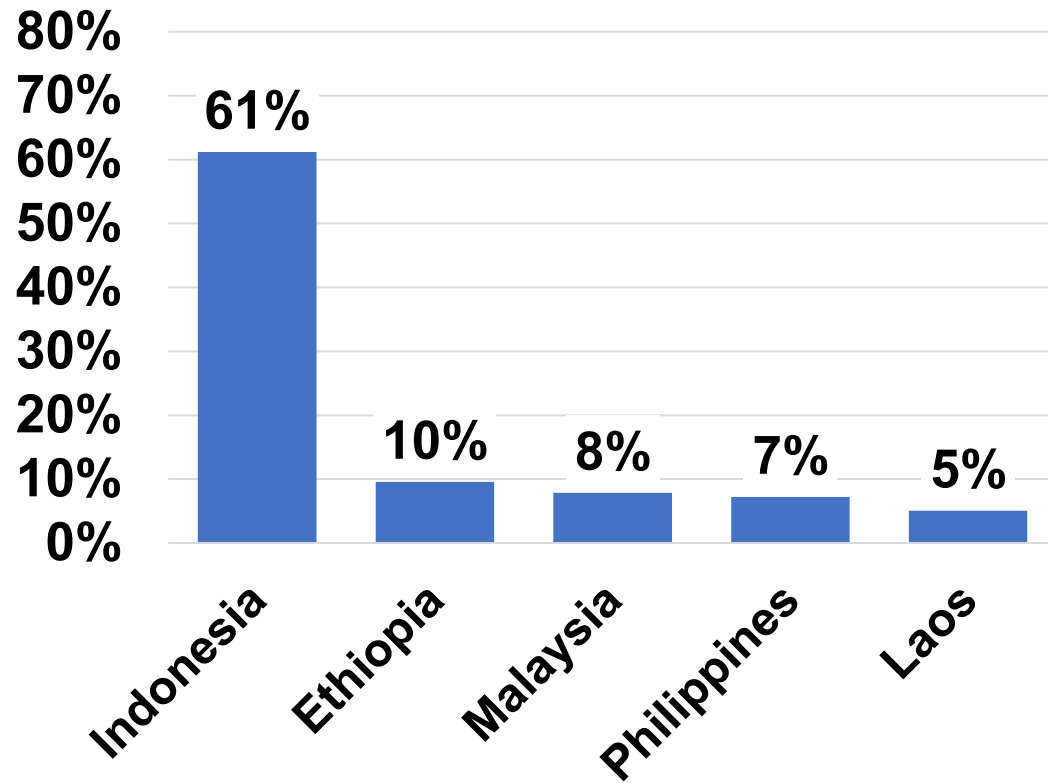
# U.S. Year-on-Year PV Cell Imports (through December 2025)



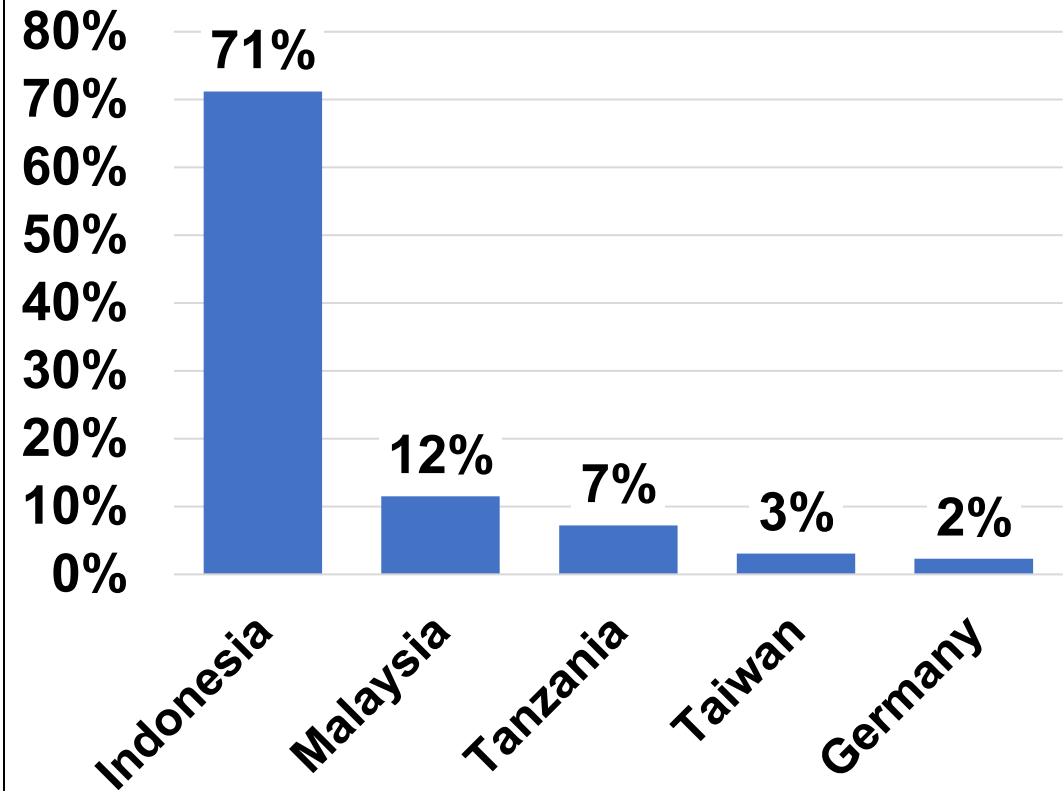
# Monthly U.S. PV Panel and Cell Imports by Country December 2025



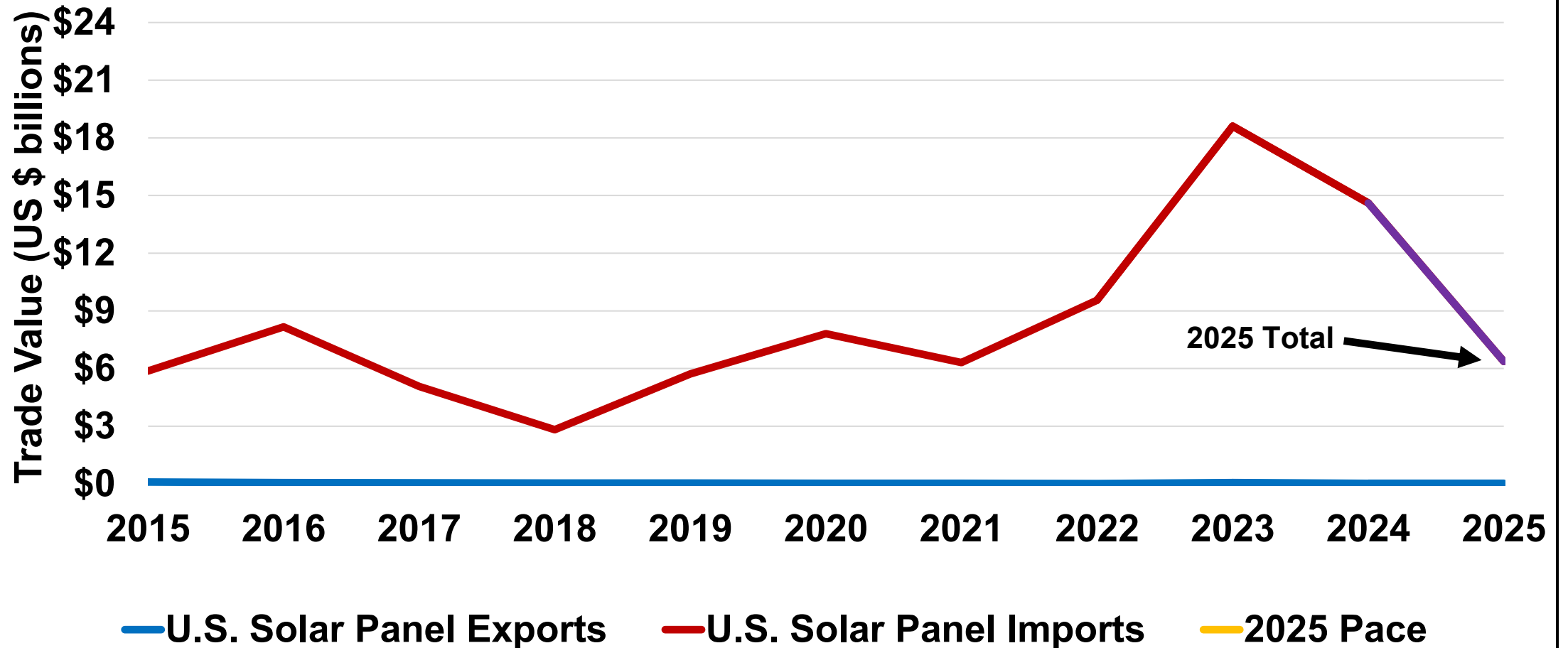
## U.S. PV Panel Imports by Country



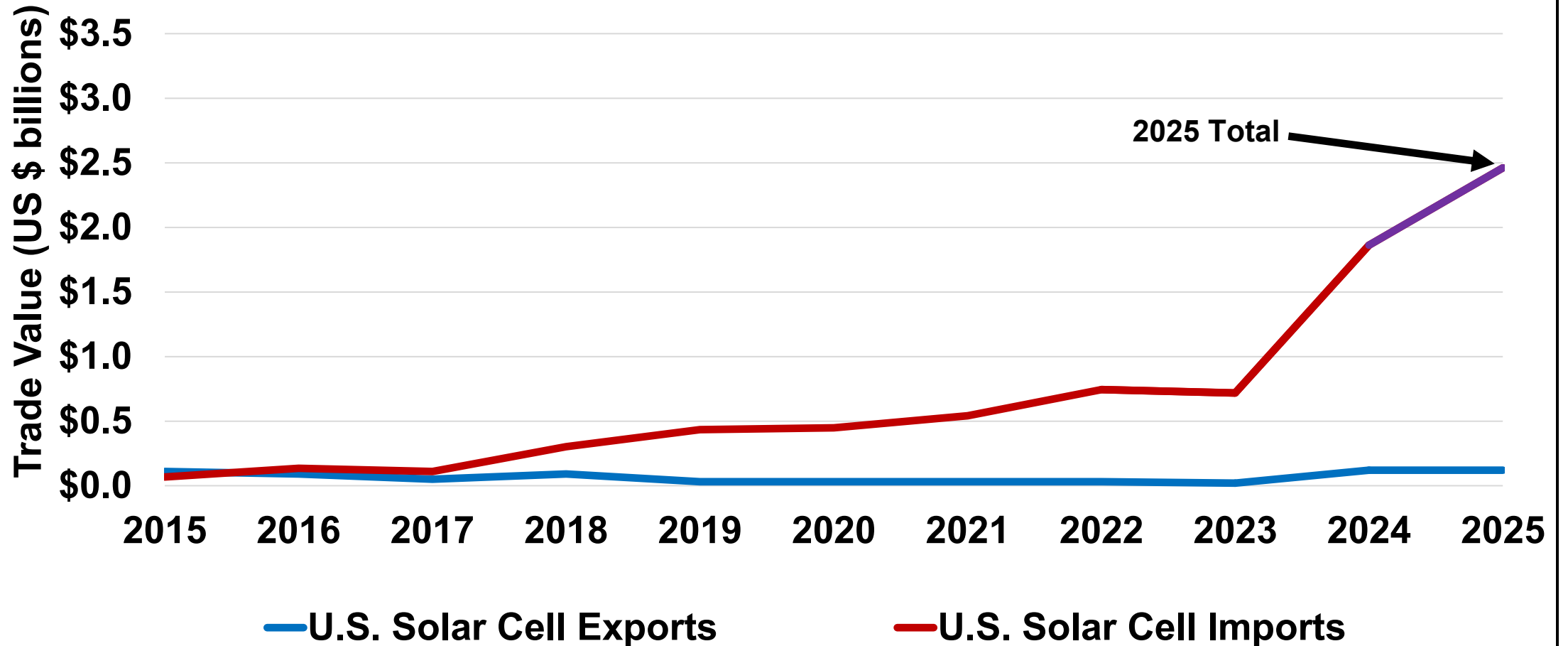
## U.S. PV Cell Imports by Country



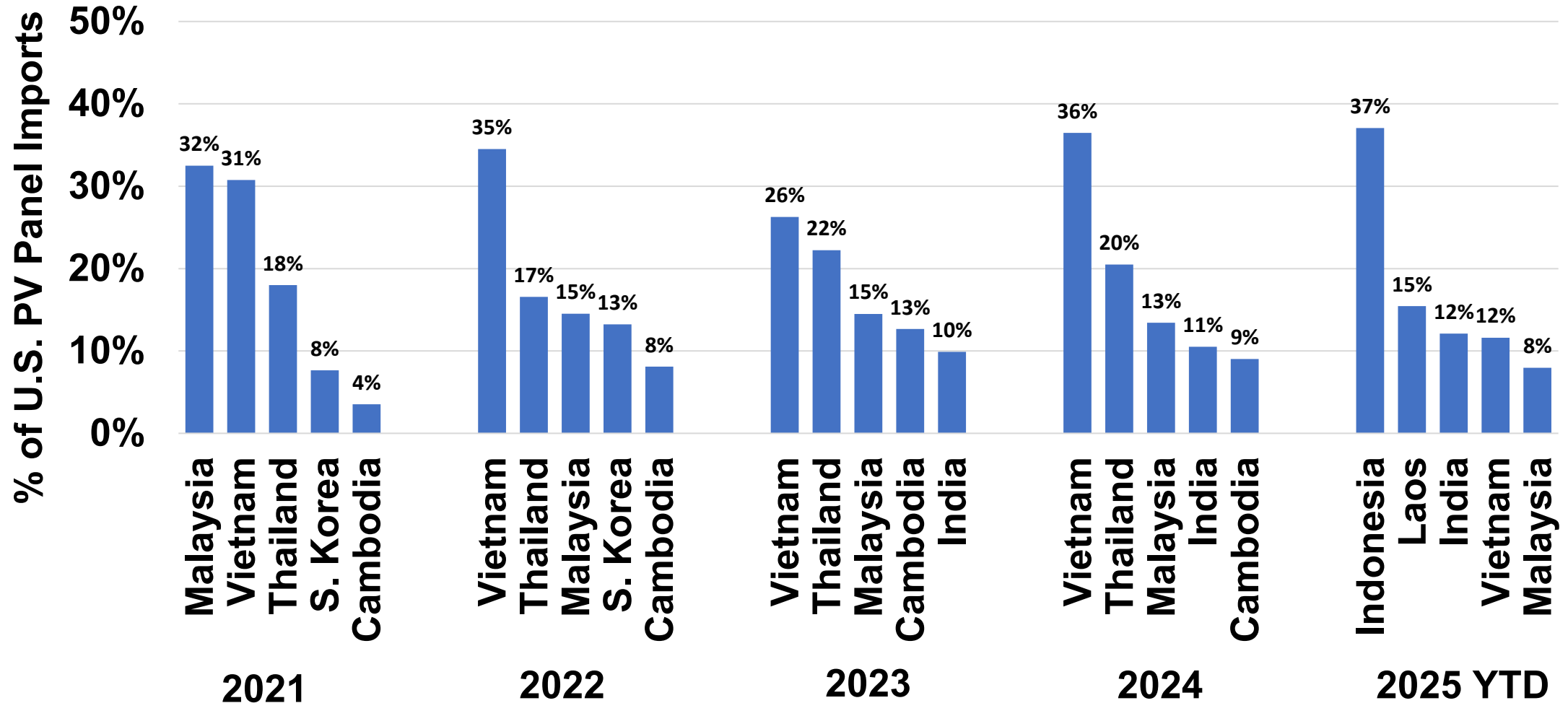
# Annual U.S. PV Panel Trade through December 2025



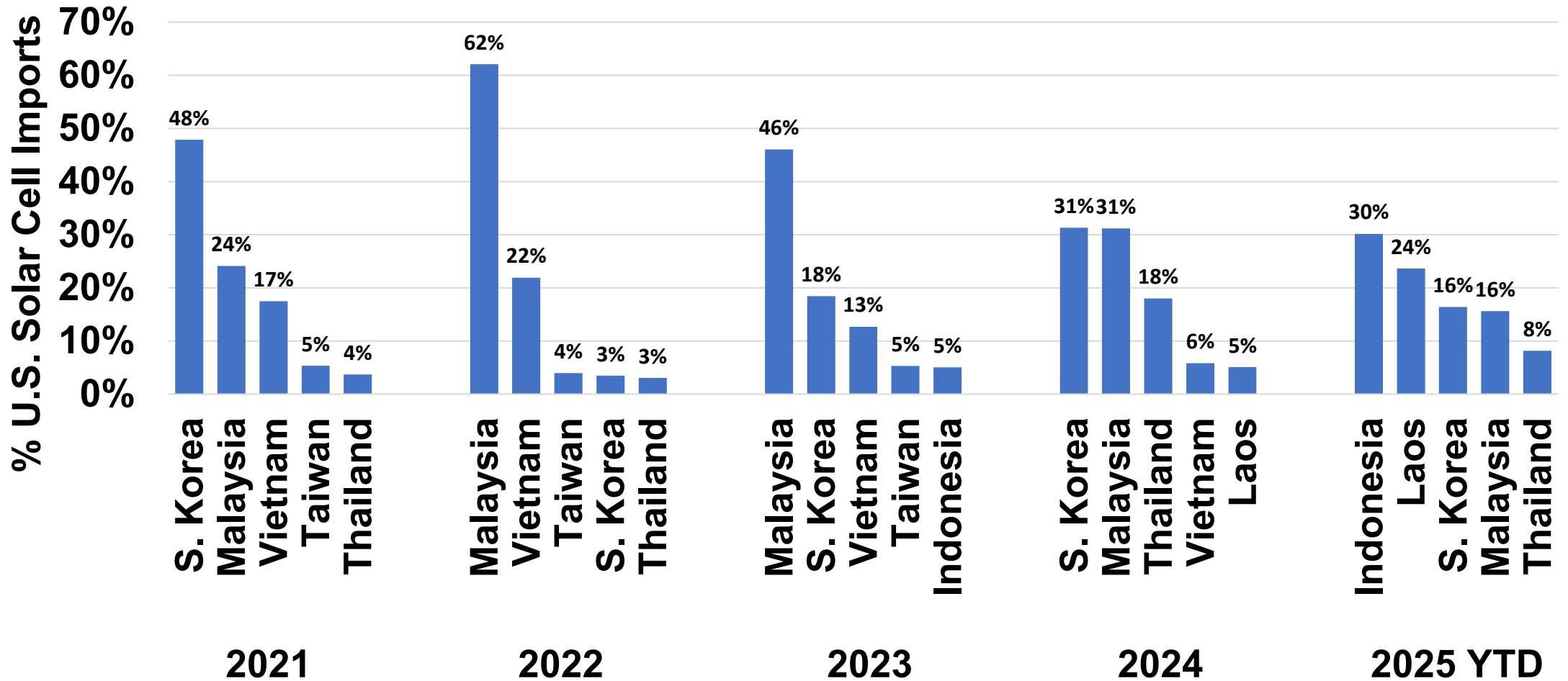
# Annual U.S. PV Cell Trade through December 2025



# Annual U.S. PV Panel Imports Rank Order of Countries Year-to-Date through December 2025



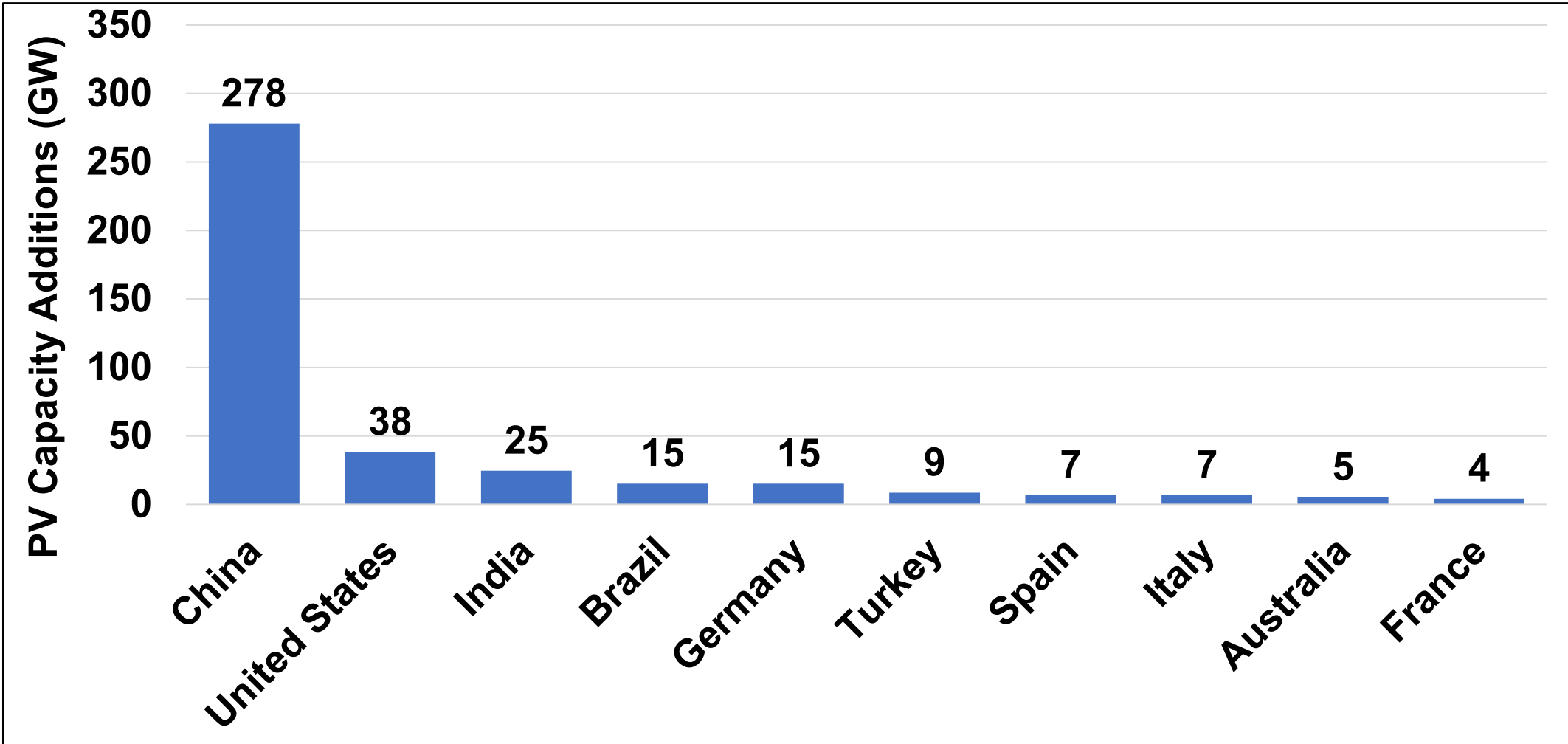
# Annual U.S. PV Cell Imports Rank Order of Countries Year-to-Date through November 2025



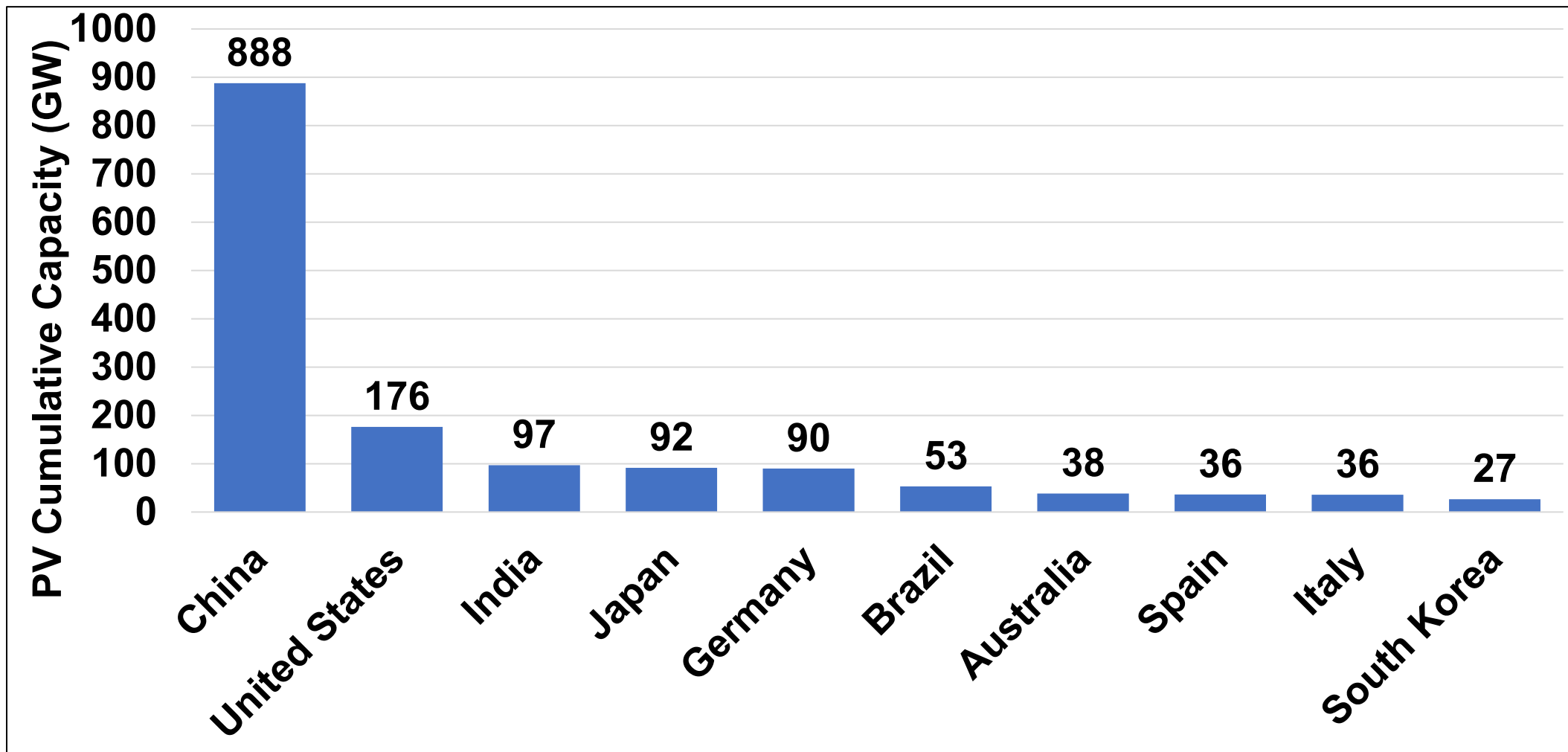


# World PV and Wind

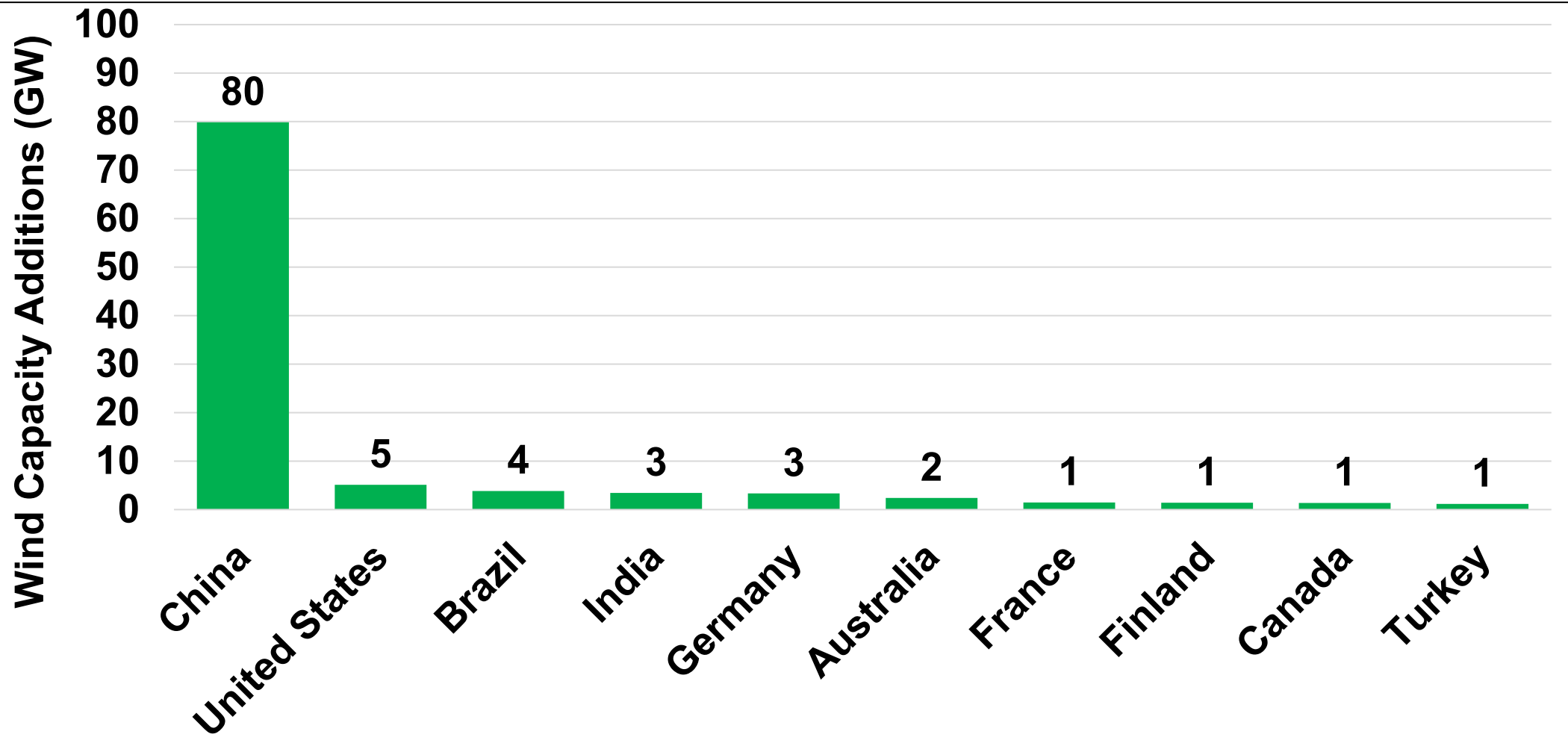
# World PV Capacity Additions 2024 Top Ten Countries



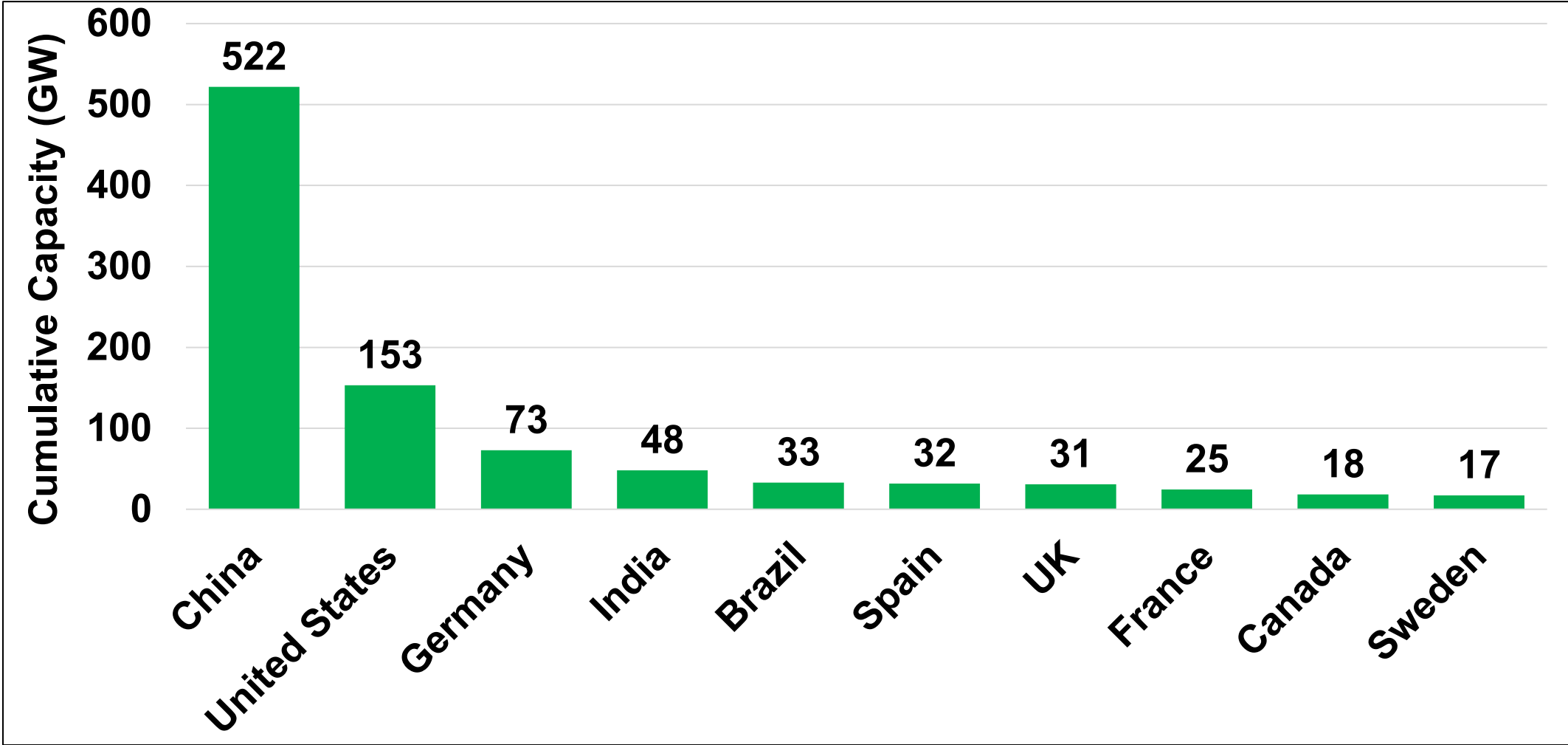
# World PV Cumulative Installed Capacity 2024 Top Ten Countries



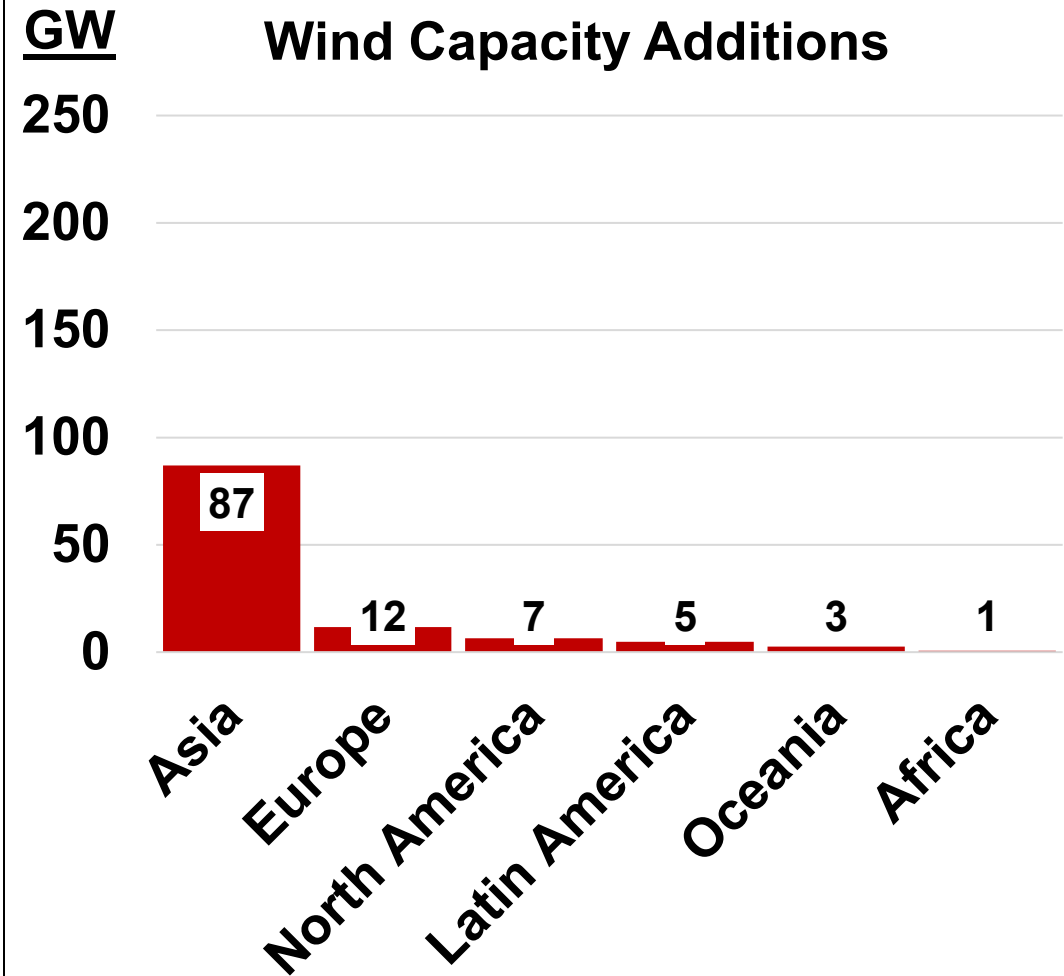
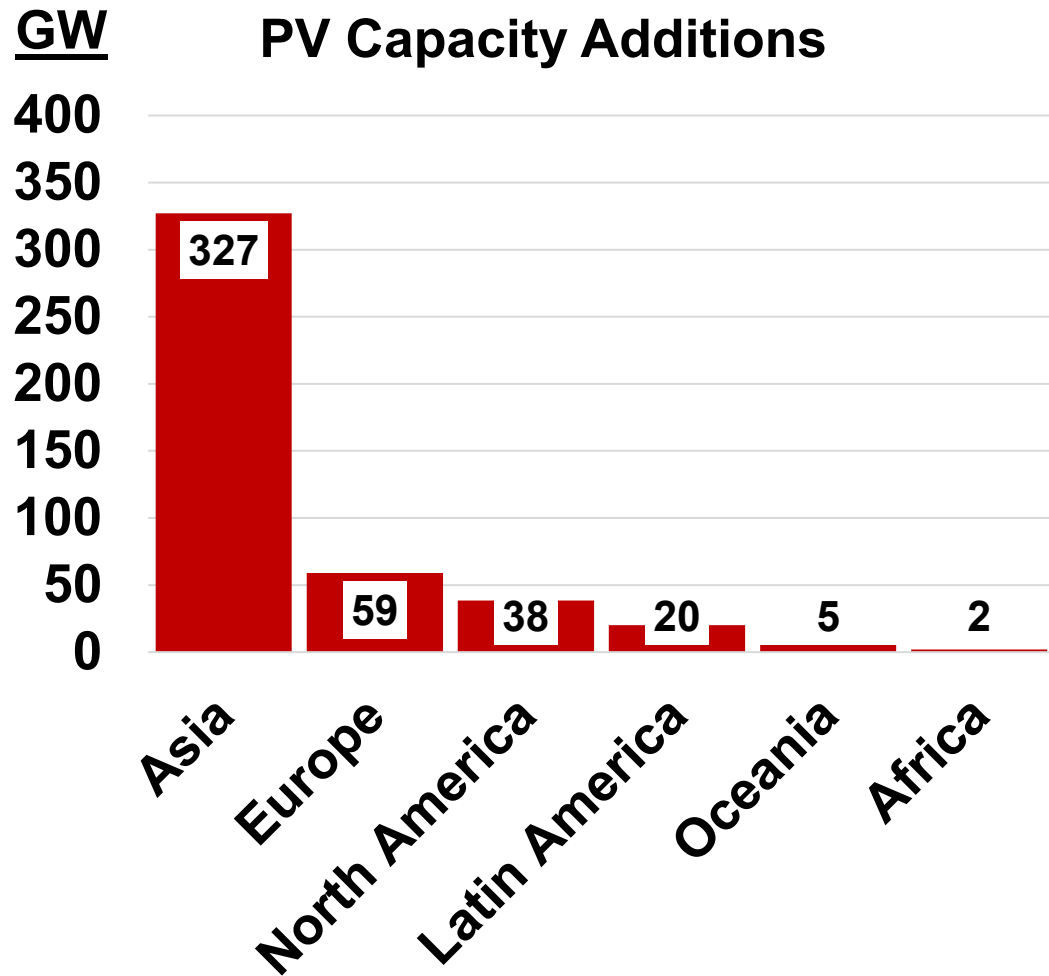
# World Wind Capacity Additions 2024 Top Ten Countries



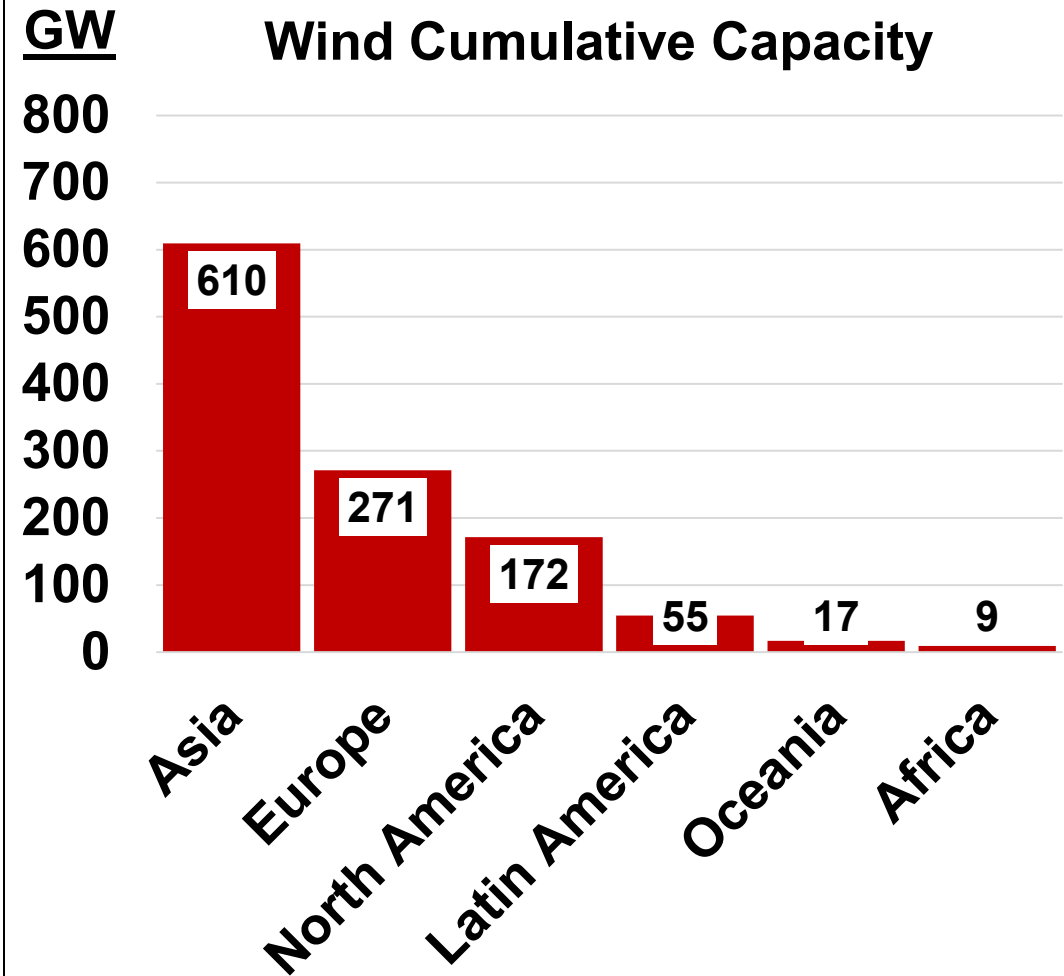
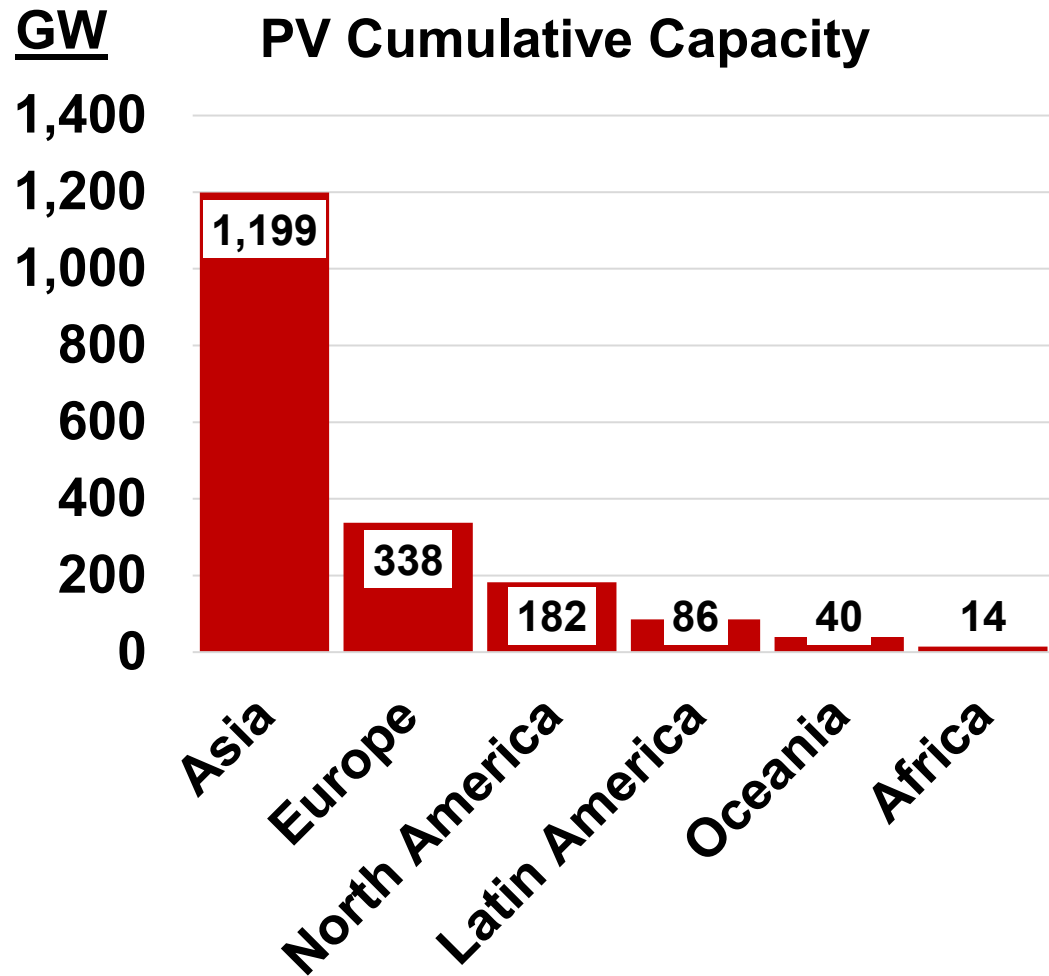
# World Wind Cumulative Installed Capacity 2024 Top Ten Countries



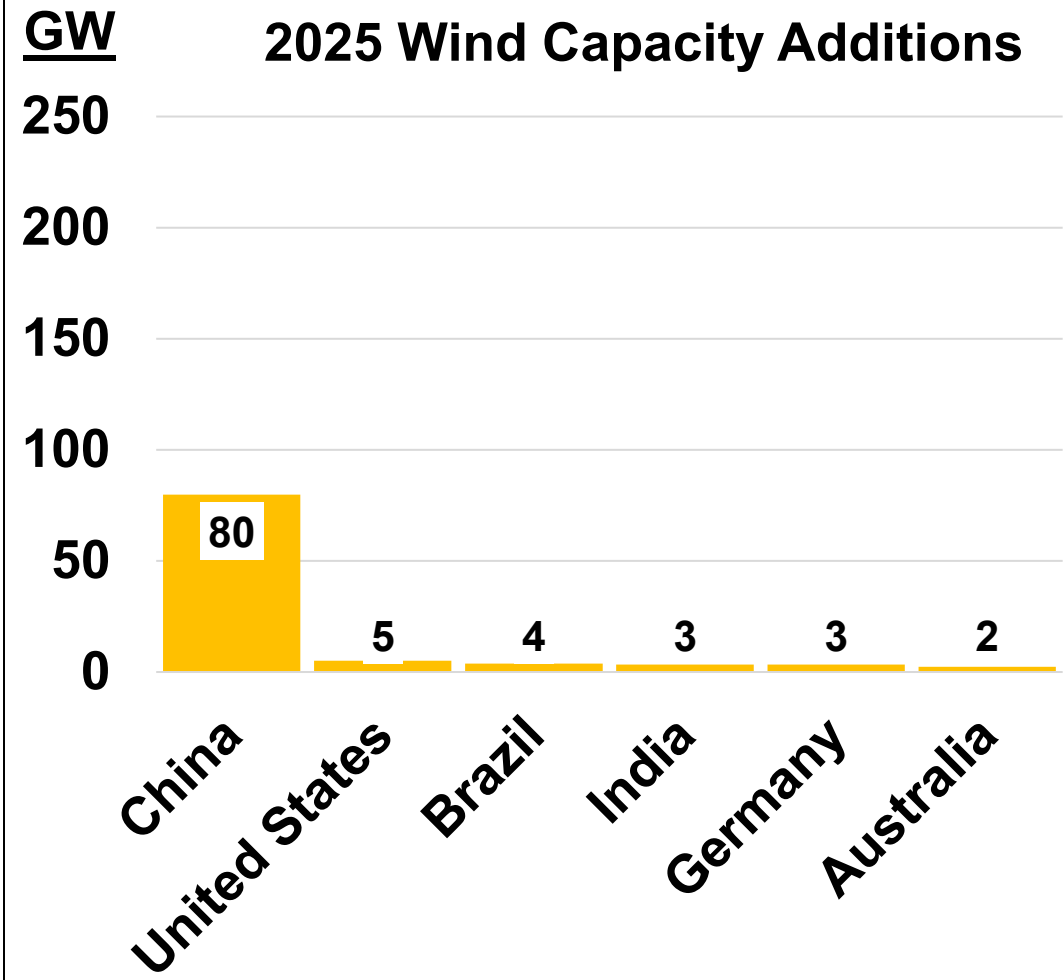
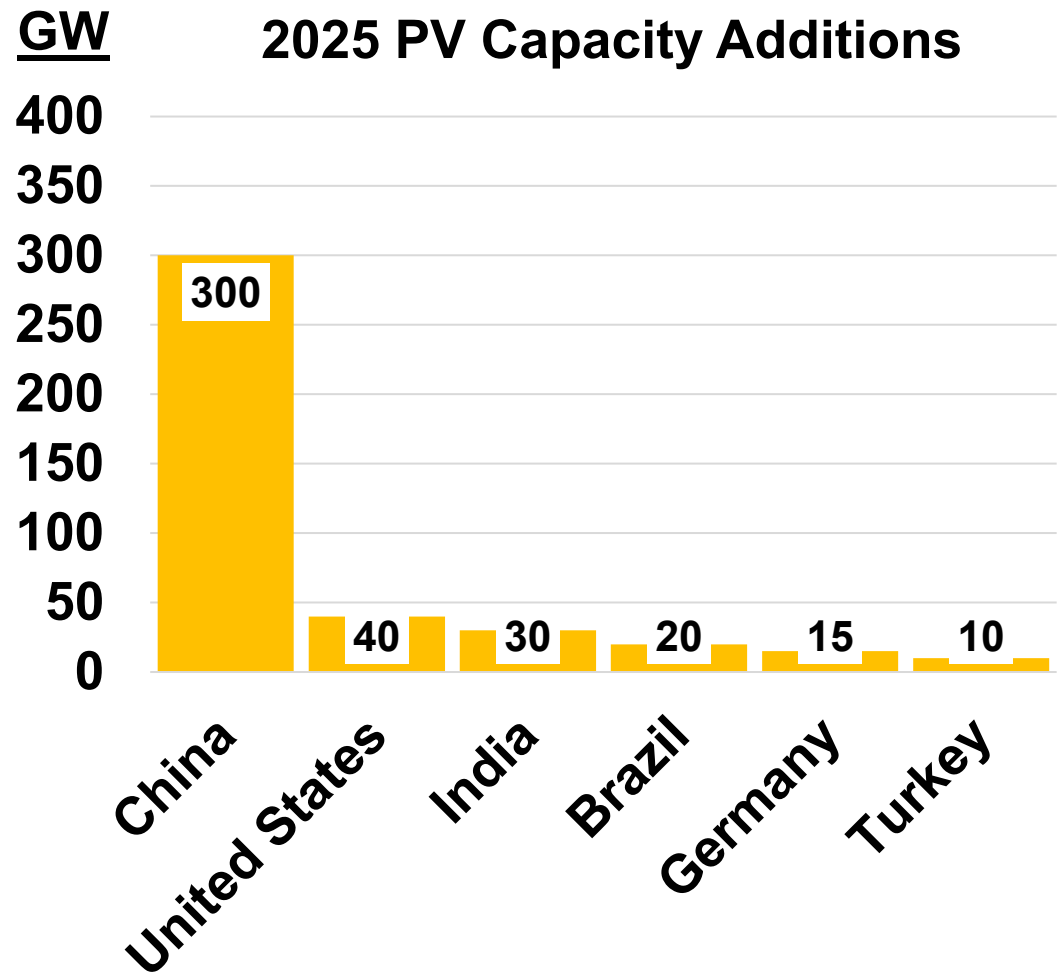
# 2024 World Regional PV and Wind Capacity Additions



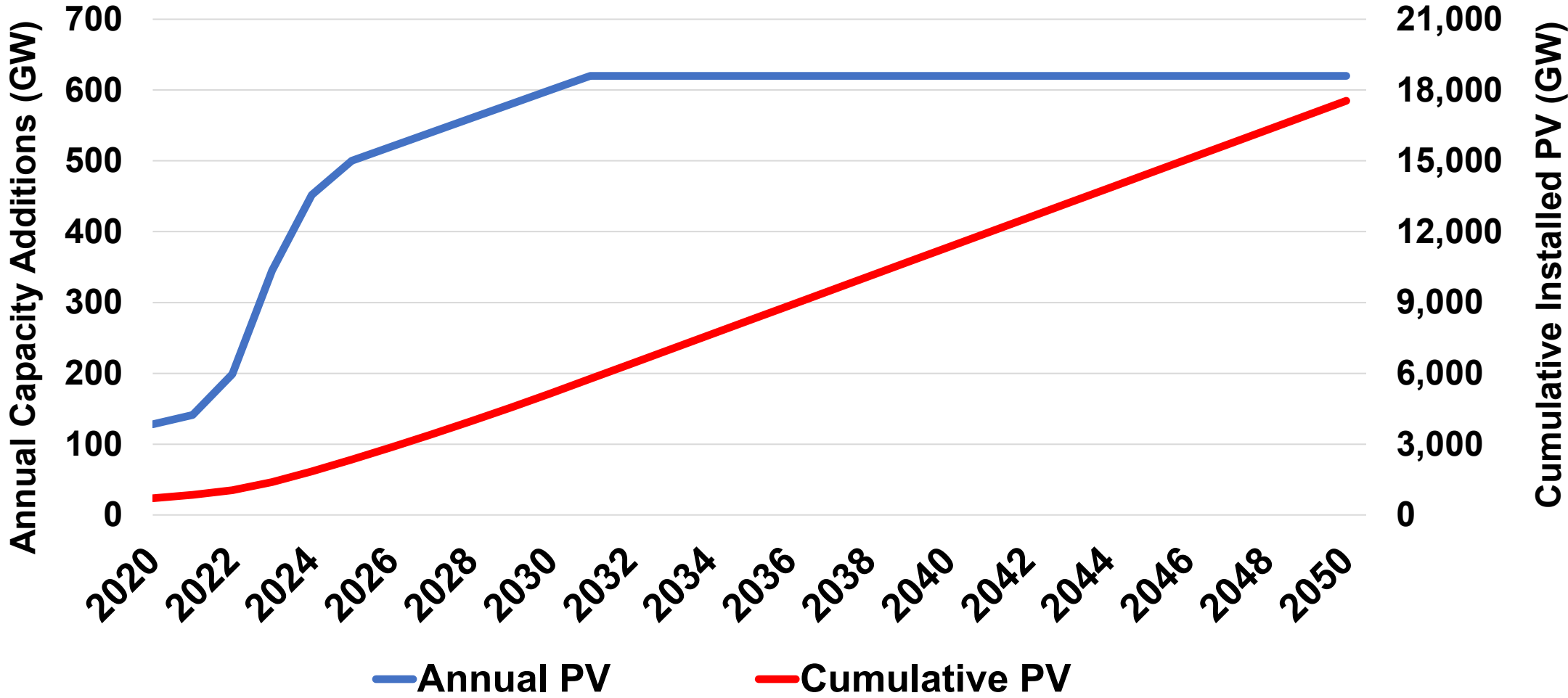
# 2024 World Regional PV and Wind Cumulative Capacity



# 2025 Forecast: World PV and Wind Capacity Additions



# ASAP's World PV Forecast through 2050

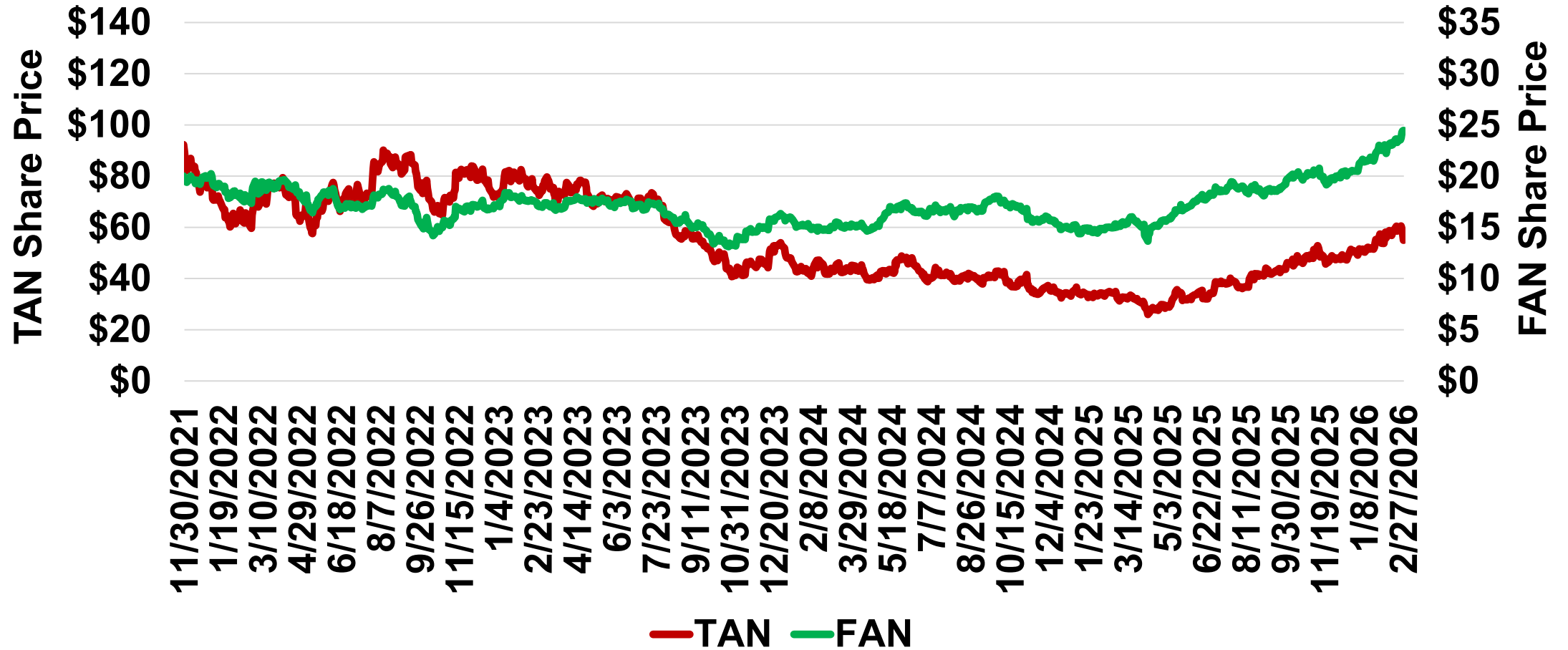




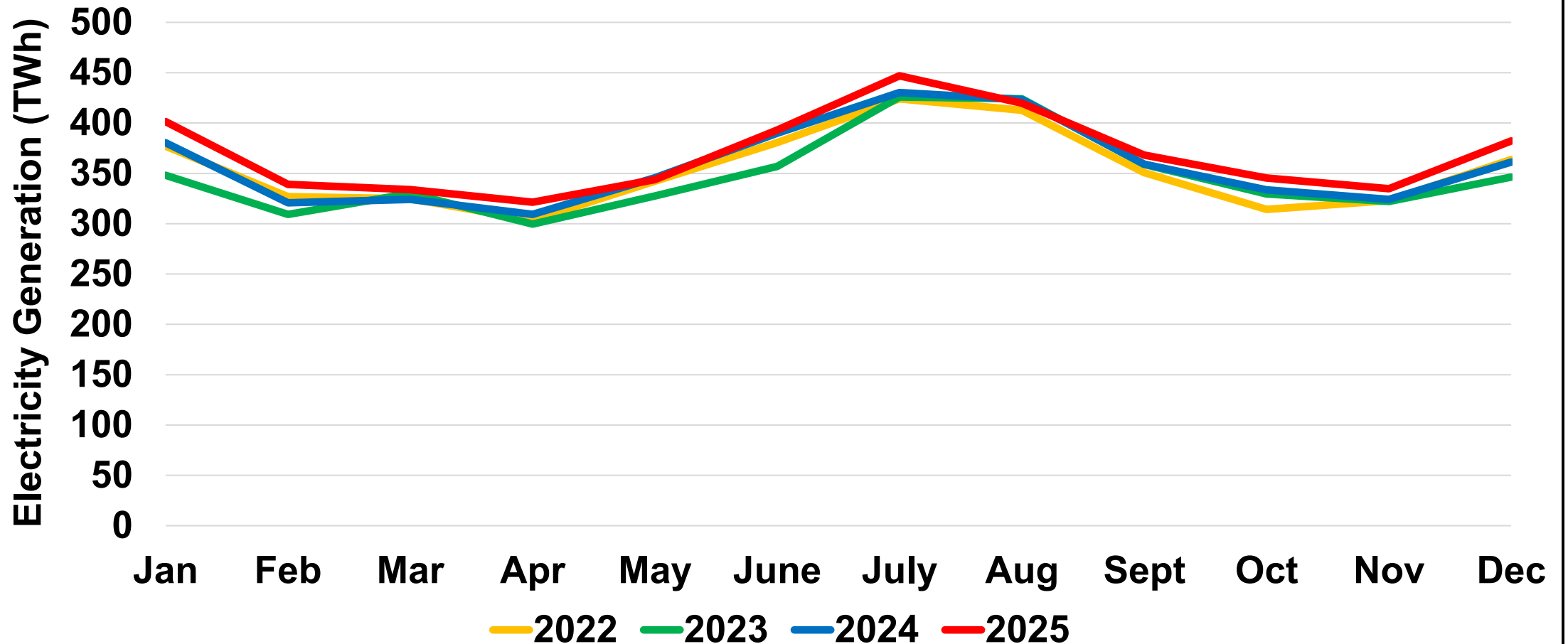
# U.S. Electricity Market Overview

**TAN and FAN Stock Prices**  
**Monthly Electricity Supply and Demand**  
**Electricity and Energy CO<sub>2</sub> Emissions**

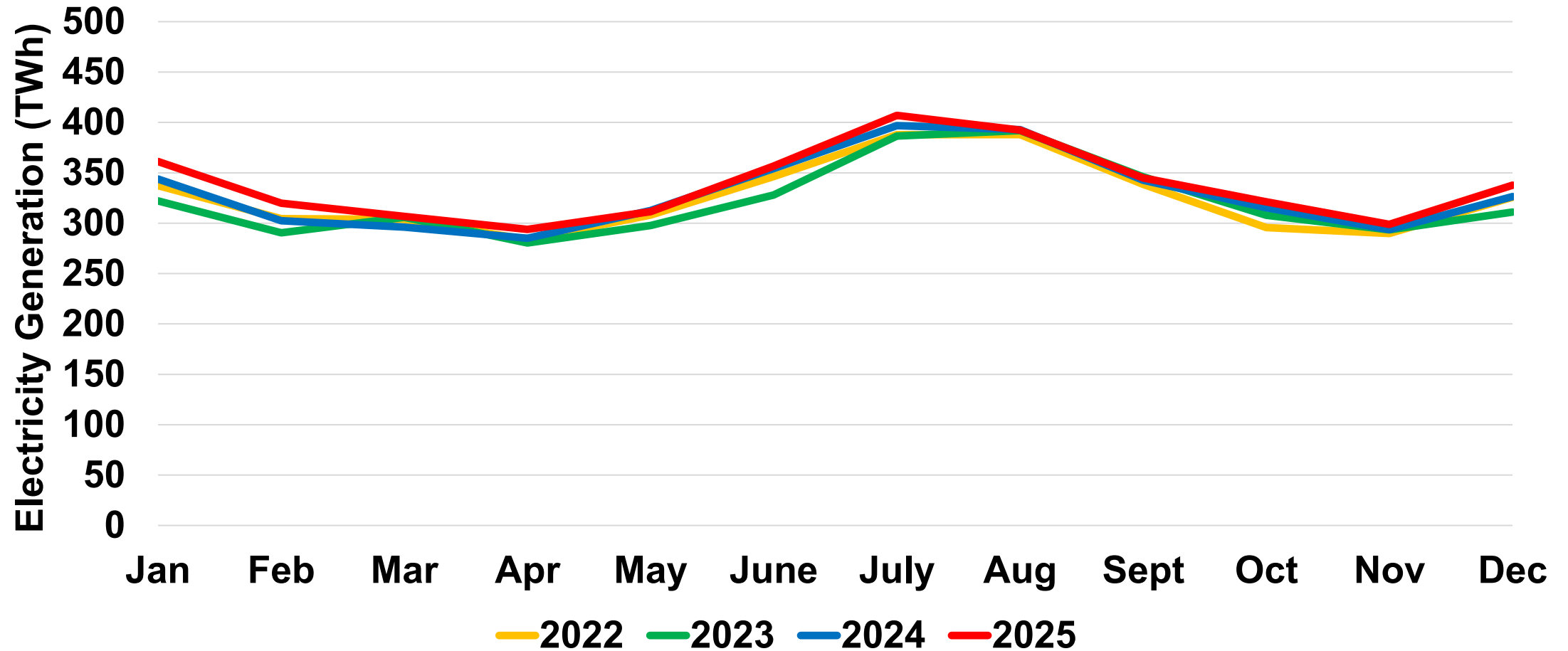
# TAN (Solar) and FAN (Wind) ETF Share Prices Adjusted Close Prices through February 27, 2026



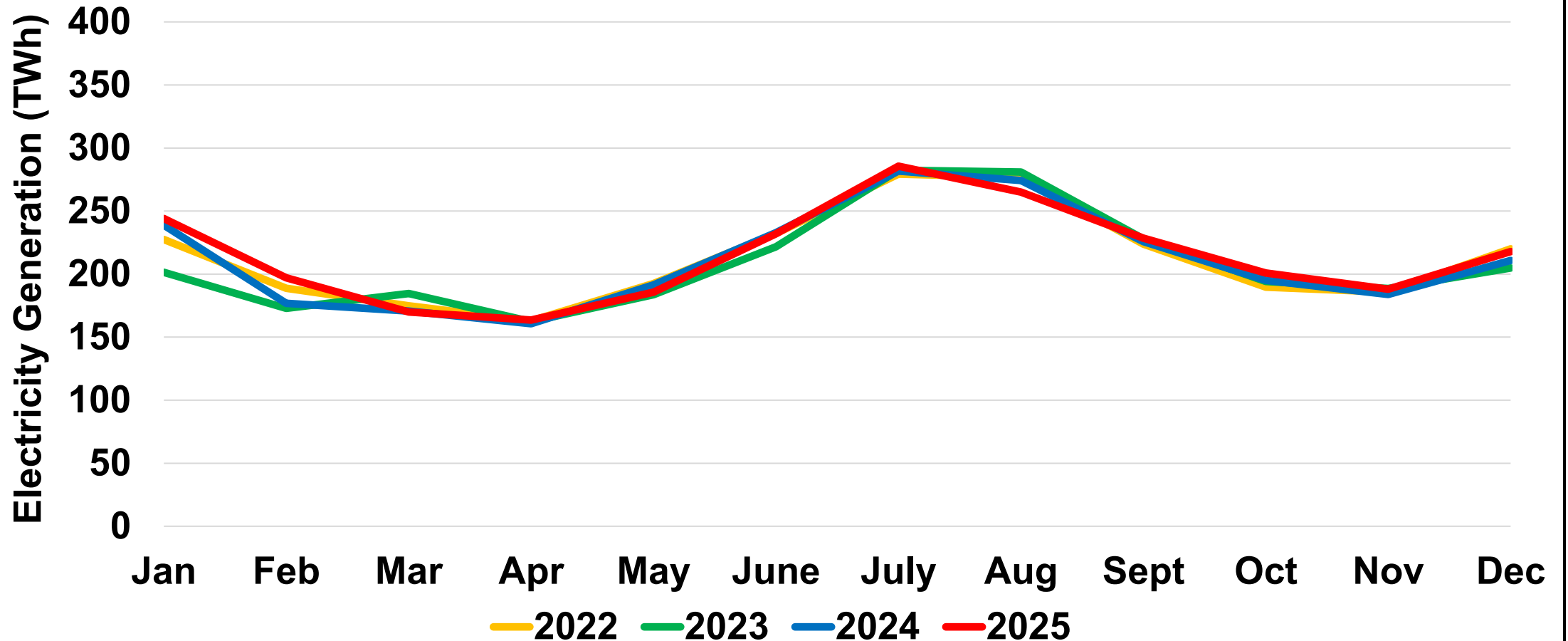
# U.S. Total Electricity Generation Year-on-Year (through December 2025)



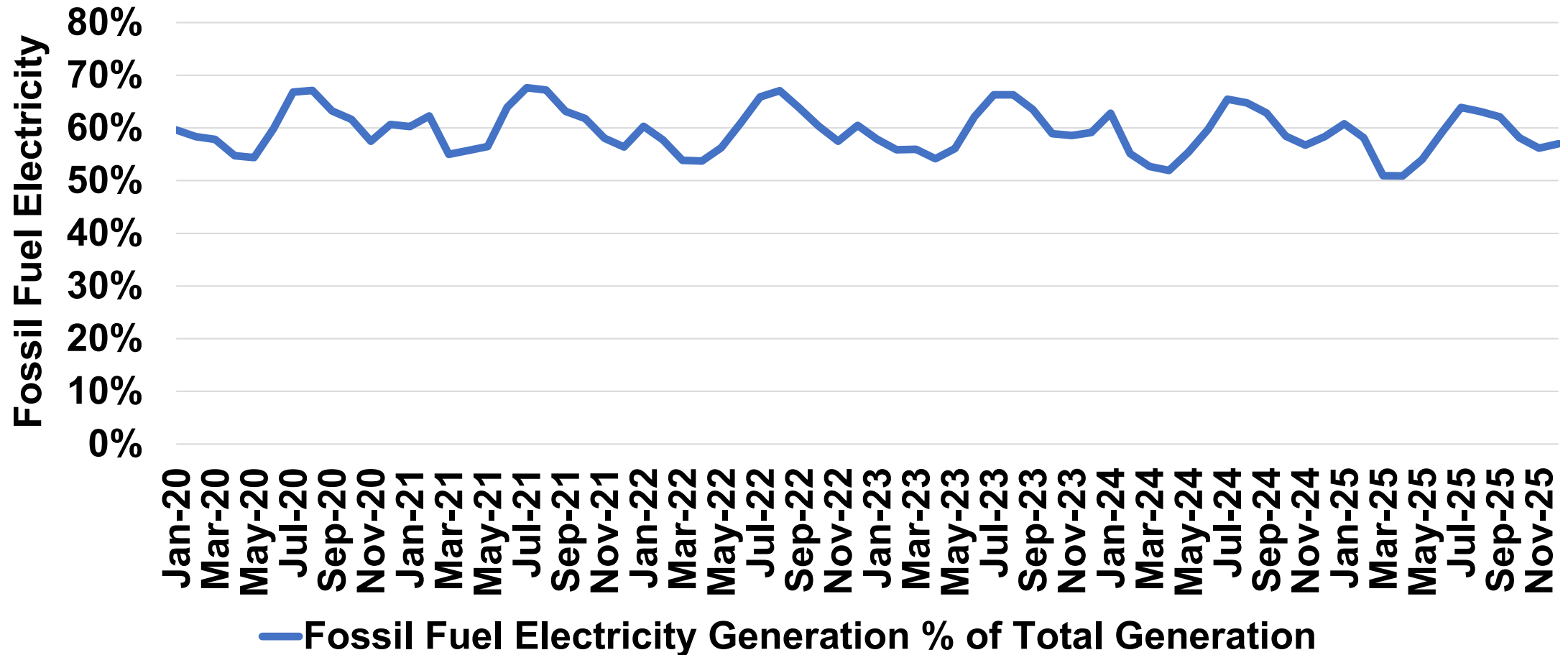
# U.S. Total Electricity Demand (Retail Sales) Year-on-Year (through December 2025)



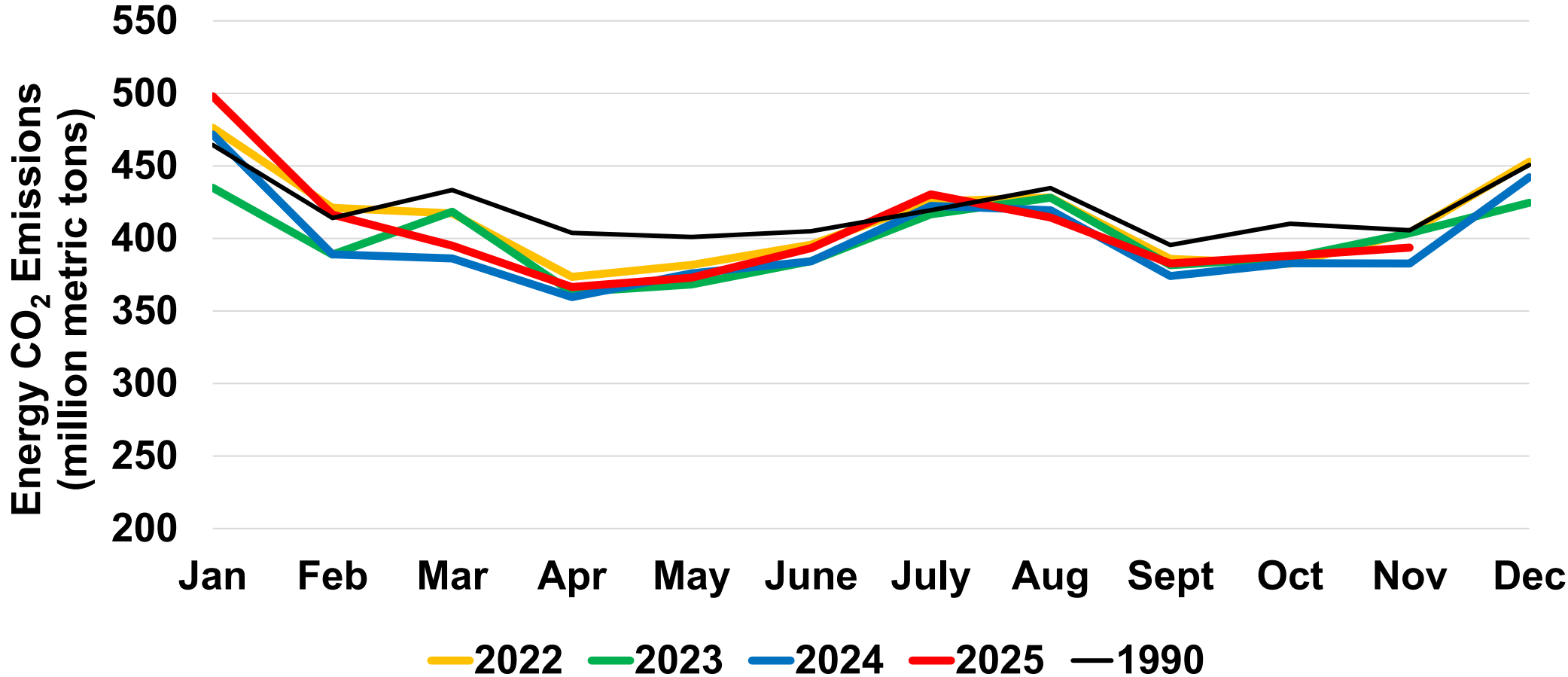
# U.S. Fossil Fuel Electricity Generation Year-on-Year (through December 2025)



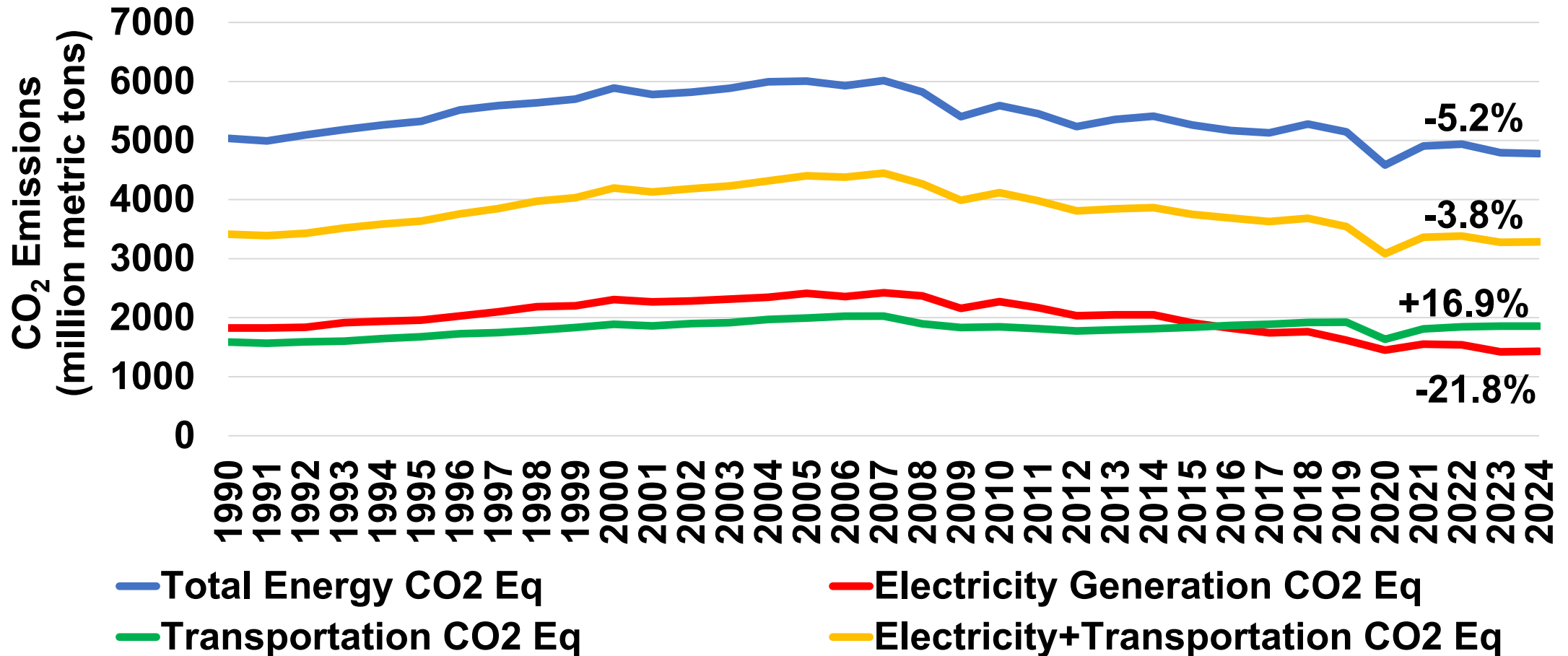
# U.S. Fossil Fuel Electricity % of Total Generation through December 2025



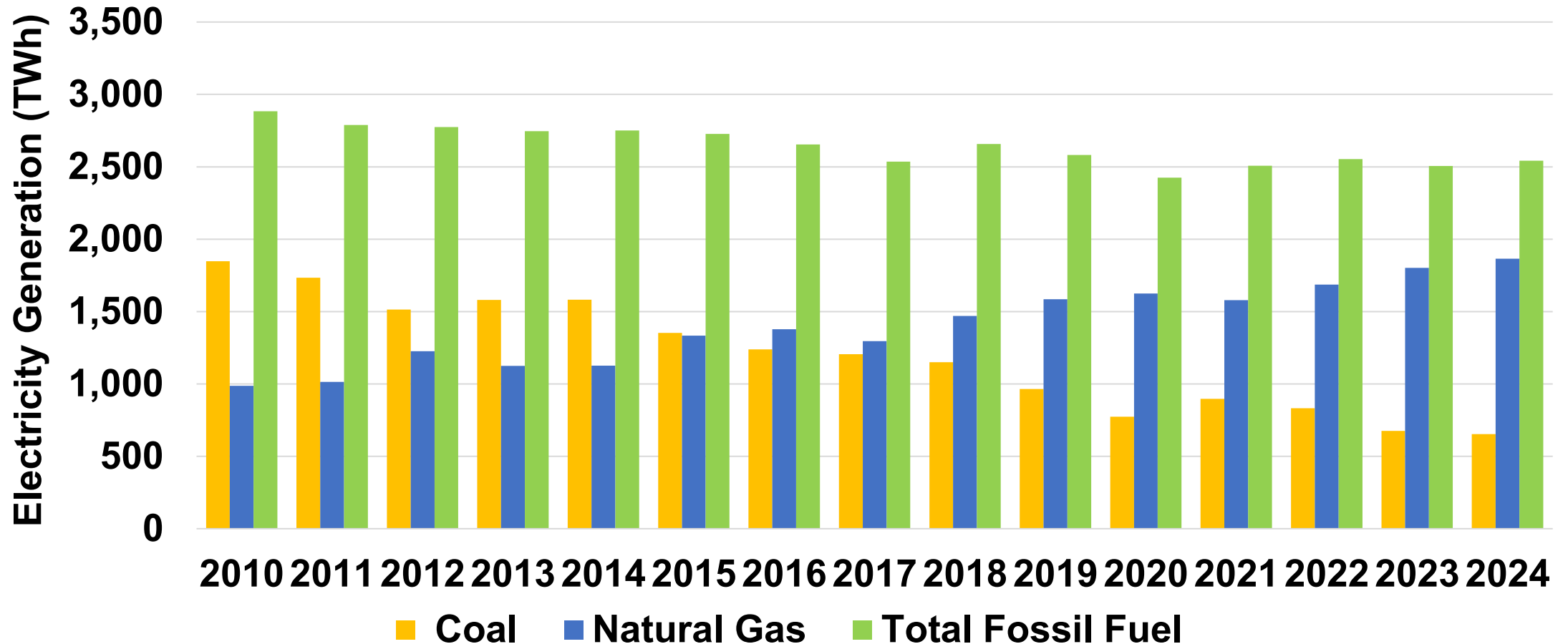
# U.S. Monthly Energy Use CO<sub>2</sub> Equivalent Emissions (through November 2025)



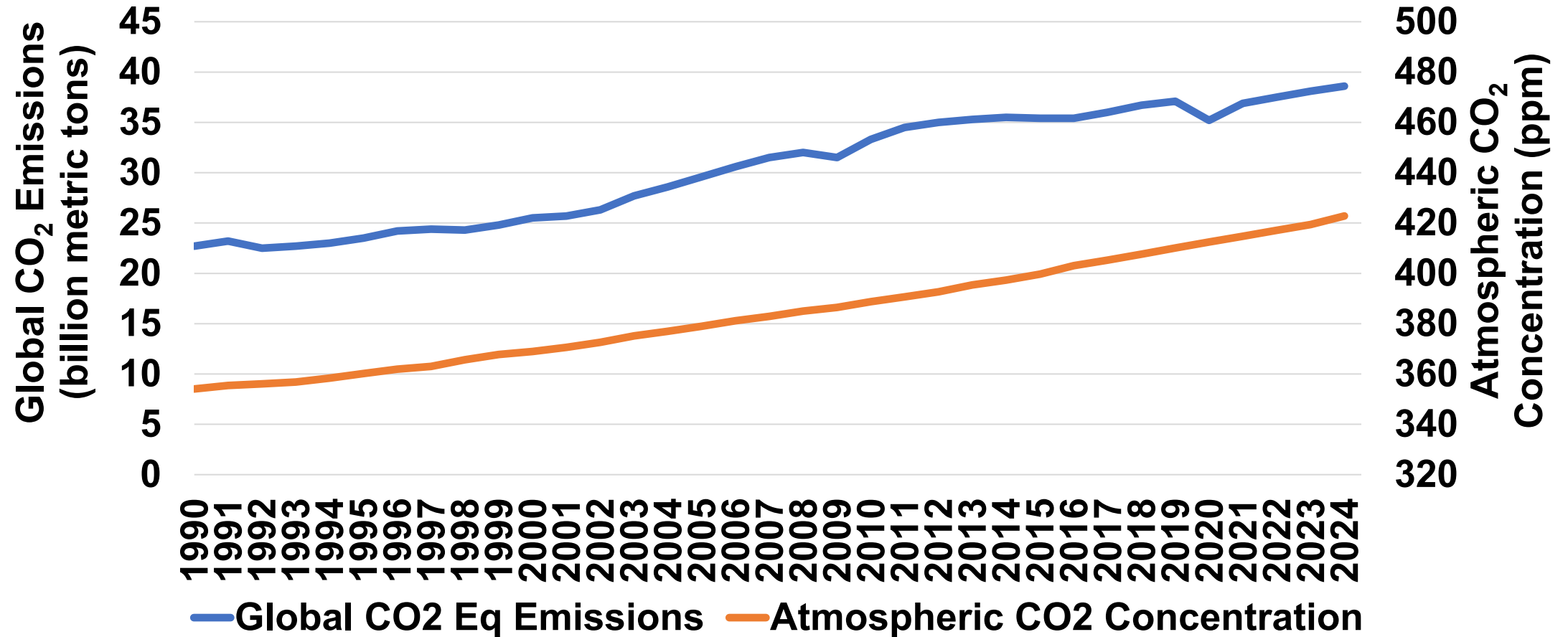
# U.S. Energy CO<sub>2</sub> Equivalent Emissions (% Change 1990-2024)



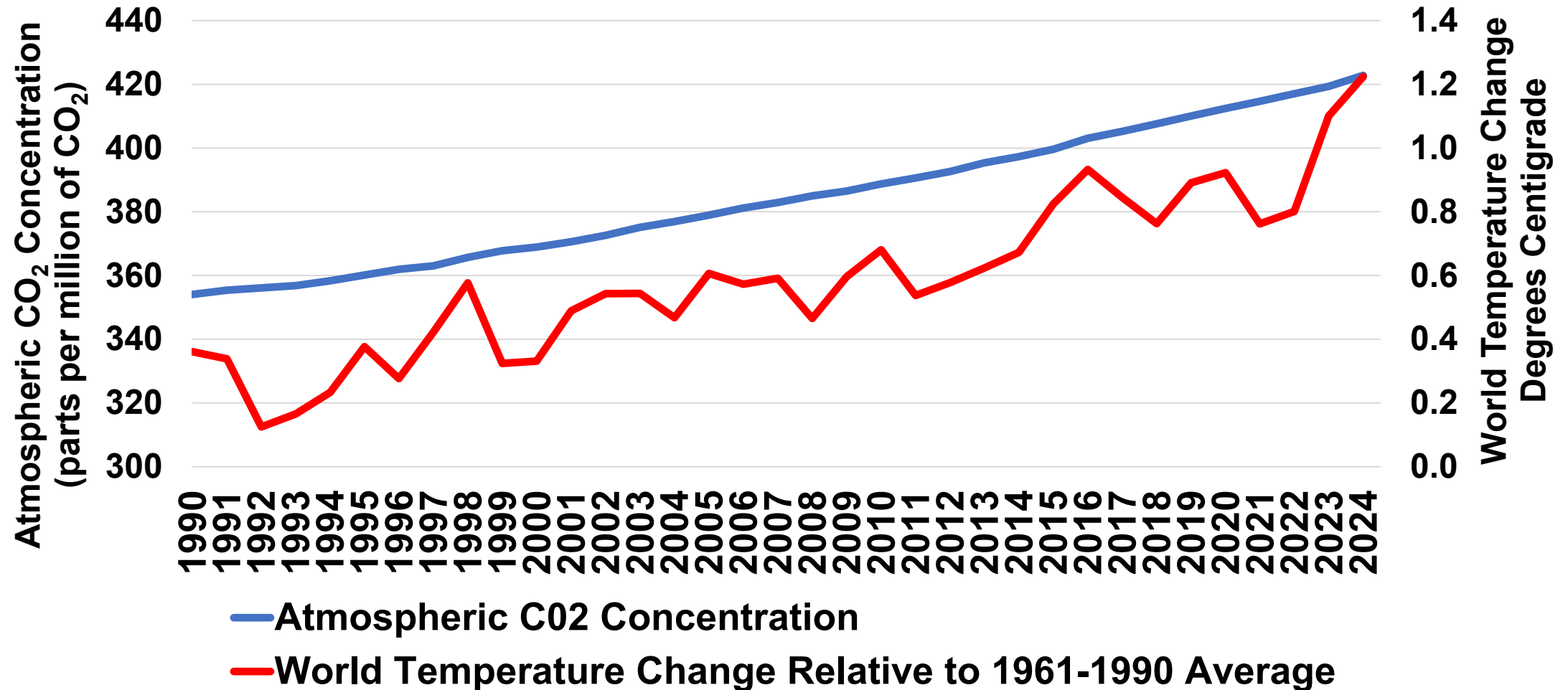
# U.S. Annual Fossil Fuel Electricity Generation (2010-2024)



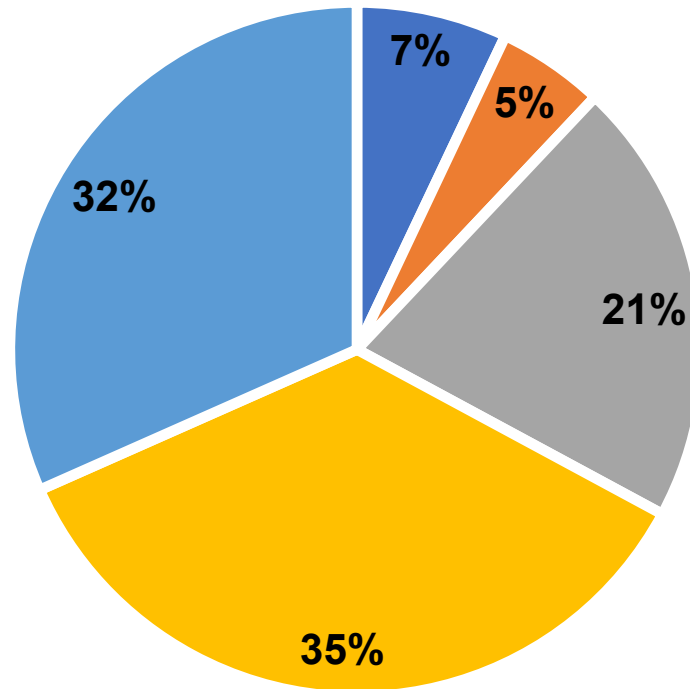
# World CO<sub>2</sub> Emissions and Atmospheric CO<sub>2</sub> Concentration (1990-2024)



# World Temperature and Atmospheric CO<sub>2</sub> Concentration (1990-2024)



# U.S. Energy CO<sub>2</sub> Emissions by Sector (2020)



■ Residential ■ Commercial ■ Industrial ■ Transportation ■ Electric Power



# U.S. Energy CO<sub>2</sub> Equivalent Emissions (% Change 1990-2024)

