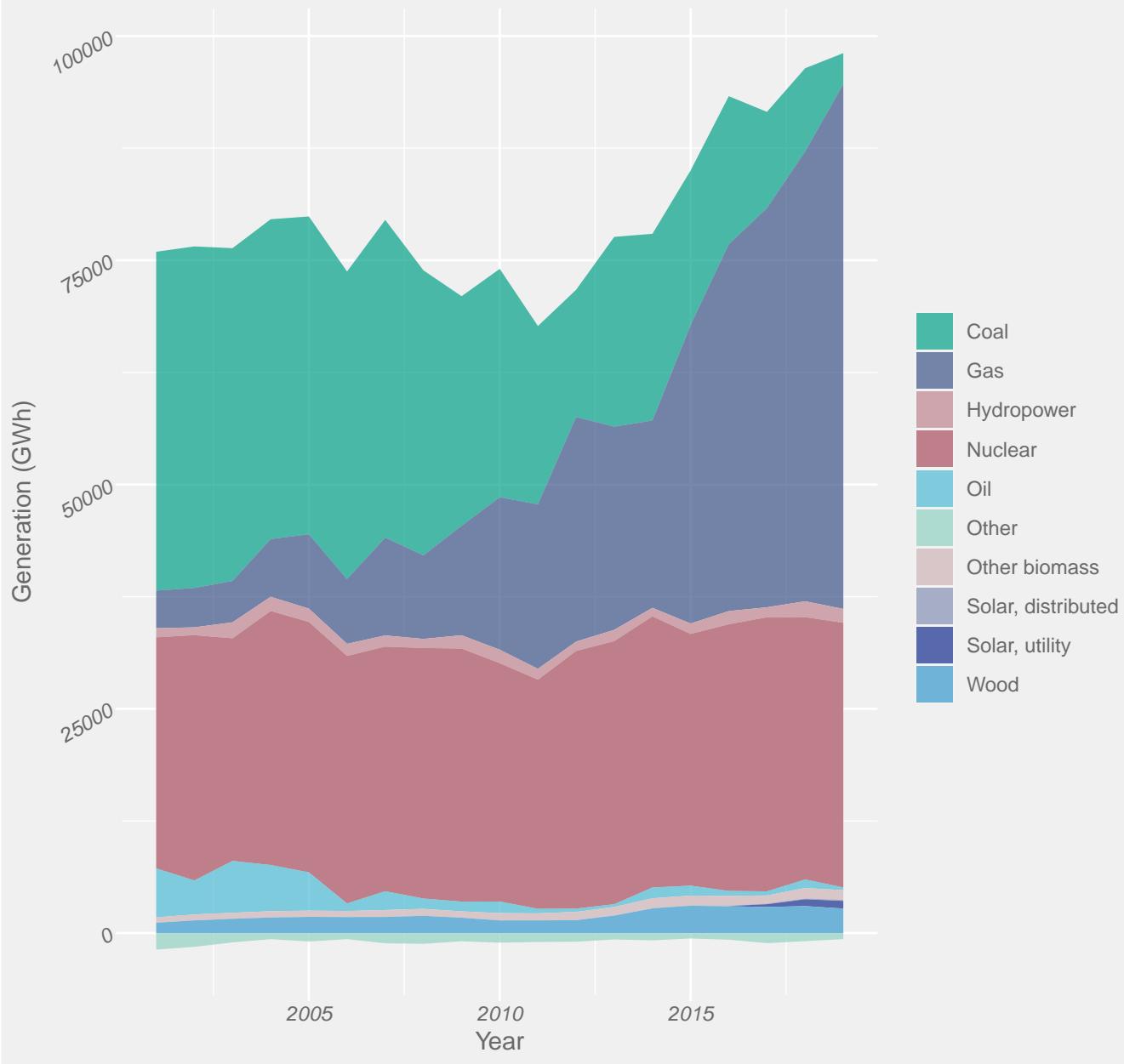
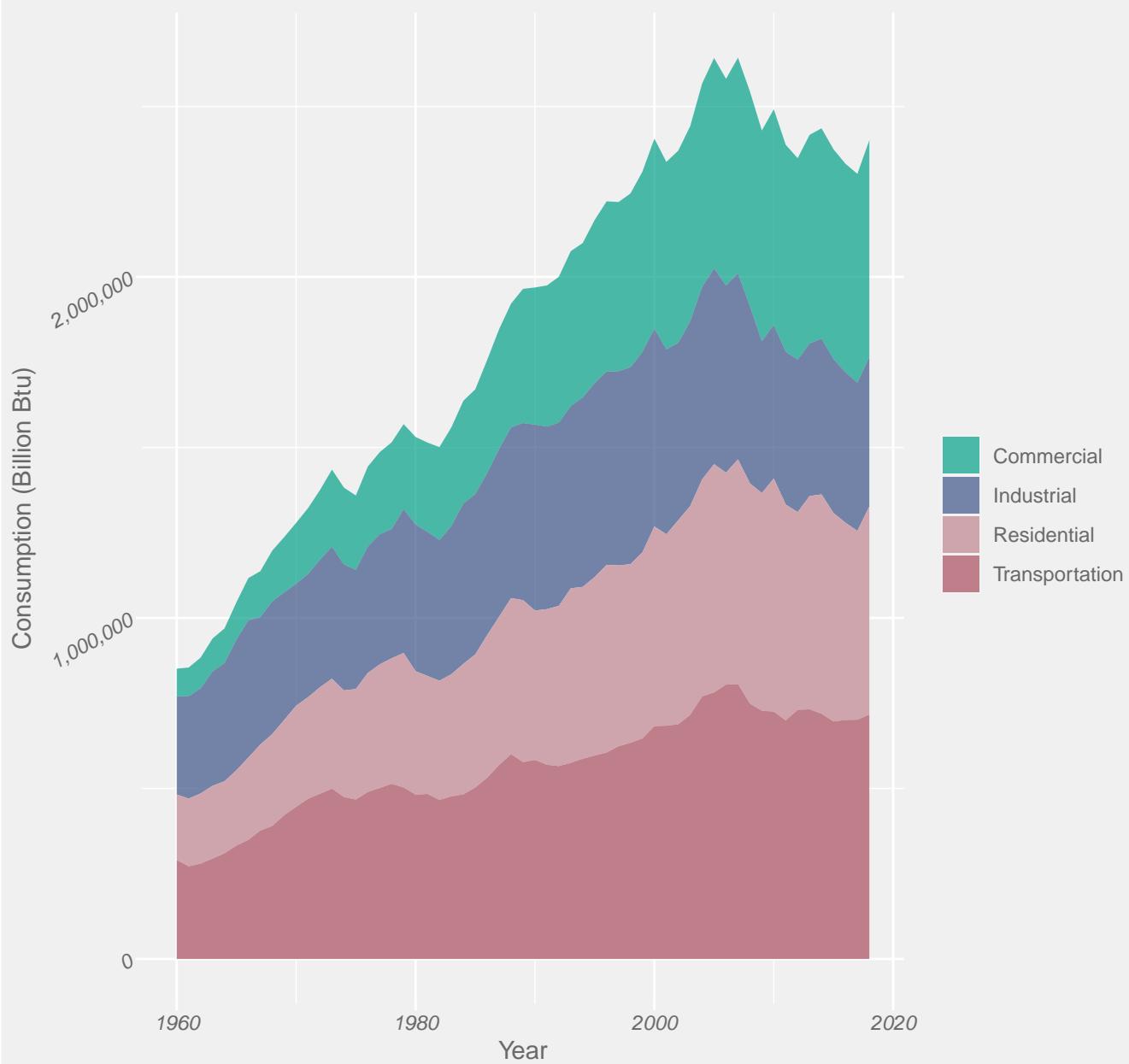


# Virginia Electricity Generation by Fuel Type



Source: U.S. Energy Information Administration

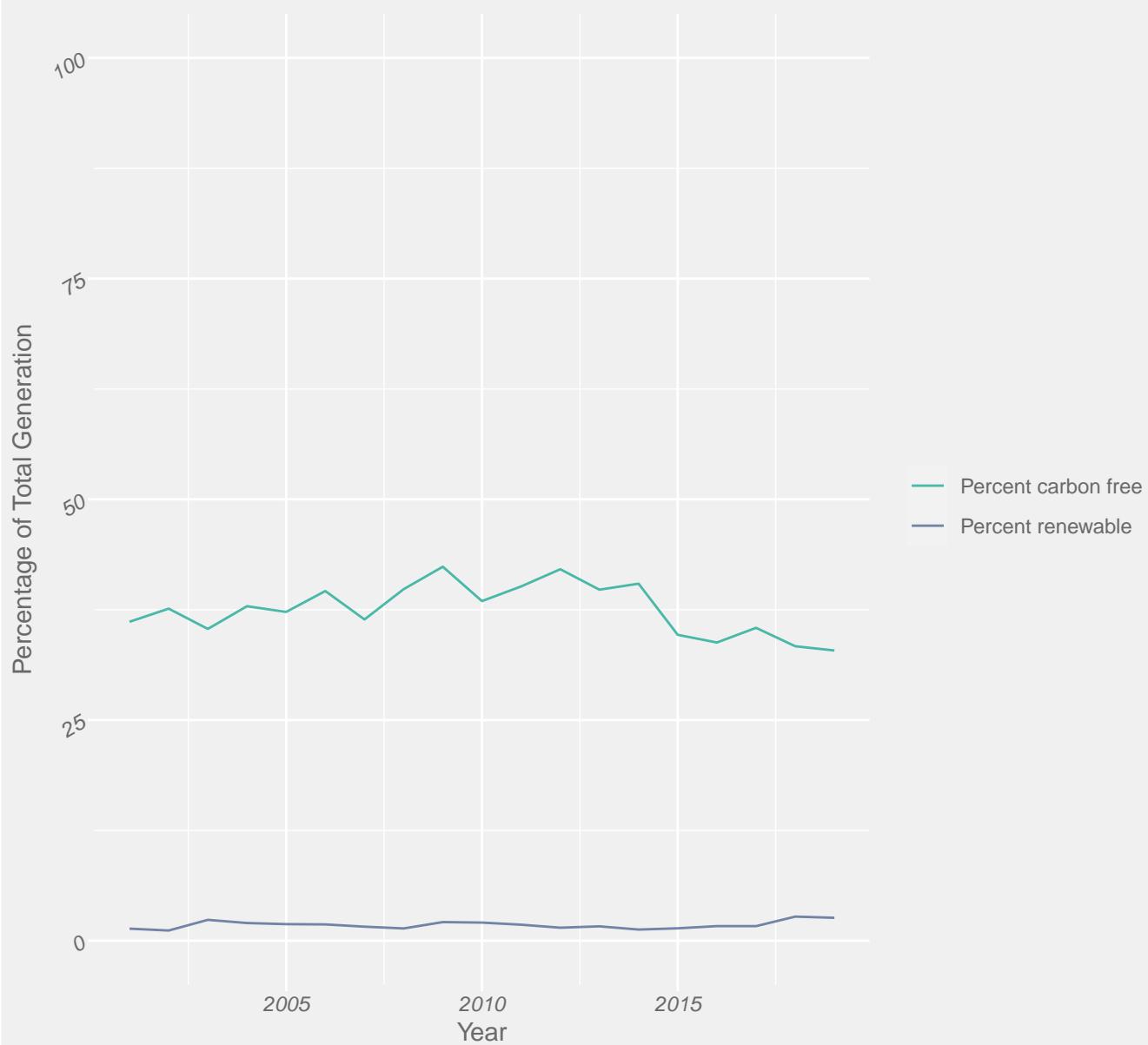
# Virginia Electricity Consumption by Sector



Source: U.S. Energy Information Administration

# Virginia Electricity Generation

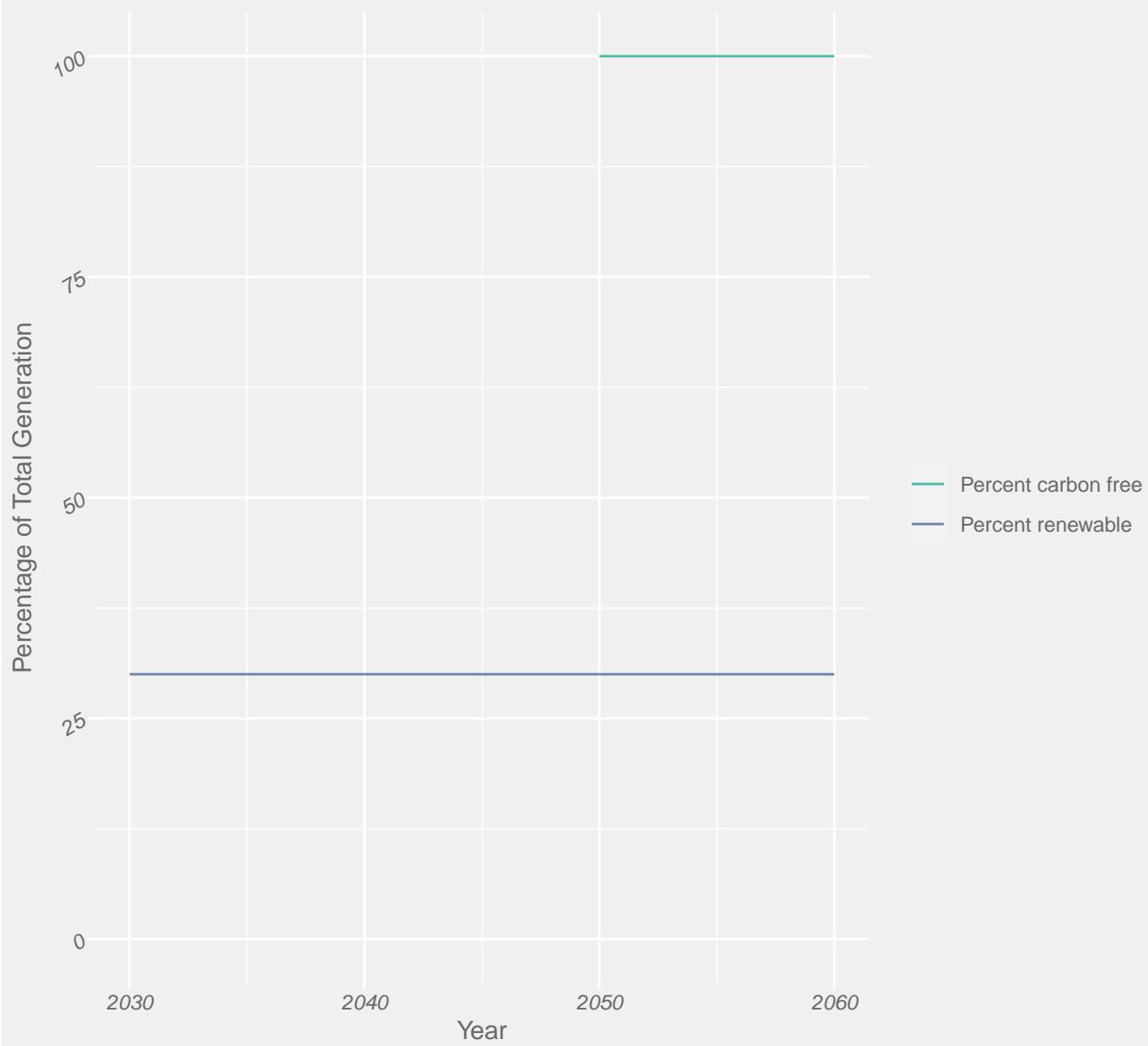
## Renewable and Carbon-Free



Source: U.S. Energy Information Administration

# Virginia Electricity Generation Goals

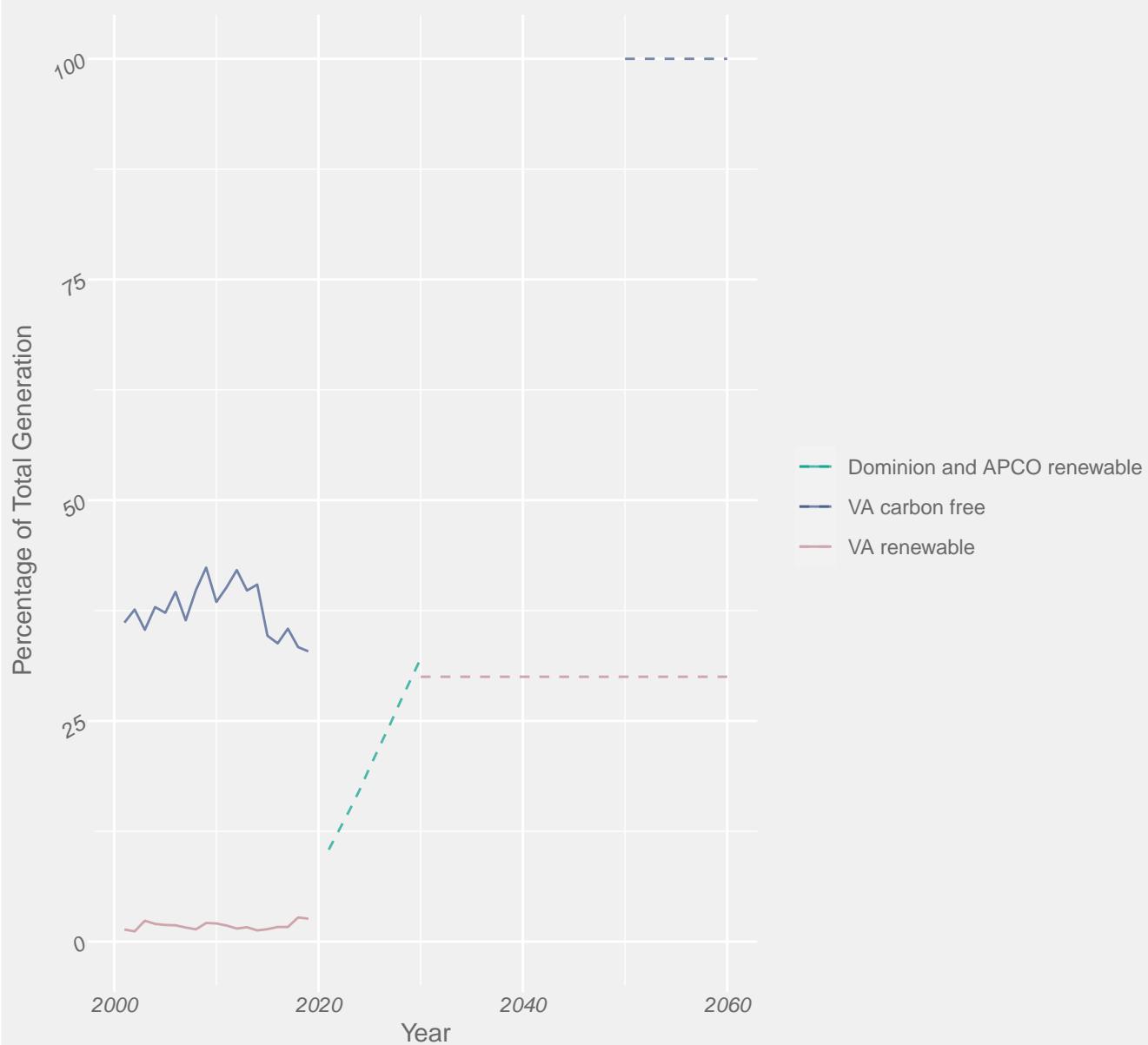
Renewable and Carbon–Free



Source: Virginia Clean Economy Act

# Virginia Electricity Generation

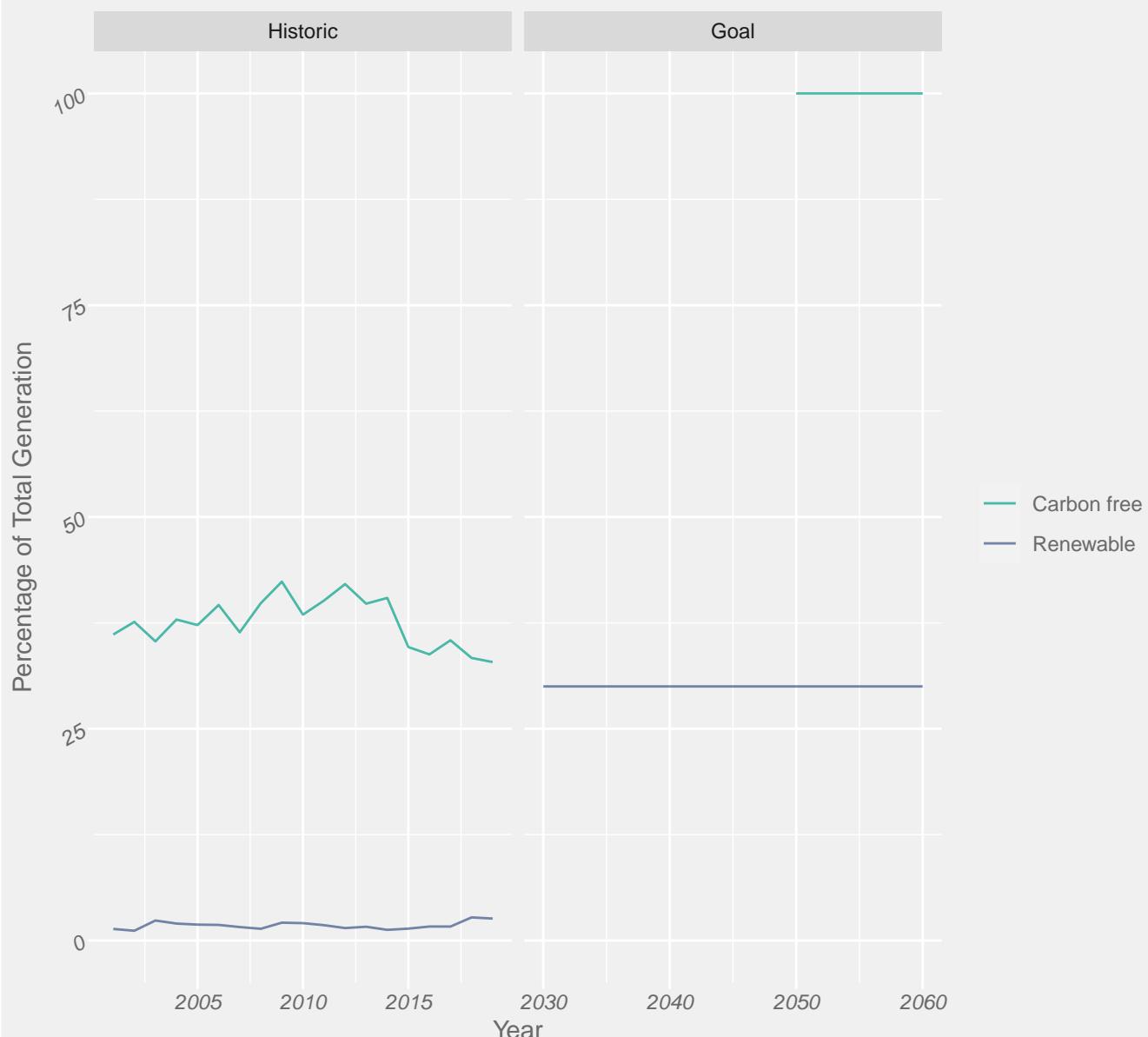
## Renewable and Carbon Free



Source: U.S. Energy Information Administration, Virginia Clean Economy Act

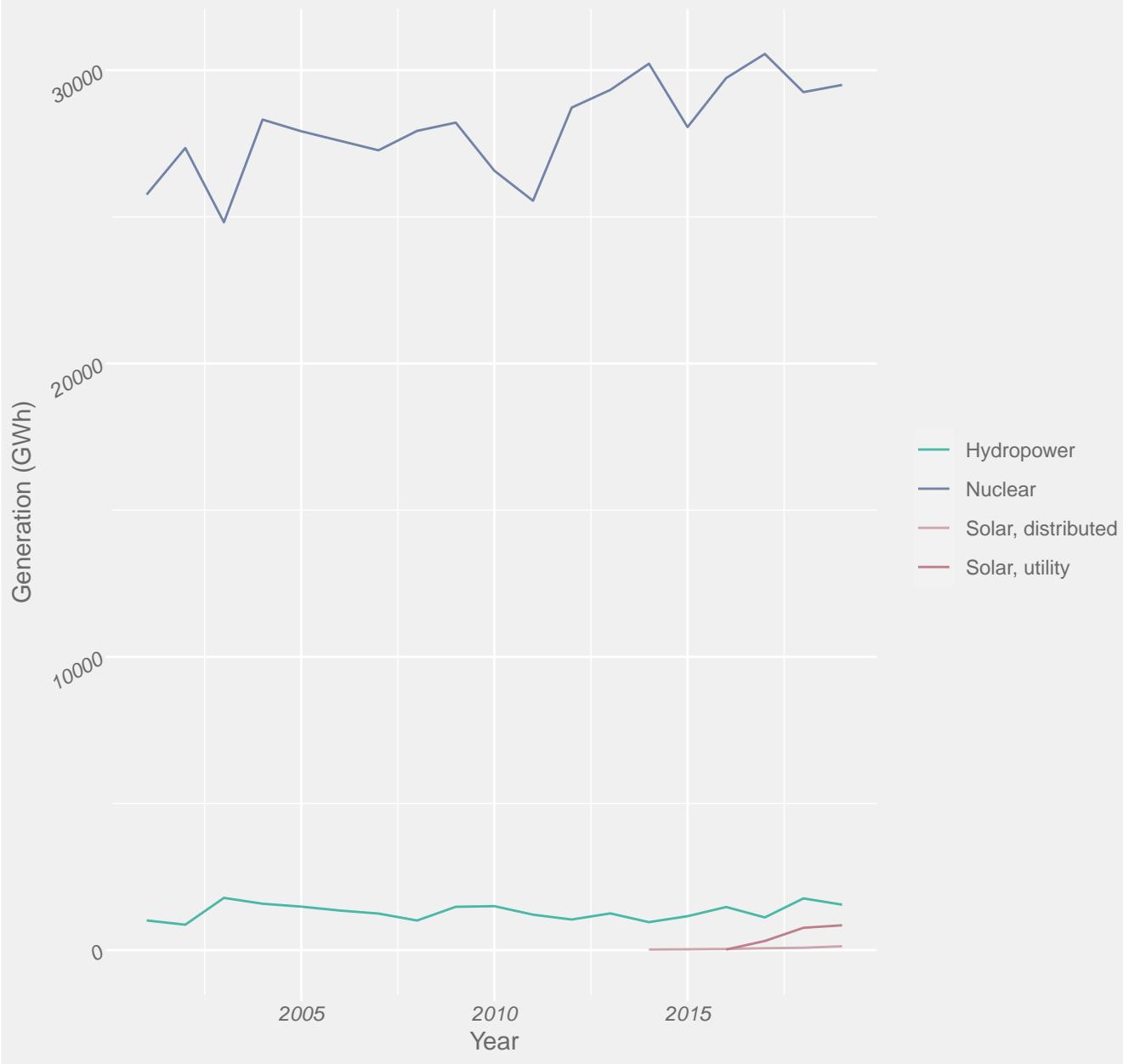
# Virginia Electricity Generation, Renewable and Carbon–Free

## Historic vs Goal



Source: U.S. Energy Information Administration, Virginia Clean Economy Act

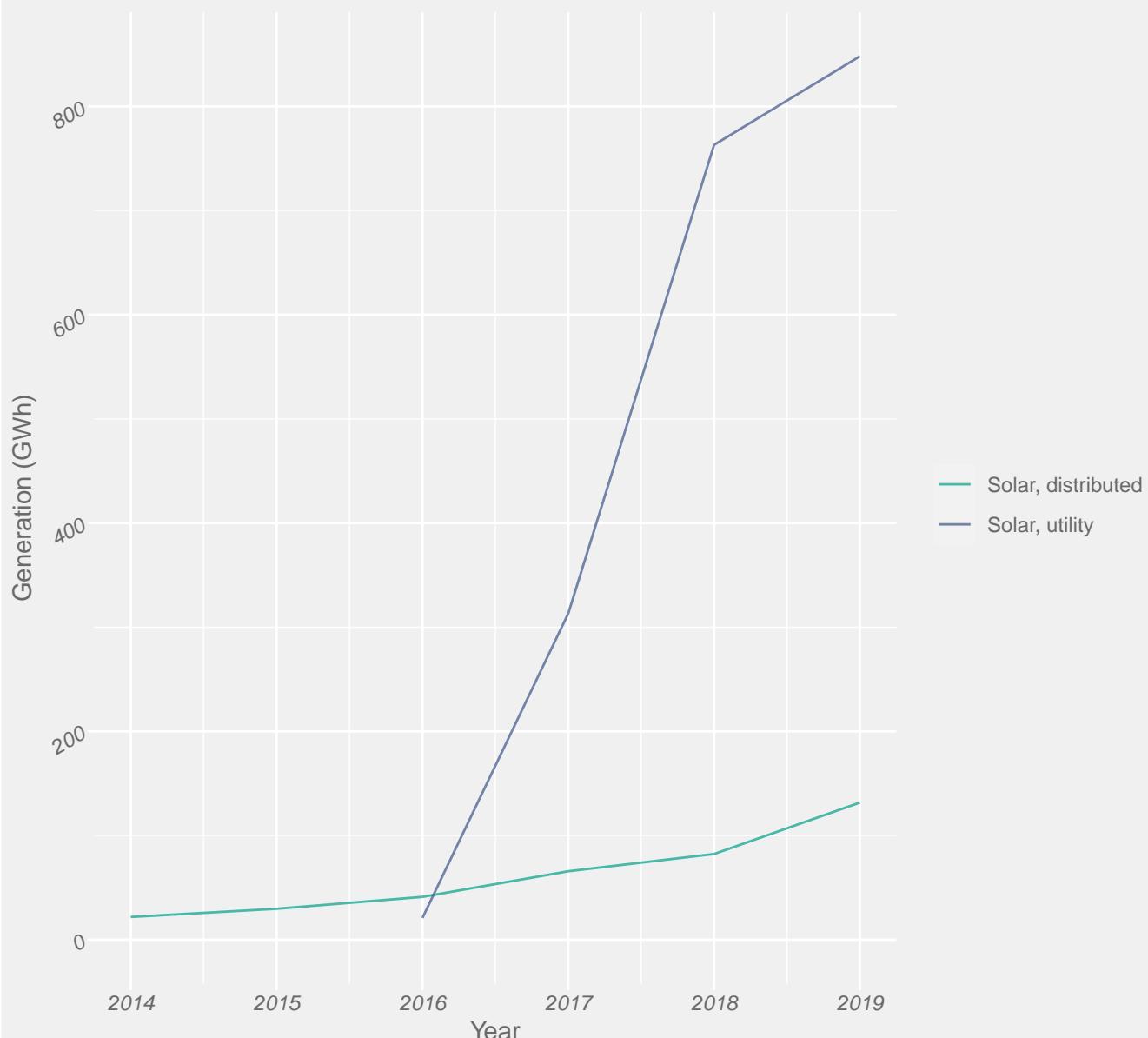
## Virginia Carbon-Free Electricity Generation



Source: U.S. Energy Information Administration

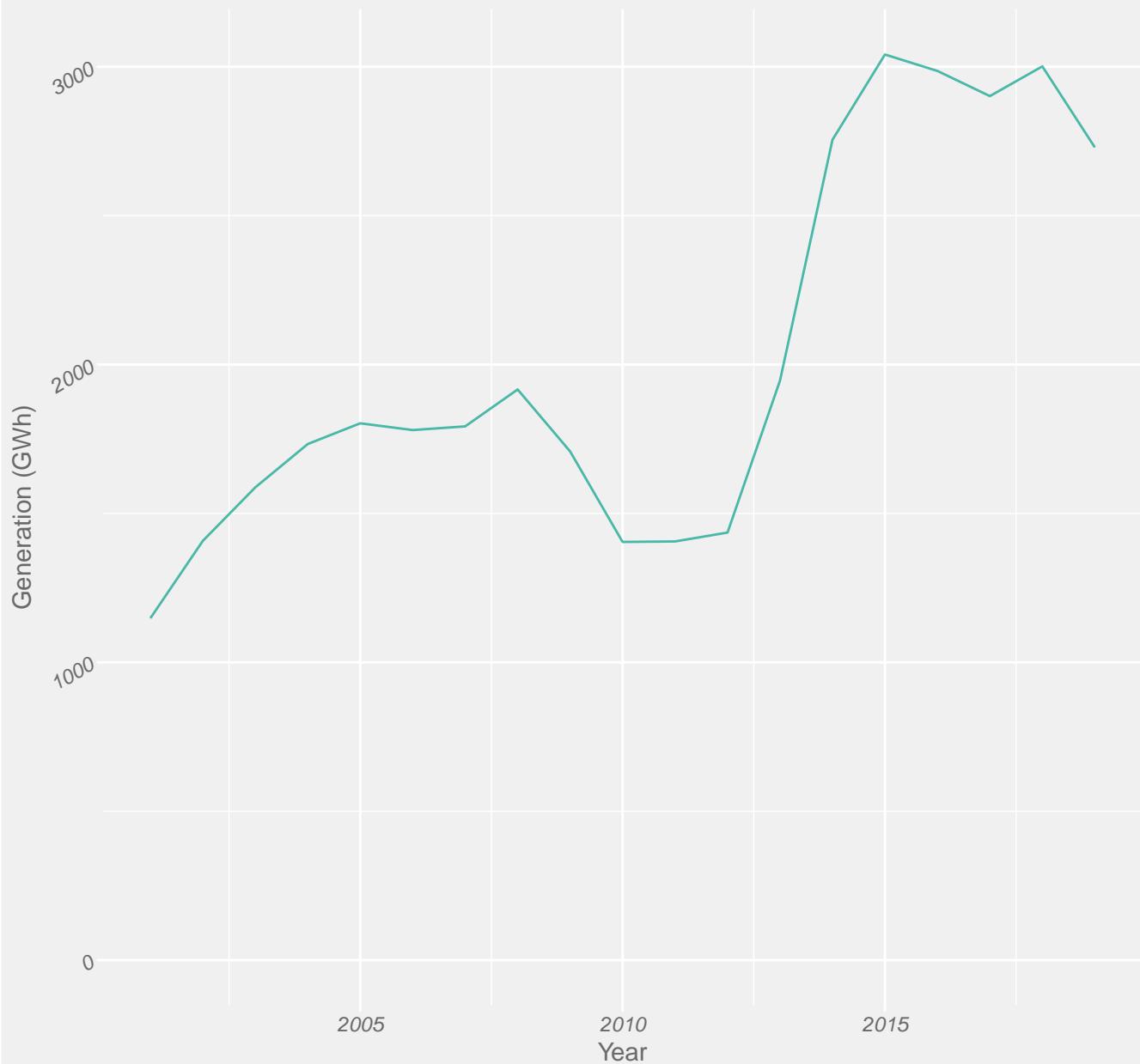
# Virginia Solar Electricity Generation

## Utility Scale and Distributed



Source: U.S. Energy Information Administration

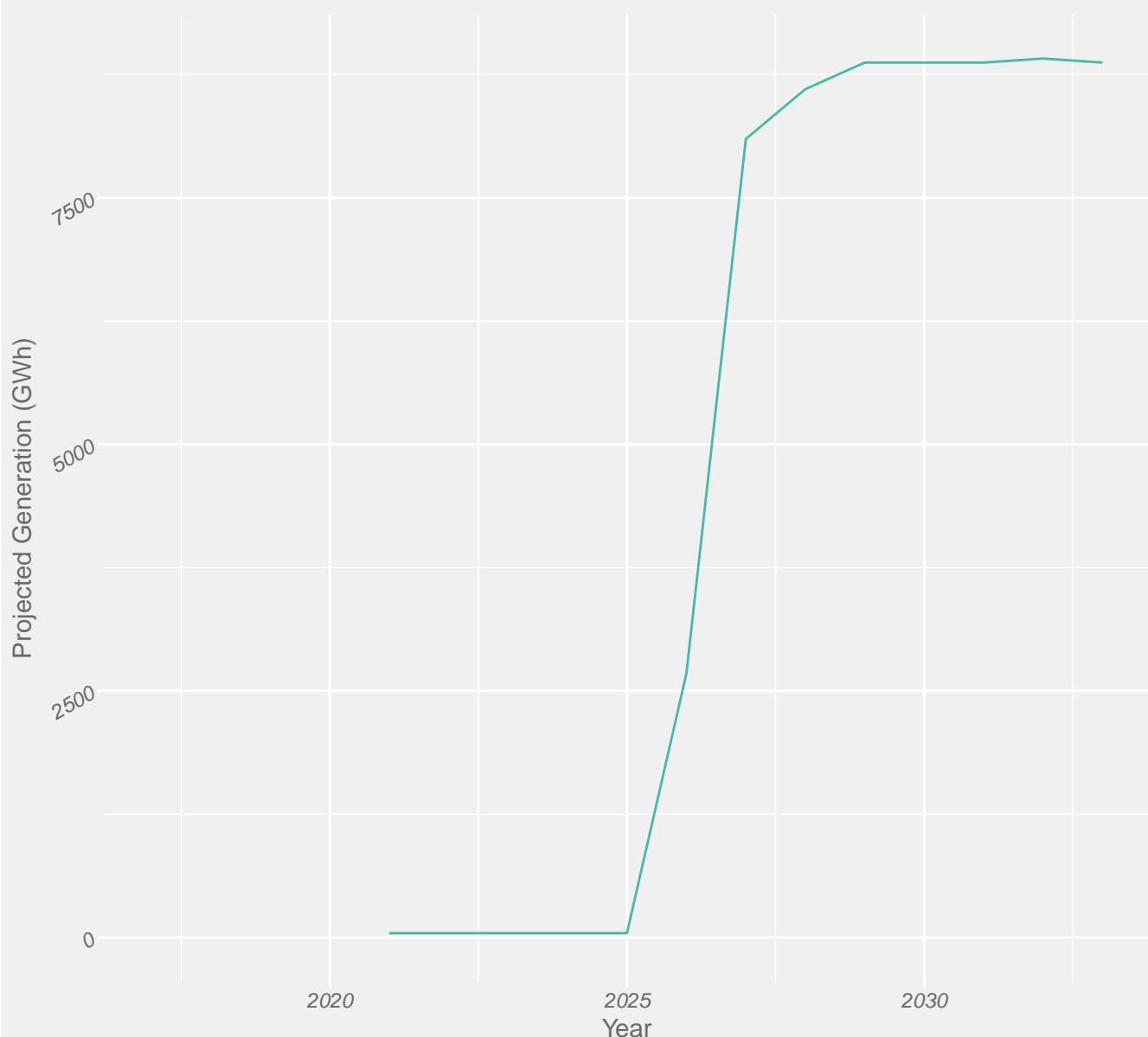
## Virginia Electricity Generation from Wood



Source: U.S. Energy Information Administration

# Virginia Projected Offshore Wind Electricity Generation

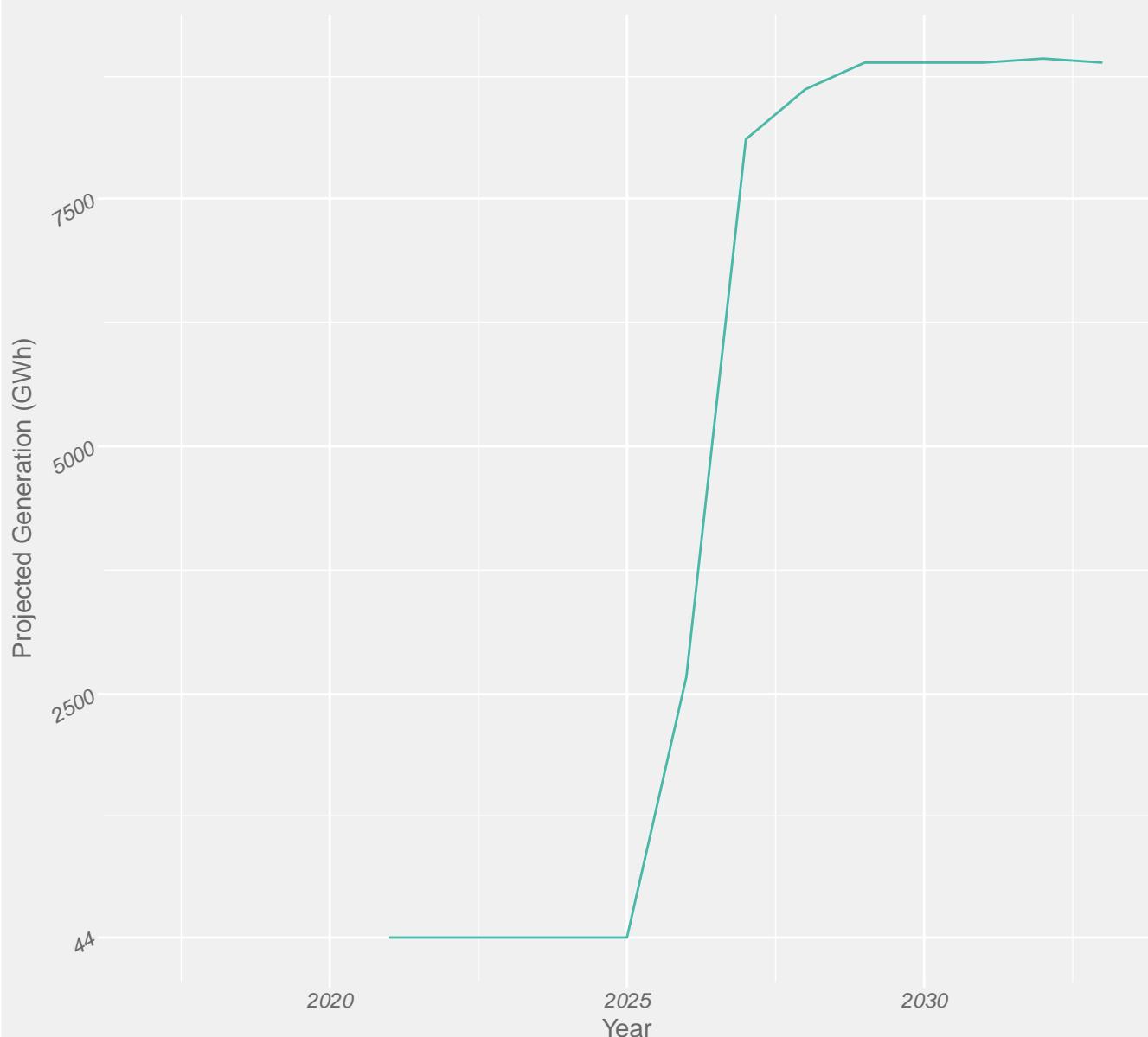
Planned



Source: Dominion Energy 2020 Integrated Resource Plan

# Virginia Projected Offshore Wind Electricity Generation

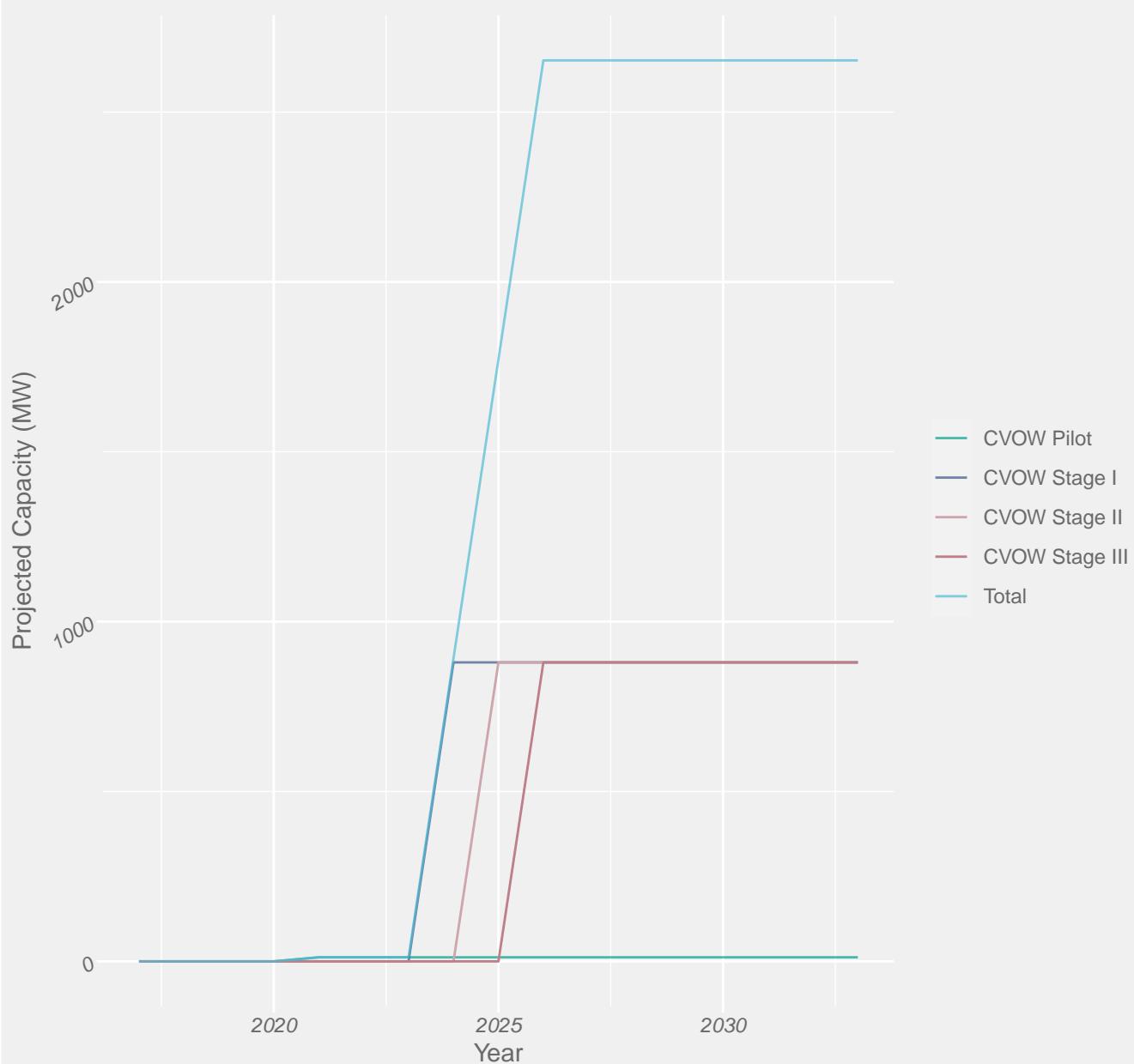
Planned



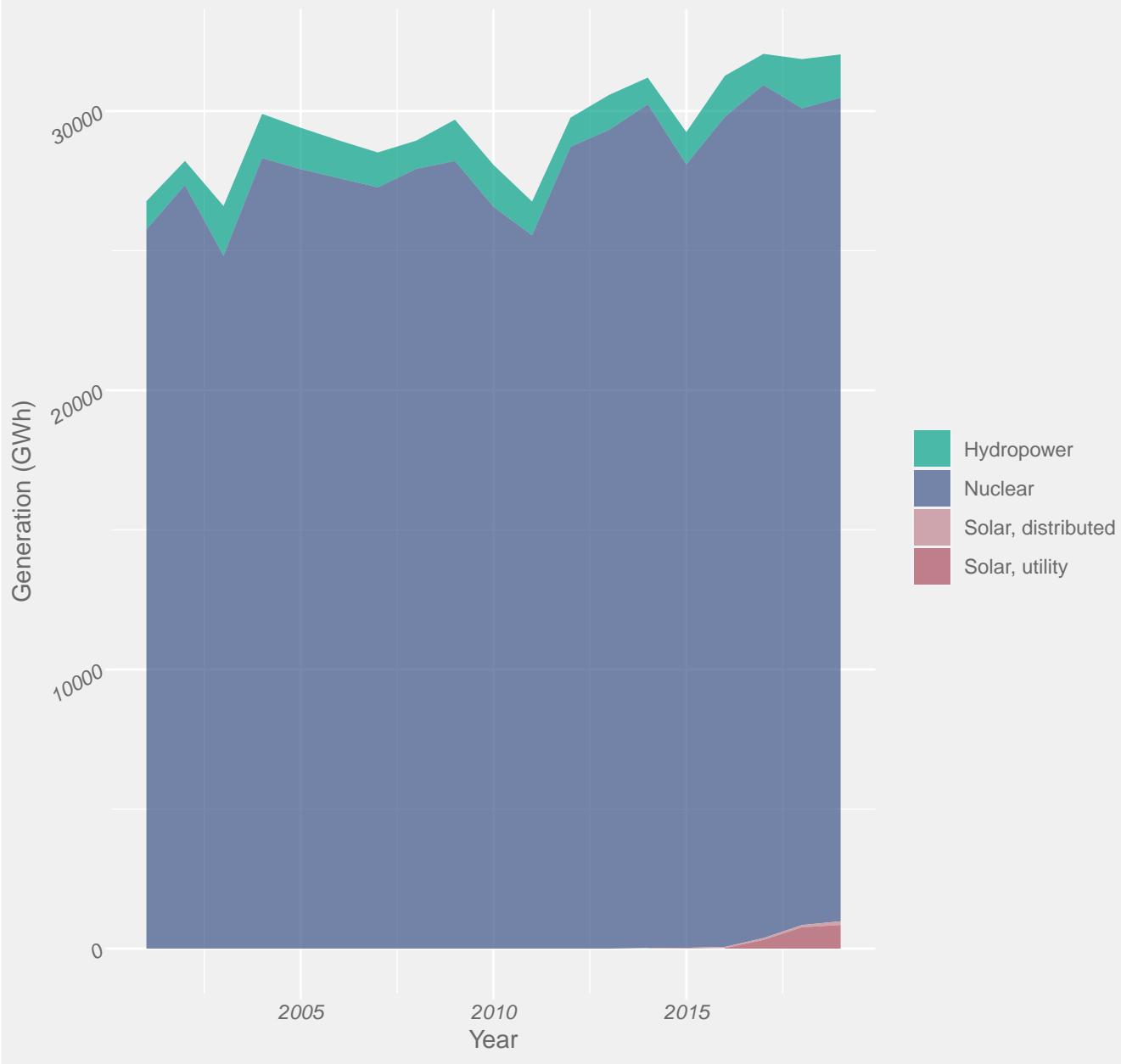
Source: Dominion Energy 2020 Integrated Resource Plan

# Coastal Virginia Offshore Wind (CVOW) Capacity

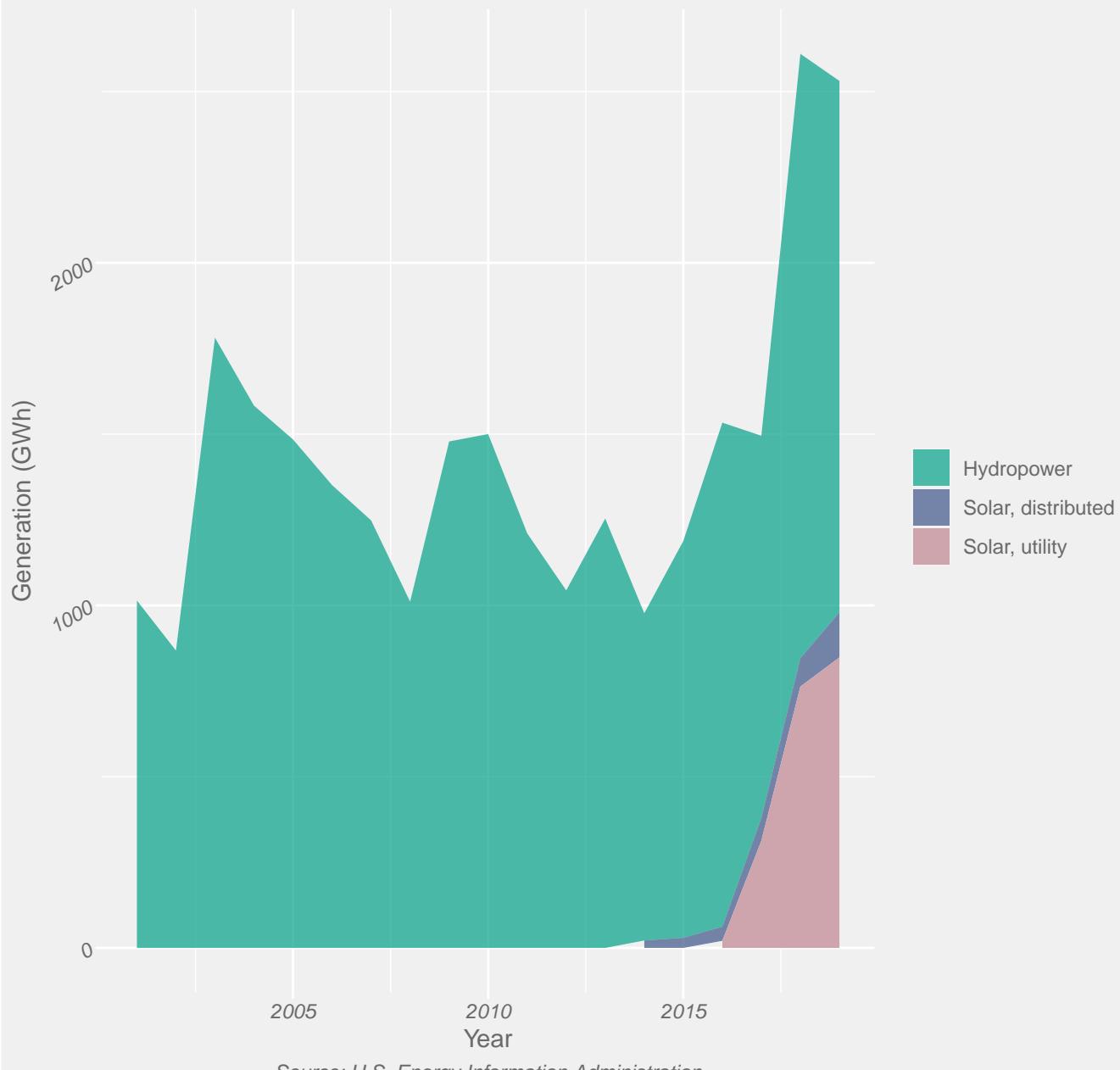
Planned



# Virginia Carbon-Free Electricity Generation by Source

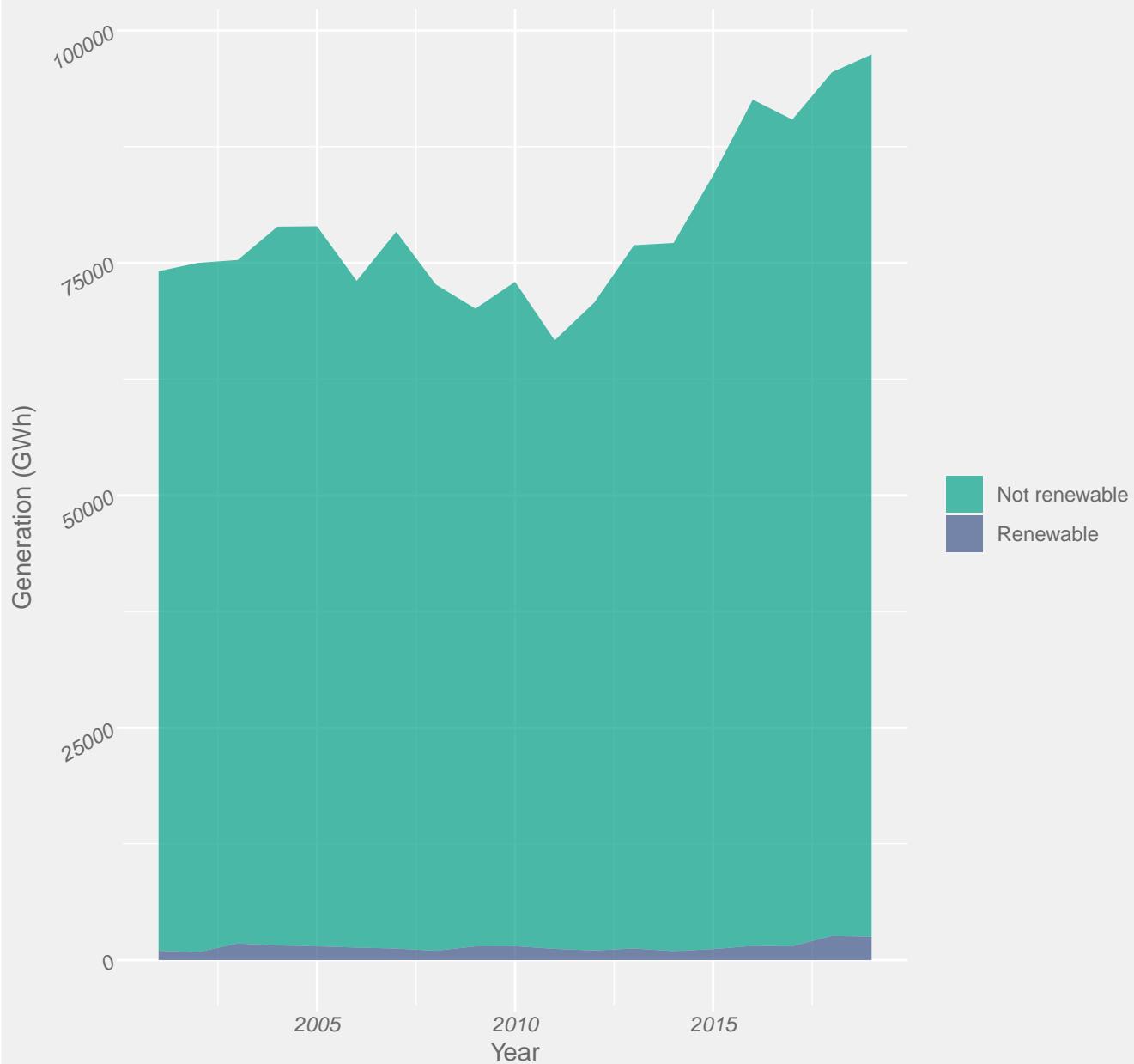


# Virginia Renewable Electricity Generation



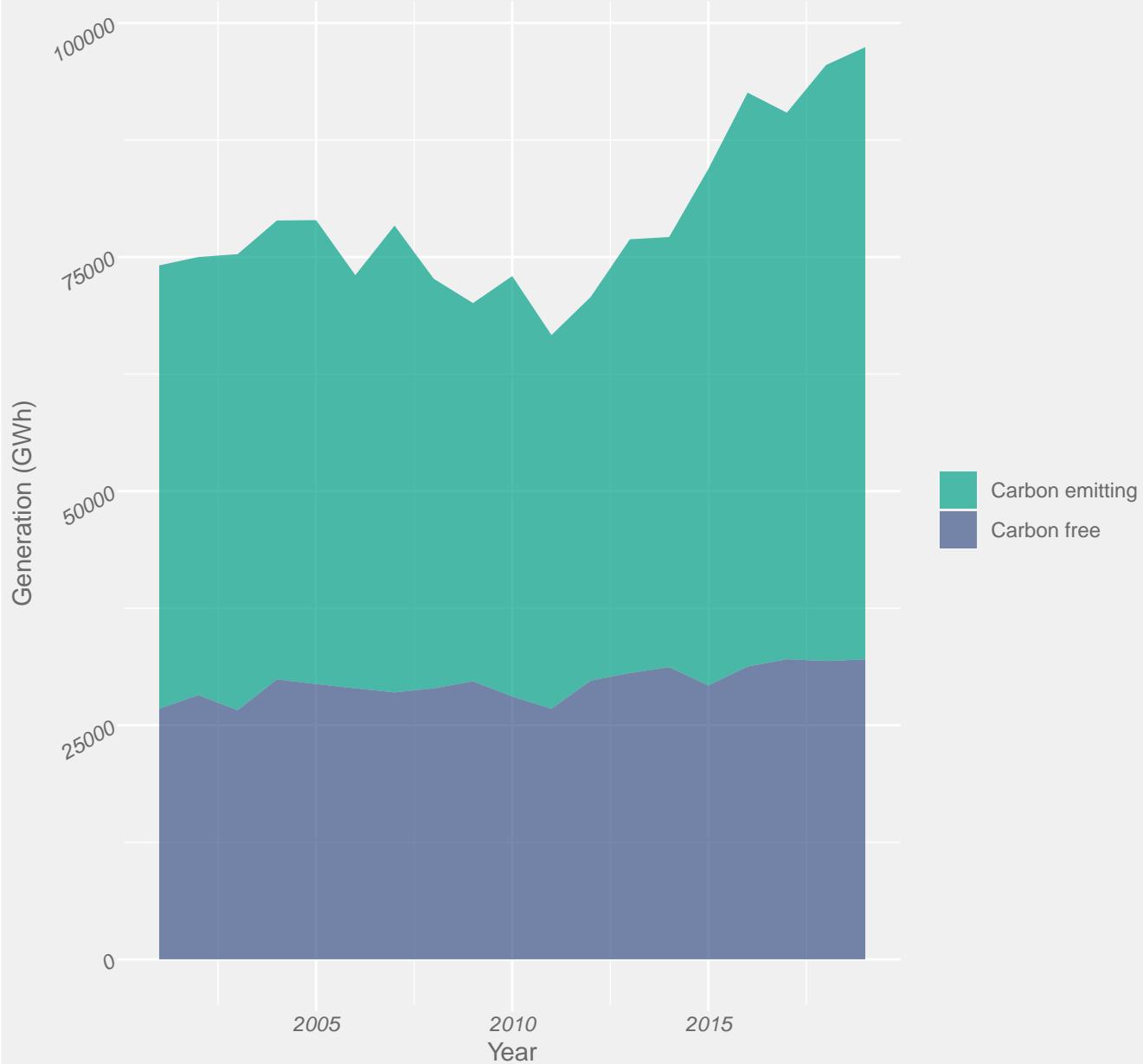
Source: U.S. Energy Information Administration

# Virginia Renewable and Non–Renewable Electricity Generation



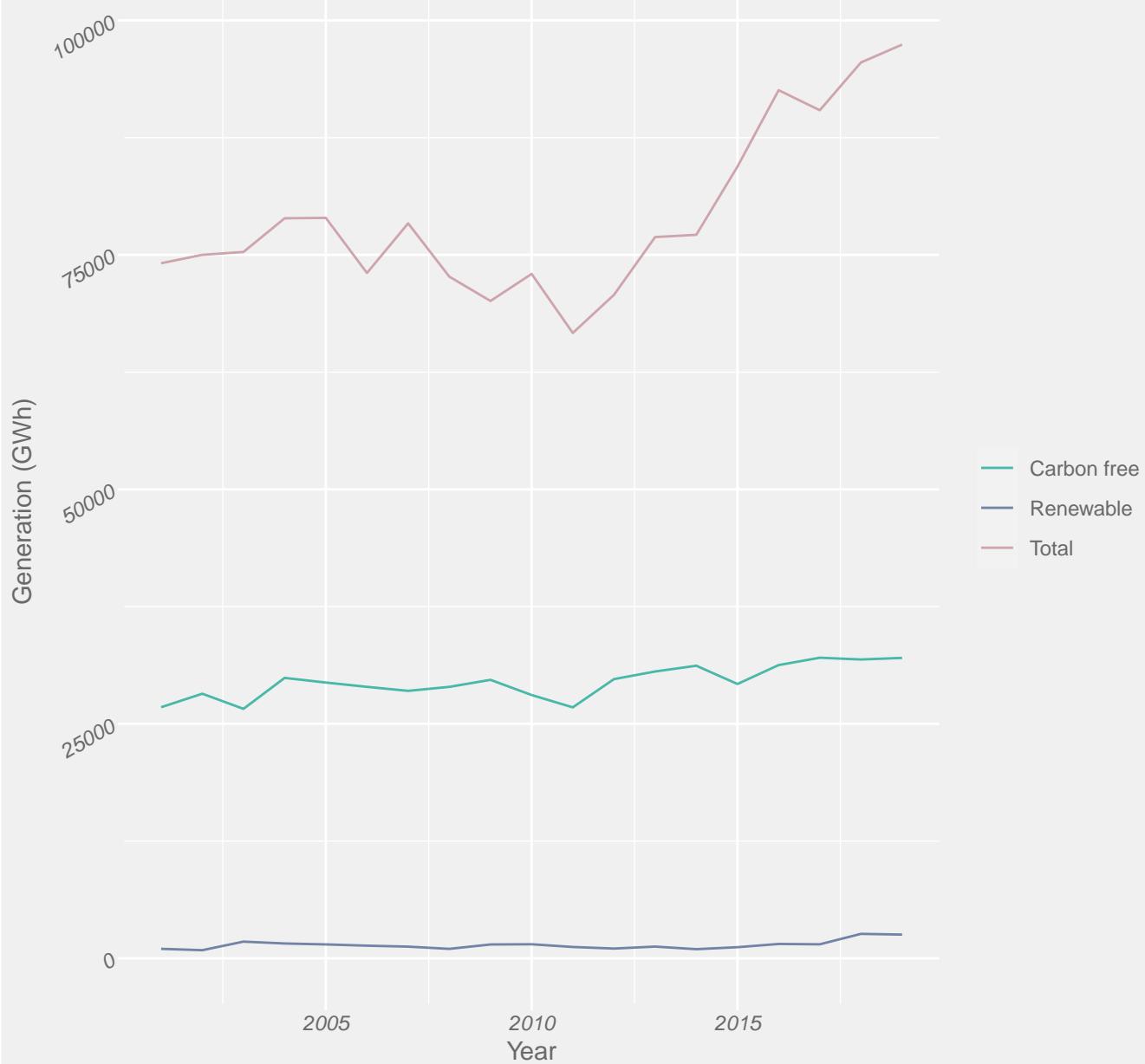
Source: U.S. Energy Information Administration

# Virginia Carbon Emitting and Carbon–Free Electricity Generation



Source: U.S. Energy Information Administration

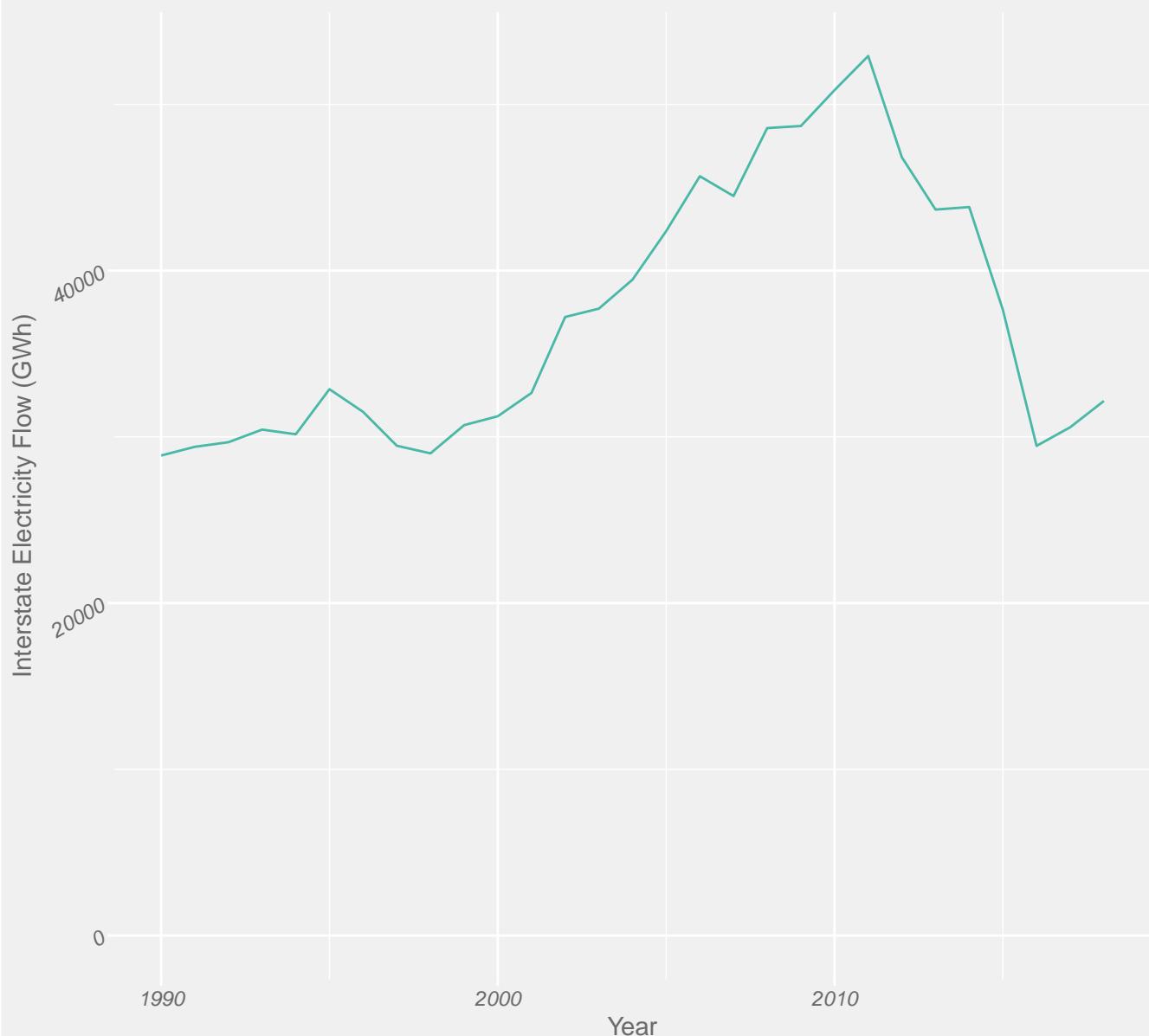
## Virginia Renewable and Carbon–Free Electricity Generation



Source: U.S. Energy Information Administration

# Virginia Net Interstate Electricity Flow

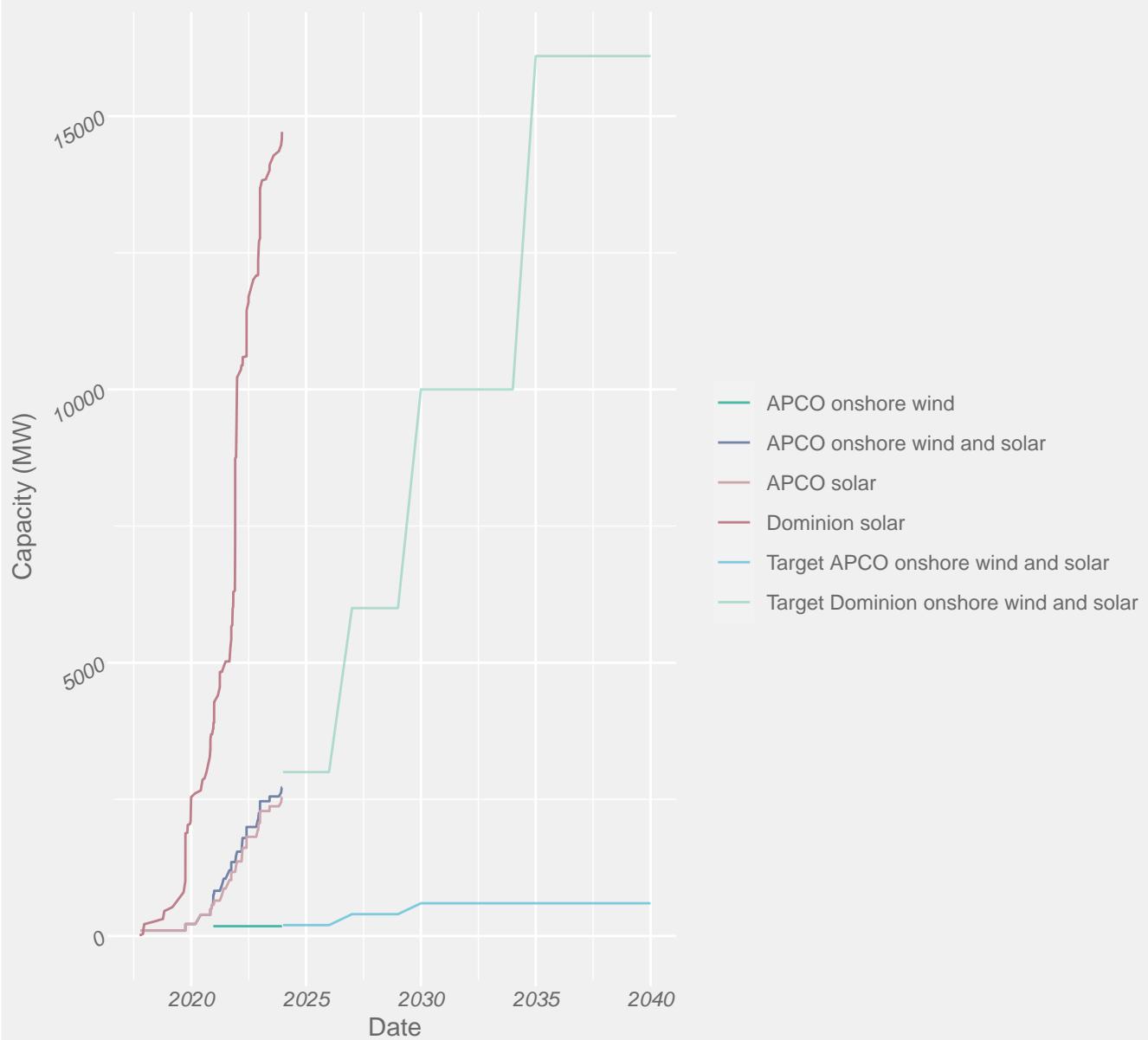
Positive Values = Imports



Source: U.S. Energy Information Administration

# Appalachian Power & Dominion Utility Onshore Wind and Solar

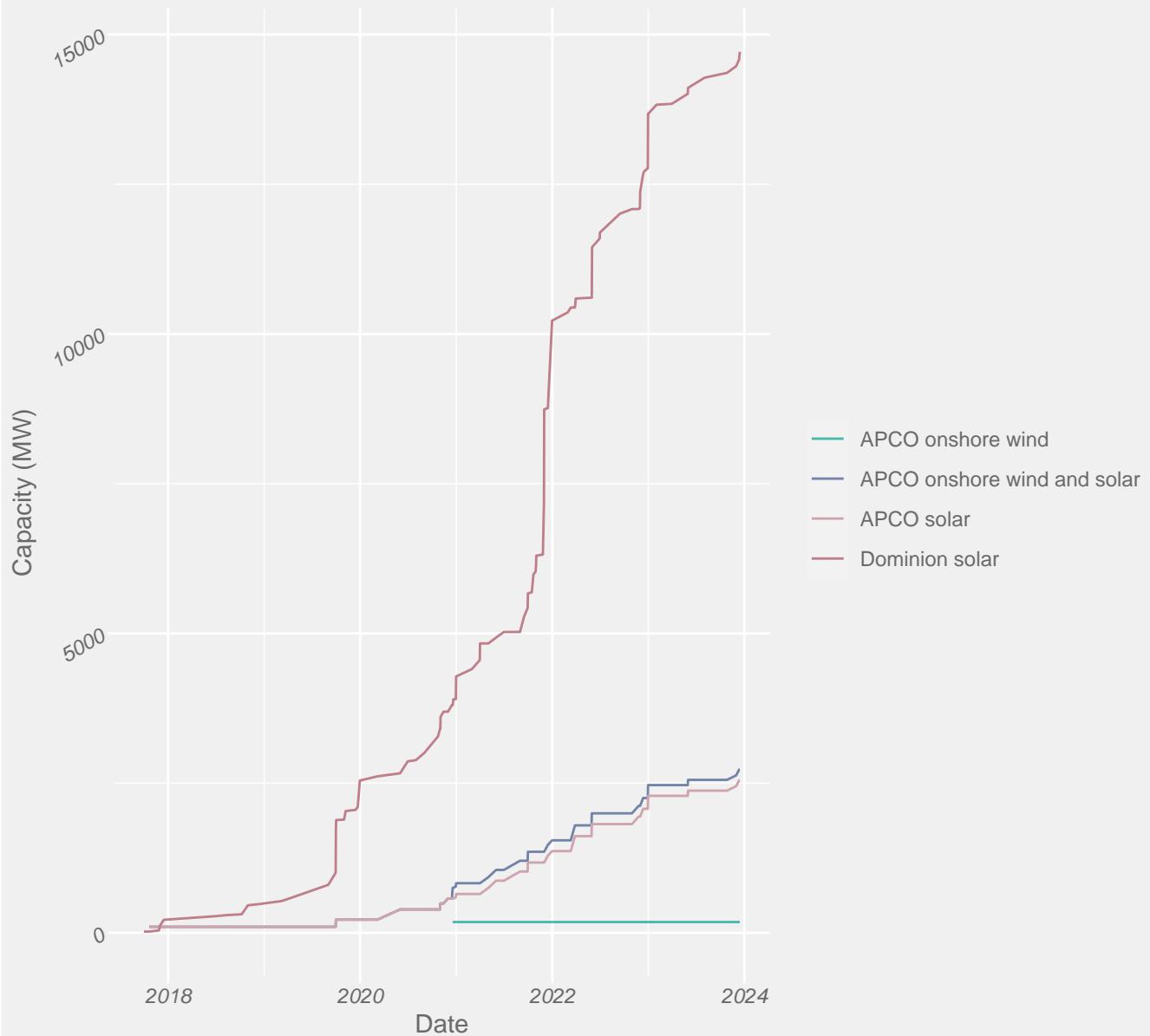
Current and Projected Capacity vs VCEA Target Capacity



Source: PJM Interconnection LLC, Virginia Clean Economy Act

# Appalachian Power & Dominion Utility Onshore Wind and Solar

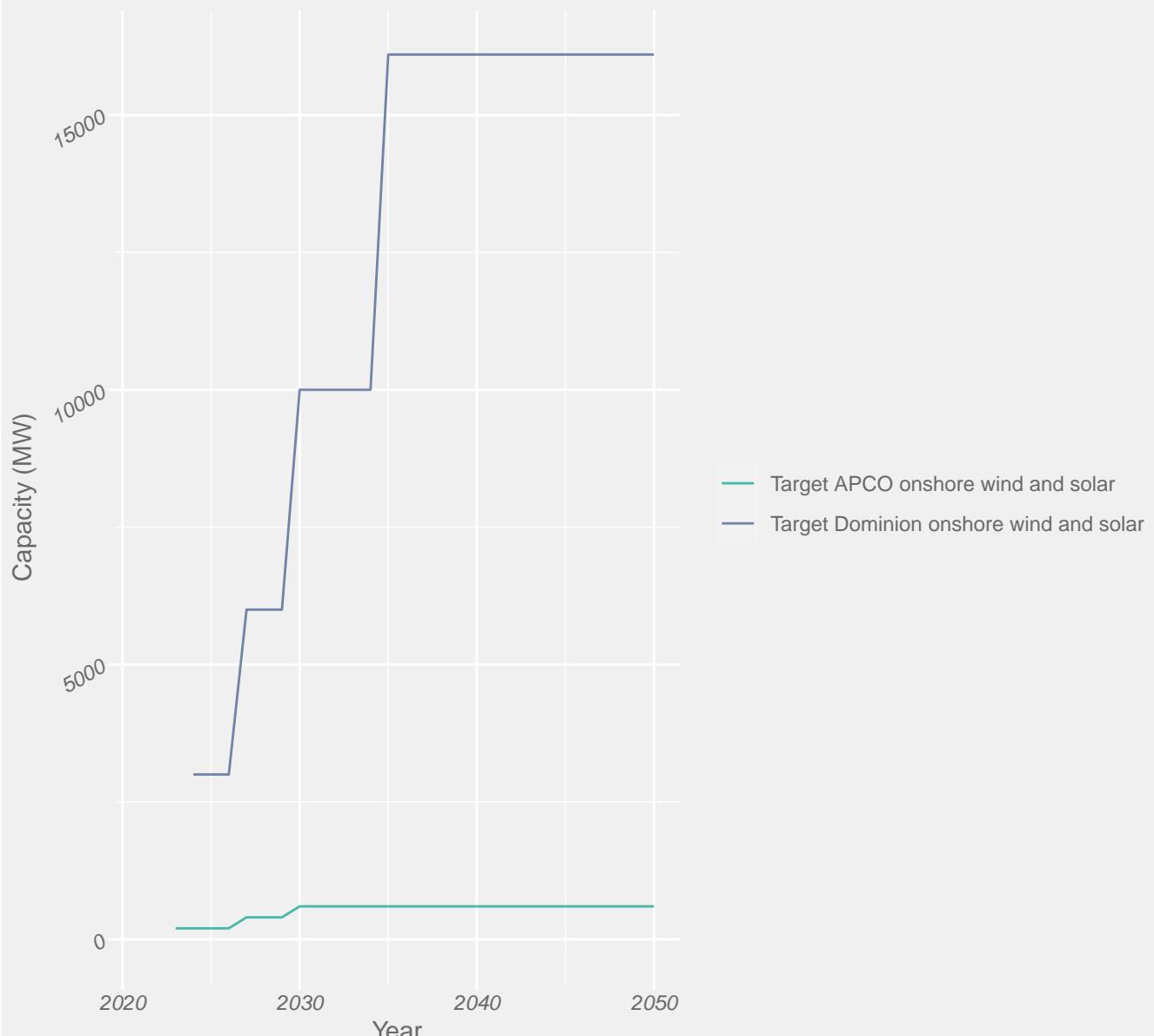
Current and Projected Capacity



Source: PJM Interconnection LLC

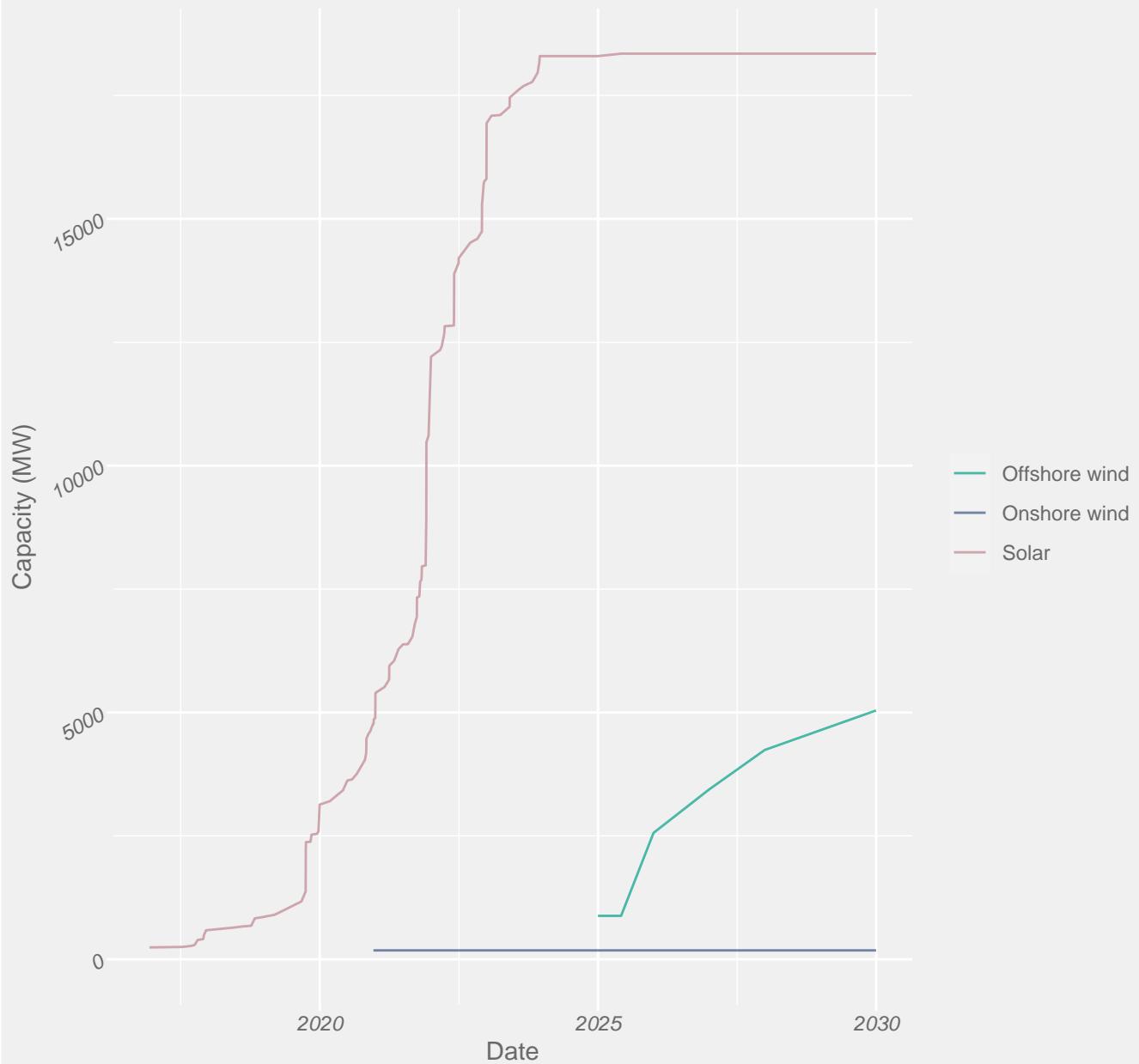
# Appalachian Power & Dominion Utility Onshore Wind and Solar

## VCEA Target Capacity



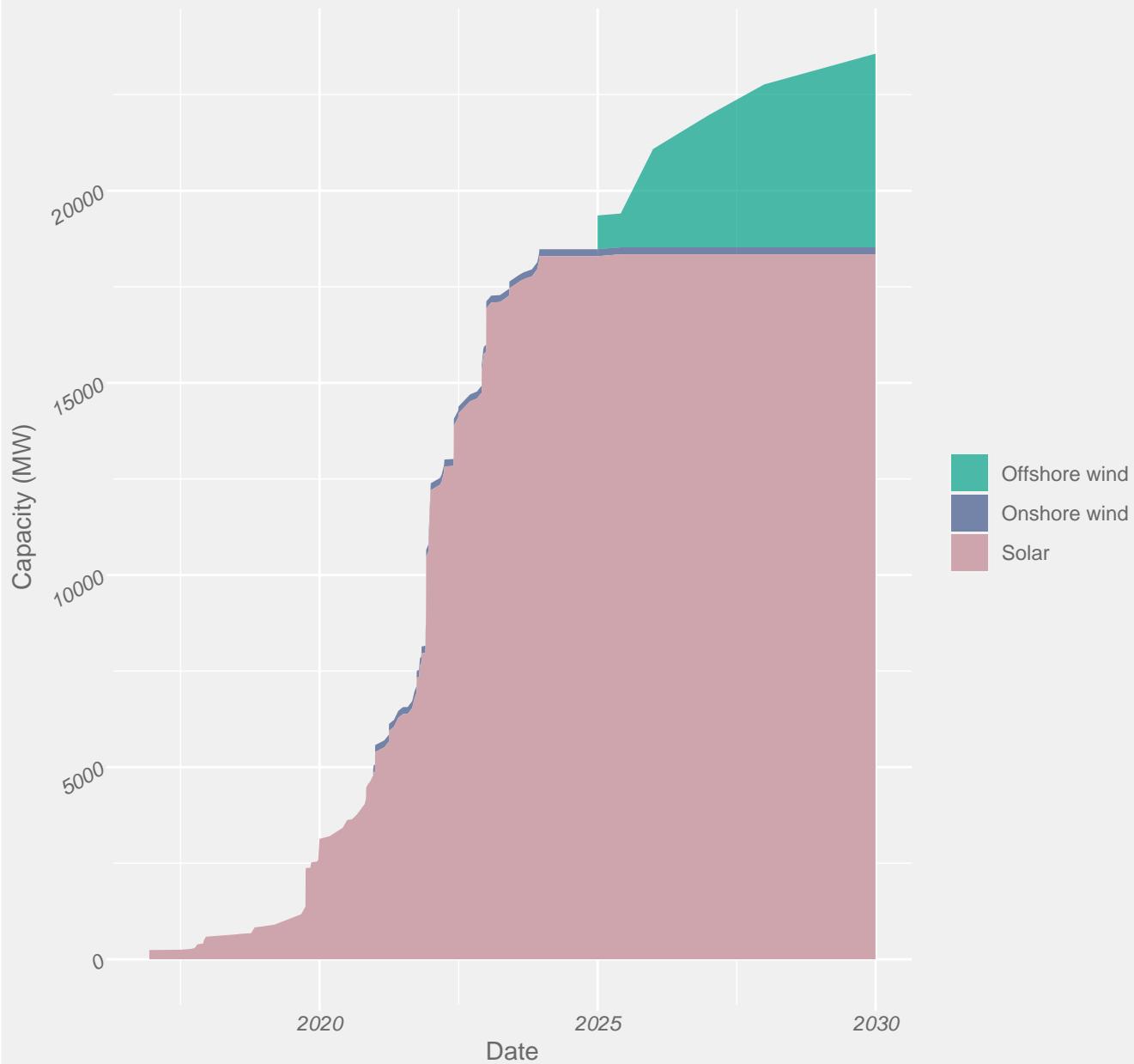
Source: Virginia Clean Economy Act

# Virginia Current and Projected Utility Wind and Solar Capacity



Source: PJM Interconnection LLC

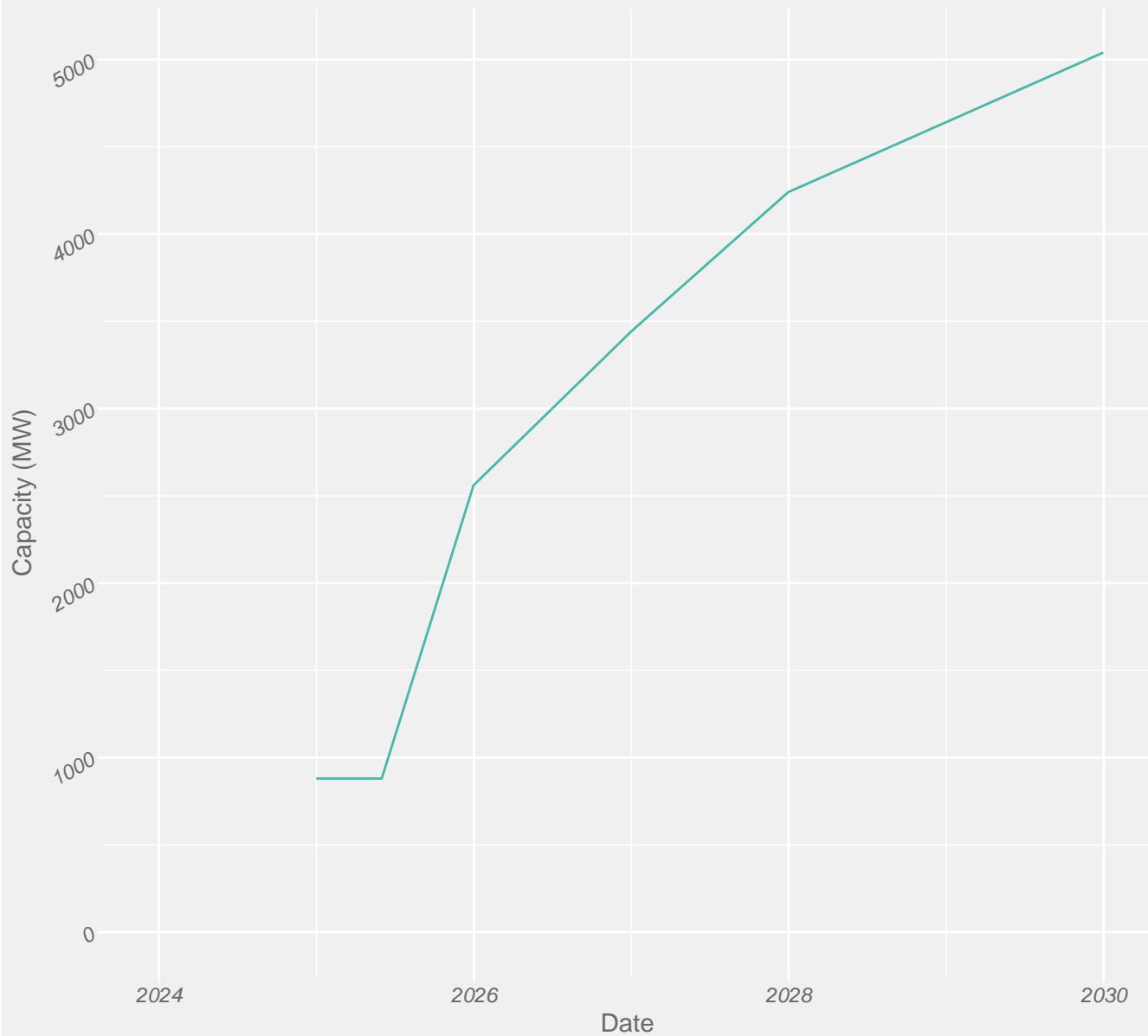
# Virginia Current and Projected Utility Wind and Solar Capacity



Source: PJM Interconnection LLC

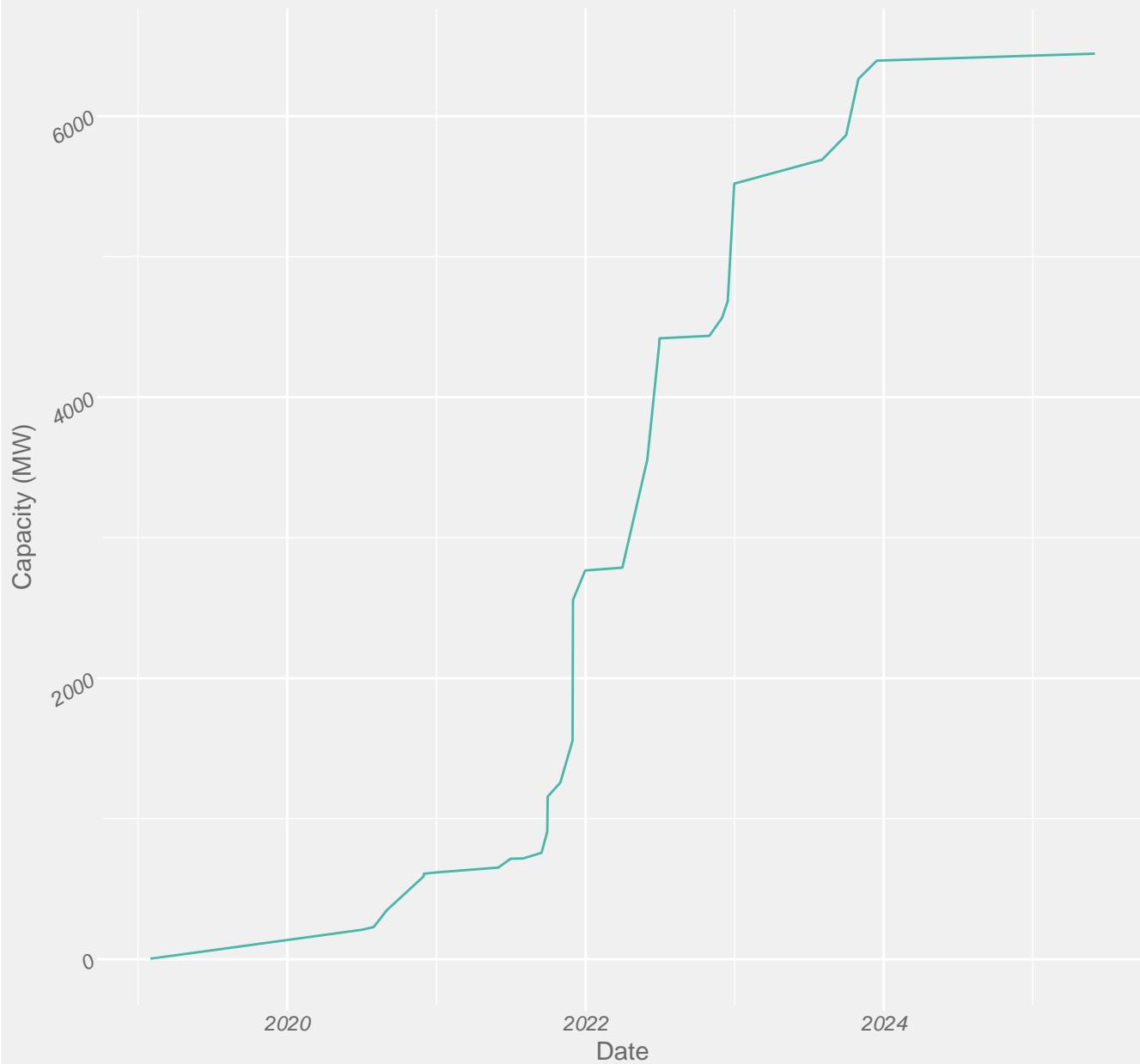
# Dominion Projected Offshore Wind Capacity

Note: VCEA requires Dominion to develop 5,200 MW of offshore wind by 2034



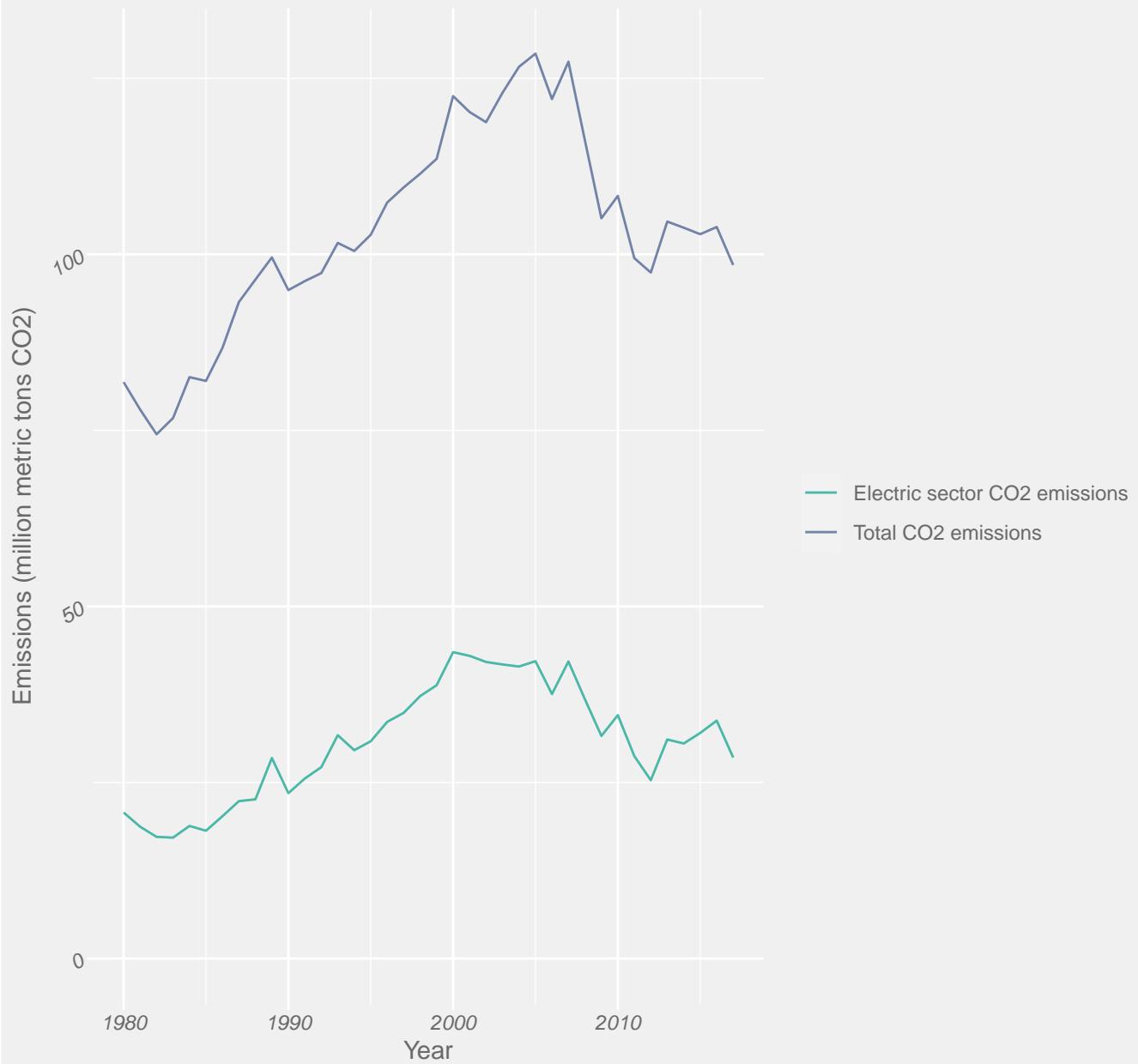
Source: PJM Interconnection LLC, Virginia Clean Economy Act

# Virginia Current and Projected Utility Storage Capacity



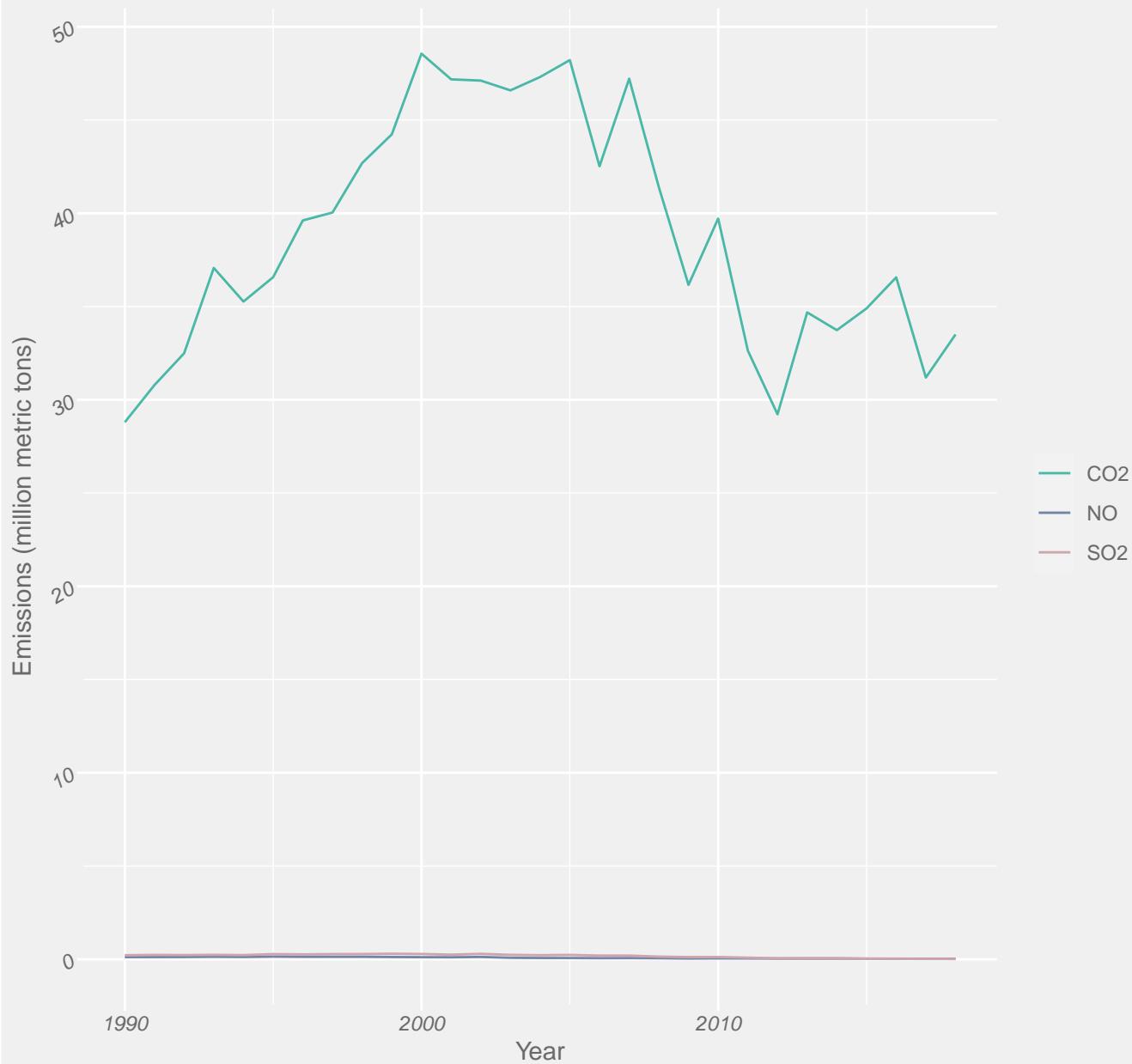
Source: PJM Interconnection LLC

# Virginia CO2 Emissions from Electricity Production



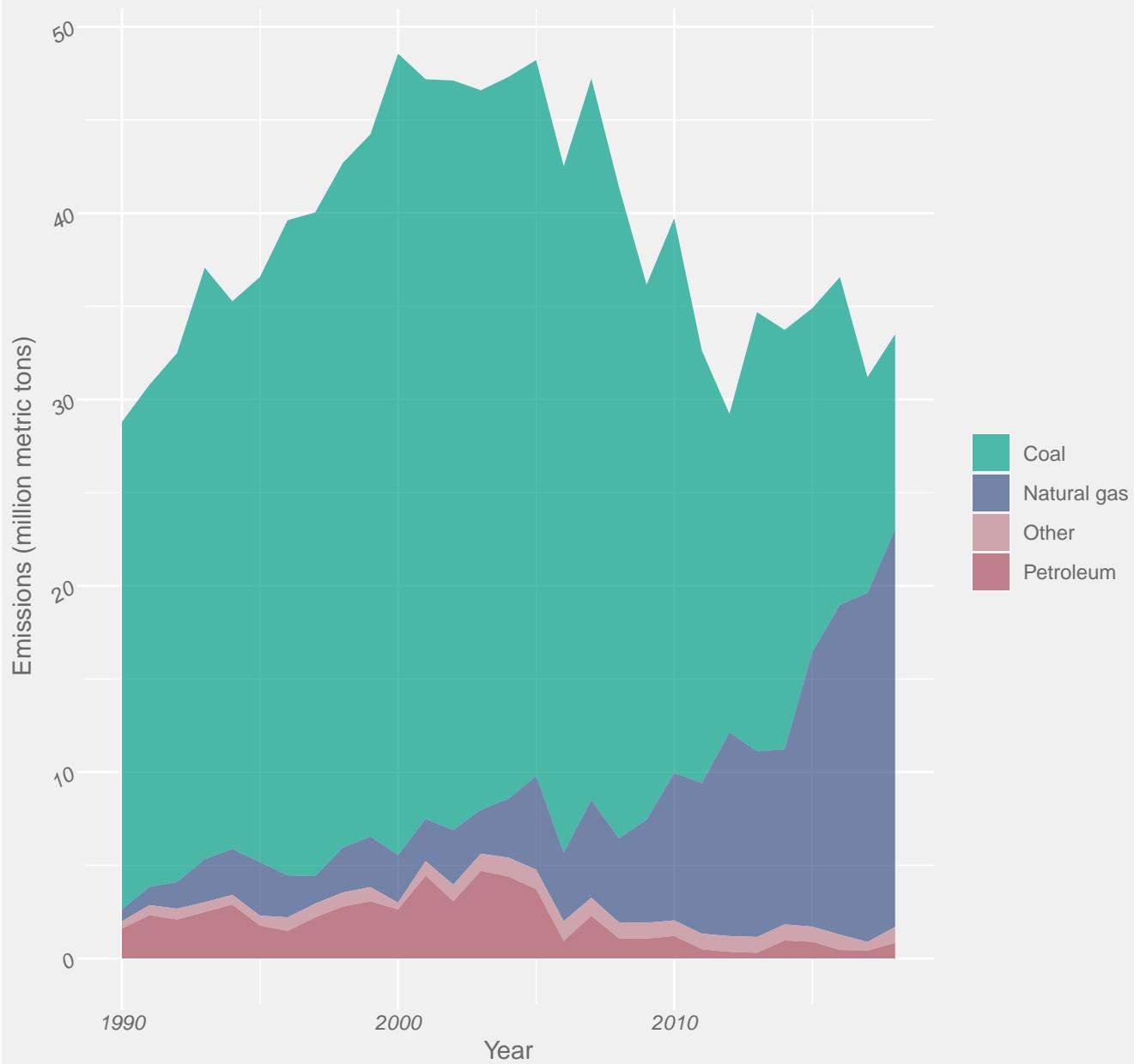
Source: U.S. Energy Information Administration

# Virginia Emissions



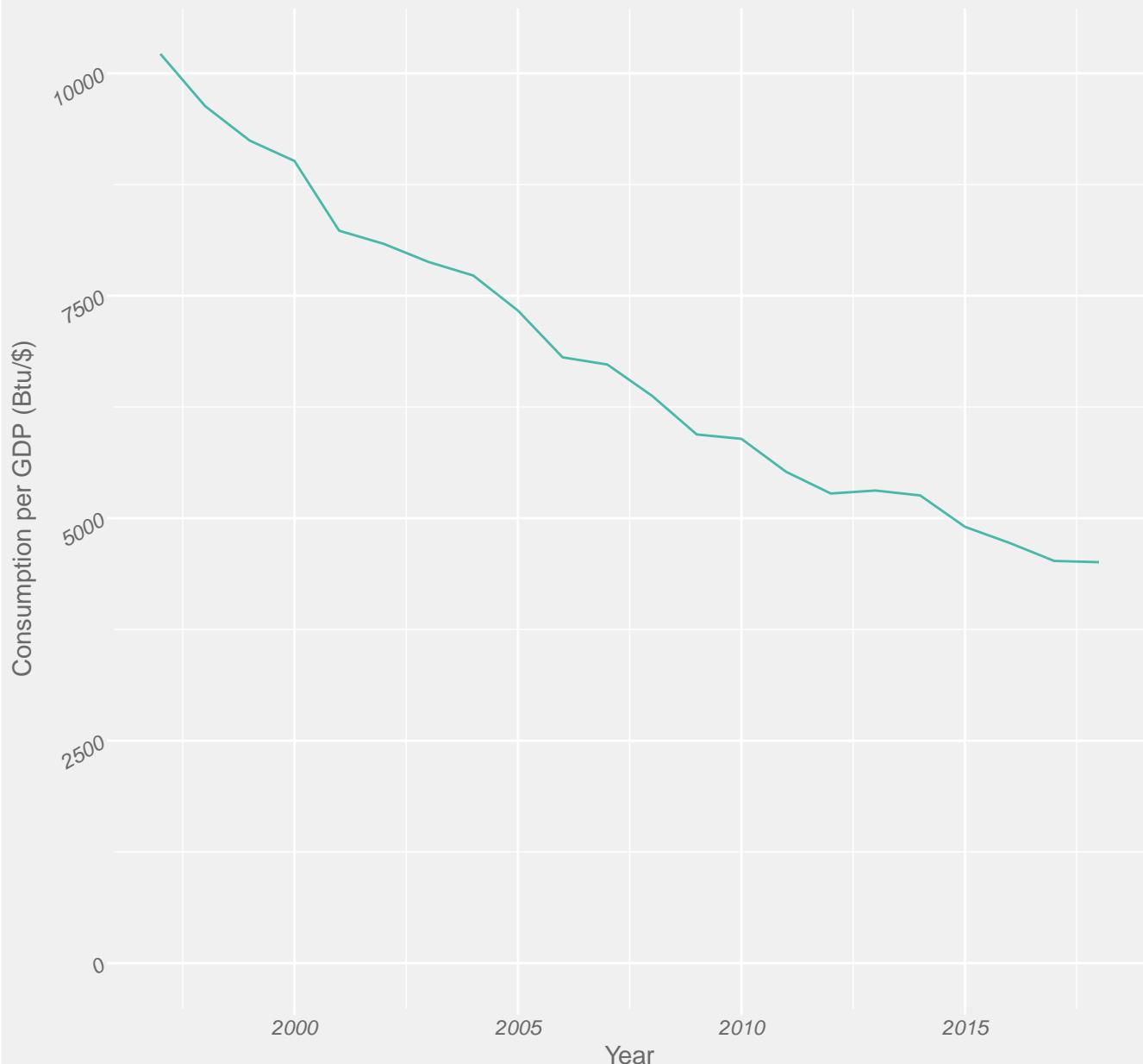
Source: U.S. Energy Information Administration

# Virginia CO<sub>2</sub> Emissions From Electricity Production By Fuel Type



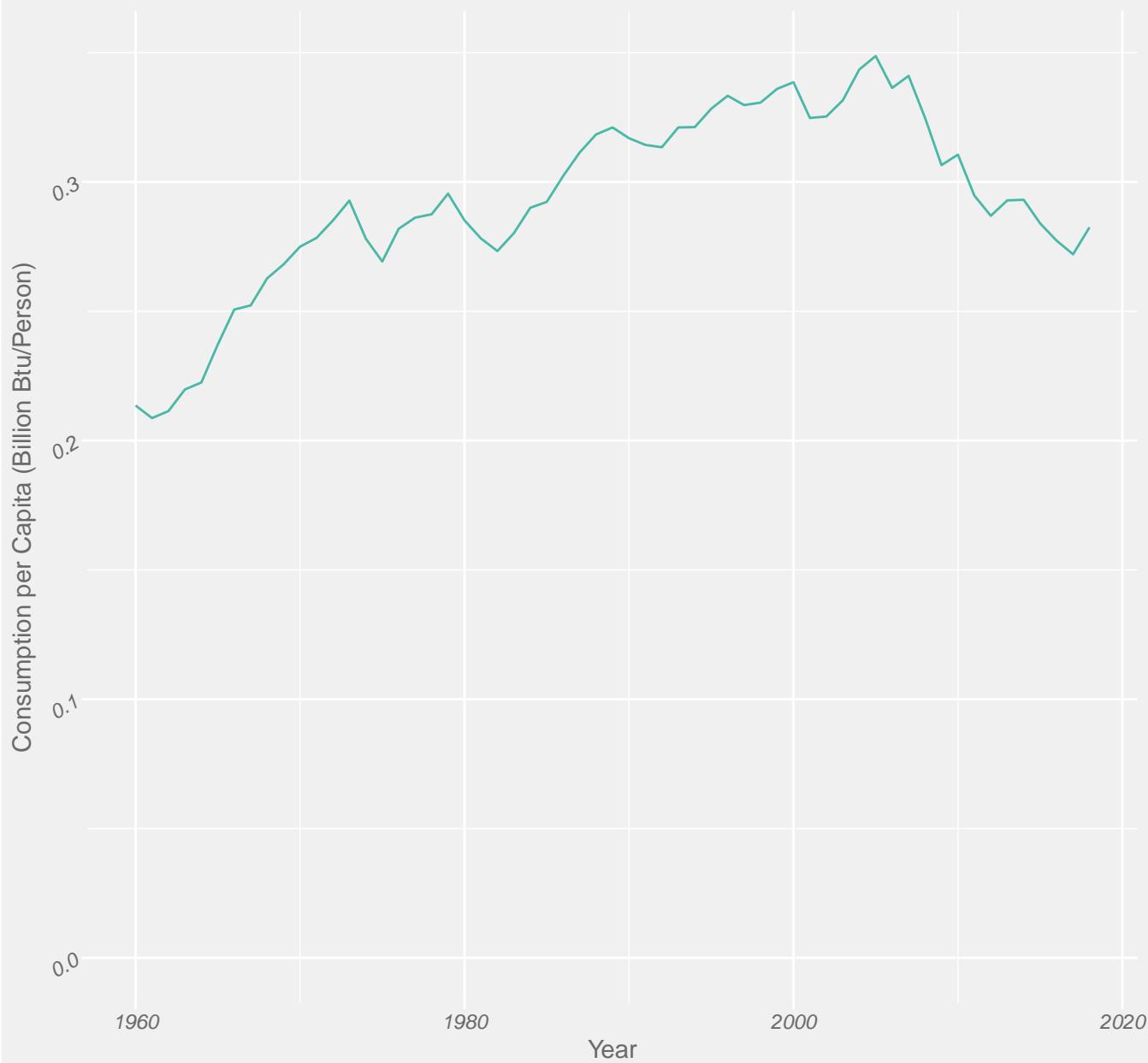
Source: U.S. Energy Information Administration

## Virginia Electricity Consumption per GDP



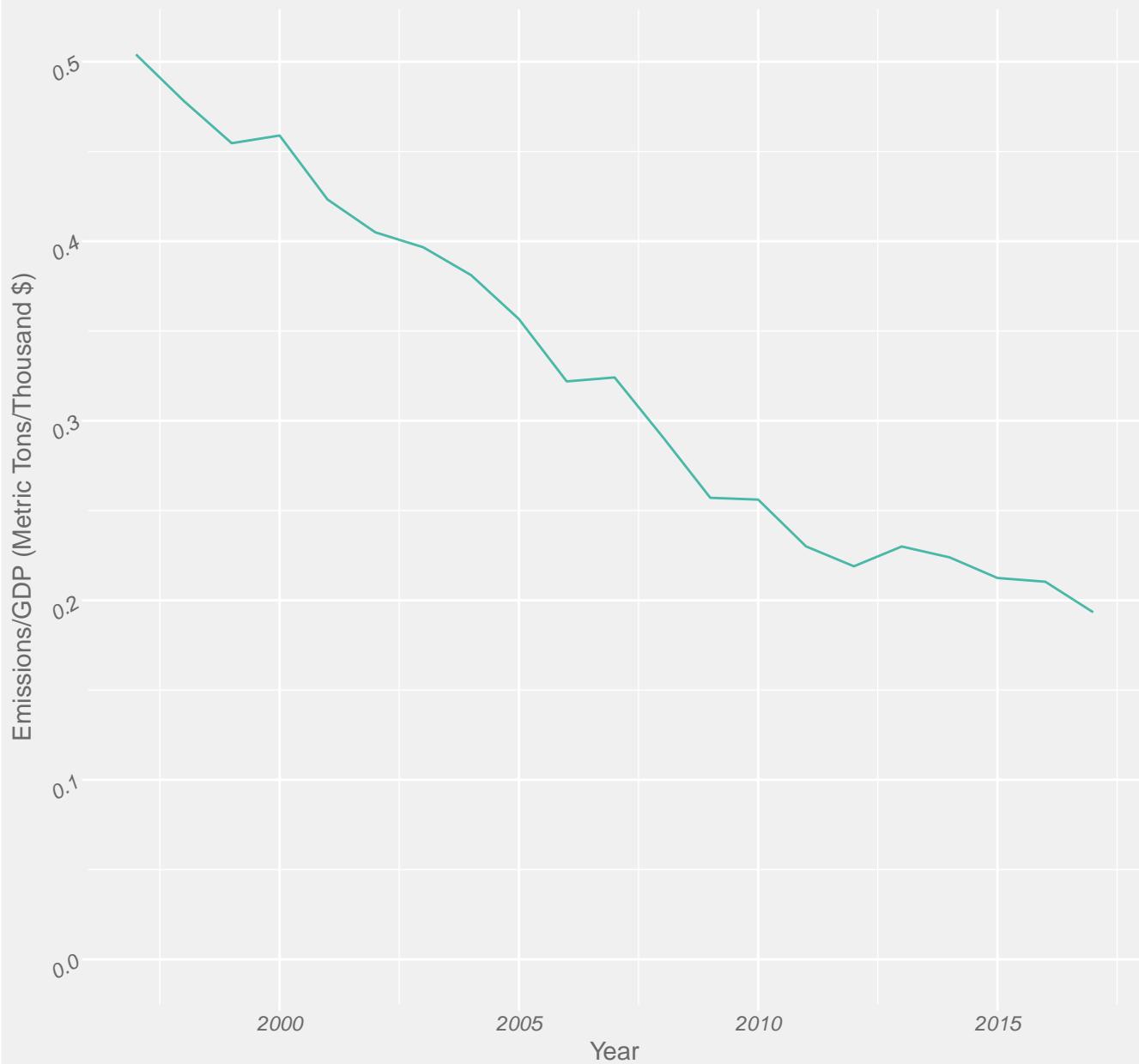
Source: Federal Reserve Economic Data, U.S. Energy Information Administration

# Virginia Electricity Consumption per Capita



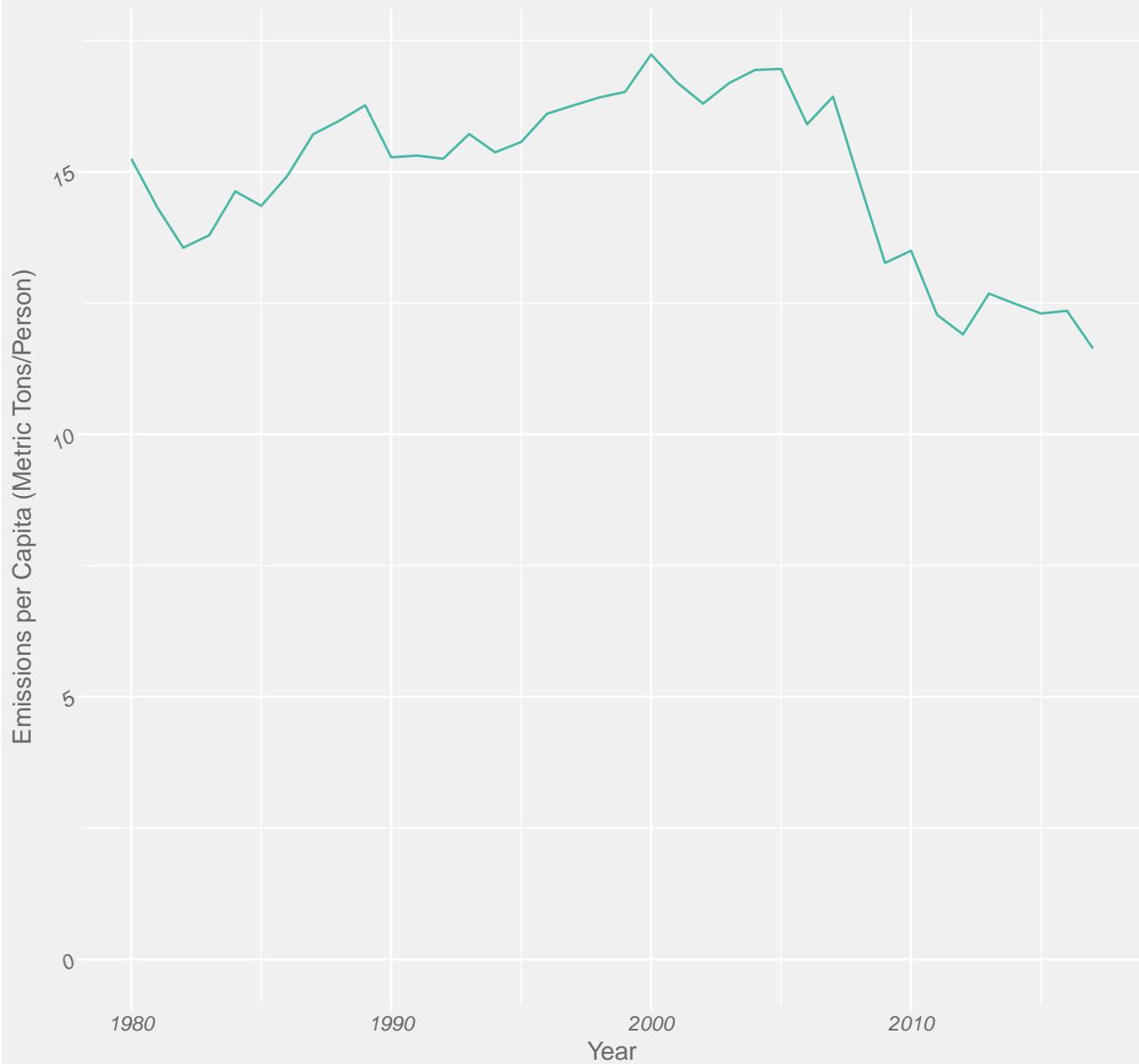
Source: U.S. Energy Information Administration

## Virginia CO<sub>2</sub> Emissions per unit of GDP



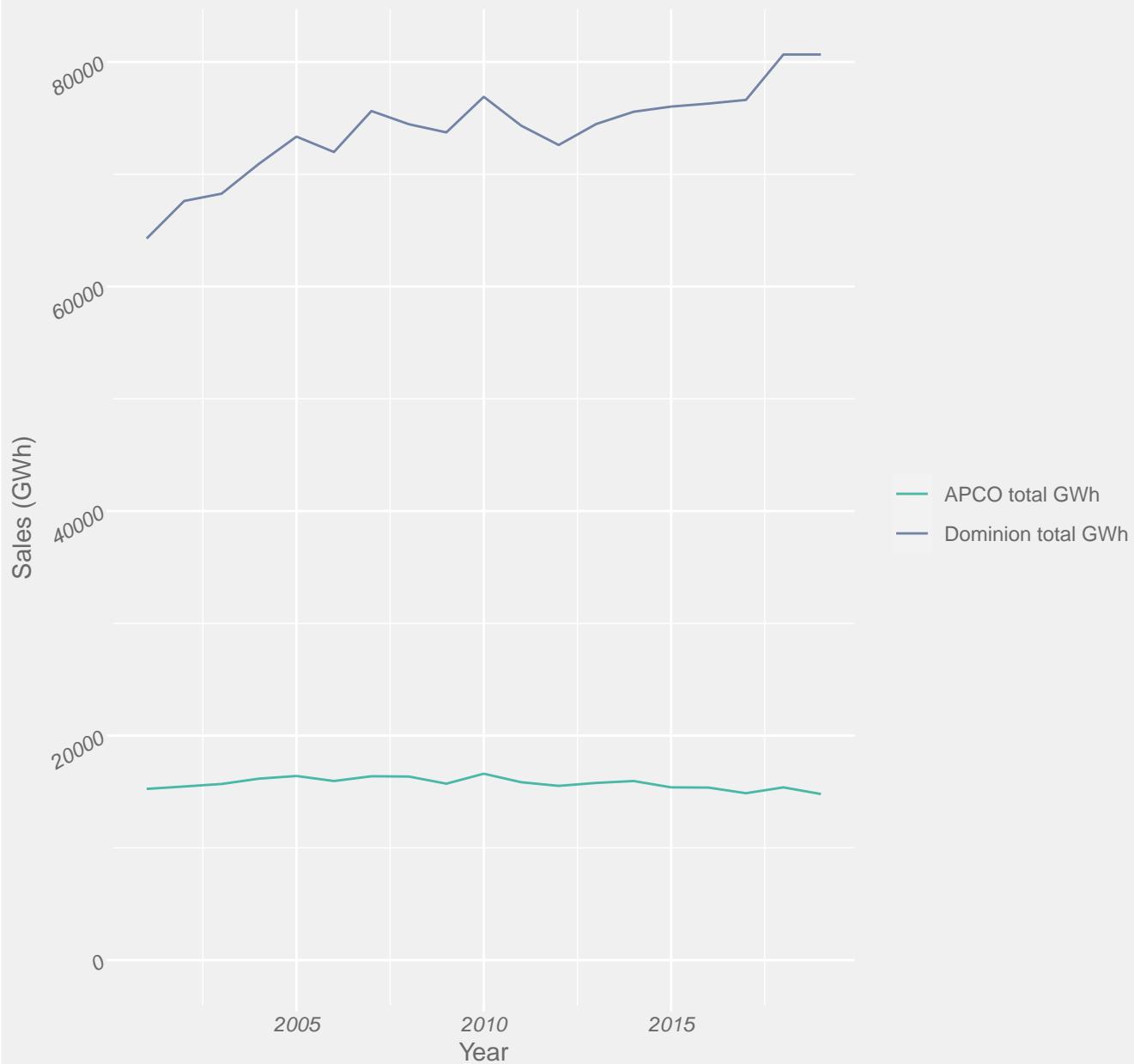
Source: U.S. Energy Information Administration, Federal Reserve Economic Data

# Virginia CO2 Emissions per Capita



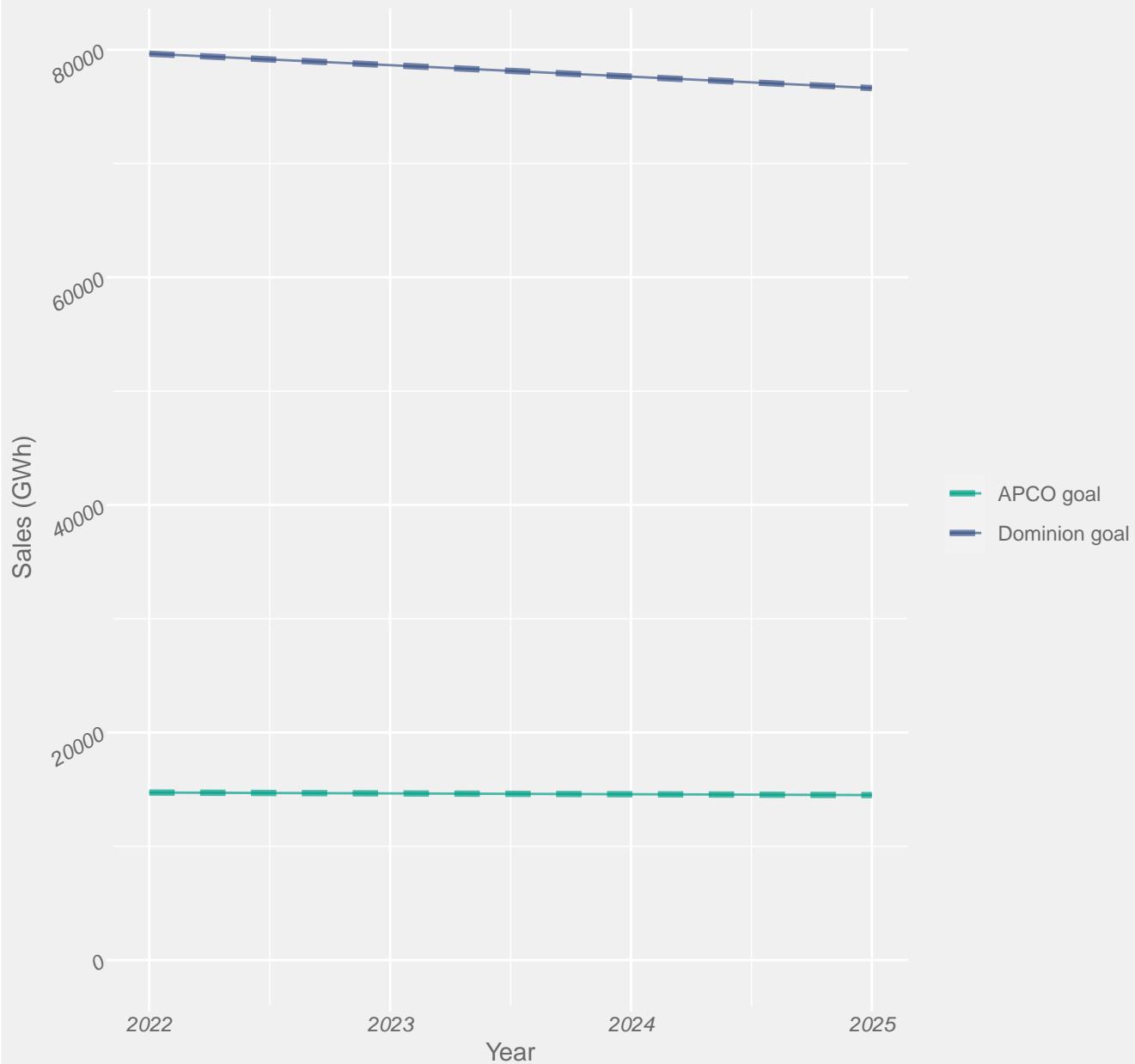
Source: U.S. Energy Information Administration

## APCO and Dominion Historic Sales



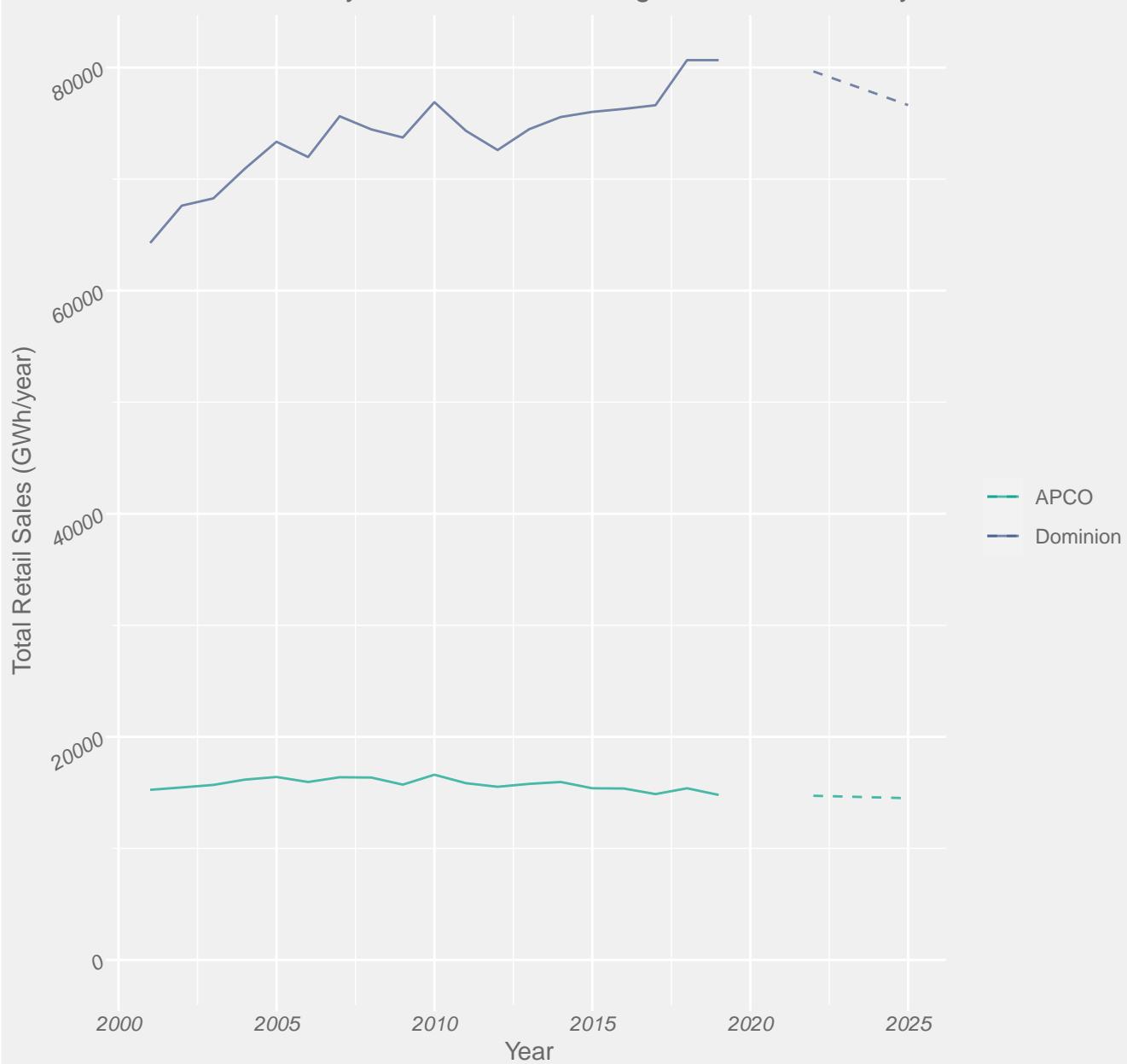
Source: U.S. Energy Information Administration, Virginia Clean Economy Act

# APCO and Dominion VCEA Sales Goals, 2022–2025



Source: U.S. Energy Information Administration, Virginia Clean Economy Act

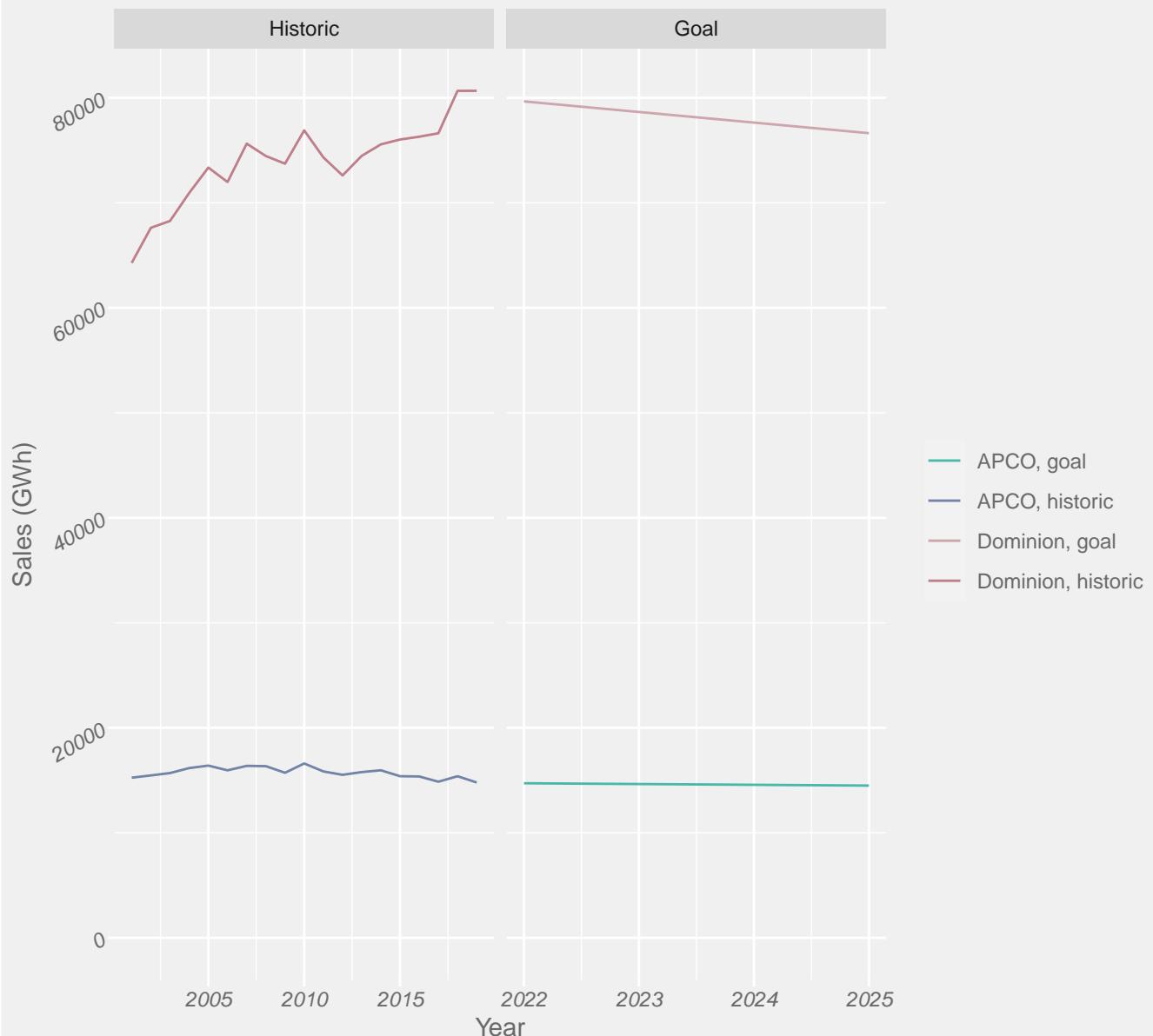
# Mandated Electricity Reduction Under Virginia Clean Economy Act



Source: U.S. Energy Information Administration, Dominion Energy Inc.

# Electricity Sales

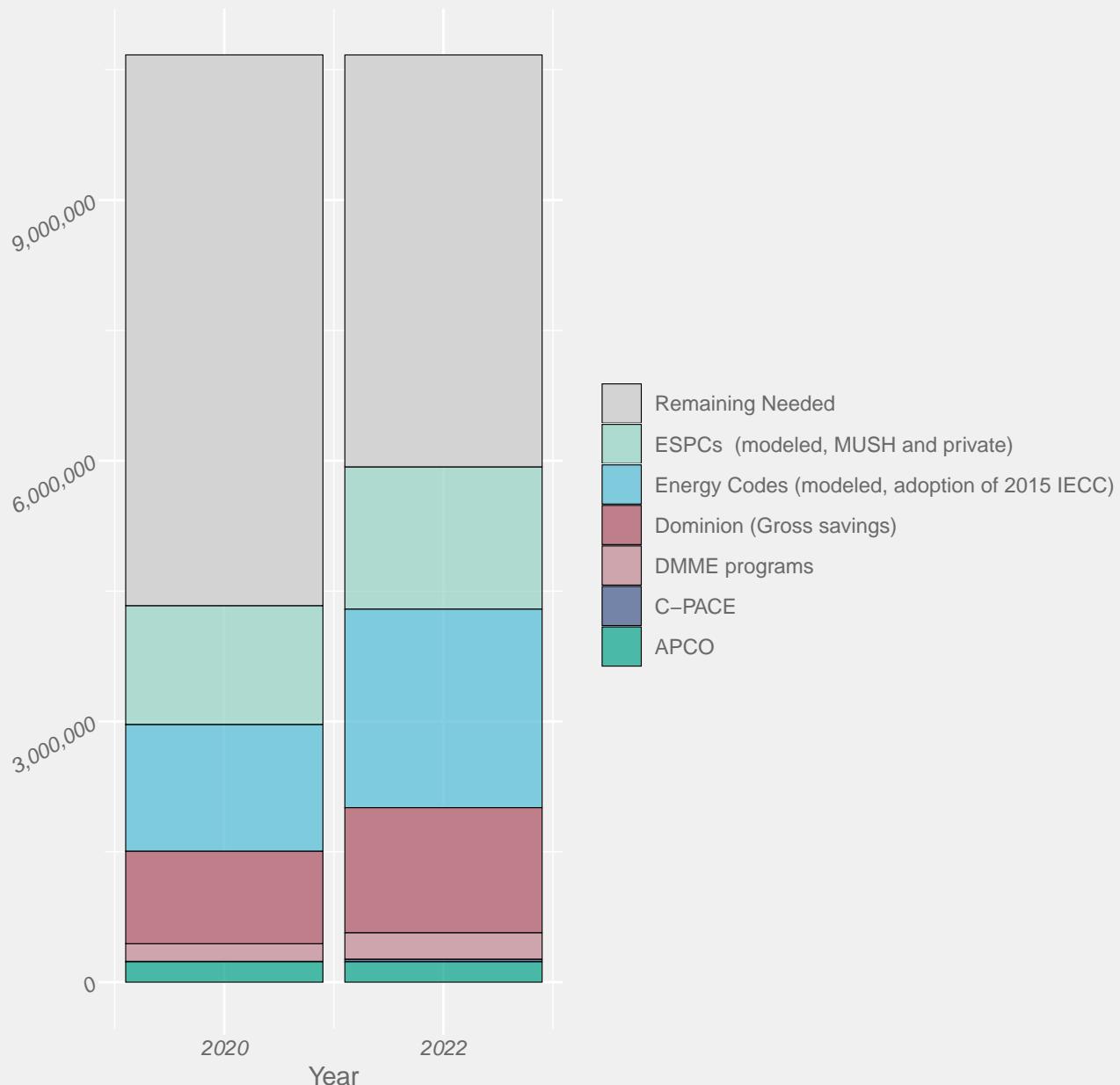
## Historic vs Goal



Source: U.S. Energy Information Administration, Virginia Clean Economy Act

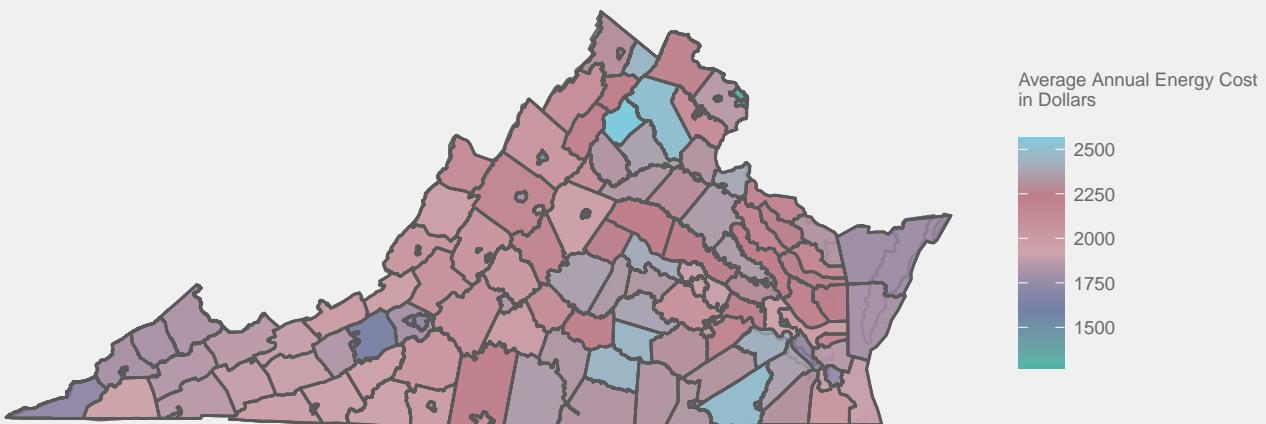
# Projected Future Savings From Energy Efficiency Programs

Projected energy savings (MWh)



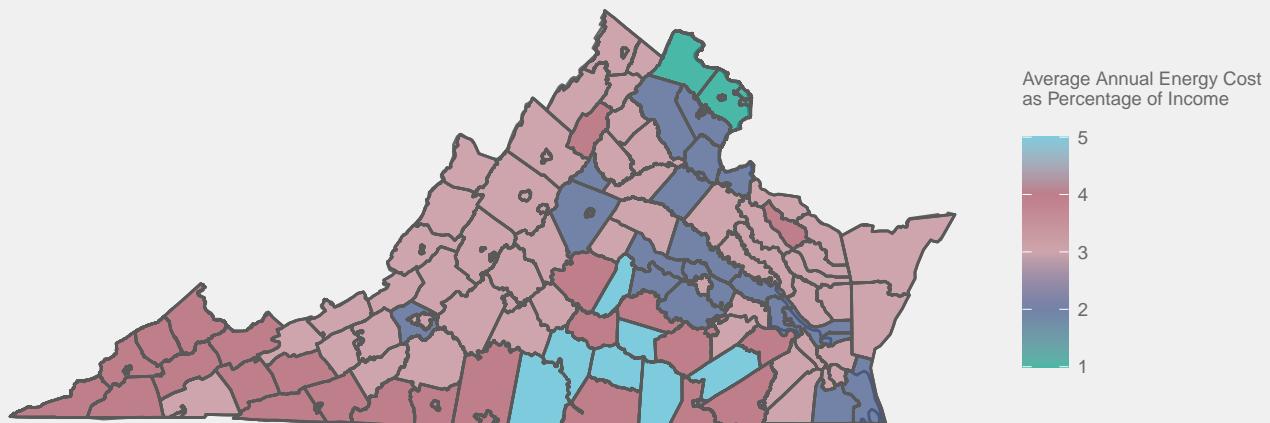
Source: The American Council for an Energy-Efficient Economy

## Average Annual Energy Cost (\$) for Counties in Virginia



Source: Low-Income Energy Affordability Data Tool

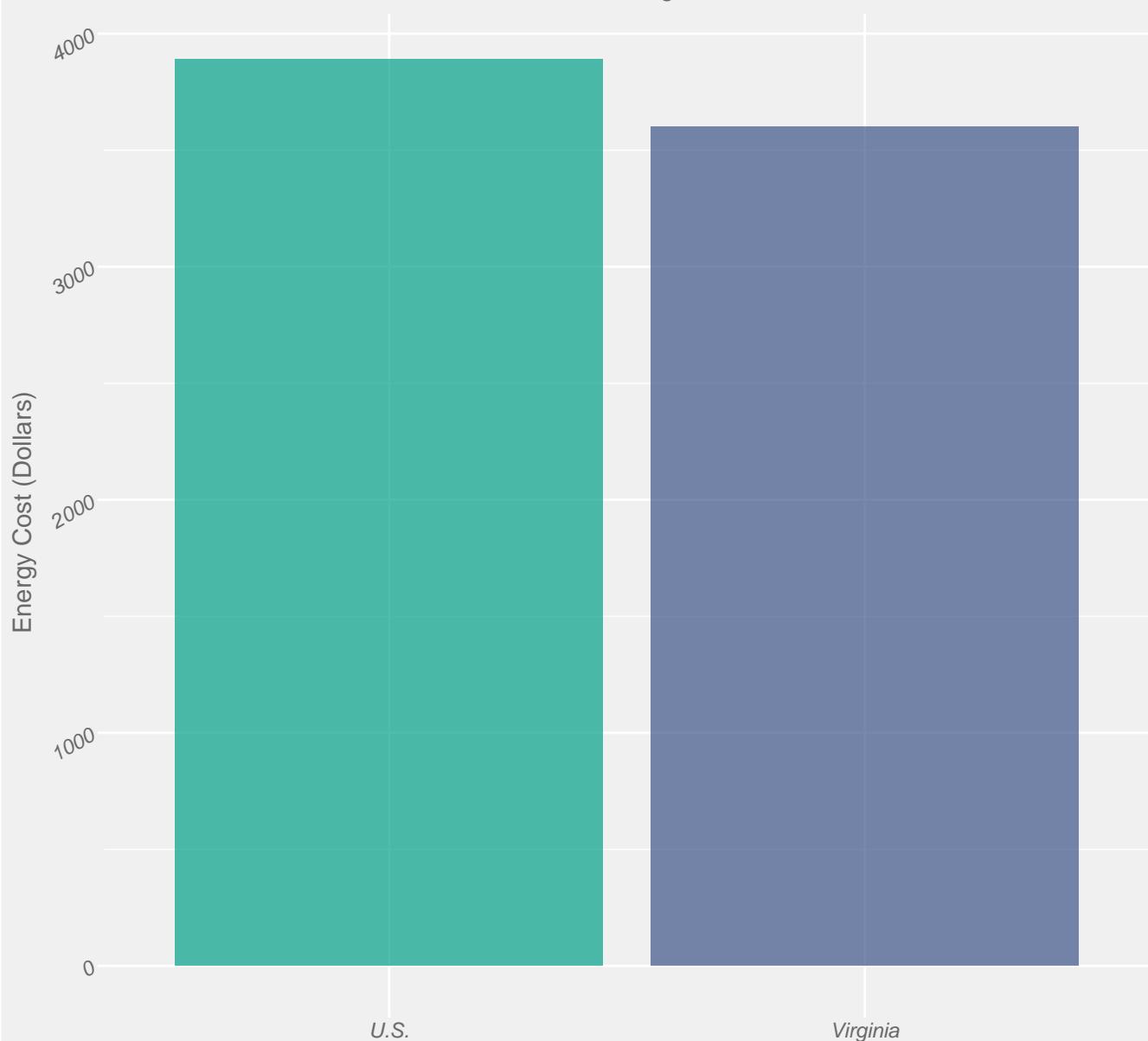
## Average Energy Burden (% income) for Counties in Virginia



Source: Low-Income Energy Affordability Data Tool

# 2018 Energy Expenditures per Capita in Dollars

## U.S. vs Virginia



Source: U.S. Energy Information Administration

# 2018 Energy Expenditures per Capita as a Percentage of Median Income

## U.S. vs Virginia

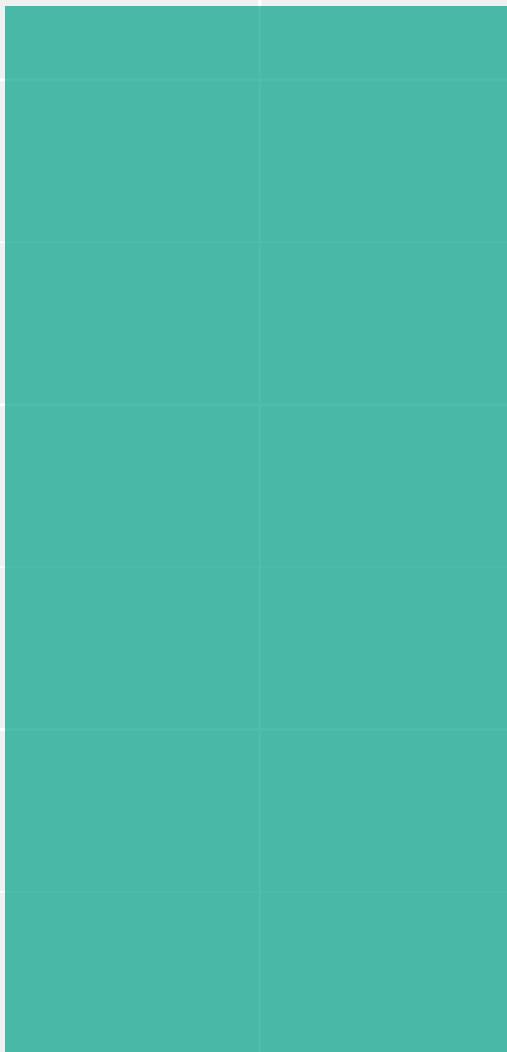
Energy Cost (Percentage of Income)

6

4

2

0



U.S.

Virginia

Source: U.S. Census Bureau, U.S. Energy Information Administration