



# PJM Market Overview

South Carolina House Ways and  
Means Committee

March 2, 2020

Stu Bresler

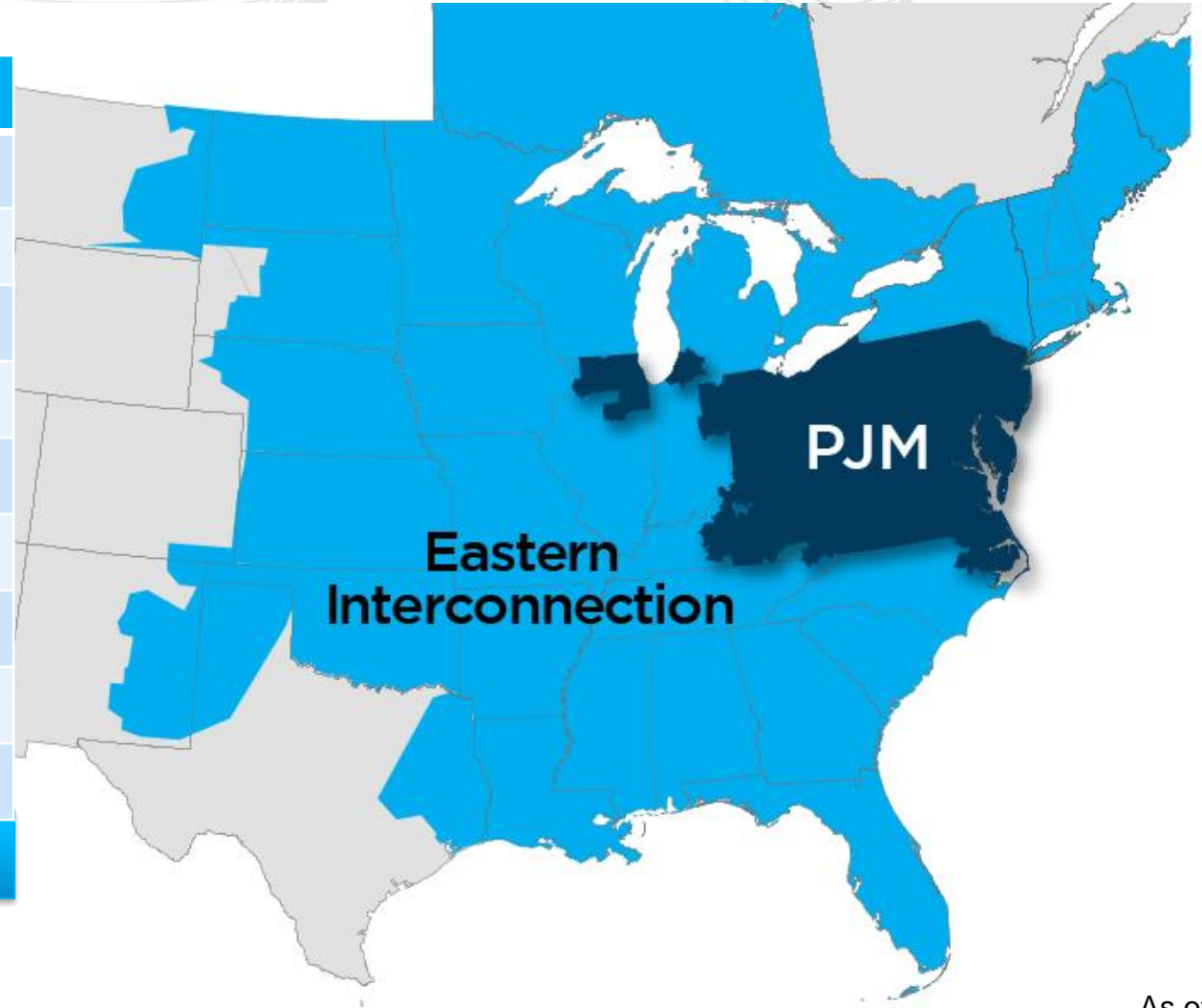
SVP, Market Services

PJM Interconnection, LLC

## Key Statistics

Member companies	1,040+
Millions of people served	65
Peak load in megawatts	165,563
MW of generating capacity	186,788
Miles of transmission lines	84,236
2018 GWh of annual energy	787,307
Generation sources	1,446
Square miles of territory	369,089
States served	13 + DC

**21% of U.S. GDP produced in PJM**



As of 1/2019

To be the electric industry leader –  
today and tomorrow – in reliable  
operations, efficient wholesale markets,  
and infrastructure development.

# How Is PJM Different from a Local Utility?



Agreement for Operational Control

Independent, Neutral



Coordinate Systems



## Reliability

- Grid Operations
- Supply/Demand Balance
- Transmission monitoring

1

## Regional Planning

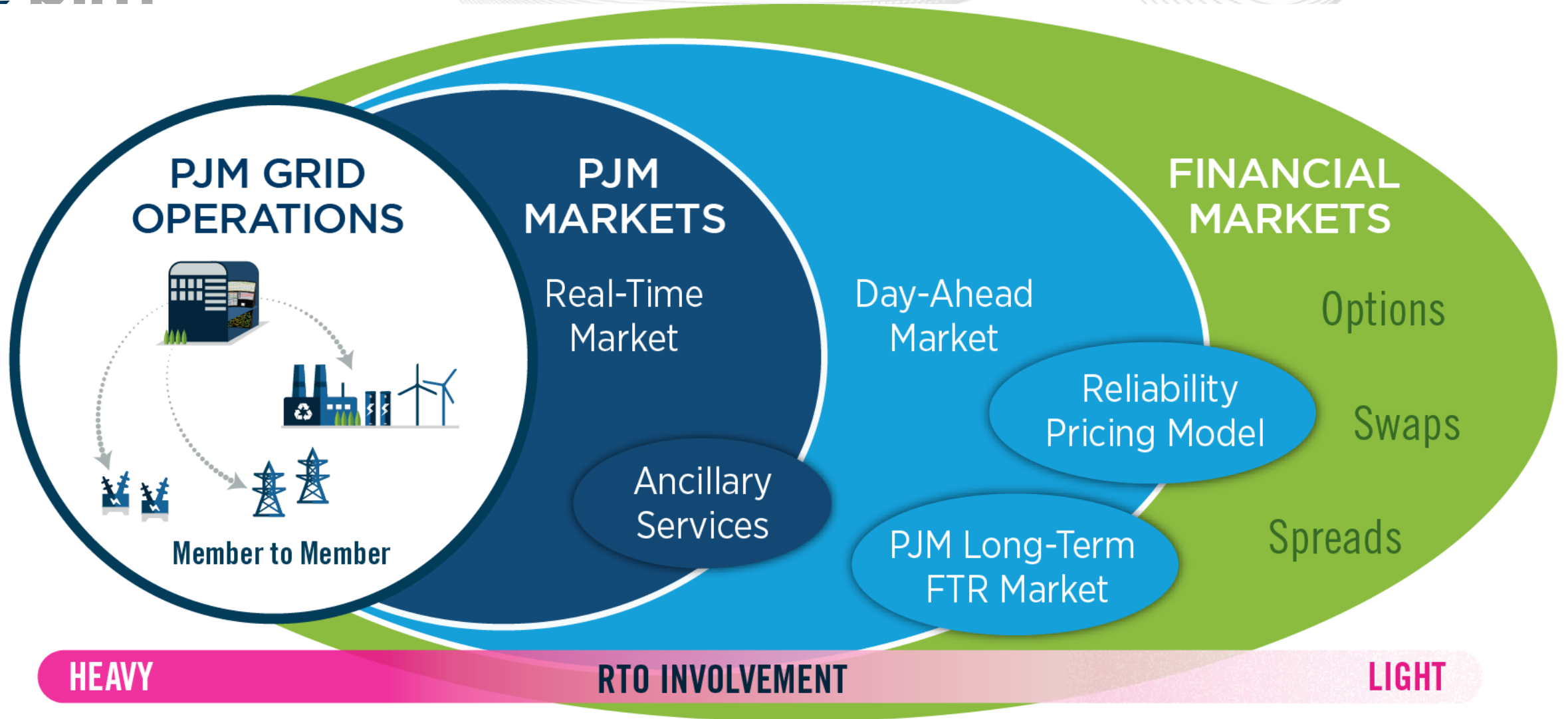
- 15-Year Outlook

2

3

## Market Operation

- Energy
- Capacity
- Ancillary Services

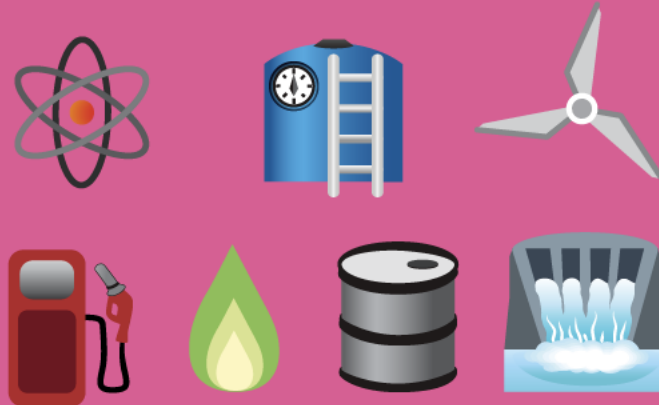




**Delivers Robust Reliability**



**Delivers Operational Diversity**



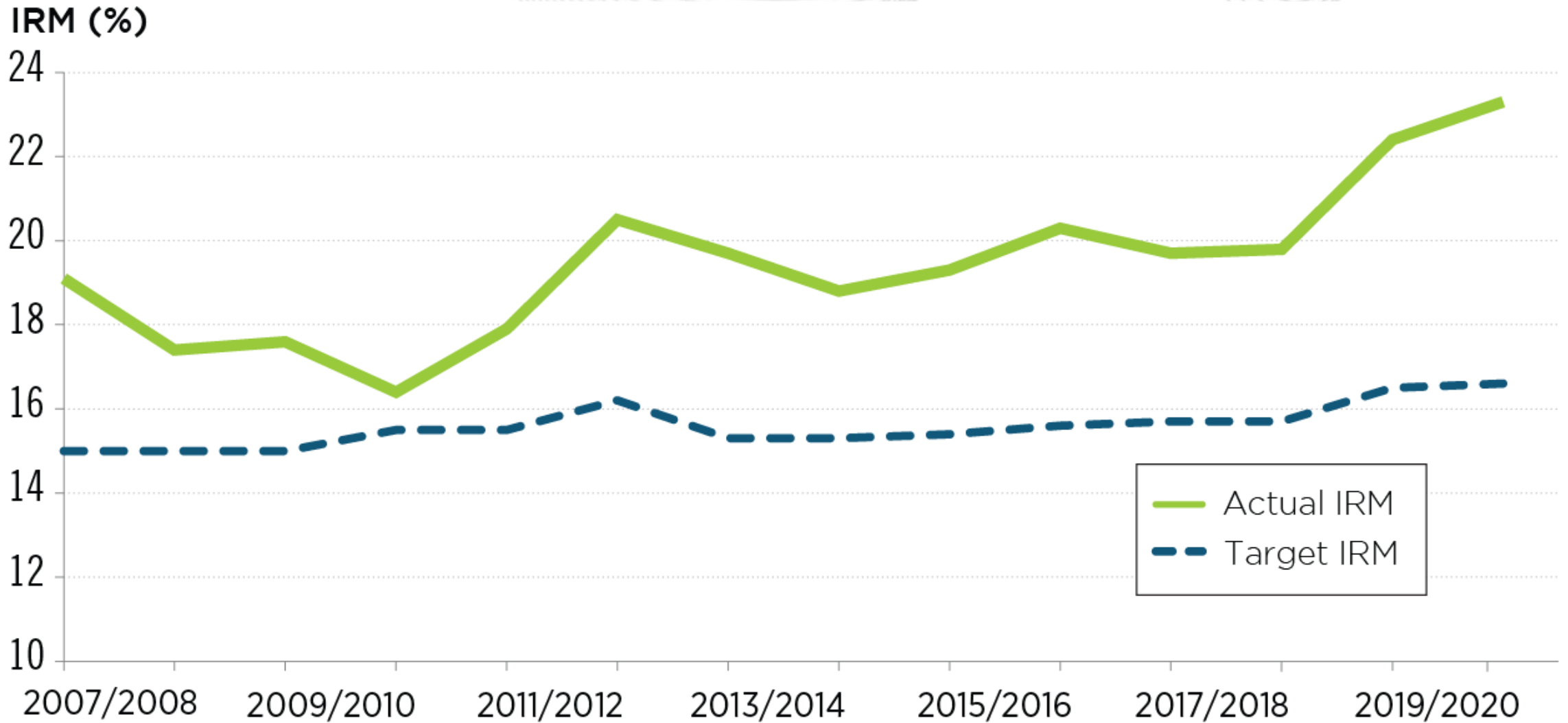
**Delivers Regional Infrastructure Planning**



**Sustained Reliability at Least Cost**



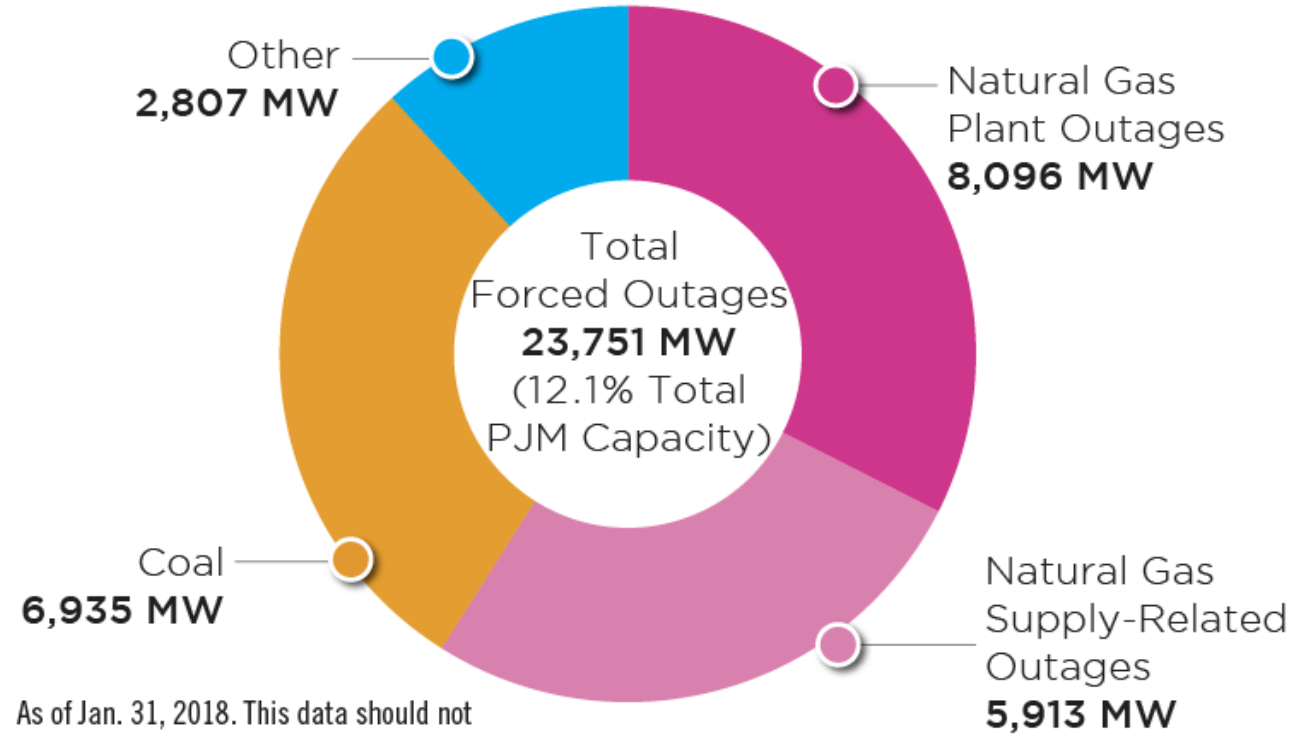
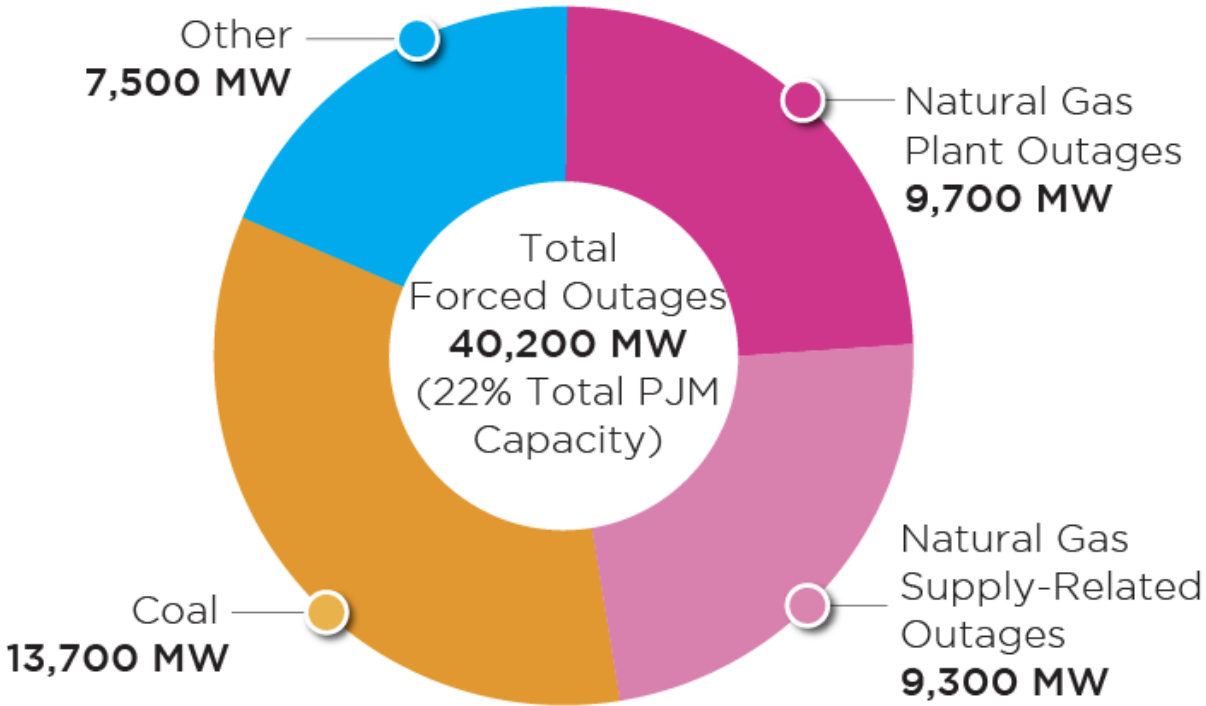
# PJM Installed Reserve Margin (2007/08-2019/20)





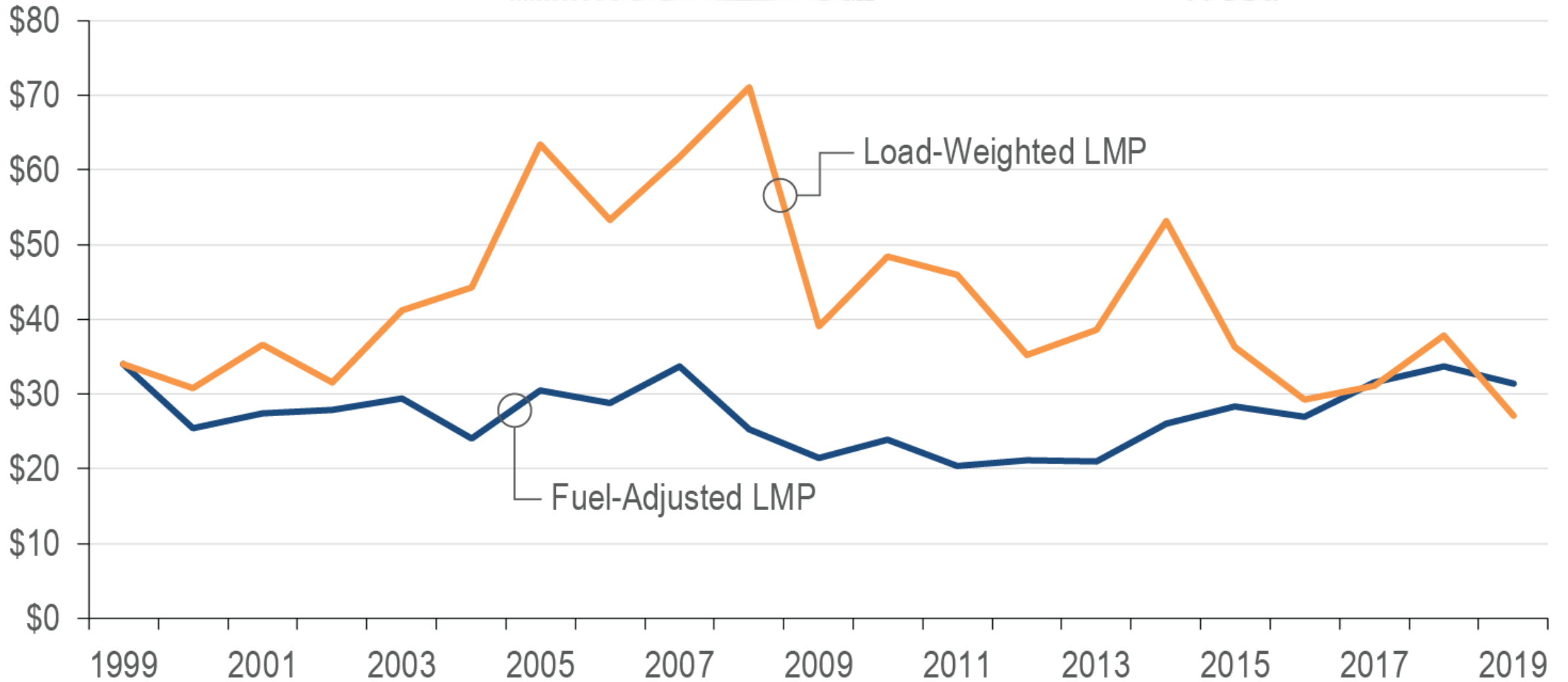
Jan. 7, 2014

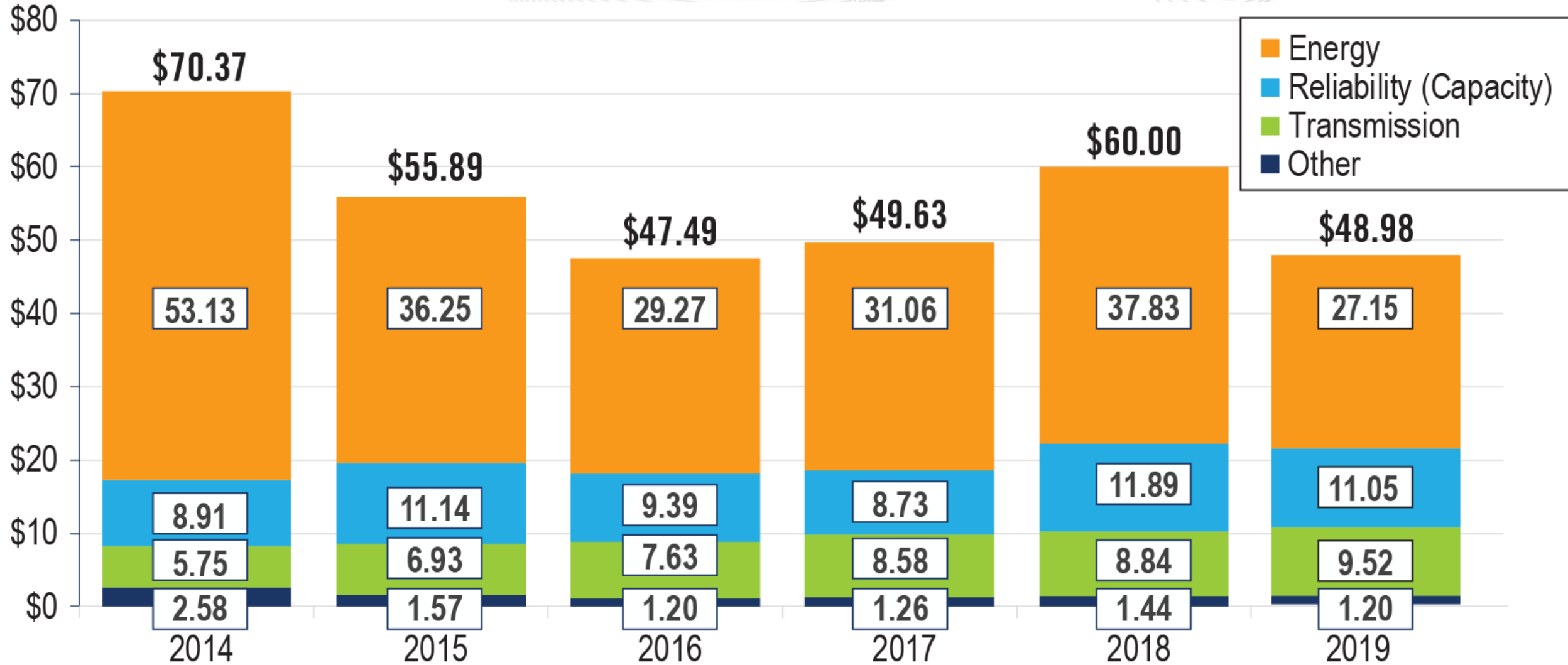
Jan. 7, 2018



As of Jan. 31, 2018. This data should not be used as the basis for decision-making.

# Fuel Cost Adjusted Energy Prices (Referenced to 1999 Fuel Prices)

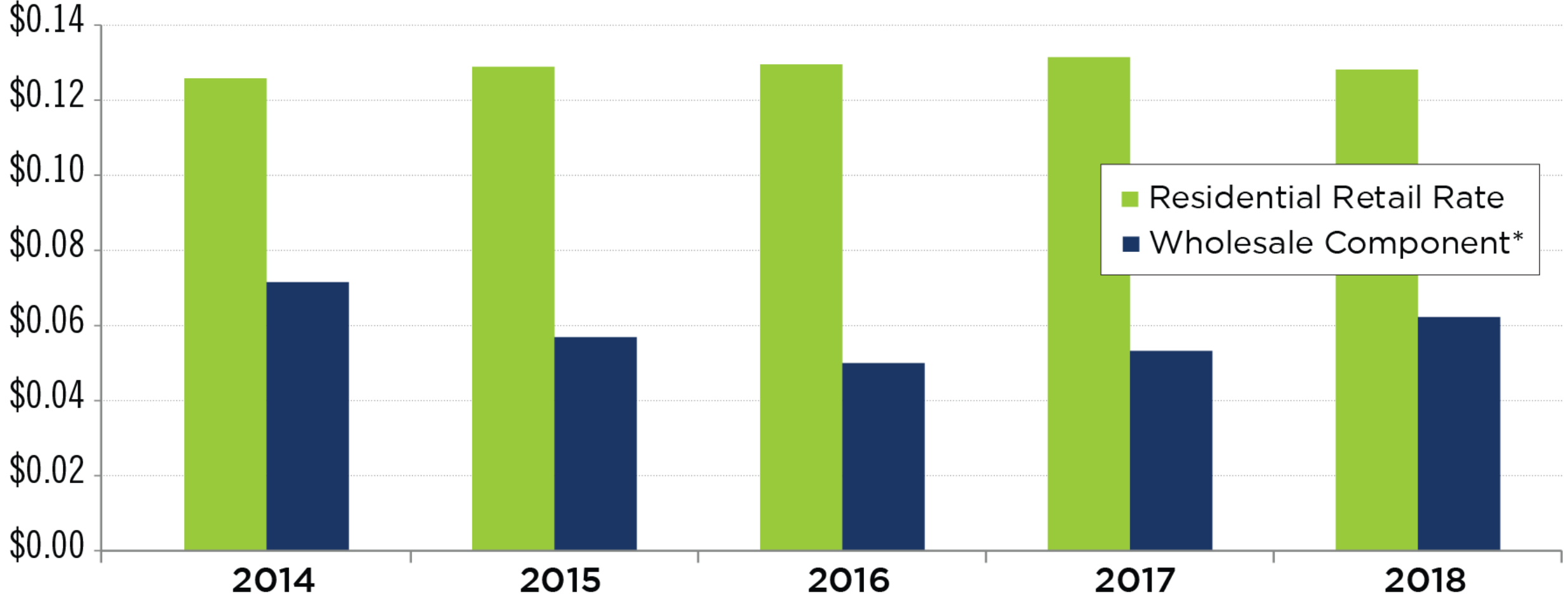






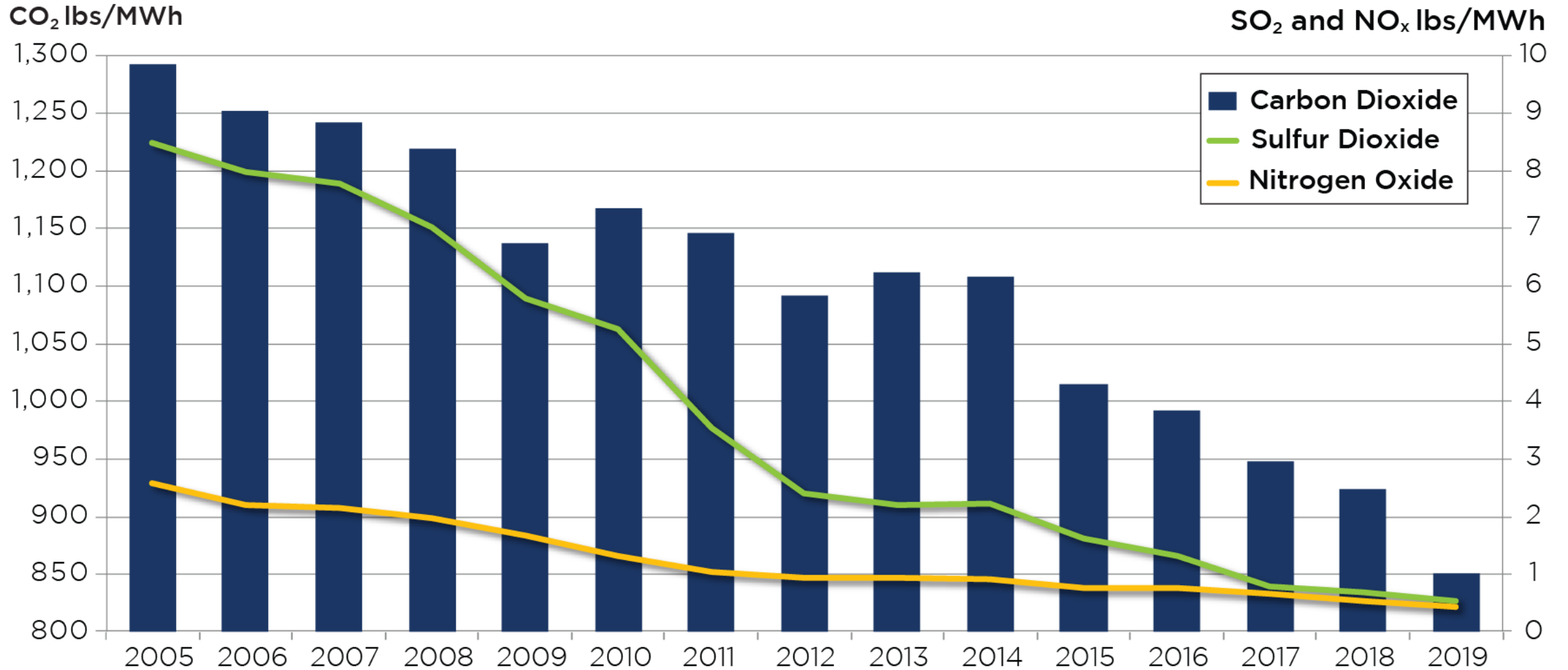
# PJM Wholesale Rates (2014-2018)

\$/kWh of usage



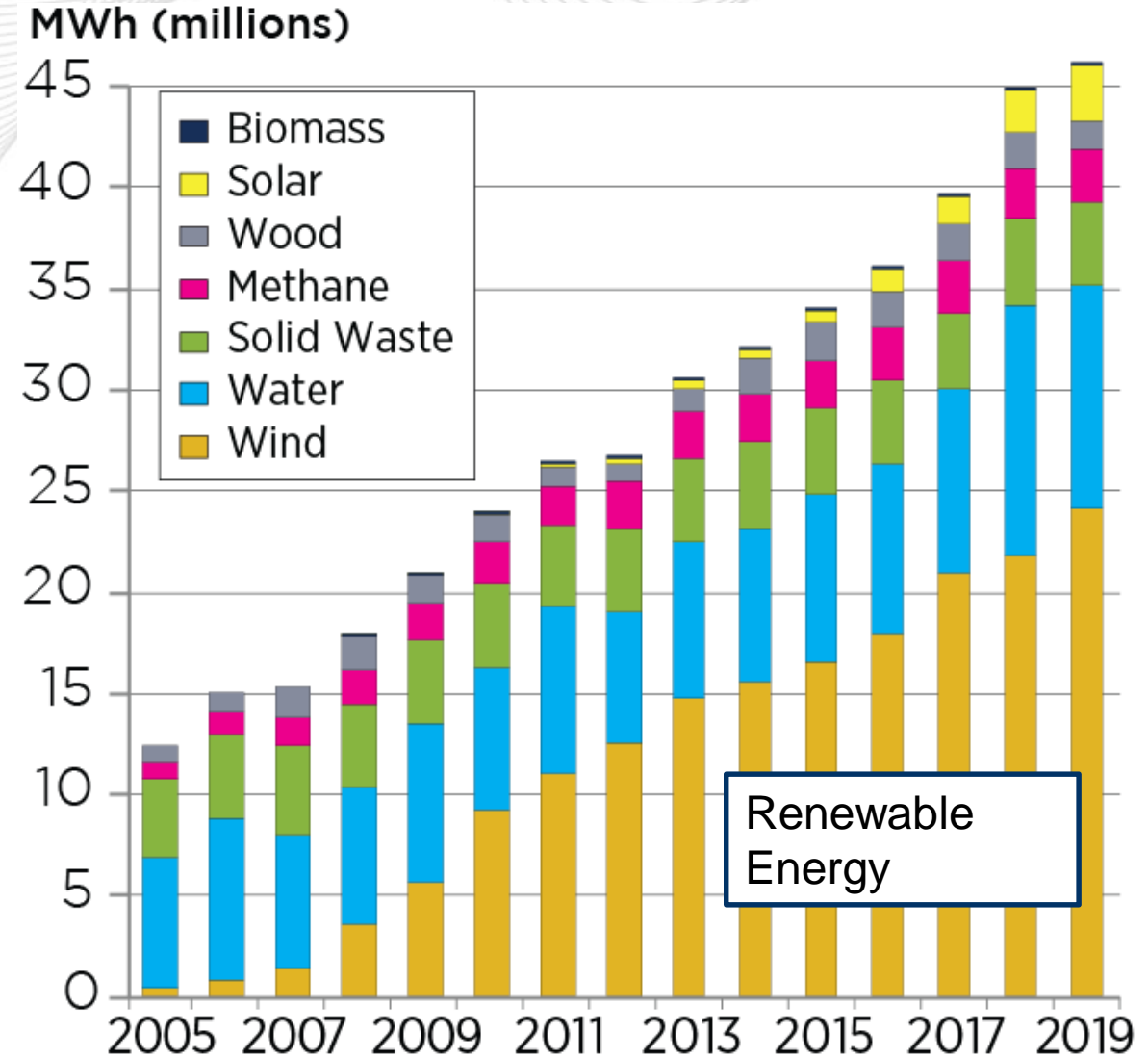
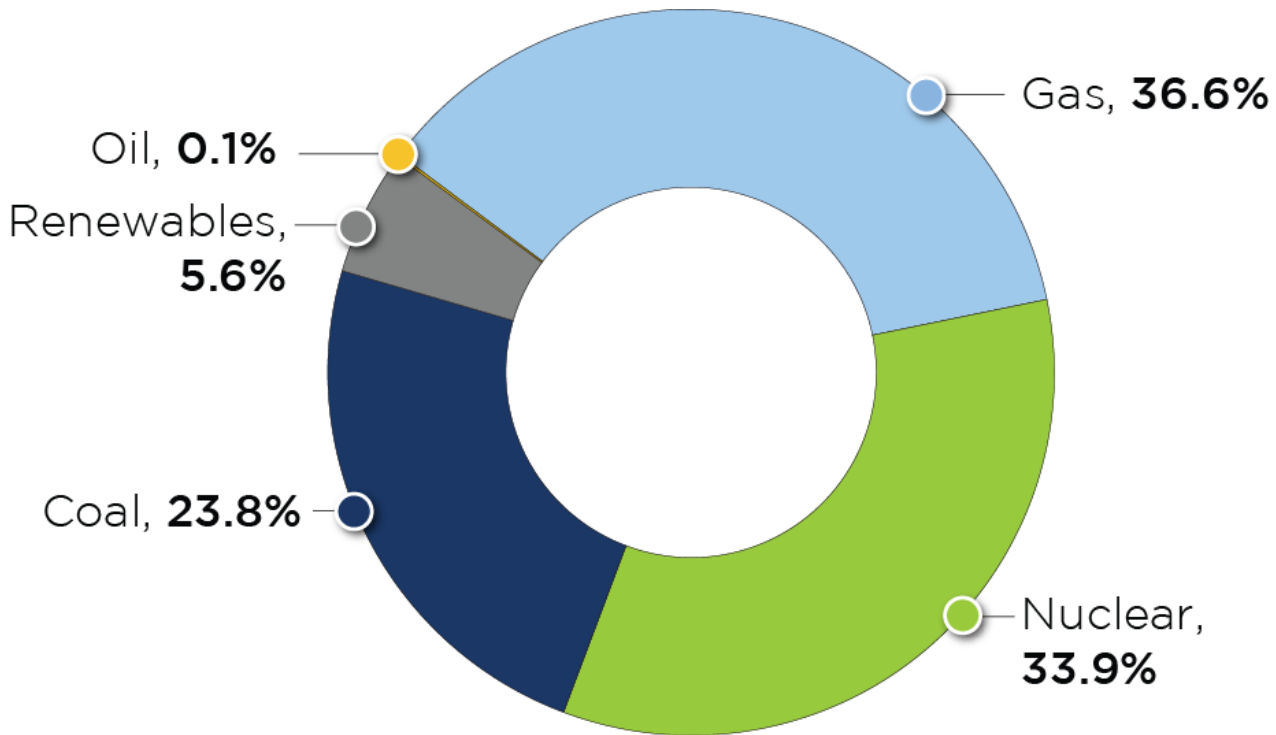
\*Includes LMP, capacity, transmission, ancillary services and other costs

Sources: EIA, EEI, Monitoring Analytics, PJM

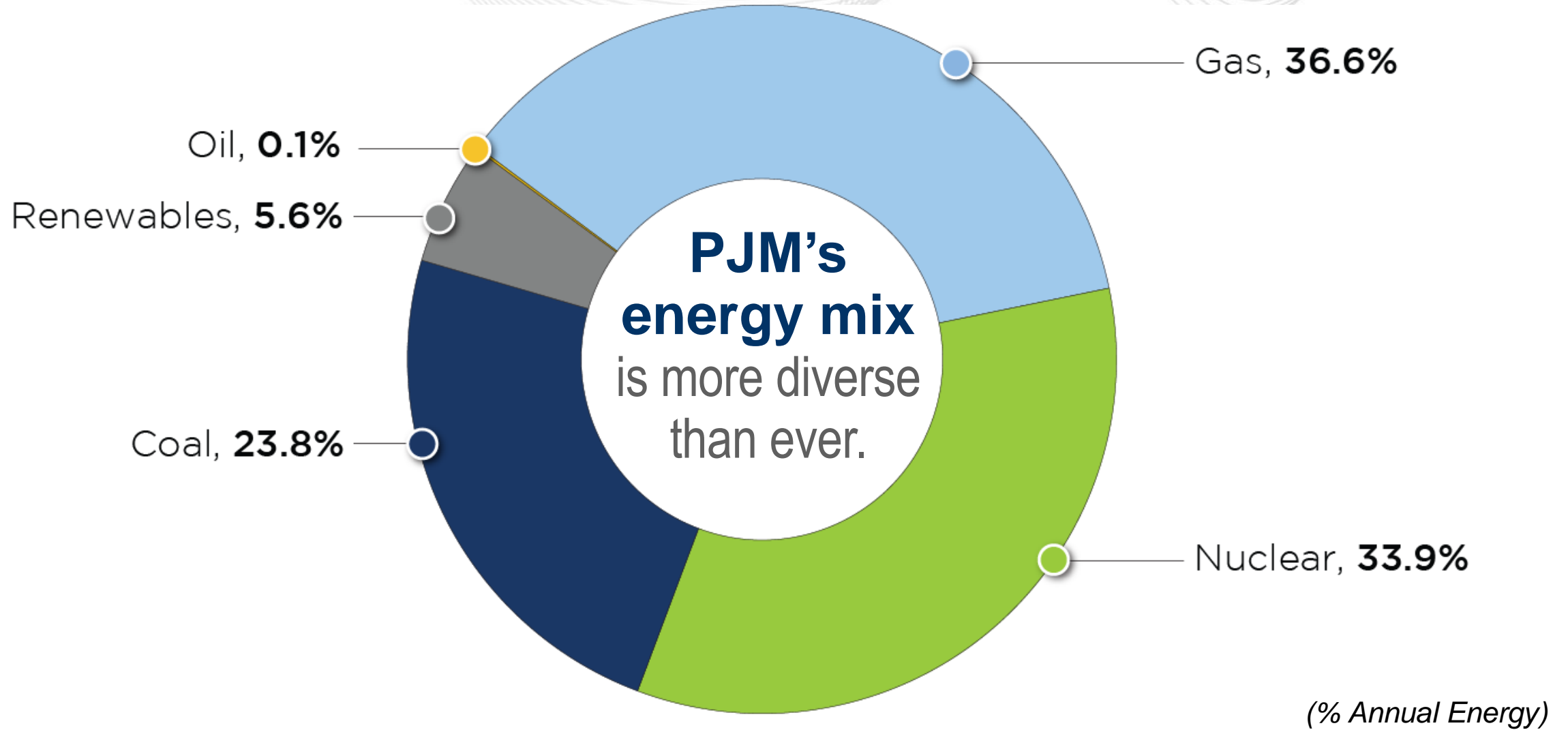


# Percentage of Renewable Energy is Small but Growing

## PJM Generation Mix – 2019 Annual Energy







## Markets need to:

- Continue ensuring reliability at lowest reasonable cost
- Value needed resource attributes
- Utilize competitive, market-based solutions to efficiently drive reliable operations

10 YEARS AGO

