

Nuclear Power Economics in the U.S.

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\$21B

Being invested
in utilities
through 2021

\$52M

In 2017, Exelon gave
approx. \$52 million
to charitable and
community causes

#1

zero-carbon
energy
provider
in America

210 TWh

Customer load
served

35,200

Megawatts of
total power
generation
capacity

10M

Six utilities serving
10M electric and
gas customers, the
most in the U.S.

34,600

employees

\$33.5B

Operating
revenue in 2017

FORTUNE
100

Exelon is a
FORTUNE 100
company

2M
(Approx.)

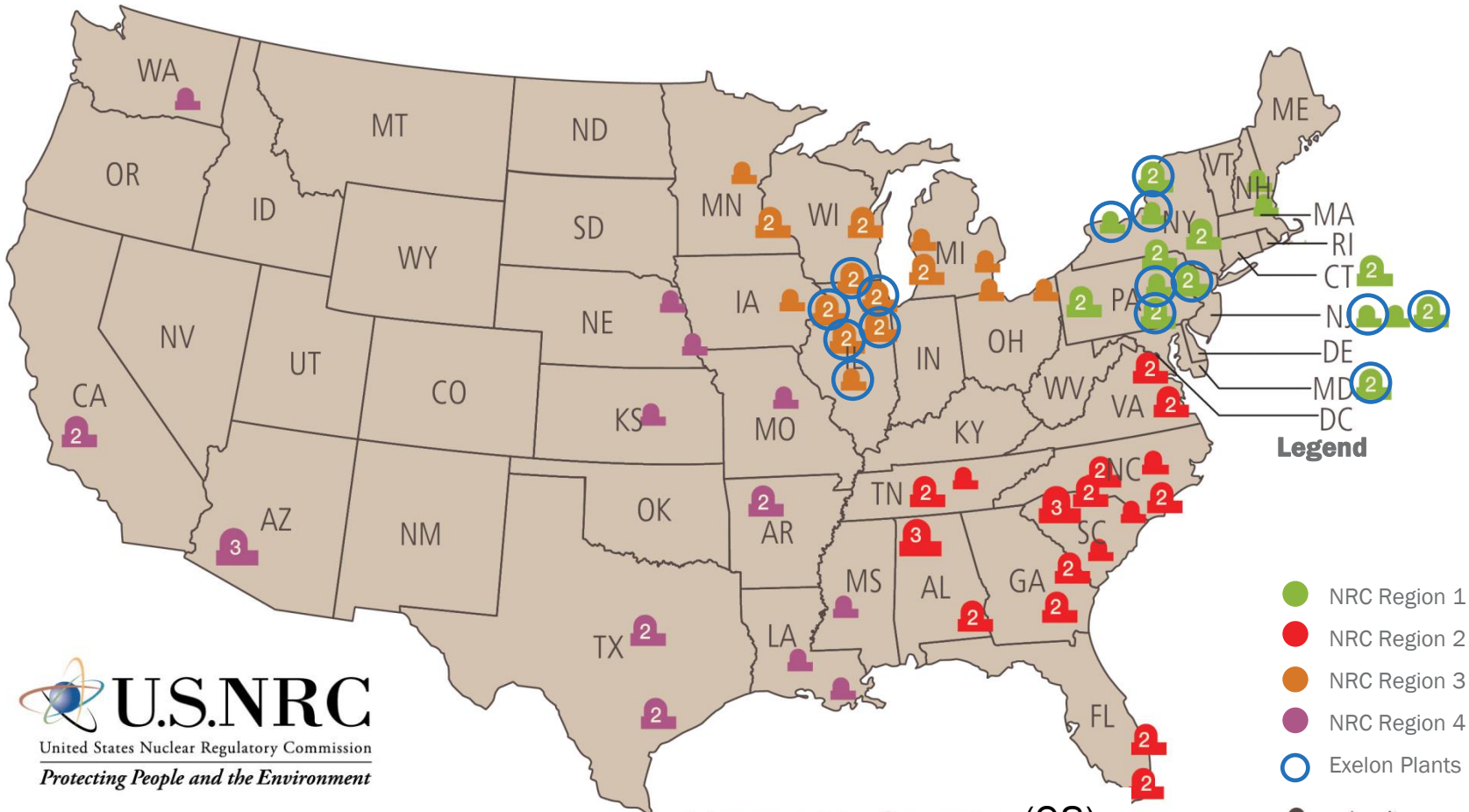
Exelon's
Constellation
business serves
residential, public
sector and
business
customers

11,470

transmission
line miles for
utilities

9.5M

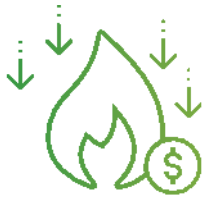
Smart meters
installed



Licensed to Operate (98)

Legend

- NRC Region 1
- NRC Region 2
- NRC Region 3
- NRC Region 4
- Exelon Plants
- = 1 units
- = 2 units
- = 3 units



Natural gas prices (which fuels marginal generators in many regions) have **dropped by more than 50%**



Load growth is down due to both the economy and increased energy efficiency programs

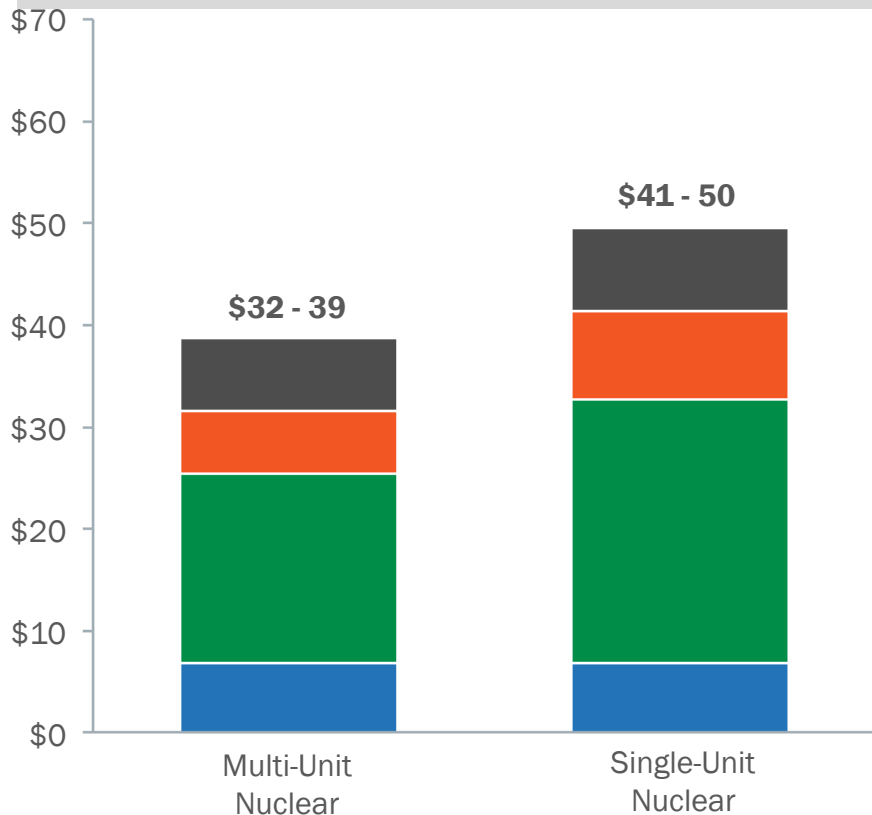


Renewables penetration has **suppressed wholesale energy prices** in some regions

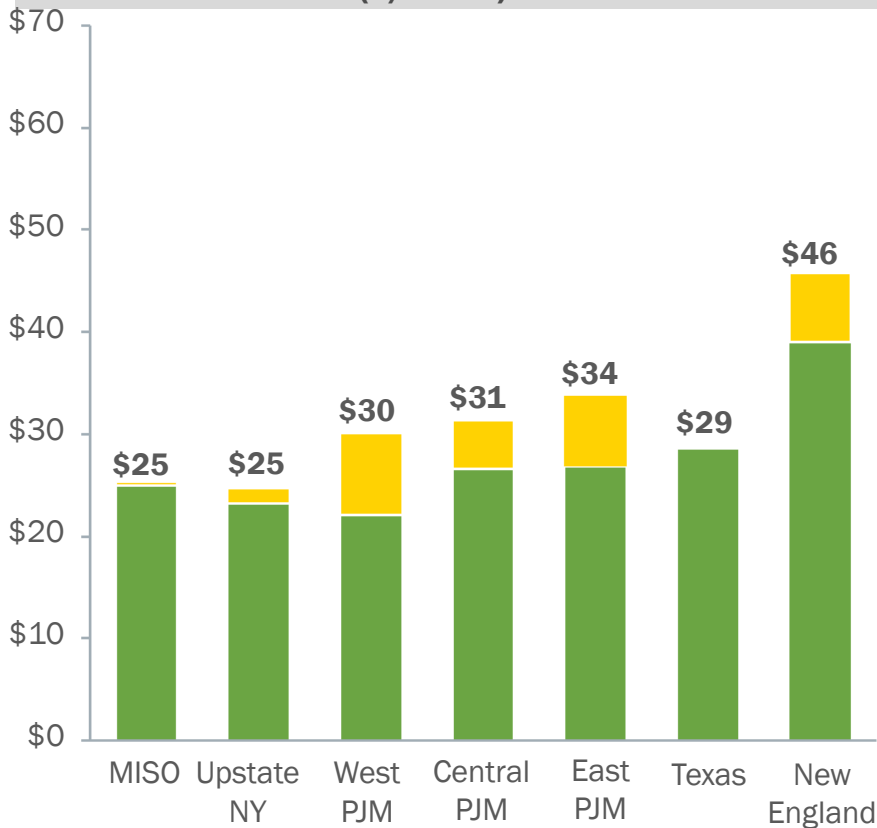


Across the U.S. nuclear fleet, **operating costs have increased** (albeit with reductions in recent years)

Average 2016 Nuclear Costs (\$/MWh)⁽¹⁾



2021 Forward All-In Nuclear Market Prices (\$/MWh)⁽³⁾



Contingency⁽²⁾
 Capital
 O&M
 Fuel

Capacity
 Energy

(1) Source: Nuclear Energy Institute, "Nuclear Costs in Context," August 2017

(2) Contingency (or risk) is calculated as 10% of total costs plus \$4/MWh

(3) Based on 6/4/2018 NYMEX forward energy prices for relevant hub less 2015-2017 average basis differential to nuclear plants



Between 2013 and 2014, **four nuclear plants that generated more electricity than all solar electricity produced in the U.S.** in 2014 were prematurely closed. Their closure resulted in the **carbon dioxide equivalent of adding three million new cars on the road.**



If all at-risk reactors close, the US will **lose the power equivalent of five times all solar power generated** in 2015, and emissions will rise, adding the carbon dioxide-equivalent of **13 million new cars on the road.**



Nuclear plants generally employ **400 – 700 workers each**, at salaries that are more than **30% higher than typical wages** in their areas.

*EnvironmentalProgress.org