



# San Diego ANS Local Section



**Craig Piercy**

Executive Director/CEO

September 16, 2020









# What We Do



# Professional Divisions

Accelerator Applications

Aerospace Nuclear Science & Technology

Decommissioning & Environmental Sciences

Education, Training & Workforce Development

Fuel Cycle & Waste Management

Fusion Energy

Human Factors, Instrumentation & Controls

Isotopes & Radiation

Materials Science & Technology

Mathematics & Computation

Nuclear Criticality Safety

Nuclear Installations Safety

Nuclear Nonproliferation Policy

Operations & Power

Radiation Protection & Shielding

Reactor Physics

Robotics & Remote Systems

Thermal Hydraulics

Young Members Group

Computational Medical Physics Working Group

Nuclear Production of Hydrogen Working Group



# Publications

*Nuclear News Magazine*

*Radwaste Solutions Magazine*

*Fusion Science & Technology Journal*

*Nuclear Science and Engineering Journal*

*Nuclear Technology Journal*

ANS Nuclear SmartBrief

Newswire

*Transactions*

Proceedings

## Newswire

Your go-to resource for all things nuclear. The Newswire includes content from all ANS publications and communication outlets, as well as daily updates from the worldwide nuclear community.

### Decommissioning effort delayed for two Fukushima Daiichi buildings

April 22, 2020, 9:57AM |  
[Nuclear News Staff](#)

Nuclear News

Power & Operations

Decommissioning work in parts of the Fukushima Daiichi plant in Japan has been delayed after engineers discovered that sandbags placed in the basements of buildings near Units 1 and 3 were found to contain excessive radiation levels. Tokyo Electric Power Company (TEPCO) operates the plant and is in charge of the decommissioning efforts following the accident caused by the earthquake and tsunami on March 11, 2011.

Expand 



## 2019 ANS Winter Meeting & Expo

November 17-21, 2019  
Washington D.C.

## Upcoming Meetings

### 2020 ANS Winter Meeting

November 16-19 | Virtual

### 2021 ANS Student Conference

April 8-10 | Raleigh, NC

### 2021 ANS Annual Meeting

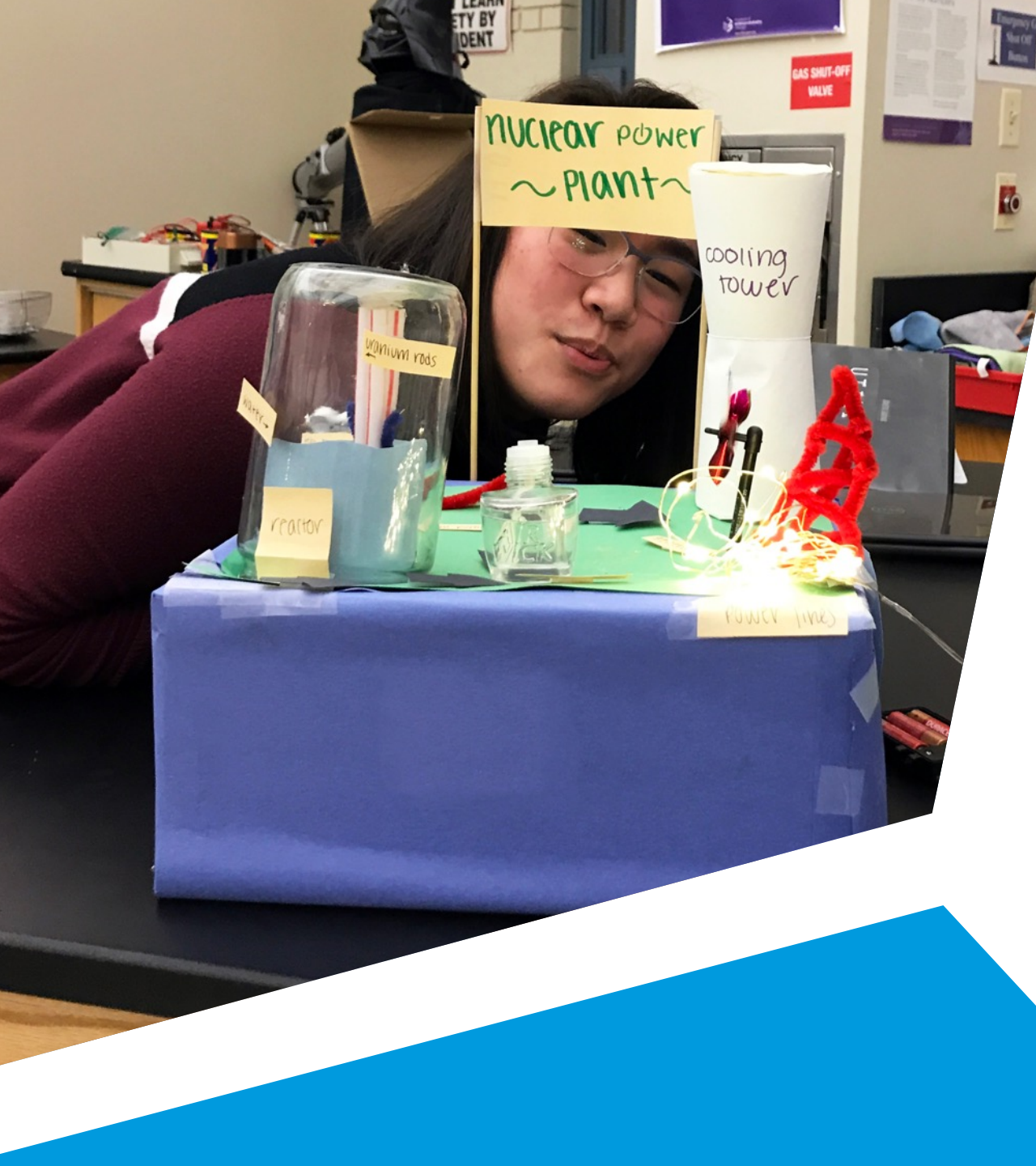
June 13-17 | Providence, RI

### 2021 ANS Winter Meeting

October 31 - November 4 | Washington, DC

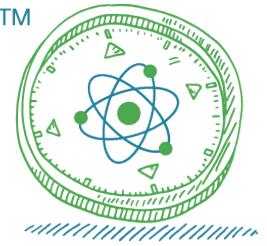
Learn more about ANS meetings and webinars at [ans.org/meetings](https://ans.org/meetings).





# NAVIGATING™ NUCLEAR

Energizing Our World



The latest standard in K-12 nuclear  
S&T education

More than 1 million K-12 students  
have participated nationwide.

Available to all at  
[navigatingnuclear.com](http://navigatingnuclear.com)



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
NUCLEAR ENERGY

# NAVIGATING™ NUCLEAR

Energizing Our World



## High School Resources

Guide your high school students through the world of nuclear energy with digital lesson plans, project starters, career resources more to power up the learning in your classroom!

Explore the vast world of nuclear science with your students to uncover the diverse applications of this field and debunk some common misconceptions about nuclear. From fission, to fusion, to "building" their own atoms, students will learn key nuclear science concepts while developing key STEM skills.

Resources: [High School Lesson Plans](#) [STEM Project Starters](#) [Career Profiles](#)

## High School Lesson Plans

Complete with an educator guide and student activity sheets, it's easy to navigate the multi-faceted world of nuclear energy in your classroom.



### Decoding Decay

Educator Lesson Plan | 45 minutes

Students will learn to use the periodic table as a tool to predict a nuclide's properties. After a quick vocabulary refresher, students will engage in an interactive "Heads Up" game, working in groups to use the periodic table to correctly guess the term shown on a card.

[Download](#)



### Fueling the Future

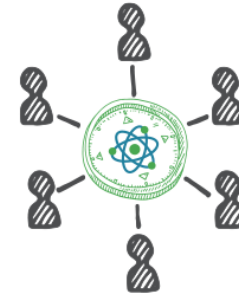
Educator Lesson Plan | 45 minutes

Students first will watch a video explaining fission and fusion. Then, students will apply their knowledge of fission and fusion to engage in a kinesthetic activity.

# What is Navigating Nuclear?

- K-12 nuclear energy and science curriculum
- Lessons, STEM projects, careers
- Virtual Field Trips
- Fact-based
- Free, globally available
- Support from DOE
- [navigatingnuclear.com](http://navigatingnuclear.com)





**1.2 million**  
students reached



**117,600**  
site visits since launch in 2018



**43,800**  
combined views of the  
Navigating Nuclear virtual field trips

# **Scientific and Engineering Voices Need to Be Heard**





# ANS Local Sections

# ANS Bylaws

## B9.2 – Objectives

“(a) The objective of each Local Section shall be to further the mission and goals of the Society in its locality.”



## **New in 2020!**

### **Local Section membership included with ANS membership**

Every national member now has the opportunity to join a Local Section (or Student Section) when they join or renew their membership. Local Sections will receive a 5% allocation of dues revenue for every member.

### **Establishment of the Local/Student Section Challenge Fund**

A \$25 voluntary check off box is now included on renewal forms, allowing members to contribute to a fund that will assist Local and Student Sections.

## **New in 2020!**

For a limited time, first-time members can use the following discount codes to join ANS for significantly discounted rates:

### **Established Members (age 36 and over)**


Join for \$75 (\$170 value) with code: 95LSDIEGO

### **Young Members (age 35 and under)**

Join for \$50 (\$125 value) with code: 75LSDIEGO

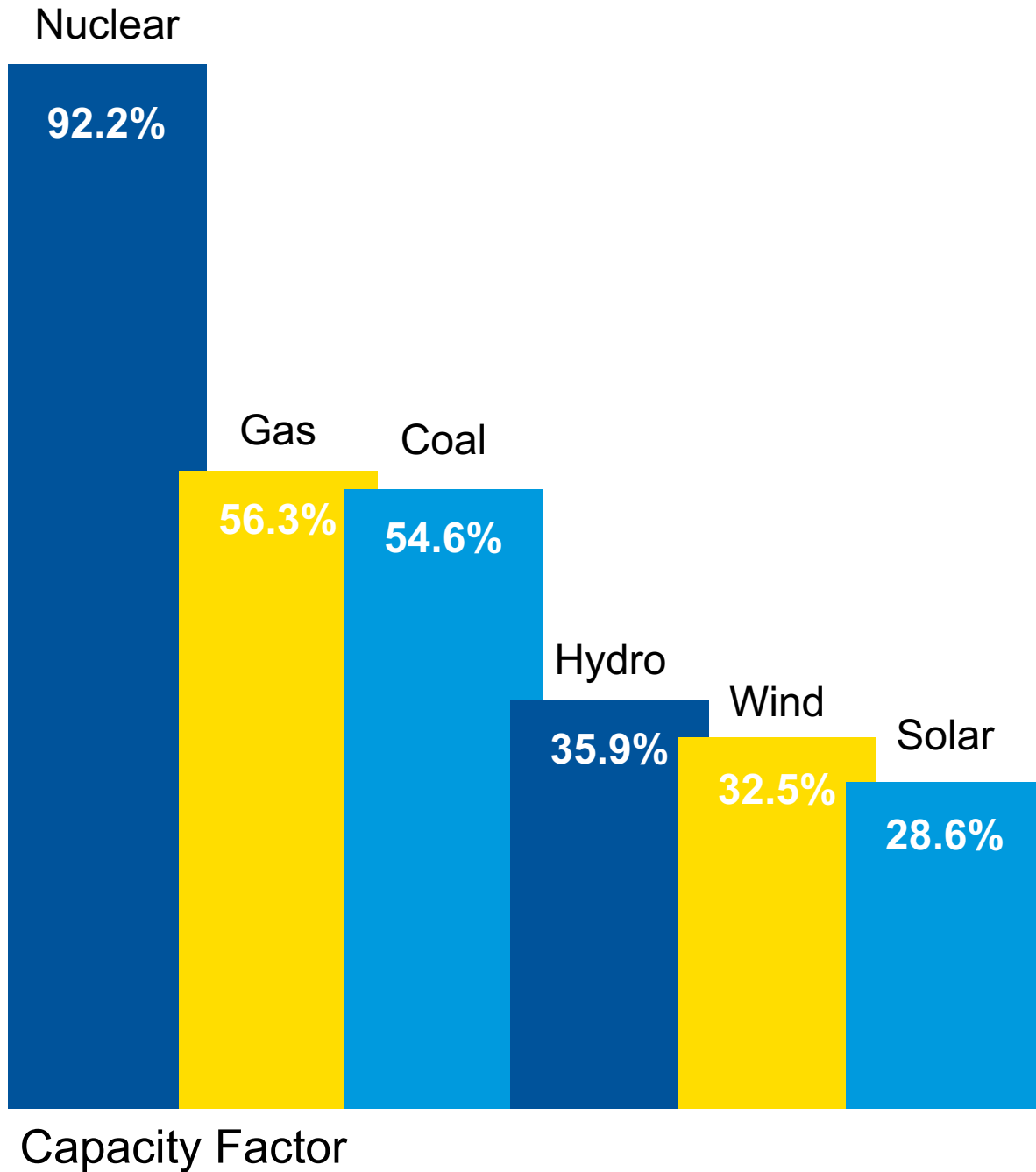
Join today at [\*\*ans.org/join\*\*](https://ans.org/join)





**Whats happening  
with nuclear?**

# Always-On







Wind and solar  
can get us down  
the field...

...but not into the  
endzone.

**More Fortune 500 companies are making carbon neutrality commitments.**



Alphabet

amazon



BANK OF AMERICA 

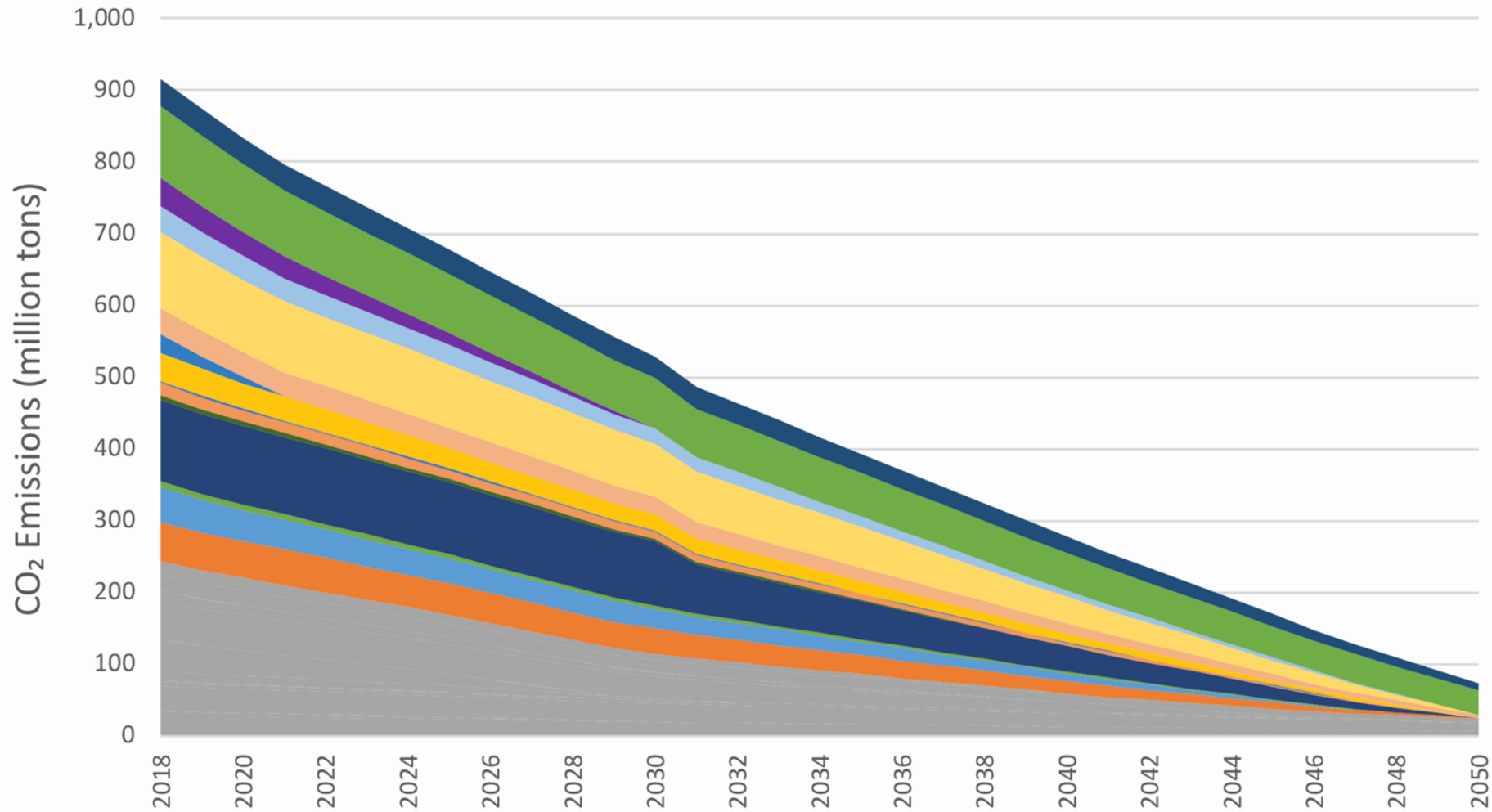
IBM



Walmart 

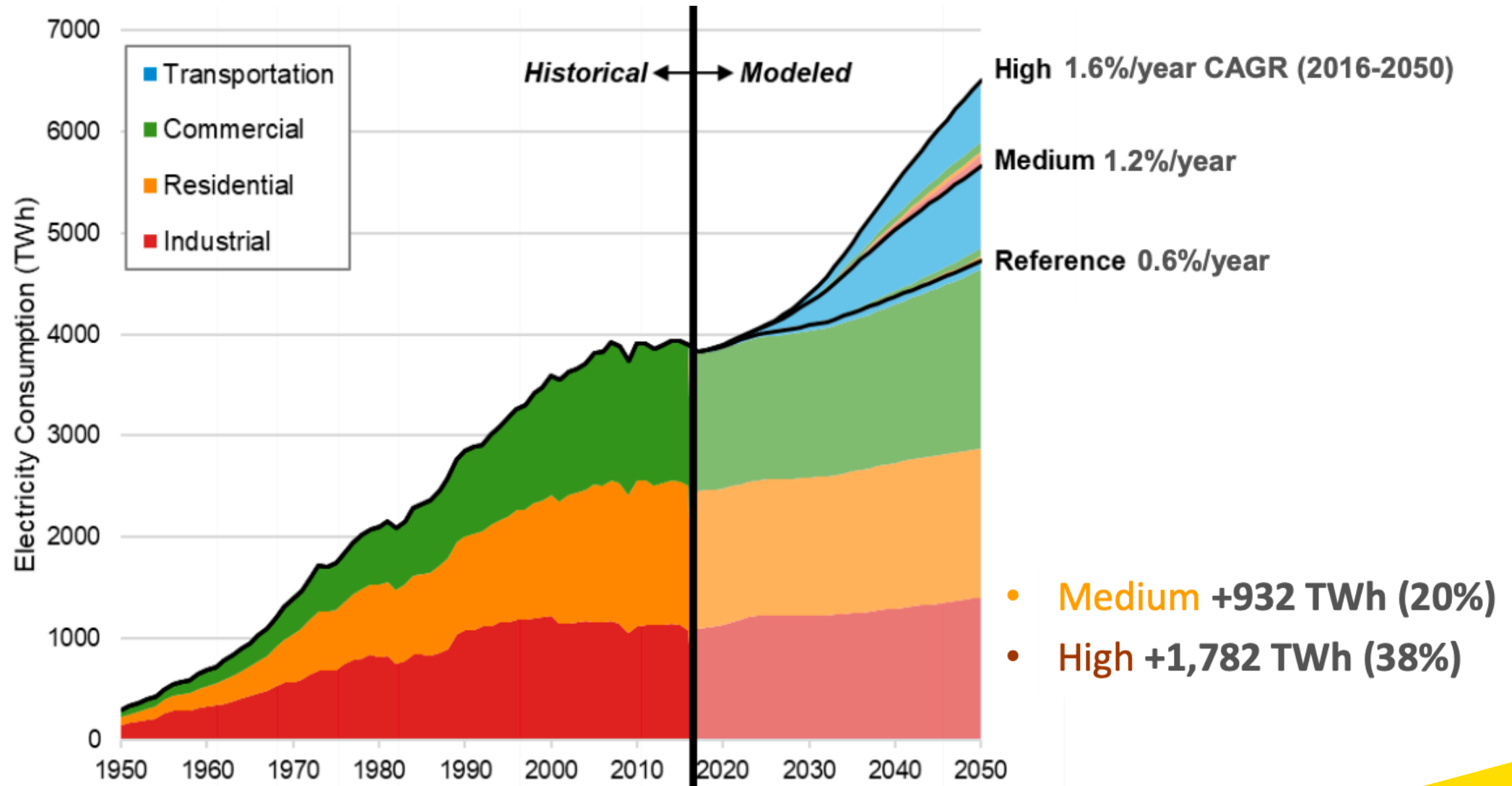


# U.S. utilities committed to decarbonizing



Source: NEI ABB Velocity Suite, U.S. Environmental Protection Agency, Utility press releases

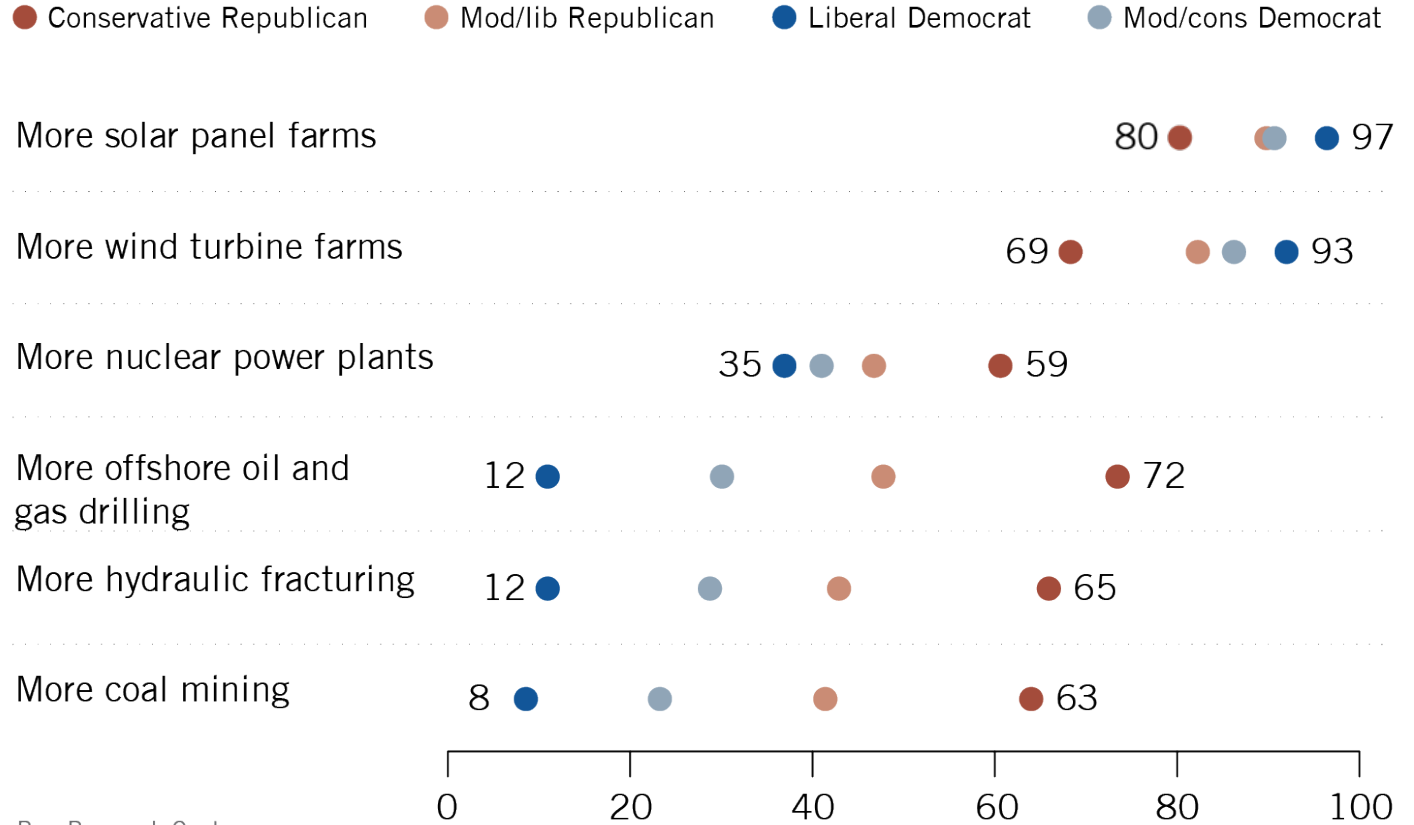
# EVs could be a gamechanger for US Grid



# Nuclear.

# The grand compromise?

*% of U.S. adults who say they favor each energy source*



Pew Research Center





**Energy Security?**

# Height Perspective of Exposure Levels

Thickness of a Single Sheet of Paper



Live within 50 miles of Nuclear Power Plant (After 1 year of Exposure)

A Nickel



Dental X-Ray

Venti Starbucks Cup



EPA Drinking Water

Average Sized Pomeranian



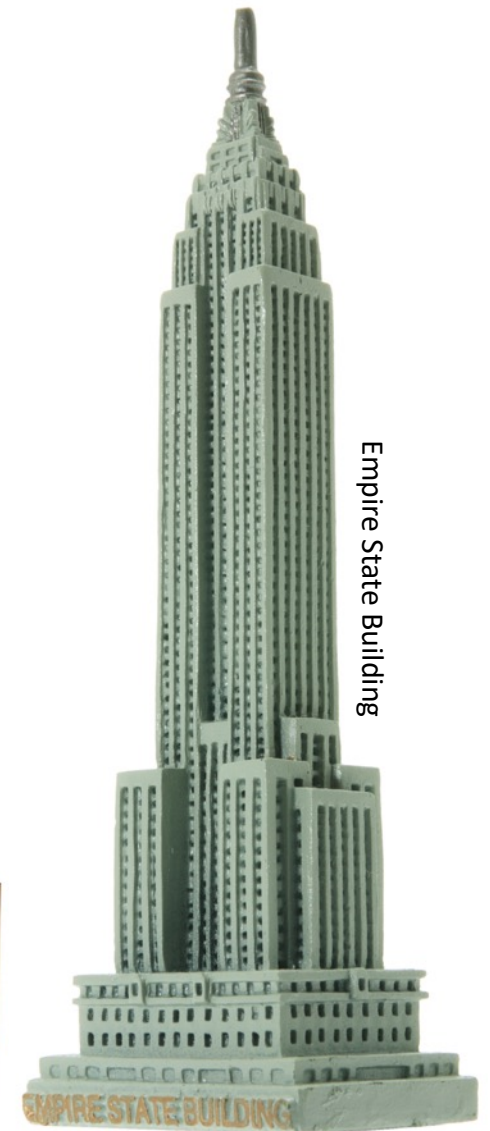
Flight from JFK to Fiji

Medium Packing Box



Chest X-Ray

Empire State Building



Statistically Zero Exposure



# Reframe Risk + Reward





# One Billion



**People Globally Lack Access to Electricity**

**Only Nuclear Can Deliver Zero Carbon  
Energy at this Scale**

# Thank you!

