Don't get yourself stuck on an island - working together & being prepared!

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LABOR AND MANAGEMENT PUBLIC AFFAIRS COMMITTEE

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2023 SPRING CONFERENCE

HONOLULU, HAWAII, MARCH 20–22, 2023

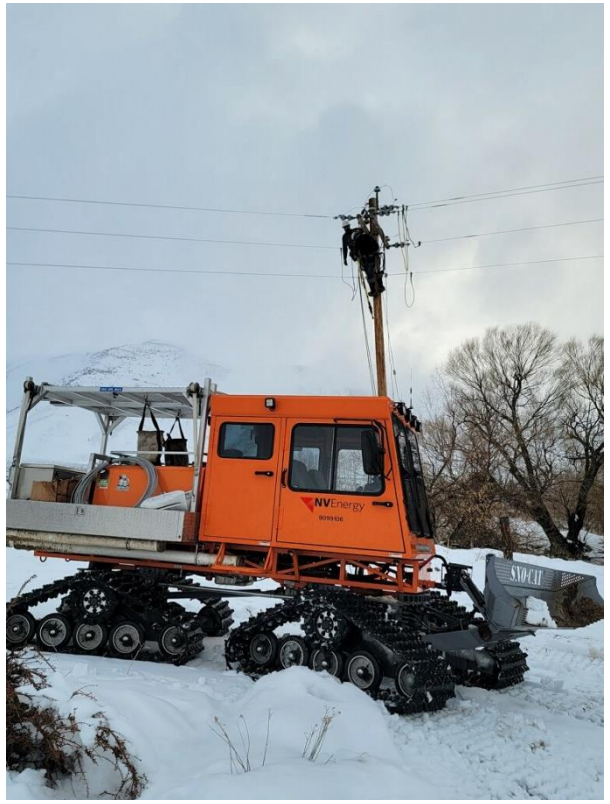
Historic New Year's Eve Storm

What Happened?

- Sierra cement/frigid temperatures
- 1,400 unique outages; 123,000 customers impacted
- The third wettest day in Reno in the last 130 years

NV Energy's Response:

- Leveraged framework from Natural Disaster Protection Plan
- Mutual assistance from Elko, Winnemucca, Las Vegas, California and Oregon
- Transparent communication
- Support for the community



Transparent Communication

Media Relations

- Press Releases and multiple interviews with CEO and VP of Electric Delivery

Social Media

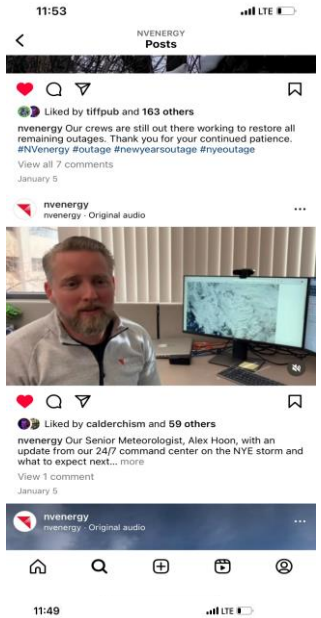
- 3-5 daily posts with regular updates
- Featured crews and experts

Customer Communications

- Personal Calls
- Email updates and apology
- Website updates

Paid Media

- Acknowledged storm and apologized for disruption in Service with a full page ad.



NEWS

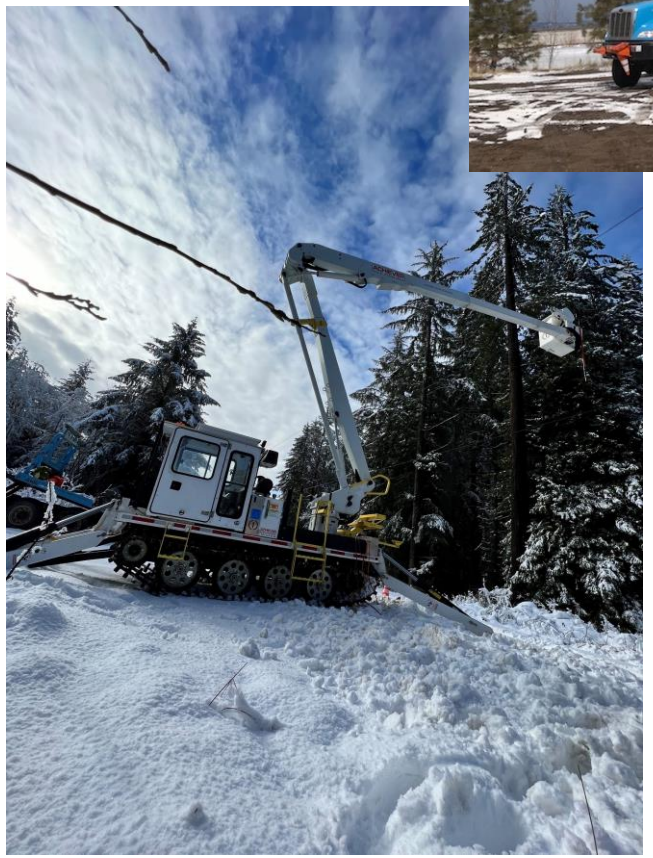
NV Energy CEO: Extra crews are ready for what may come this weekend

NV Energy CEO says equipment was working exactly as it is designed to work and protected the rest of the electric system

Siobhan McAndrew
Reno Gazette Journal

Published 10:41 a.m. PT Jan. 5, 2023 | Updated 1:32 p.m. PT Jan. 5, 2023

PG&E Storm Response



PG&E Storm Response

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VETERANS ELECTRICAL ENTRY PROGRAM

VEEP

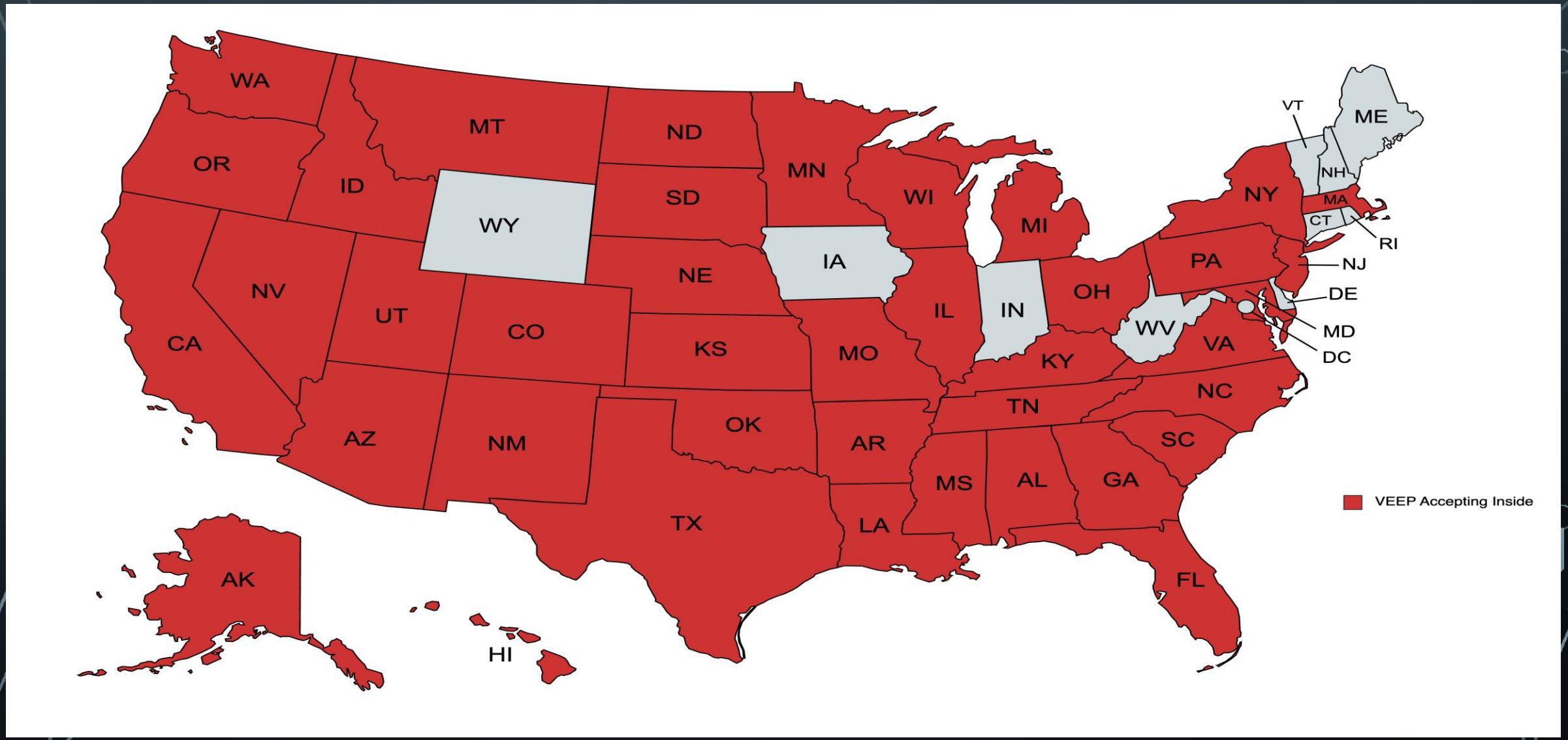
WHAT IS VEEP?

- Transition program for military service personnel or their spouses in the last 180 days of their active-duty service.
- Pre-apprenticeship developed by the Electrical Training Alliance and started with Inside Wireman training. Expanded to the Outside Branch.
- Learn and start second career while still on active-duty.
- Upon graduation placed at one of over 270 participating JATCs in the country that they choose.
- Fully funded and paid for by sponsor Milwaukee Tool.

9th District - VETERAN SPECIFICS

- 68 military bases throughout states in the 9th District.
- High percentage of veterans in these states.
- Veteran hire is highly promoted on many projects and jobs.
- High number of work opportunities currently in all the trades the IBEW and our employer partners represent.
- VEEP rollout in Alaska gave Local 1547 the opportunity to expand veteran outreach and strengthen relationships with employers and military command.

States where VEEP candidates have been placed or where cohorts have been held. 270 JATCs in U.S.



VEEP Graduates – 117 Inside Program and 112 Outside graduates. SELCAT and MoValley starting Outside Classes.

VEEP Accepting - Results

Inside – In-Person
AK01 – 10
AK02 – 14
AK03 – 11
AK04 – 7
AK05 – 11
SD01 – 9

Inside – etA support– 33

San Bernardino/ Riverside – 10

Inside – Hybrid LA01-12

Outside – In-Person

LQ – 112 Grads

DEMOGRAPHICS

- Approximately 200,000 veterans transition out of the military every year https://www.gao.gov/products/GAO-19-438R
- 88% Veterans who go to college after transition drop out. https://www.huffpost.com/entry/veterans-college-drop-out_n_2016926
- There are approximately 18.8 million Veterans in the United States. Making up almost 8% of the population.
  - California, Texas, and Florida each have over 1million Veterans
  - Dunbars number for individual relationships is 150, if you use a more conservative number of 5 close personal friends, Veterans can directly affect approximately 94 million Americans. 28.6% of America's population.
  - https://www.ncsl.org/blog/2017/11/10/veterans-by-the-numbers.aspx

UNDERSTANDING VETERANS

- Veterans are exposed to situations on deployments and in training that most people cannot relate to.
- Military experiences cause Veterans to be wired a little different than most. It is important that we recognize this in our conversations and emphasize where we relate as an organization.
- Veterans place a strong emphasis on:
  - Brotherhood- They were willing to die for the person next to them and carry that mentality with them forever.
  - Respect- They do not expect to be treated special, but do expect to be treated with respect, and in turn will be respectful.
  - Chain of Command- They respect a chain of command but are also more likely to ask the question “why?”

UNDERSTANDING VETERANS

- Veterans face many issues with transitioning to civilian life
  - Unemployment
  - Underemployment
  - Feeling isolated
  - Depression
  - Post Traumatic Stress
- These issues lead to 17-22 Veterans losing the war within EVERY DAY, the Veteran community saw a 20% increase during COVID
- From 2005-2017 we lost 78,875 Veterans to suicide compared to 6,768 lives lost in Iraq and Afghanistan since initial occupation. https://fas.org/sgp/crs/natsec/RL32492.pdf
- Union membership and union careers can help alleviate the stresses that contribute to this epidemic.

REASONS WE ARE THE SOLUTION

- Mission and Purpose
  - Our programs present transitioning veterans with a new mission: To have a successful career as civilians
  - Our careers represent a new purpose: to be the best craftsmen in their industry and support fellow veterans
- We are the answer to:
  - “What do I do now?”
  - “How do I provide for my family?”
  - “What is my purpose? Where do I belong?”

Helping Light the Path to the Middle Class for Veterans and Their Families

WHAT IS VIPER TRANSITIONS?

VIPER Transitions is:

- A registered non-profit, EIN 825454885
- A Department of Defense Skillbridge Partner
- A Veteran Advocate

VIPER Transitions' Mission

The mission of VIPER Transitions is to end veteran suicides through the elimination of veteran unemployment, underemployment, substance abuse, homelessness, and the restructuring of a support system.

VIPER Transitions' Focus

VIPER Transitions has three primary areas of focus:

1. Career counseling
2. Training and Placement
3. Support Services

How VIPER Transitions Works

Employers and VIPER Transitions

VIPER Transitions understands the value of trained workers to companies, and their need to attract new talent.

- We design programs to fill positions inside our partnered companies.
  - Examples: Municipality of Anchorage, PacifiCorp, Chugach Electric Association
- We work with the employer to create a system that fits their needs.
- We work with employers, to make it possible for Transitioning Service Members, Veterans, and Military Spouses to obtain the skills they need to be gainfully employed.
- These programs can be; training classes, internships, or combinations of the two.

8 Steps on the Path

1. Introduction to VIPER:
   - Participants are introduced from many sources; DOL ENPP, TAP, H2H, referrals.
2. Career counseling:
   - Participants are counseled on available positions and career options.
3. Skills assessment:
   - Participants skillsets are identified and aptitude for open positions are assessed.
4. Career selection:
   - After Counseling and Assessment, the Participant decides on the position/opportunity they are most interested in.
5. Connection to mentor/resources:
   - With selection complete, Participants are connected with a mentor in their selected career field, ideally at the same company in the same shop/area. This gives them a chance to ask questions to someone doing the job, and they can re-evaluate their choice if it doesn't seem like the right fit.
   - Participants are also connected to resources in the area they will be moving to (VA, VSO, etc)
6. Training:
   - Participants attend training, ideally during the last six months they are in the Military
7. Employment:
   - In order to be efficient, employers are required to hire the Participant who SUCCESSFULLY completes the training. This allows VIPER to not waste its time, the Participant do not waste their time, and the Employer has already agreed to the system in place so there should be no issues.
8. Reclassification:
   - If a participant goes through the previous 7 steps and then finds that the position/career they selected is not right for them, we will restart the process at number 2

Origin of VIPER Transitions

VIPER Transitions is rooted in the IBEW.

- VIPER was founded by IBEW Local 1547's Lead Organizer, Kyle Kaiser.
- Kyle is an OIF/OEF, US Army Veteran, who served as an Airborne Infantryman, and a Sniper.
- He entered the Apprenticeship in 2011, and is an IBEW Journeyman Wireman.
- As a member, Kyle recognized the value of the IBEW to veterans.
- As an Organizer, he recognized the value of veterans to the IBEW.

Grow our IBEW / Employer Partnerships with VIPER Transitions

VIPER Transitions presents solutions to key issues affecting the IBEW and our Employer partners

- Available workforce – largely untapped
- Provide applicants with desired skillsets
- Support and guidance in the process

Light the Path

Available Manpower:

- 200,000 Transitioning Service Members annually
- Increase the number of qualified entry-level employees
- Attract veterans working in the Electrical Industry

Membership Growth:

- New employees at signatory companies = more members

Right to Work/Janus:

- Pairing VIPER Participants with Mentors in our Local Unions, especially the Veterans Committees, increases contact time
- VIPER Participants will be personally connected to their future coworkers well before being hired, giving the IBEW a chance to show them Brotherhood
- Personal connections and increased contact time, will make membership something that is desired, not required

Thank you for your attention.

God Bless Our Veterans,
God Bless Our Union,
God Bless the United States of America

For more information please contact:
Kyle Kaiser
kyle_kaiser@vipertransitions.org
or
kkaiser@ibew1547.org
(907)250-1162

Not every Veteran who goes through our program is in crisis,

But,

Every person we bring in potentially prevents one.

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San-Francisco.mfa.gov.ua

Thank You!

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HONOLULU, HAWAII, MARCH 20–22, 2023

Western LAMPAC Spring Conference
March 21, 2023
Energy and Political Update

Jonathan Weisgall

Vice President, Government Relations
Berkshire Hathaway Energy

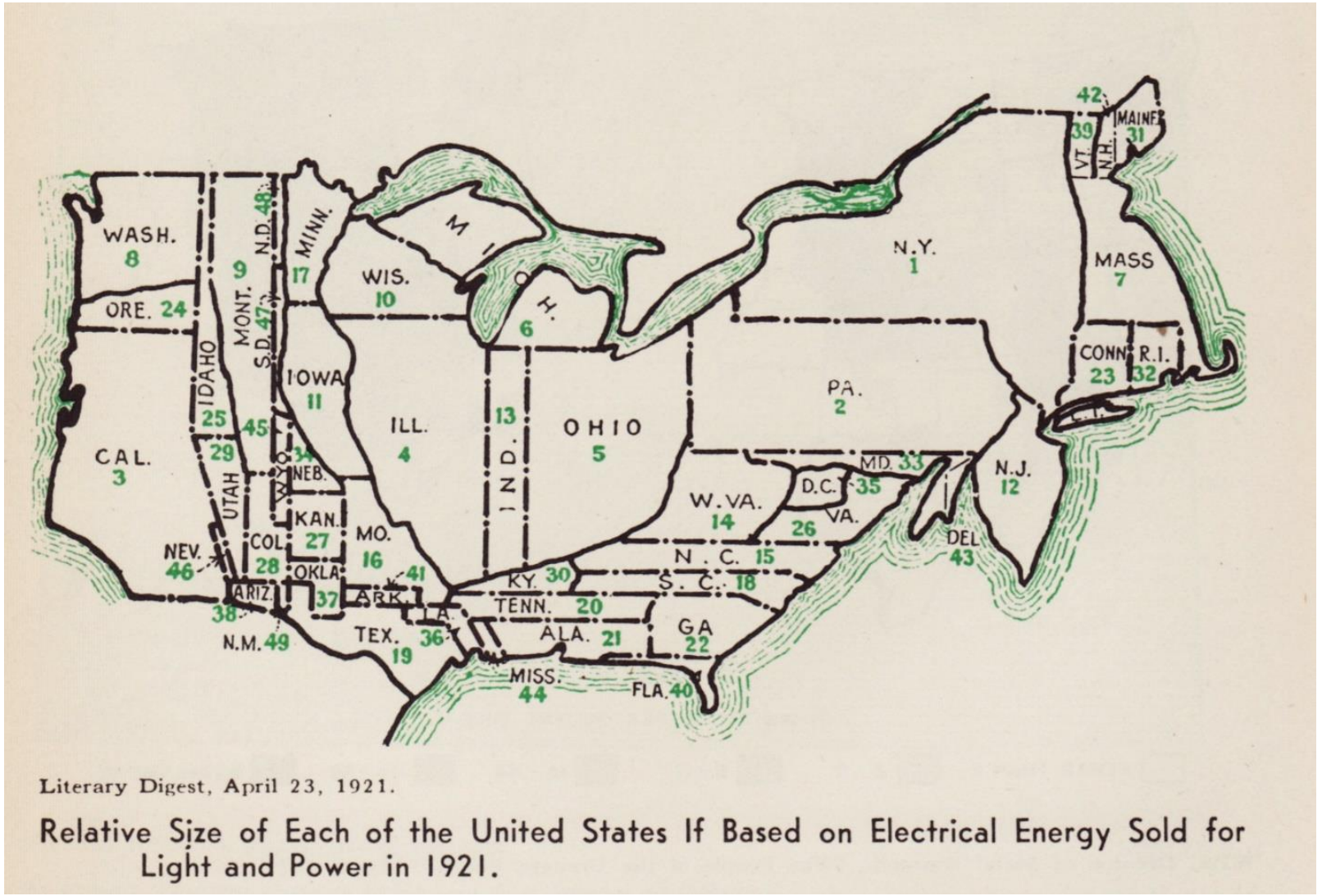
Topics

- Can government help? Should it?
- Industrial policy legislation
- Energy trends
- Any major legislation in this Congress?
- Thinking of 2024 elections yet?

Can government help?

- President Reagan inaugural 1981: “Government is not the solution to our problem; government is the problem”
- President Reagan in 1986: “The nine most terrifying words in the English language are: I’m from the government, and I’m here to help”

Can government help? (cont'd)



Literary Digest, April 23, 1921.

Relative Size of Each of the United States If Based on Electrical Energy Sold for Light and Power in 1921.

Rural Electrification Act of 1936

- Created with the express purpose of bringing electricity to farms
- Federal loans and funding channeled through newly-crated rural cooperative electric power companies, most of which still exist today
  - Coops purchased power on a wholesale basis and distributed it using their own network of transmission and distribution lines
- By 1950, almost 80% of U.S. farms had power

Should government intervene?

- 1980's-2016: Let the market work its magic — with low taxes and light regulation
- No longer (e.g., Trump tariffs)
- DeSantis 2017: "If you want government to exercise a power that you like right now, someone else can come in and exercise that power in a way you don't like. Why don't we just deny government the power to do it to begin with, and let the America people … make their own choices?"
- Gov. DeSantis 2021-22:
  - Punished cruise ship operators for Covid vaccination requirements
  - Punished Disney for "woke" ideology
  - Fines on social media companies that de-platform political candidates
- Left and right are increasingly willing to use government power to direct business activities

Industrial Policy

- Explicit use of government power to promote specific industries and intervene in markets.
- Rare in Washington – socialism? Un-American?
  - Do governments know better than markets which technologies will succeed?
  - “Most likely to succeed with a well-defined objective (Apollo Program, Manhattan Project, transcontinental railroad) or “induced demand” (Covid vaccine, semiconductors)
  - Should not burden the effort with extraneous objectives
- Why now?
  - Geopolitical competition
  - Supply shortages
  - Transition to zero carbon energy

Example: CHIPS Act

- Passed Senate 64-33 July 2022
- $67 billion in DOE funding to boost domestic semiconductor chip manufacturing
- Industry's unique character
  - Vital to civilian and military technology
  - >90% of manufacturing has moved to China, South Korea, and Taiwan
  - U.S. dependent on one potentially hostile and two geopolitically vulnerable countries
- Follow-on announcements from Micron, Qualcomm, Wolfspeed

CHIPS Act - BUT

- Other social goals in CHIPS
- Funding recipients must:
  - Pay union-scale wages for construction and, preferably use unionized labor
  - Not enter into joint ventures or licensing agreements in China
  - Provide affordable childcare for facility and construction workers
  - Share windfall profits with the federal government
  - Not use federal subsidies to pay dividends or buy back stock
- Will this mission creep undermine success?

Bipartisan Infrastructure Bill

- Infrastructure Investment and Jobs Act
- $550 billion in new spending; largest long-term investment in U.S. infrastructure in nearly a century
- Once in a generation bill?
- Grid resilience and longevity: $12 billion
- Clean energy demonstrations:
  - $8 billion for clean hydrogen
  - $10 billion for CCUS, direct air capture, and industrial emission reductions
  - $3.2 billion for advanced nuclear/SMRs and $1.2billion for existing nuclear (help nuclear plants at risk of closing prematurely)
- Manufacturing:
  - Invests > $7 billion in battery supply chain
  - $750 million for clean energy manufacturing and recycling
  - Buy America provisions to build infrastructure projects with American iron, steel, and construction materials

Bipartisan Infrastructure Bill (cont'd)

- $3.5 billion for low-income home weatherization
- $500 million for state energy offices
- $550 million for local energy efficiency and conservation grants
- Not just energy
- Transportation:
  - $42 billion to strengthen ports, airports, and rail
  - $110 billion for roads and bridges
  - $7.5 billion in EV charging infrastructure
- Broadband: $42.45b for reliable high-speed internet
- High quality jobs
  - Expected to create nearly half a million manufacturing jobs
  - >80% of funding requires prevailing wage provisions
  - ~75% of jobs do not require an advanced degree

Inflation Reduction Act

- August 2022; largest clean energy investment in American history
- 10 years of tax certainty and support
- Focus on
  - Domestic job creation
  - Strong incentives for prevailing wages and apprenticeships
  - Investment in underserved communities
- Expected to reduce GHG pollution to ~40% below 2005 levels by 2030

Inflation Reduction Act (cont'd)

- Expenditures: $437 billion over 10 years
  - Energy security and climate change: $369 billion
  - Affordable Care Act Extension: $64 billion
  - Western drought resiliency: $4 billion
- Revenue raised: $737 billion over 10 years
  - 15% corporate minimum tax on book income for companies earning more than $1 billion per year
  - Prescription drug pricing reform
  - Revenue from increased IRS tax enforcement
  - 1% excise tax fee on corporate stock buybacks
- Total deficit reduction: $300 billion

Inflation Reduction Act (cont'd)

- Extends wind, geothermal, and solar ITC/PTC through 2032
- New credits for energy storage, clean hydrogen, microgrids, existing nuclear
- For full 30% ITC / 1.5 cent PTC, must meet prevailing wage and apprenticeship requirements (otherwise 6% or .3 cents)
- Bonus credits:
  - 10% bonus if located in a low-income community or on tribal land
  - 10% bonus for meeting domestic content requirements
  - 20% bonus for projects on certain multi-tenant buildings

Inflation Reduction Act – EVs

- Make EVs more affordable and freeze China out of supply chain
- Credit of $7,500 for new cars through 2032, but . . .
- Income limits
- Price caps: $80,000 for SUVs, pickup trucks and vans; $55,000 for sedans
- By 2024, >50% of battery components from US, Canada, Mexico; 100% by 2028
- 40% of critical minerals in battery from US, free-trade country or North American recycling facility; 80% by 2026
- Lifts cap of 200,000 cars per company
- Vehicles must be assembled in the US
- $4,000 for sales of used EVs – plus income limits

Energy trends

Energy trends and challenges

- Cybersecurity and physical threats
- Integrating intermittent resources into the grid
- Centralized power vs. customer-generated power
- Subsidize uneconomic power plants?
- No direct price on carbon
- Is gas the next coal?
- State mandates for 100% zero carbon electricity
  - 2030: RI
  - 2040: CT, NY,
  - 2045: CA, HI, NM, VI, WA
  - 2050: CO, ME, NV, NJ, WI

Energy trends (cont'd)

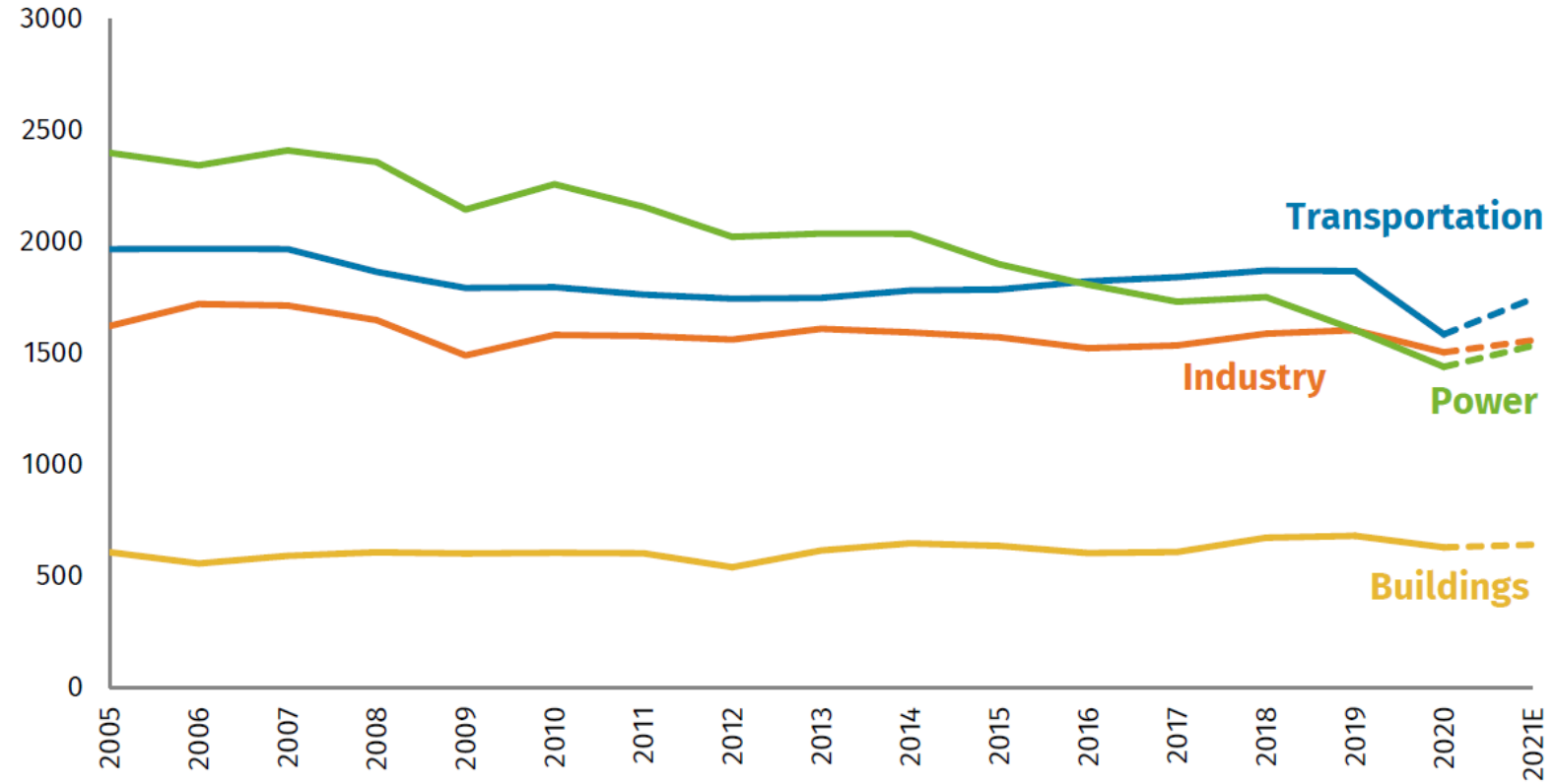
- Other state/local mandates
  - RPS
  - Bans on gas hookups
  - EV-only sales of cars by 2035; some by 2030 + EV credits
- Customer/corporate demands/commitments to achieve net zero
- Enhanced investor risk reporting: ESG disclosure requirements
- Intermittency of renewables and need for storage
- All causing:
  - Shift to low carbon and renewable energy/fuels
  - Electrification of everything (transportation, heating)
  - Impact on customer costs?
  - Impact on reliability and resilience?
  - Impact on 85,000 fossil fuel workers?

GHG Emissions by Sector 2005-2021

FIGURE 1

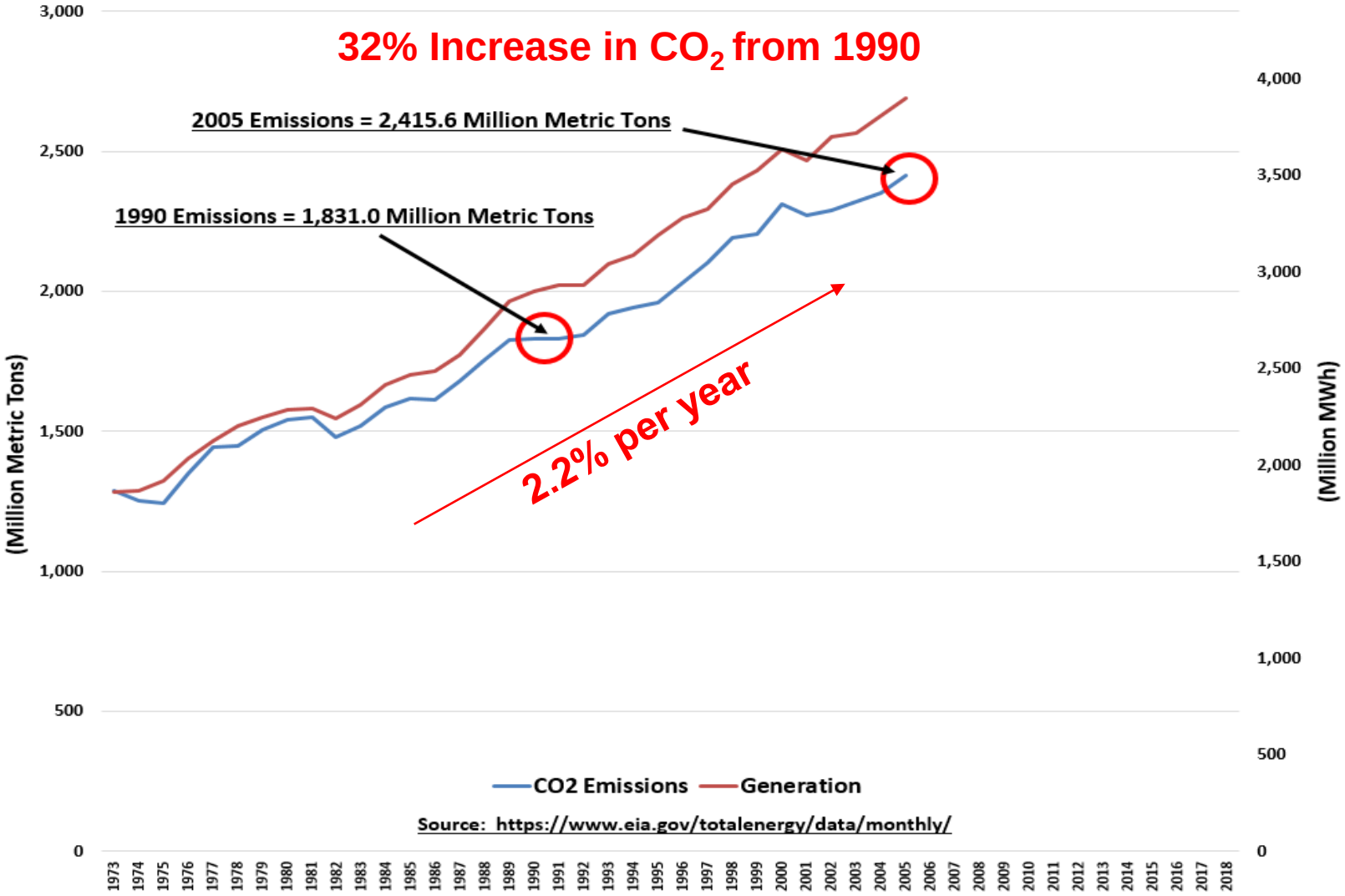
US GHG emissions by major emitting sector

Million metric tons CO2e, IPCC definitions, excludes international bunkers

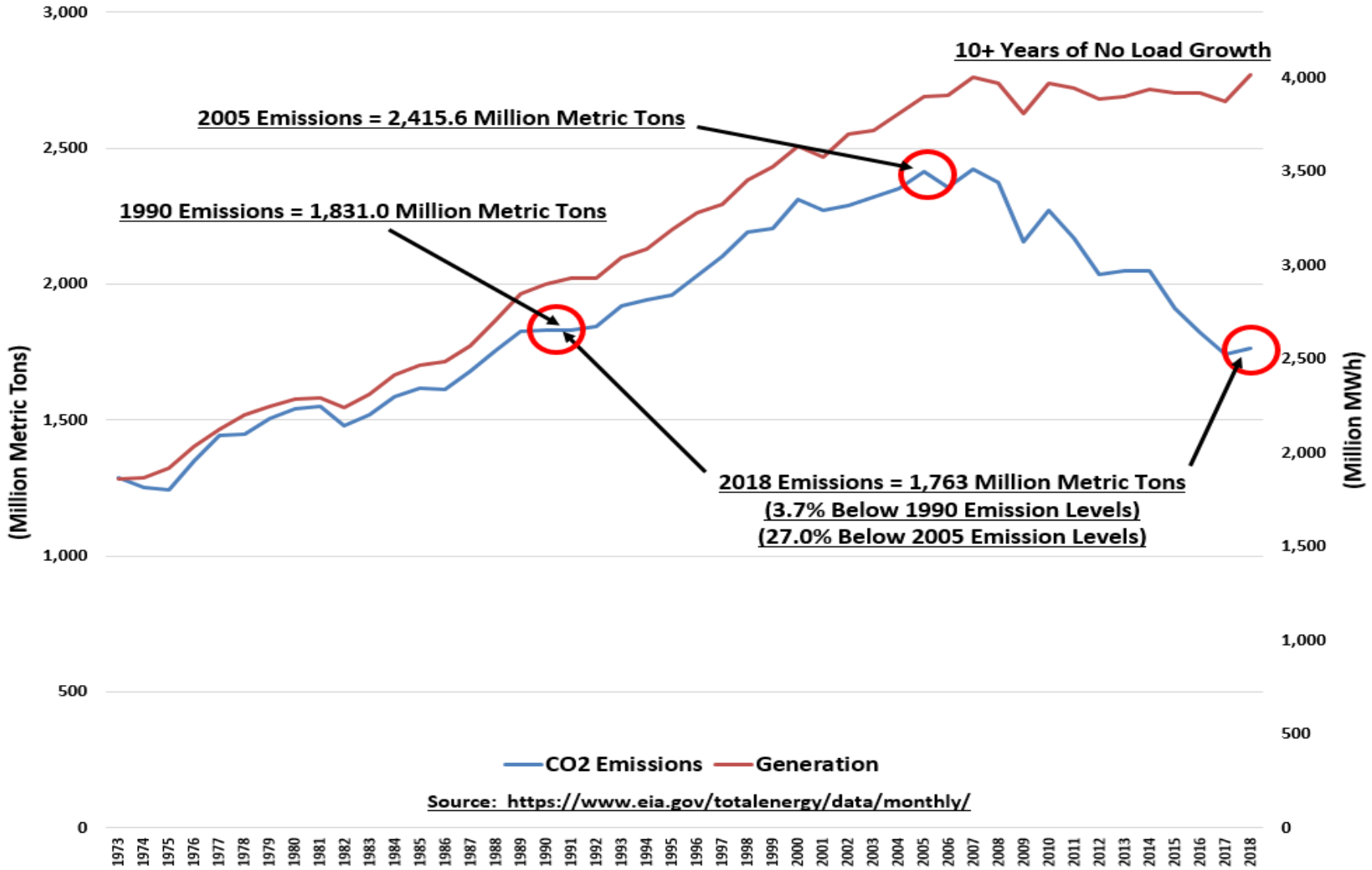


Source: Rhodium Group

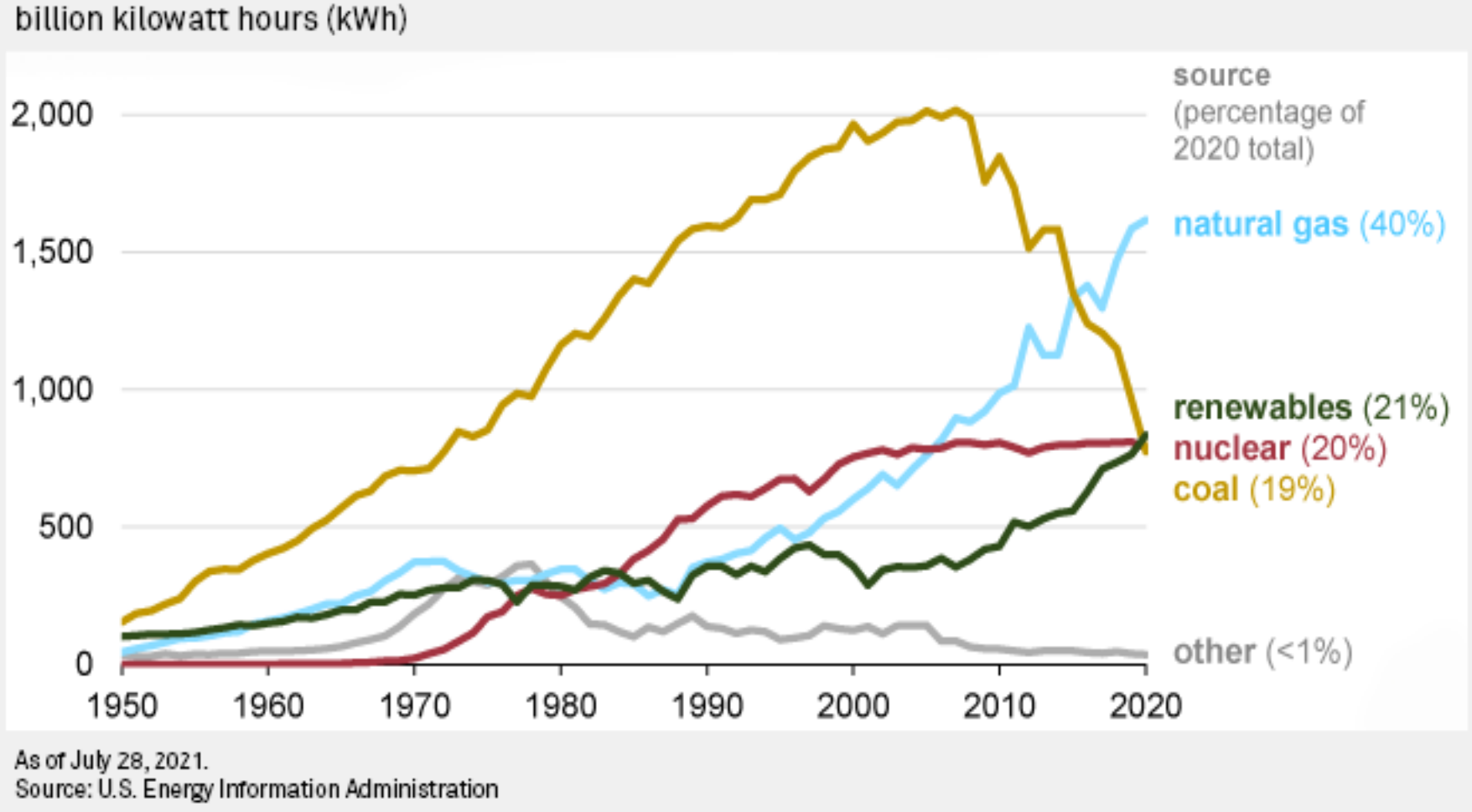
Electricity Generation and CO_2 Emissions



Electric Generation and CO_2 Emissions

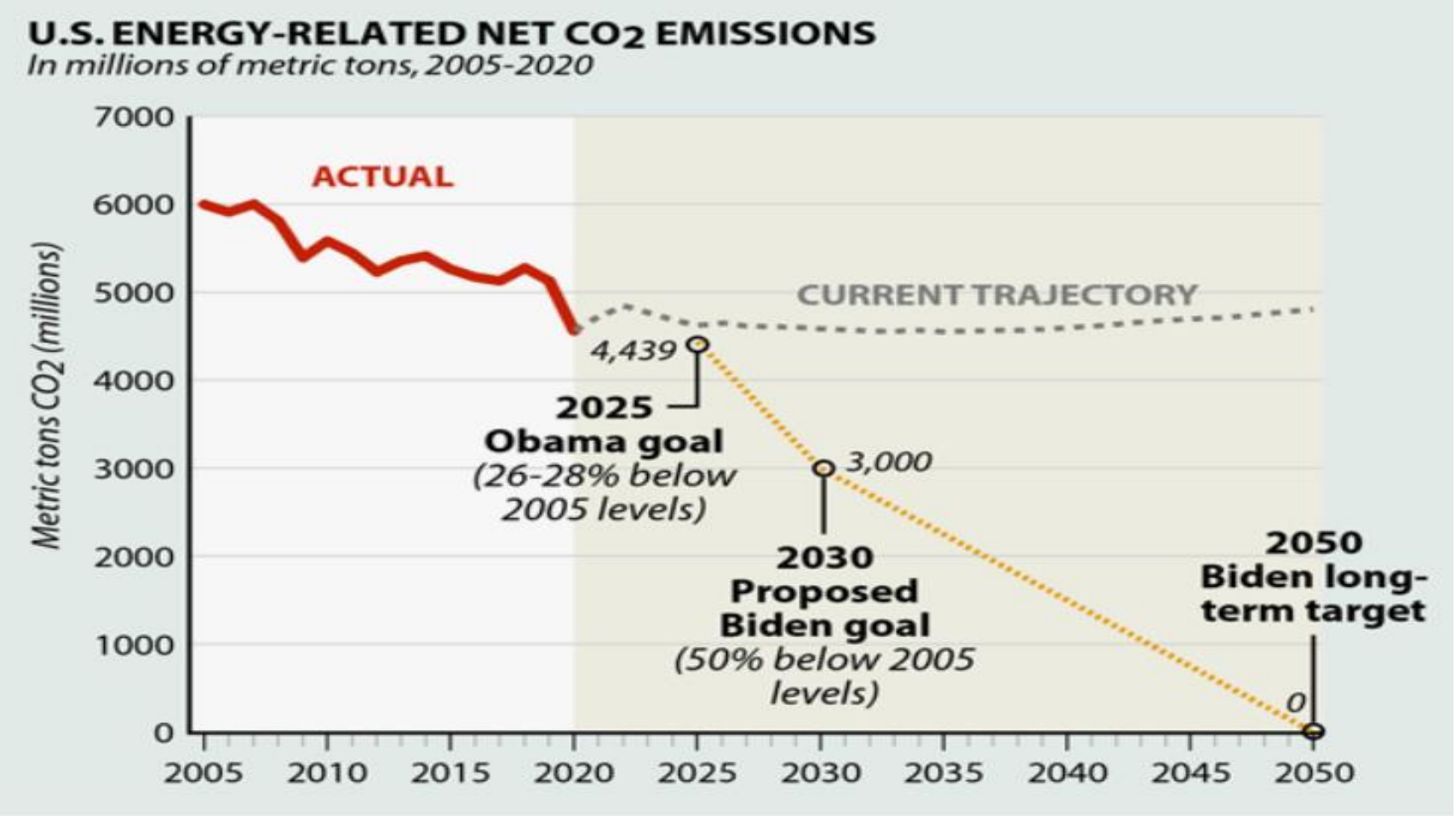


U.S. Electricity Generation 1950-2020



As of July 28, 2021.
Source: U.S. Energy Information Administration

The Challenge



Can we get to net zero?

- Bloomberg and Princeton University studies – by 2050:
  - Land size = four South Dakotas
  - $2.5 trillion in clean energy investments
  - 50 million EVs
  - Triple current electricity output
- Realistic? (California needs 7,000 new MW annually for 15 years)
- What's needed?
  - Accelerate depreciation and close thermal plants
  - Additional wind and solar, transmission, energy storage, pumped hydro
  - Technology innovation
  - Nuclear: extend life of existing; pursue advanced and SMR
  - Headwinds: backlash against renewable energy

Where are the clean energy jobs?

Most new clean energy jobs are in efficiency and EVs

Jobs created in the U.S. in 2021 in “advanced energy” fields

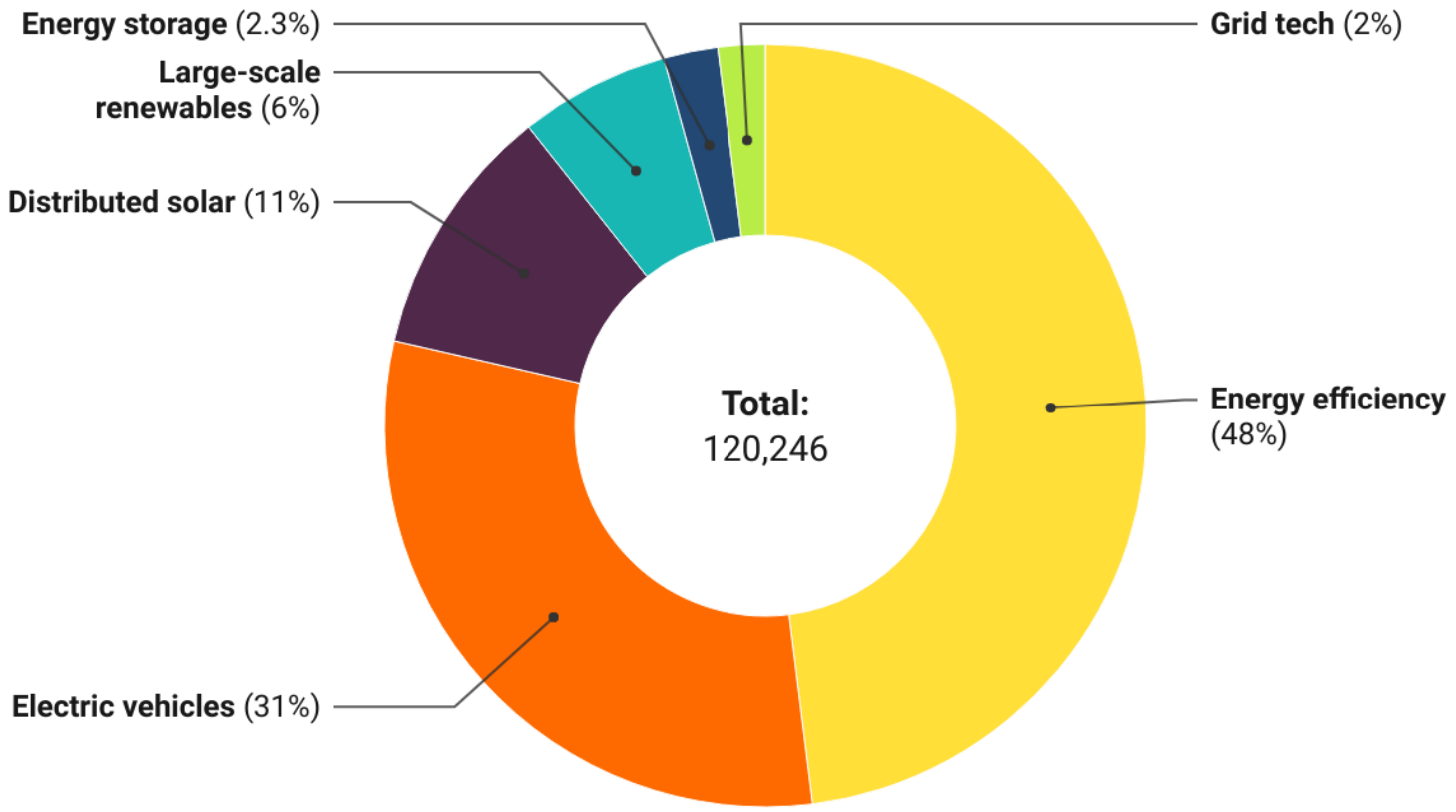
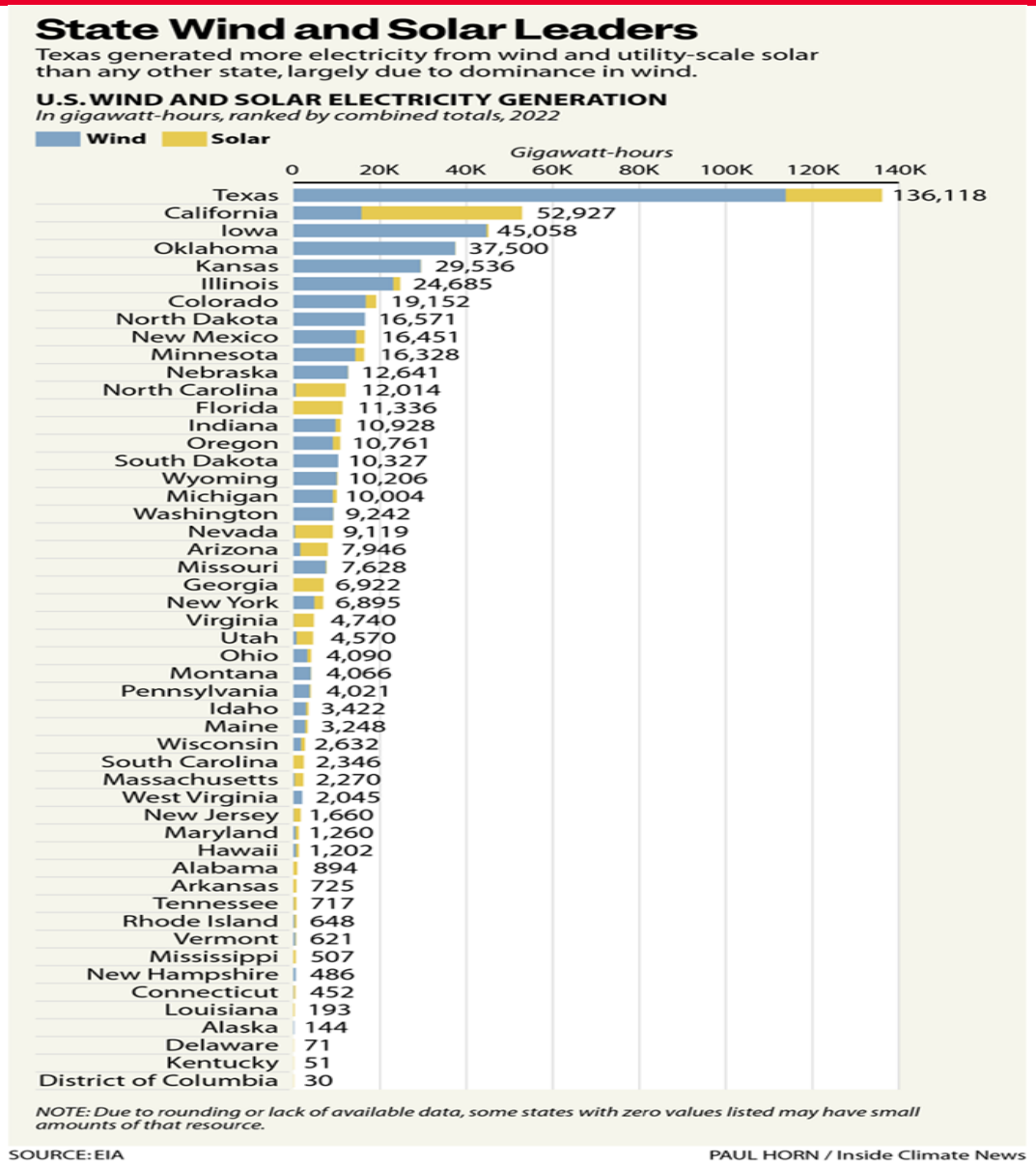


Chart: Canary Media • Source: Advanced Energy United, "Job Opportunities in Advanced Energy," 2022

Which state….

…..is the leader in wind and solar generation?

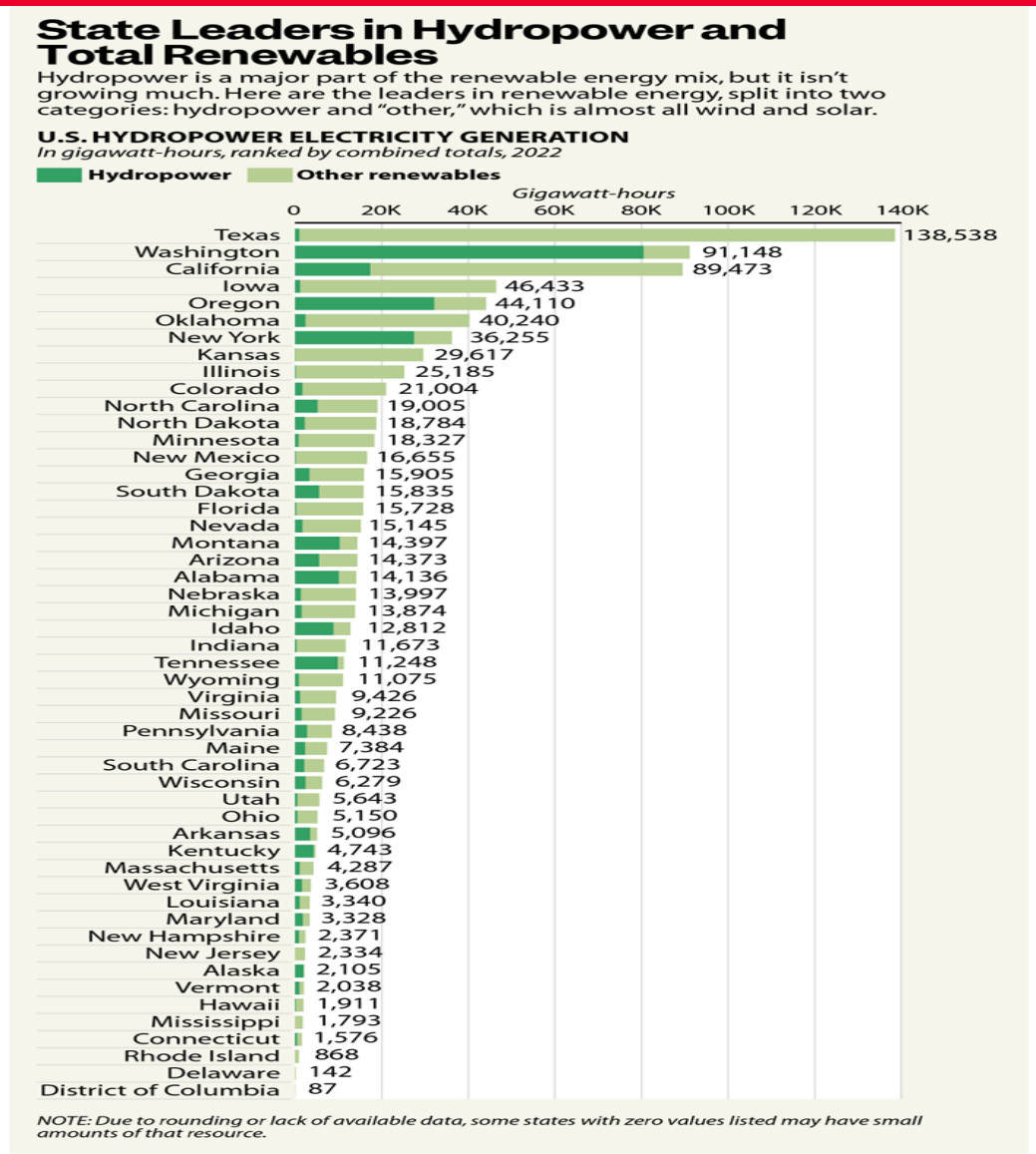
State wind and solar leaders



Which state….

…..is the leader in all renewable energy generation (including hydro)?

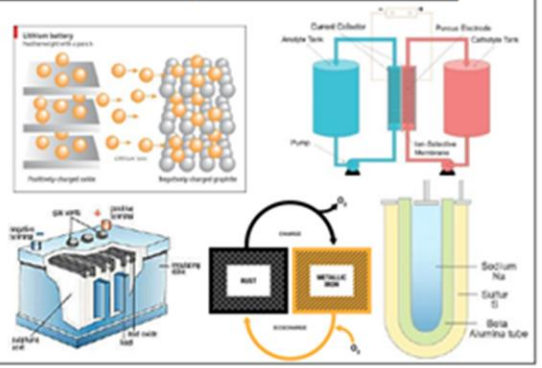
State leaders – all renewable energy



Energy Storage Technology Types

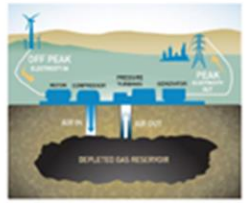
Electrochemical ("Batteries")

Lithium Ion
Lead acid
Iron-Air
Sodium-beta
Flow Batteries
...and more

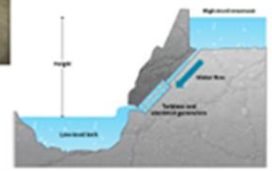


Electromechanical

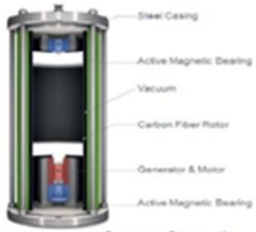
Compressed Air (CAES)



Pumped Hydro



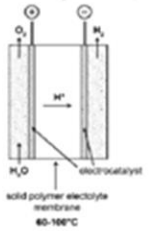
Flywheel



Source: Stornetic

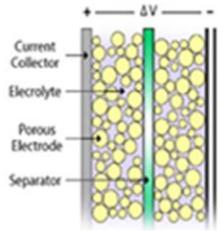
Chemical

Hydrogen, Synthetic Fuels

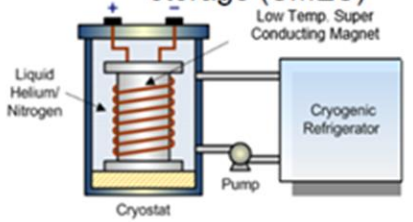


Electrical

Capacitors

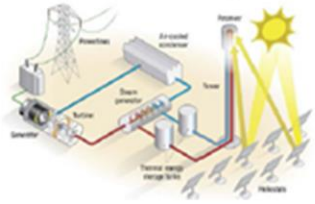


Superconducting magnetic storage (SMES)



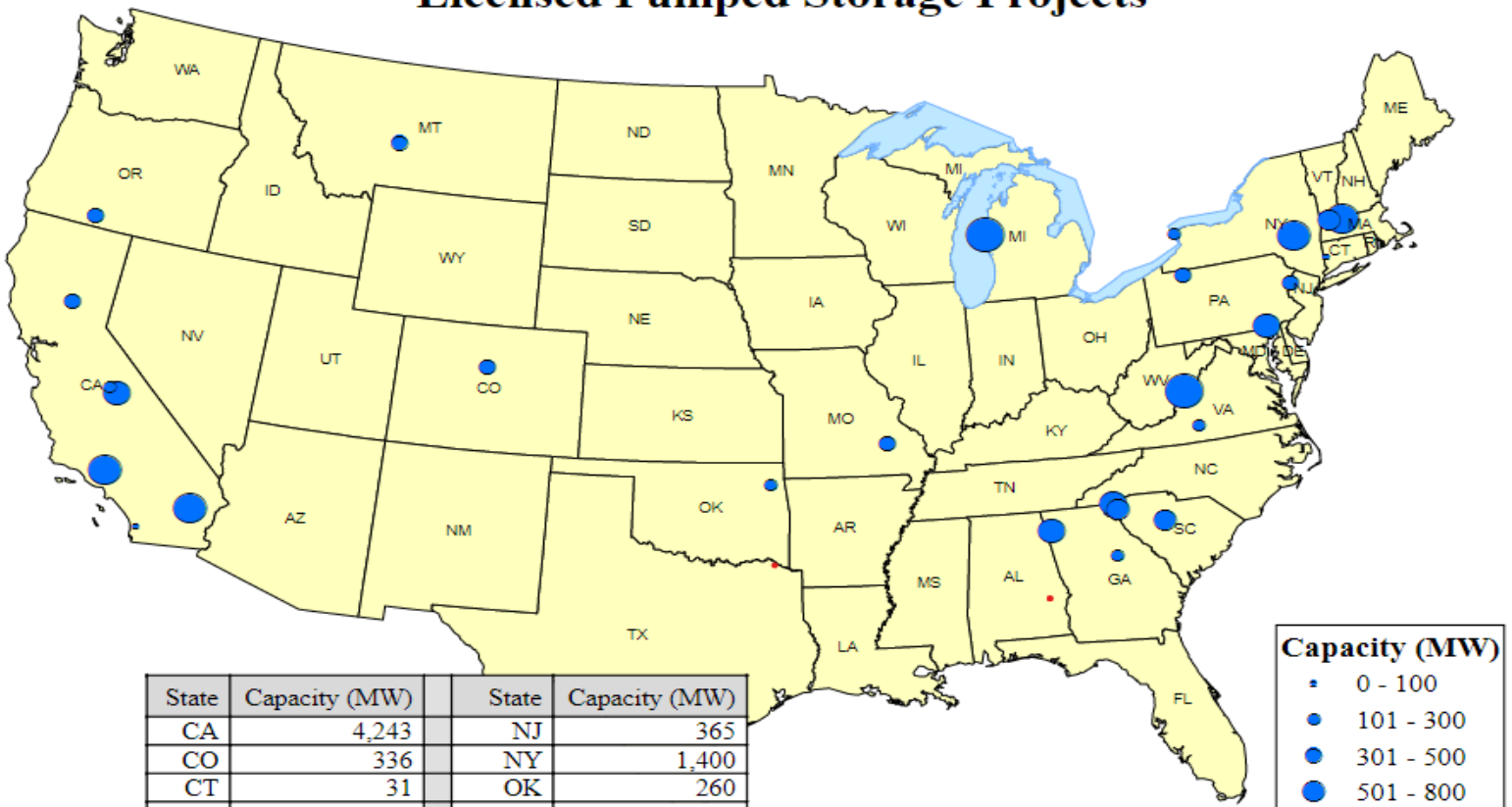
Thermal

Molten salt solar, thermal storage



Licensed Pumped Storage Hydro Projects

Licensed Pumped Storage Projects

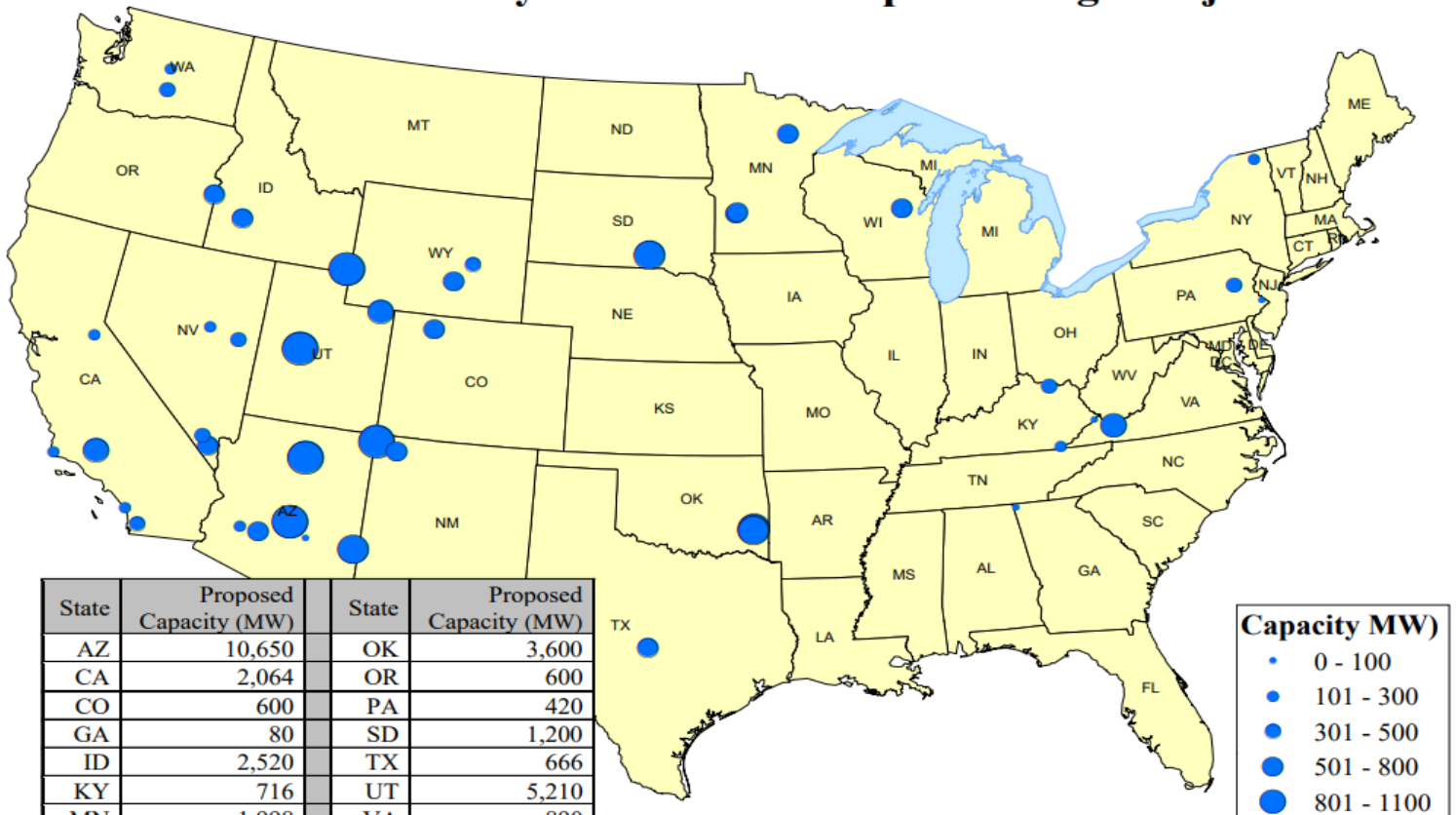


State	Capacity (MW)		State	Capacity (MW)
CA	4,243		NJ	365
CO	336		NY	1,400
CT	31		OK	260
GA	1,120		OR	393
MA	1,833		PA	1,280
MI	1,785		SC	1,221
MO	443		SC/NC	1,065
MT	400		VA	2,722
TOTAL CAPACITY				**18,897 MW**

Source: FERC Staff, May 11, 2022

Potential Pumped Storage Hydro Projects

Issued Preliminary Permits for Pumped Storage Projects

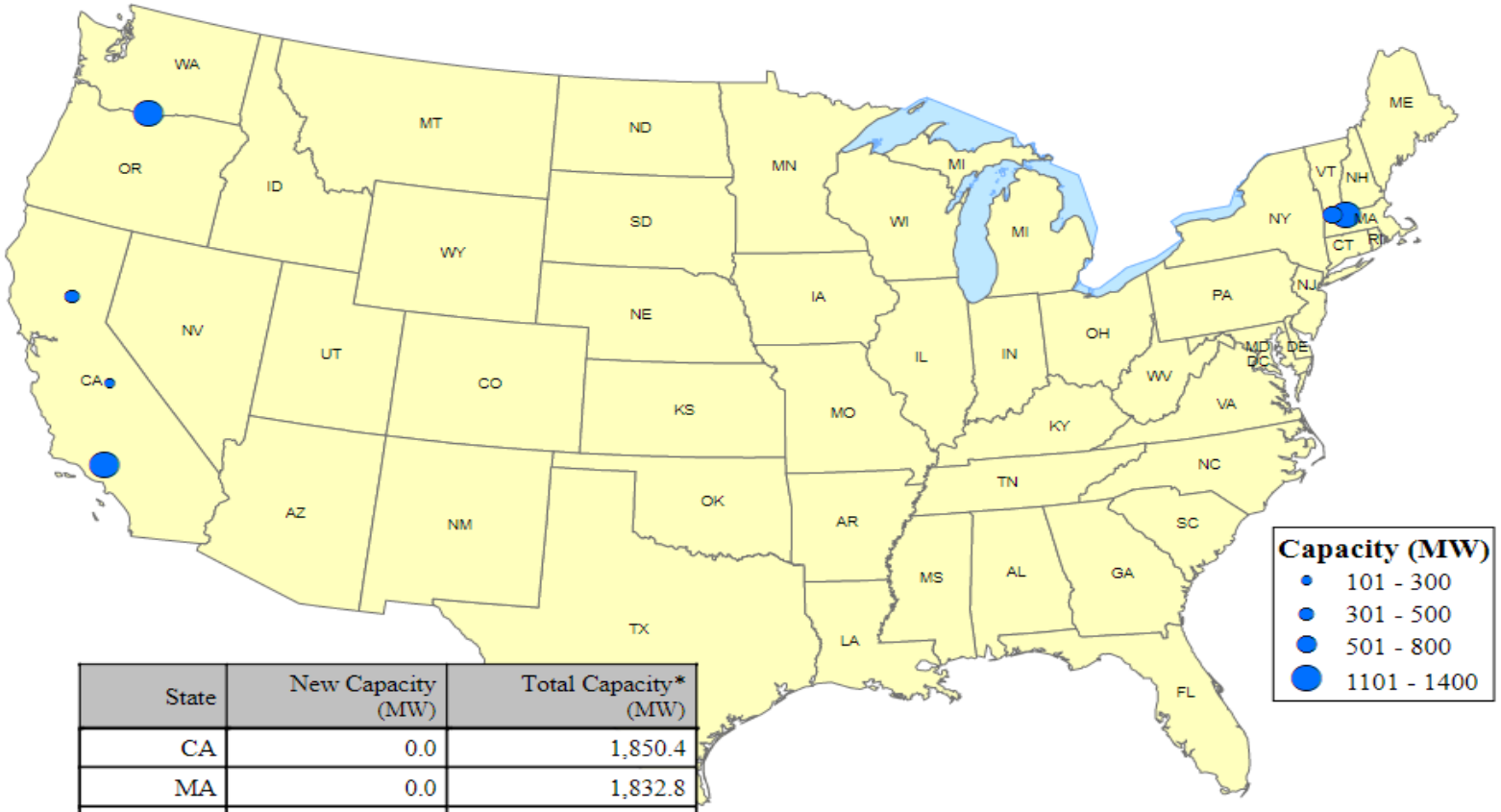


State	Proposed Capacity (MW)	State	Proposed Capacity (MW)
AZ	10,650	OK	3,600
CA	2,064	OR	600
CO	600	PA	420
GA	80	SD	1,200
ID	2,520	TX	666
KY	716	UT	5,210
MN	1,998	VA	890
NM	2,100	WA	3,450
NV	1,900	WI	666
NY	240	WY	1,200
TOTAL CAPACITY			**40,770 MW**

Source: FERC Staff, May 11, 2022

Pending Licensed Pumped Storage Hydro Projects

Pending Licenses and Relicenses for Pumped Storage Projects



State	New Capacity (MW)	Total Capacity* (MW)
CA	0.0	1,850.4
MA	0.0	1,832.8
WA	1,200.0	1,200.0
TOTAL CAPACITY	**1,200.0 MW**	**4,883.2 MW**

*Includes 3,683.2 MW of pumped storage capacity in relicensing.
Source: FERC Staff, May 11, 2022

Typical Pumped Storage Hydro Site

Battery Storage vs. Pumped Storage Hydro

Battery Storage Systems

- Mature technology
- High roundtrip efficiency (~85%)
- Flexible configuration – easily scalable
- Typical discharge period 2-4 hours
- Life span about 10 years
- Thermal runaway
- Higher carbon footprint
- End of life disposal issues

Pumped Storage Hydro

- Mature technology
- High roundtrip efficiency (~80%)
- Fixed scale
- Typical discharge period 8 hours
- Life span about 50 years mechanical, 100 years civil
- Low carbon footprint

Washington, DC update

118th Congress

- Bitterly divided Congress
- Narrow legislative window – only bipartisan measures
- Shift from legislation to executive branch implementation of bill bills from last Congress
  - Environmental rulemakings
  - Treasury guidance for Inflation Reduction Act
  - Program administration for IIJA
- Tension between domestic manufacturing/labor priorities vs. supply chain/costs

Budget debate - Biden

- Reduce deficit by nearly $3 trillion over 10 years
  - 25% minimum tax on households worth more than $100 million
  - Higher taxes for oil and gas companies
  - Raise corporate income tax rate from 21% to 28%
  - Negotiate down cost of prescription drugs
  - Increase top tax rate for individuals from 37% to 39%
- Reduce costs for families
  - $22 billion for childcare and expansion of child tax credit
  - Cap insulin cost at $35/month for all Americans
  - Paid family and medical leave
- Increase Medicare payroll tax on incomes >$400,000/year
- $835 billion defense budget

Budget – Republicans

- Republican House must pass a budget; promised one that balances within 10 years
- Promised not to raise taxes or cut Social Security, Medicare or defense spending
- Republicans see need to raise federal debt ceiling as an opportunity to push for spending cuts
- Only have 5-vote margin in House
- Blame on both sides:
  - Jan. 20, 2017: national debt $19.9 trillion
  - Jan. 20, 2021: national debt $27.8 trillion
  - New debt had bipartisan support

Energy bill?

- Hard to see major energy legislation after last Congress
- House Republicans will move energy package (H.R.1)
  - More oil and natural gas drilling
  - Lower royalties for offshore drilling
  - Limit presidential authority on cross-border projects
  - Limit state authority on water issues
  - Ban fracking moratoria
  - Overhaul NEPA to fast-track lengthy environmental reviews for all projects (oil and gas, pipelines, renewables, grid connections, mines for critical minerals)
  - 2-year limit for EIS reviews; 150-page limit for most
  - Environmental assessments: one year/75 page limit
  - Challenges within 120 days
- Outlook?

Can anything pass this Congress?

- Prescription drugs: Extend $35-a-month insulin price cap
- Rail safety: Improve train safety, particularly when carrying hazardous materials
- Marijuana: Protect banking services for state-authorized marijuana businesses
- “Junk Fees”: More transparent pricing for airline, concert and sporting event tickets; resort fees at hotels; termination fees; notify consumers before charging automatic subscription renewals
- TikTok ban – or other bills to counter Chinese influence (border adjustment for carbon)
- Regulate cryptocurrencies

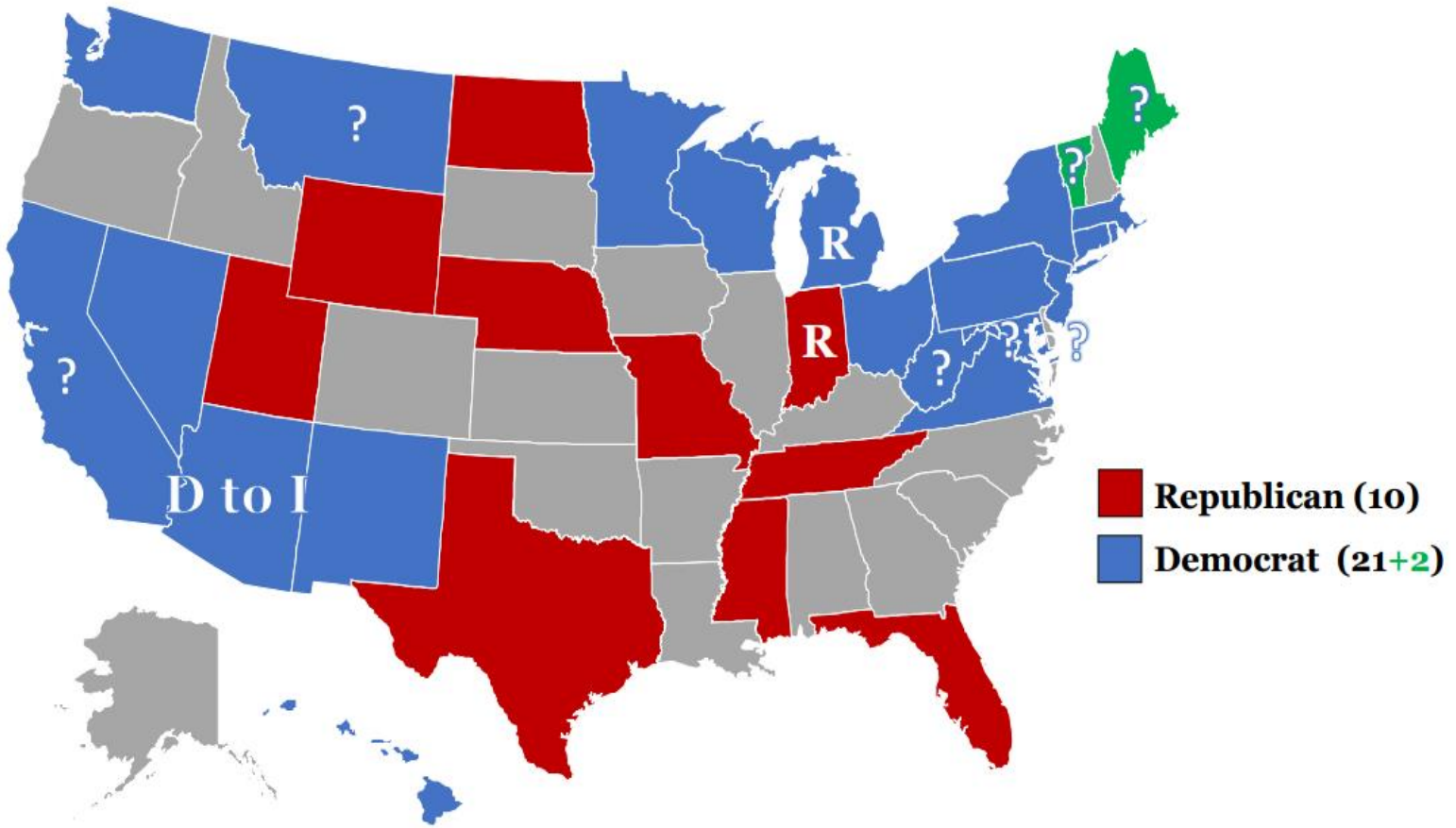
Too early to discuss 2024 elections?

- National polling: Trump leading every other Republican (40%)
- Win by retaining that support while remaining candidates split the vote
- Misleading? Clinton overwhelming lead over Obama in 2007-08, but his strength in the early states (IA and SC) changed the race
- DeSantis has pulled even or ahead in IA and NH
- DeSantis has lower negatives and much more upside than Trump
- Trump v. DeSantis? Trump will try to destroy him, which might open the field for the others
- Trump v. 6 others? Trump wins the nomination again
- Could be uglier than 2020: Remember Ronald Reagan's 11th commandment
- Hard to see it not DeSantis or Trump

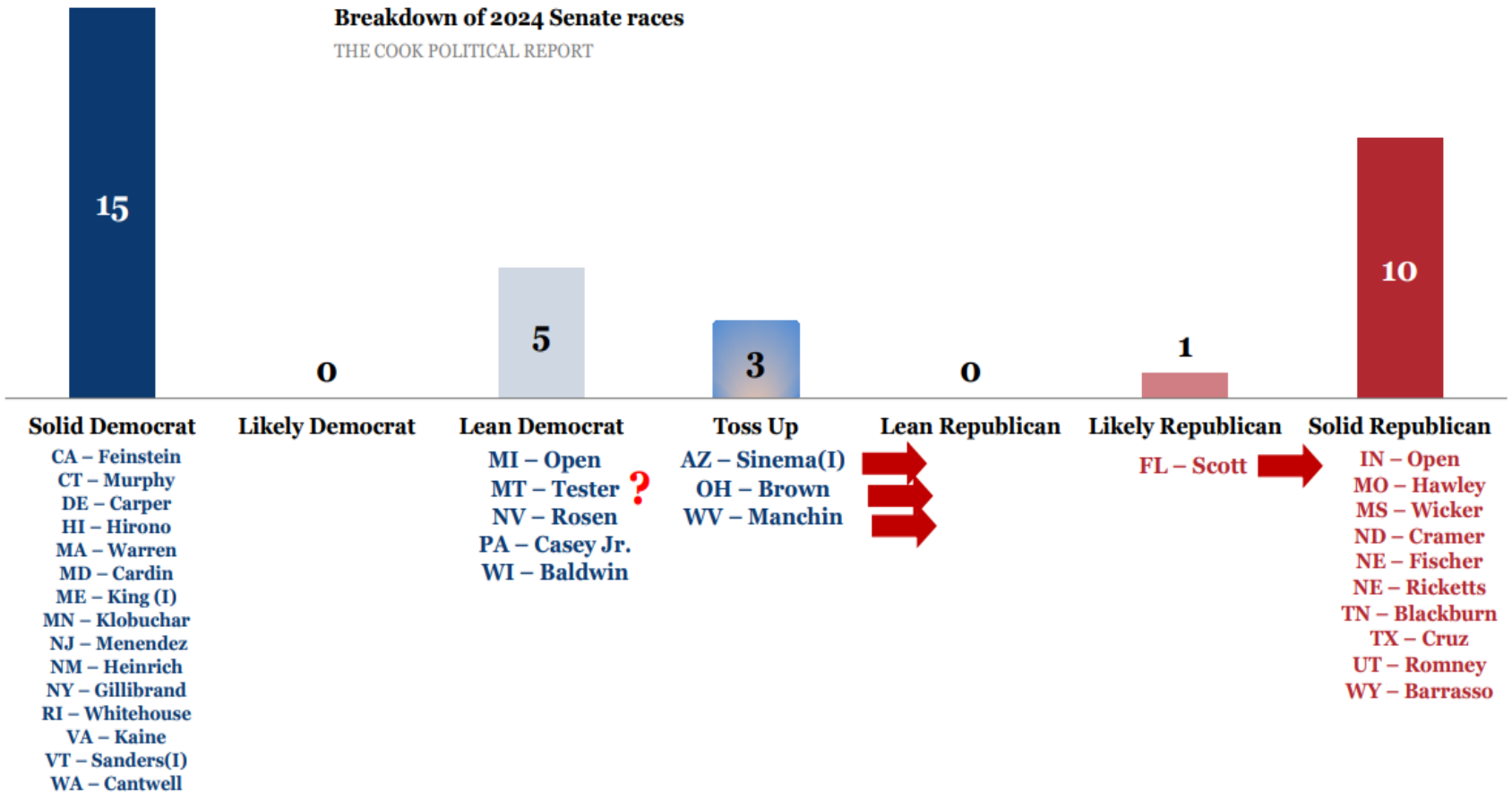
Challengers to Trump/DeSantis

- Nikki Haley: former SC governor; Reaganesque optimist (small government and foreign policy hawk)
- Gov. Glenn Youngkin (VA): comfortable with business executives and evangelicals
- Chris Sununu (NH governor): “I’m not anti-Trump, I’m not pro-Trump. We’re just moving on”
- Mike Pence: longtime favorite of evangelicals. Disliked by Trump supporters; distancing himself from Trump
- Mike Pompeo: Trump’s secretary of state; loyal to Trump
- Sen. Tim Scott (SC)
- Gov. Kristi Noem (SD)
- Long shots have won nominations (Jimmy Carter, Bill Clinton)

Senate Elections in 2024



Senate Races – Cook Report Predictions



Senate Elections in 2024

- 51-49 today
- Three red-state Democrat incumbents – Brown (OH), Manchin (WV), and Tester (MT) – have to pull a Susan Collins: persuade voters to split their tickets in an era of declining split-ticket voters
- These three are toss-ups – plus AZ
- Five other Democratic-held seats (Michigan, Nevada, Pennsylvania, and Wisconsin) are leaning Democratic
- Will Sinema (AZ) and Manchin (WV) switch parties?

House elections in 2024

- 222-213 today
- Way too early to see trends – it's a toss-up now
- Major themes:
  - Likely attempts at mid-decade redistricting that could shake up the map (particularly in OH and NC)
  - 5 NY Republican incumbents (including Santos) start in the "toss-up" column
- Not that many competitive seats
  - 20 tossup seats (11 D, 9 R)
  - 8 of D toss-ups in 3 states: NC (4), PA (2), OH (2)
  - Top R toss-ups: NY (4) and AZ (2)
  - Democrats need to net 5 seats to win the majority

Questions?

Berkshire Hathaway Energy®

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IBEW and Utilities Leadership

2023 SPRING CONFERENCE

HONOLULU, HAWAII, MARCH 20–22, 2023

Southeast LAMPAC Moving Our Industry Forward for Everyone

Brent E. Hall

International Vice President, IBEW 10th District

Co-Chair, Southeast LAMPAC

SELAMPAC Partners

American Electric Power(AEP)
Georgia Power
Alabama Power
Mississippi Power
Entergy Arkansas
Duke Carolinas
Florida Power& Light
Tennessee Valley
Authority(TVA)
IBEW Fifth District
IBEW Tenth District

IBEW Code of Excellence at TVA

It started with a conversation……

Next step….a site visit with IBEW 396 and Nevada Power

Where We Started

-1000 pending grievances
- “Chilled Work Environment” at WBN
-BFN at INPO 4 status
- Issues with performance and safety across the Valley
-Morale issues across the Valley in both labor and management

The Day It Changed

February 26,2018
Watts Bar Nuclear Plant, Units 1&2

5000 + employees
60 Ambassadors (union and management)
600 + meetings across 4 states in 6 months

Accomplishments attributed to COE

-Operation Clean Slate

-Homeward Bound

-Top Nuclear Fleet

-New Heights Program

-Work Optimization

-a new vision of cooperation and partnership for an everchanging future in the utility industry

I would like to extend an invitation today with my management Co-chair, Emile Cordaro. We hope to bring SELAMPAC and Western LAMPAC together in 2024 for a joint conference and to share ideas in this everchanging environment.

**Have you ever heard of NashVegas?*

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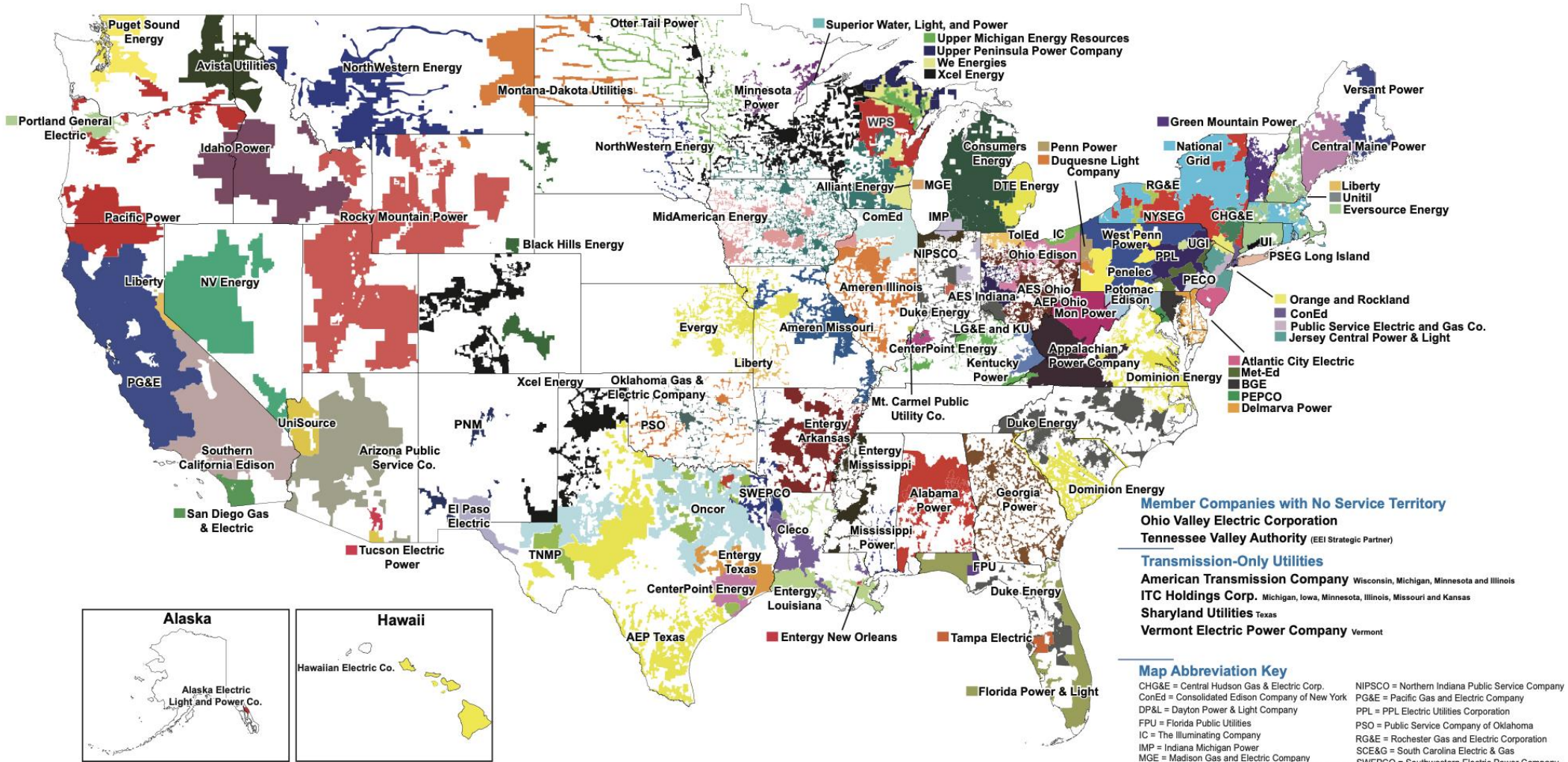
EEI & IBEW
A Winning Partnership

Shawn Cooper

EEI

External Affairs
Senior Director of Labor Relations

EEI U.S. Member Company Service Territories



Produced by Edison Electric Institute. Data Source: ABB, Velocity Suite. June 2022

Creating Value in America's Economy

Contribute

5%

annually to U.S. GDP

Support

7 million+

jobs across the United States

Invest

$120 billion+

per year to build smarter, cleaner, stronger, and more secure energy infrastructure

2022 Legislative Wins

- **IIJA** – The Infrastructure Investment Jobs Act.
- **IRA** – The Inflation Reduction Act
- **CHIPS Act** – The Creating Helpful Incentives to Produce Semiconductors and Science Act

"IIJA Act -EEI Member Made – IBEW Built "

The IIJA presents a once in a lifetime opportunity to partner on major infrastructure projects.

The Biden Administration

Never has there been a more pro-labor President

- ✓ **A skilled workforce**
- ✓ **Prevailing Wage**
- ✓ **Apprenticeship Program**
- ✓ **Made in the USA**
- ✓ **Environmental Justice**
- ✓ **Bargaining Rights**
- ✓ **Careers – not jobs**

$$$$ IIJA Opportunities

- **$21 bill** in Clean Energy Development
- **$43.4 bill** Broadband & Infrastructure
- **$8.9 bill** in EV infrastructure
- **$6.7 bill** to maintain existing generation fleet
- **$16.5 bill** Grid Resilience

"CHIPS Act – USA Made – IBEW Built "

The CHIPS Act Benefits Industry and Labor

The Biden Administration

Never has there been a more pro-labor, Made In the USA, Manufacturing President

- ✓ **Union Jobs in the USA**
- ✓ **A skilled workforce**
- ✓ **Prevailing Wage**
- ✓ **Apprenticeship Program**
- ✓ **Environmental Justice**
- ✓ **Bargaining Rights**
- ✓ **Careers – not jobs**

$$$ CHIPS Act Opportunities

- **$280 bill in** USA Semiconductor Development
- **$200 bill** scientific R&D and commercialization
- **$52.7 bill** is for semiconductor manufacturing & workforce development
- **$24 bill** in tax credits for chip production
- **$3 bill** wireless supply chains

IIJA Funding Opportunities 2023-2027

$5.05B
Expanding Access to Energy Efficiency & Clean Energy

$16.5B
Grid Resilience & Improvements

$6.7B
Maintaining our Existing Clean Generation Fleet

$21.5B
Clean Energy Demonstration & Research Hubs

$43.4B
Broadband Development & Infrastructure

$8.9B
Electric Vehicle Infrastructure

2023 EEI Industry Priorities

Clean Energy Built By IBEW

Resilience & Grid Security

Storm Response & Wildfire Mitigation With IBEW & NECA

Infrastructure Investment & Jobs Act & Inflation Reduction Act Implementation

Electric Transportation Partnership With Organized Labor

Diversity, Equity & Inclusion In Workforce

Advancing Key Legislative & Regulatory Policies in 2023

EEI supports:

- ***Siting and permitting reform***, along with reforms in transmission planning, cost allocation, and generator interconnection. It takes an average of 8 - 12 years to site and build an energy project. We need to reduce that down to 2-4 years to site and build.
- Finalization of a **nationwide permit** for distribution and transmission grid construction activities under the Clean Water Act.
- Removal of regulatory and legislative barriers limiting **member companies' ability to own or fully participate in the implementation of energy storage assets and other distributed energy resources.**

EEI & IBEW Leading The Country on Clean Energy Development

Changing U.S. Energy Mix

40%

CARBON-FREE

↓CO_2

CARBON EMISSIONS
From the U.S. Power Sector
ARE AS LOW AS THEY WERE IN 1984,
While Electricity Use Is Up 72% Since Then

Increasing Investments

$120 Billion+

Per Year on Average
TO MAKE THE ENERGY GRID SMARTER, CLEANER, STRONGER

>1/2

Over the Past 10 Years,
More Than Half of New Electricity Generation Capacity Was
WIND AND SOLAR

Nearly

27 Gigawatts

of
RENEWABLE TECHNOLOGIES
added in 2021

Investing Nearly

$3.7 Billion

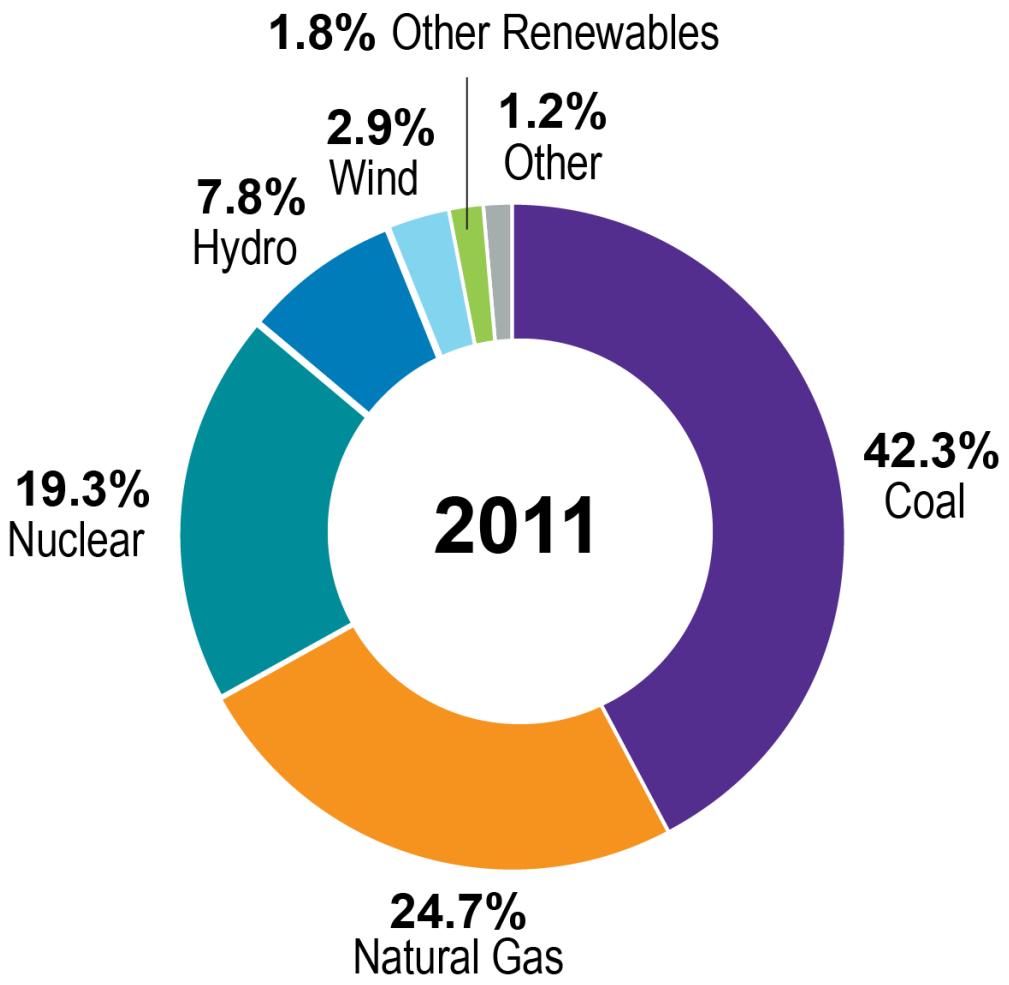
to Deploy
EV CHARGING INFRASTRUCTURE

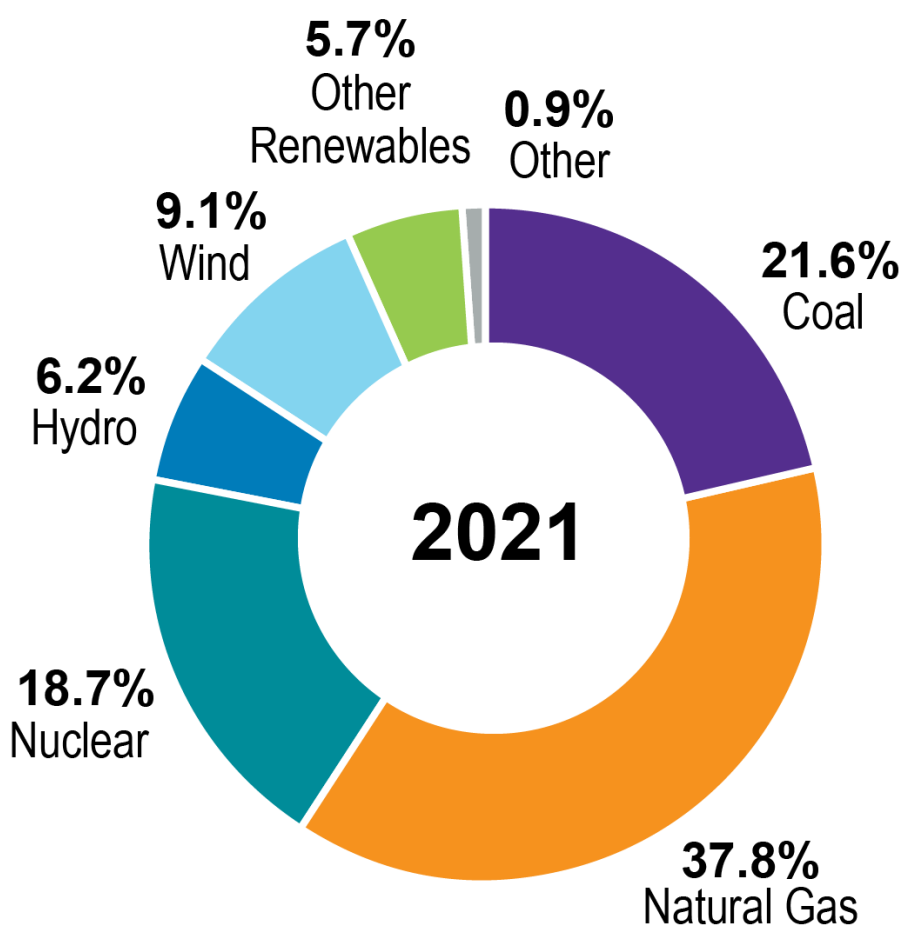
Using

96%

of all
U.S. ENERGY STORAGE

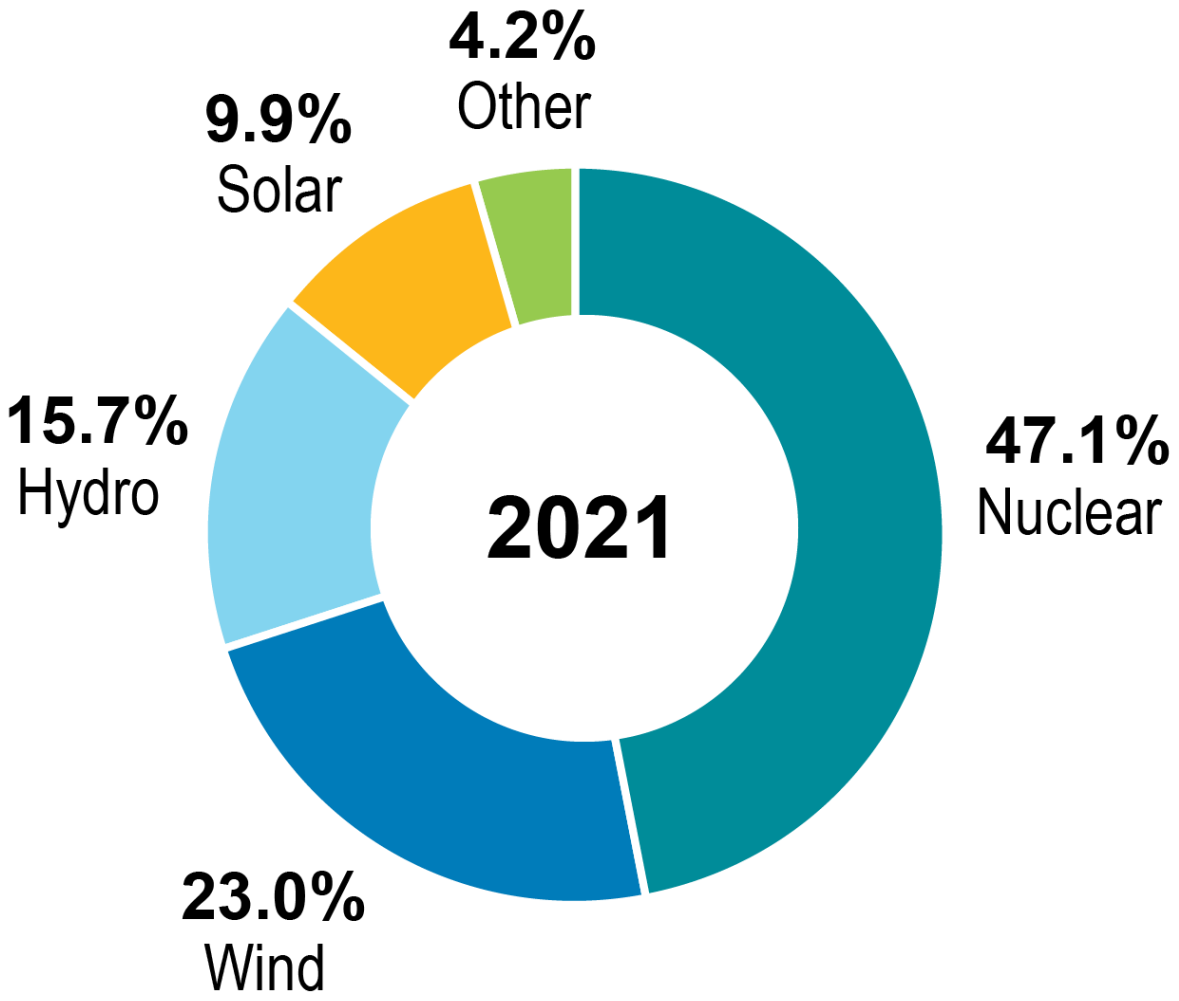
Transforming the Energy Mix





Note: "Other Renewables" includes universal (or large-scale) solar, private (or rooftop) solar, geothermal, and generation from biomass sources (agricultural waste, landfill gas recovery, municipal solid waste, wood, non-wood waste). Source: U.S. Department of Energy, Energy Information Administration (EIA).

40.6 % of EEI Electric Generation was Carbon Free



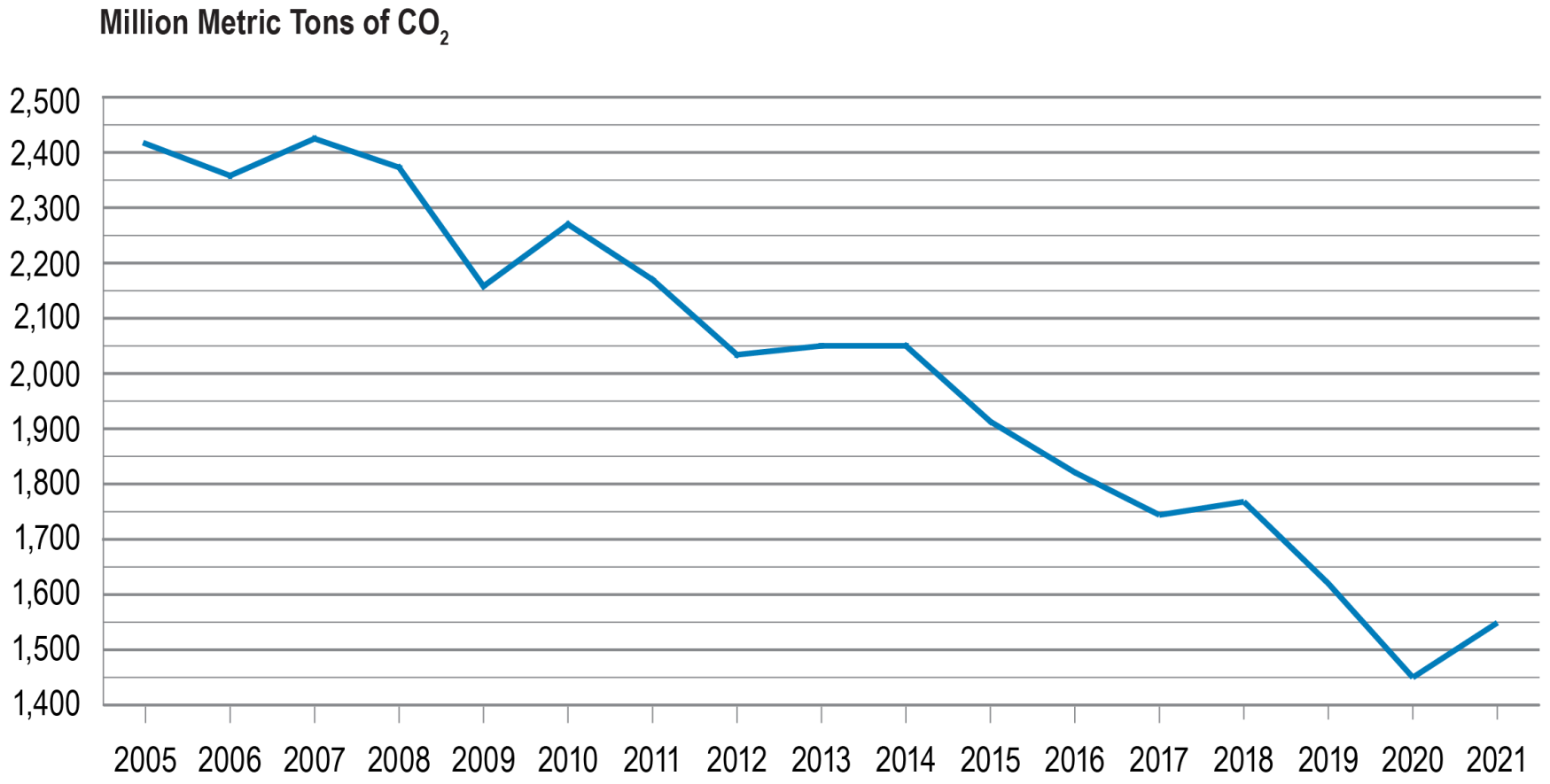
Nuclear energy remains the largest source of carbon-free electricity.

Currently, 93 reactors in 28 states produce nearly 20 percent of our nation's electricity and approximately 50 percent of our carbon-free electricity.

"Other" includes biomass, geothermal, and landfill gas.

Source: U.S. Department of Energy, Energy Information Administration (EIA).

Reducing Carbon Emissions



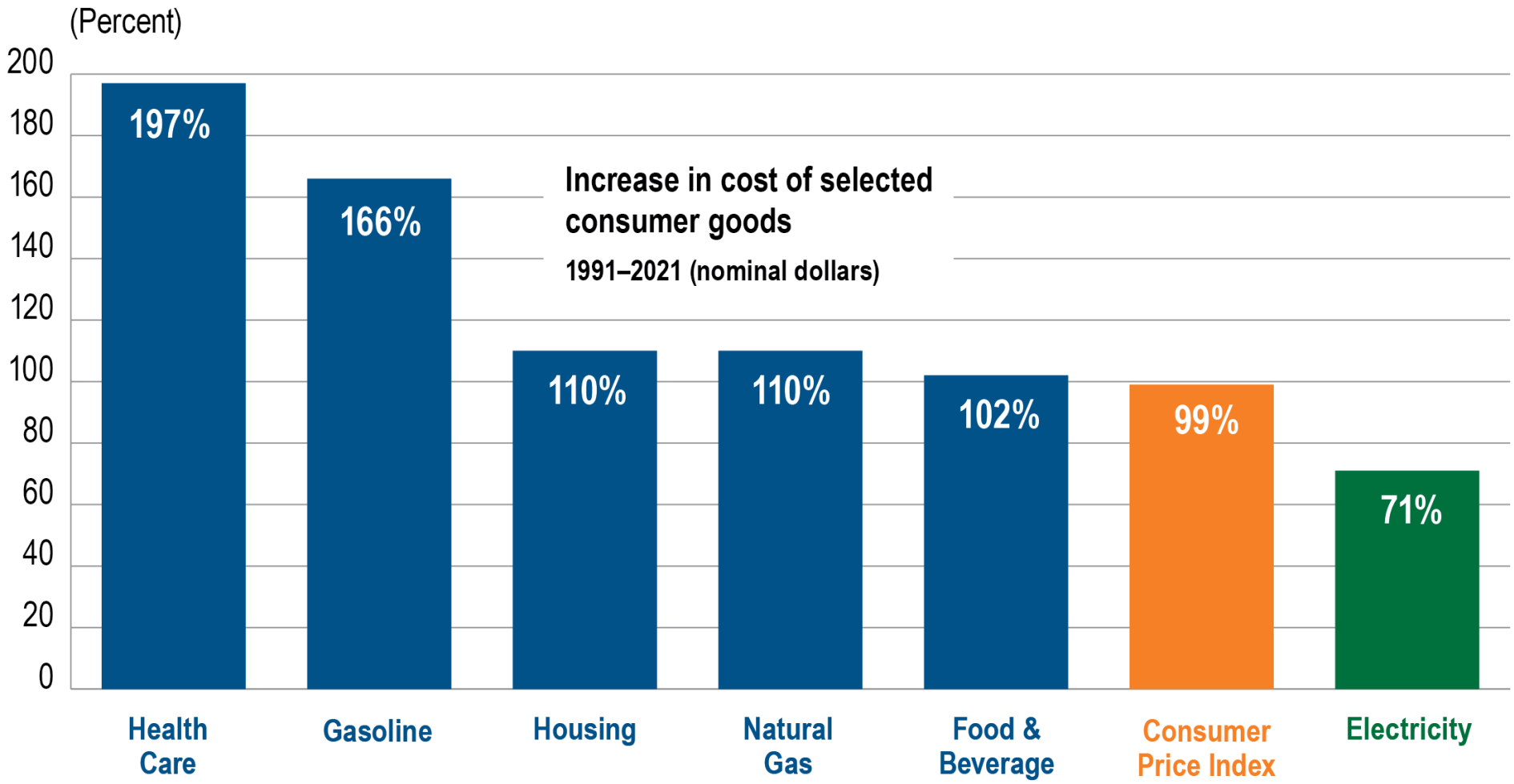
- Today, 40 percent of U.S. electricity comes from carbon-free sources
- As of 2021, electric power industry CO_2 emissions are 36 percent below 2005 levels
- Overall trajectory is expected to continue based on current trends

Source: Preliminary estimate from U.S. Department of Energy, Energy Information Administration (EIA), *Monthly Energy Review*, March 2022.

Delivering Customer Value

1.28 percent of Americans' personal consumption expenditures in 2021 went toward electricity bills—**the lowest annual rate in more than six decades.**

Electricity Is a Great Value



Sources: U.S. Department of Labor, Bureau of Labor Statistics, and U.S. Department of Energy, Energy Information Administration (EIA).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