

# Politics, Policy and Projects for Advanced Reactors – US Trends

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Roundtable, Council for Clean & Reliable Energy  
Eric S. Gould, Partner, Modus Strategic Solutions  
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# US Political Trends – Advanced Nuclear

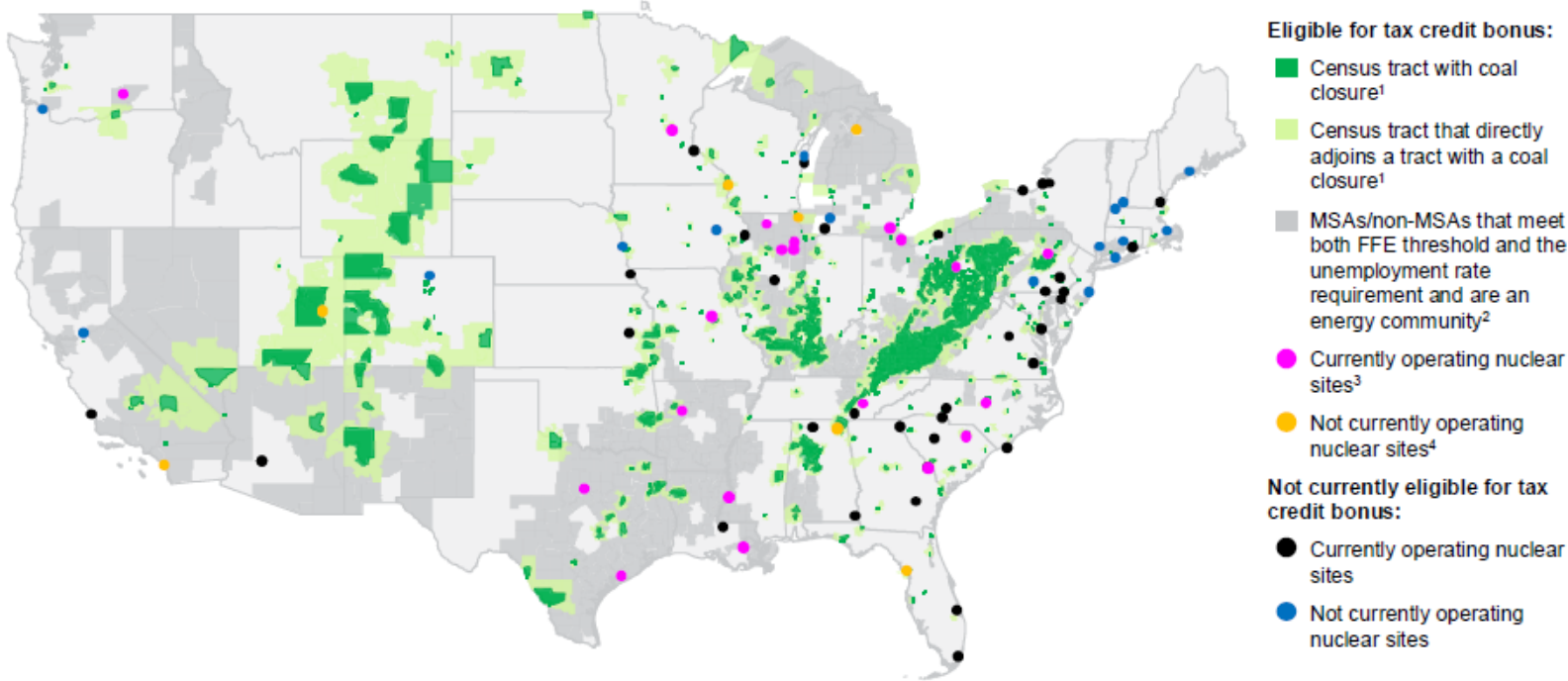
- **Biden Administration Support of Advanced Nuclear**
  - Inflation Reduction Act, Bi-Partisan Infrastructure Act and DOE Loan Processing Office have boosted nuclear, renewables and decarbonization
    - Palisades Restart (\$1.52B)
    - Advanced Reactor Projects - \$2.8B committed to ARDP Projects (Dow and Natrium)
    - Office of Clean Energy (OCED) managing \$651M in risk reduction funding for:
      - BWXT – BANR Advanced Nuclear Reactor
      - Holtec – SMR-300 PWR
      - Kairos – Hermes fluoride salt-cooled high temperature reactor
      - Southern Co/TerraPower – Molten Chloride Reactor Experiment
      - Westinghouse – eVinci Microreactor

## White House Nuclear Initiative

- Intake of best ideas from the industry on project management, project delivery, governance, cost estimating, engineering, licensing and deployment strategies
- Intent to produce recommendations into a principles document that will support additional legislation to aid deployment

# DOE has identified opportunities for nuclear expansion based on Incentives from IRA

Figure 19: 20 operating nuclear sites and 5 formerly operating sites are in communities eligible for energy community tax credit bonuses<sup>87</sup>



1. Census tract with a coal closure or directly adjoining a census tract with a coal closure 2. MSAs/non-MSAs that meet both the Fossil Fuel Employment threshold and the unemployment rate requirement 3. Arkansas Nuclear One, Beaver Valley, Braidwood, Byron, Callaway, Columbia, Comanche Peak, Davis-Besse, Dresden, Fermi, Grand Gulf, H.B. Robinson, LaSalle, Monticello, Shearon Harris, South Texas, Susquehanna, Vogtle, Waterford, Watts Bar 4. Bellefonte (unfinished), Big Rock Point (retired), Blue Castle (proposed), Crystal River (retired), La Crosse (retired), San Onofre (retired), Zion (retired)

- DOE Lift-Off identified market movers and opportunities for nuclear expansion
- Coal sites and Nuclear stations targeted for expansion and replacement



# 211

**ACTIVE**  
APPLICATIONS <sup>1</sup>

# \$305.3

**BILLION**  
IN LOANS REQUESTED <sup>2</sup>

# 1.2

**NEW**  
APPLICATIONS PER WEEK <sup>3</sup>

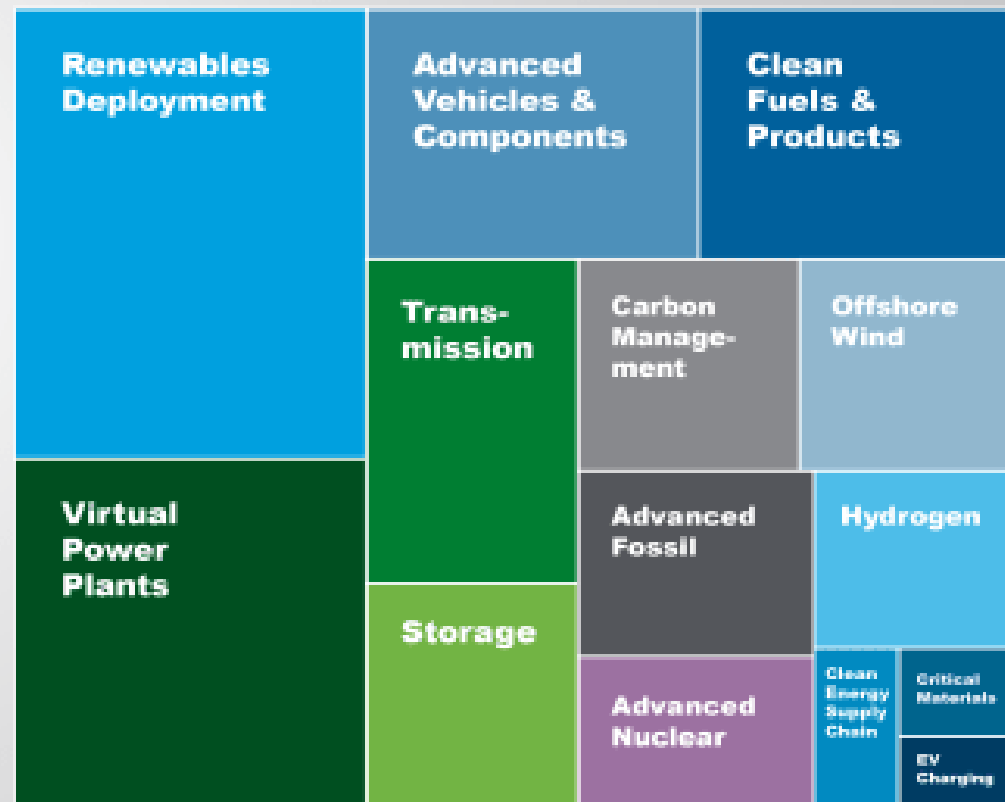
**Notes**

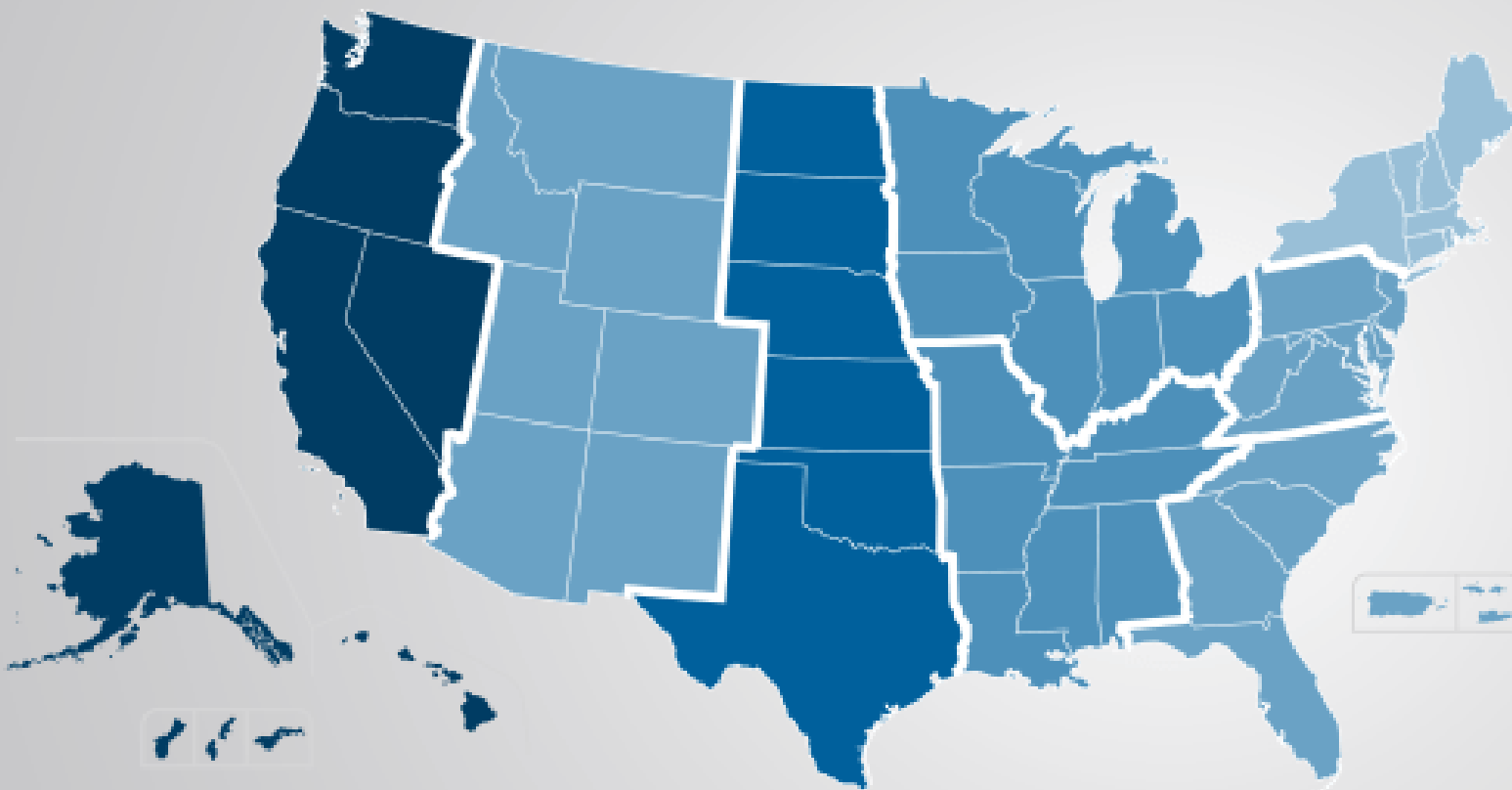
All data updated as of September 30, 2024. For more details and a list of technology areas of interest within each LPO tech sector, see: [Energy.gov/LPO/MAAR](https://energy.gov/LPO/MAAR)

- 1) Active applications include applications that have been submitted by the project sponsor(s) through LPO's online application portal and are in different stages of active review and engagement by LPO and the applicant. Active application count does not include publicly announced conditional commitments.
- 2) Individual requested loan amounts are estimated and potential, subject to change, and not necessarily representative of final financing terms. Requested loan amounts in current active applications do not affect available LPO loan authority. Figure rounded down to the nearest \$0.1 billion.
- 3) Current rolling average of new active applications per week over the previous 24 weeks. Figure rounded down to the nearest 0.1 application per week.

## \$305.3 BILLION

CURRENT AMOUNT OF LOANS REQUESTED BROKEN DOWN BY PROJECT TECHNOLOGY SECTORS





**211** ACTIVE APPLICATIONS<sup>1</sup> WITH  
**257** PROPOSED PROJECT LOCATIONS  
 ACROSS ALL REGIONS OF THE U.S.<sup>2</sup>

<b>WEST</b>	AK, CA, HI, NV, OR, WA (AS, GU, MP)	<b>59</b>
<b>PLAINS</b>	KS, ND, NE, OK, SD, TX	<b>39</b>
<b>MIDWEST</b>	IA, IL, IN, MI, MN, OH, WI	<b>32</b>
<b>SOUTH</b>	AL, AR, KY, LA, MO, MS, TN	<b>30</b>
<b>MID-ATLANTIC</b>	DC, MD, NJ, PA, VA, WV (DC)	<b>27</b>
<b>MOUNTAIN</b>	AZ, CO, ID, MT, NM, UT, WY	<b>26</b>
<b>SOUTHEAST</b>	FL, GA, NC, SC (PR, VI)	<b>23</b>
<b>NORTHEAST</b>	CT, MA, ME, NH, NY, RI, VT	<b>21</b>

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- 2) Regions depicted are for representation purposes only and are not meant to denote LPO consideration of regional variation in project evaluation.

# US Political Trends – Bi-Partisan Action

- Trends – Big Tech
  - Commitment to funding firm power FOAK projects
  - Reduce impact to ratepayers while bringing projects to scale
  - Sec. Granholm – defined as a race to deploy that US is behind
- Congressional Action has been across party lines
  - Advance Act – Streamlining of NRC rules, adding resources for license renewals, new reactor licensing and extended power uprates
  - Appropriations (\$900M) for Generation III+ grid-scale deployment
  - Domestic HALEU/LEU production – IRA provided \$700M; Congress approved an additional \$2.7B
  - Senator Mark Warner (D – VA) “The mainstream of both political parties support nuclear power”
- Additional Proposals before Congressional Committees
  - Overrun insurance for new reactors
  - Easing Permitting and Environmental Regulation

# States' Support for Nuclear

- Several states have established legislative support for new nuclear projects
  - Michigan - support for Palisades Restart
  - Virginia – new legislation enabling SMR development and supply chain
  - Washington - \$25M funding for Energy Northwest New Nuclear Project
  - Tennessee – Supporting legislation and TVA commitments
- Other state actions
  - Repeal of nuclear moratoria - Illinois
  - Studies for new nuclear – ND, SD and Minnesota
- Opinions and Attitudes are changing dramatically
  - Surveys in states with negative opinions show evolution
  - Recent damaging storms and higher frequency of natural disasters are bringing attention to climate issues

# So, What If??

- Polls for the Presidential Race are Extremely Close
  - Multiple election models show essentially 50/50
  - 7 battleground states are all within the margin of error
  - Most likely scenarios are mirror images
  - US Senate leaning to/likely GOP majority
  - US House is very close – leaning to/likely Democratic majority
  - Most Likely Case – Divided Government
- Potential Impact on Energy Policy
  - Bipartisan action continues to support nuclear; perhaps less support for renewables
  - Benefits of the IRA have been spread across the US could insulate attempts to reduce or repeal
  - Private sector momentum for clean energy and decarbonization seems too great to stop





THANK YOU

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