



MEMORANDUM

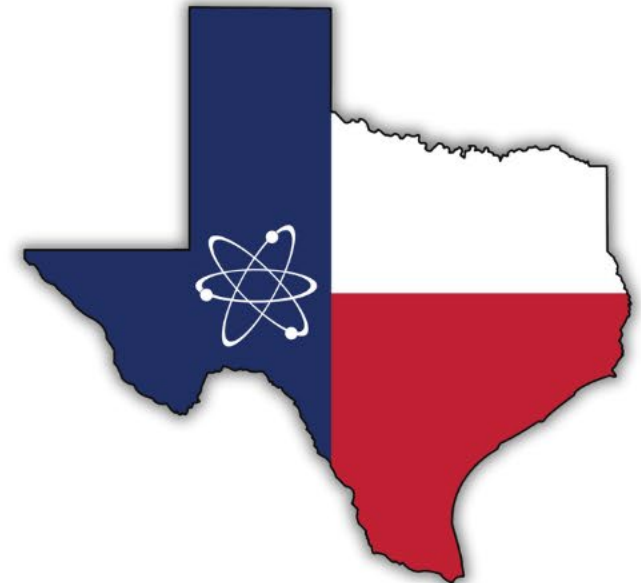
To: ERCOT Technology & Security (T&S) Committee
From: John Swainson, Chair, ERCOT Technology & Security (T&S) Committee
Date: November 21, 2024
Re: Item 5.2 – Summary of the Report from the Nuclear Reactor Working Group submitted to the Governor of Texas

Attached is the final published report for the Texas Advanced Nuclear Reactor Working Group. The agenda for the T&S Committee meeting scheduled for December 2, 2024, includes presentation of a summary of the report by Jimmy Glotfelty, Public Utility Commission of Texas (PUCT) Commissioner.

I want to thank ERCOT staff who helped lead ERCOT's input into this report.

Deploying a World-Renowned Advanced Nuclear Industry in Texas

*Major Considerations and Recommendations
for Near-Term Action*



"Texas is the energy capital of the world, and we are ready to be No. 1 in advanced nuclear power," said Governor Abbott.

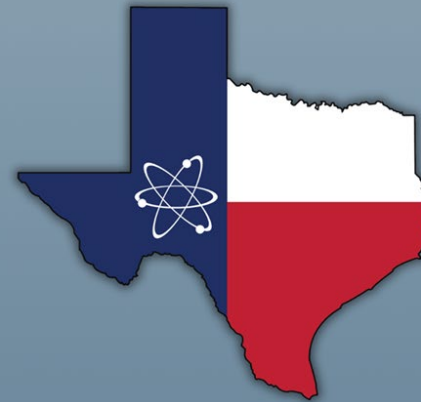
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TEXAS ADVANCED NUCLEAR REACTOR WORKING GROUP

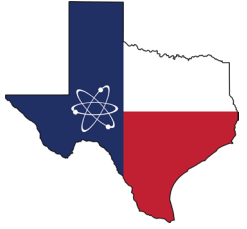
NOVEMBER 2024

**Deploying a World-Renowned
Advanced Nuclear Industry in Texas**

Considerations and Recommendations for Action



Legislative Recommendations



Recommendation 1: Texas Advanced Nuclear Energy Authority

Establish a non-regulatory entity to coordinate Texas' strategic nuclear vision, implement ANR policy recommendations, and manage funds and oversight of state nuclear incentive programs.

Recommendation 2: Texas Nuclear Permitting Officer

Designate a single point of contact for advanced nuclear reactor developers and associated businesses to navigate permitting.

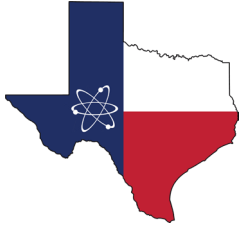
Recommendation 3: Workforce Development Program for Community Colleges and Universities

Coordinate workforce, education, and industry to support a homegrown nuclear workforce in Texas capable of meeting advanced nuclear industry and Texas energy demand.

Recommendation 4: Texas Advanced Manufacturing Institute

Create an institute designed to develop and foster a nuclear ecosystem in Texas.

Legislative Recommendations (Con't)



Recommendation 5: Texas Nuclear Public Outreach Program

Implement a communications and public engagement plan to inform and educate Texans about the benefits of advanced nuclear power and reactor development.

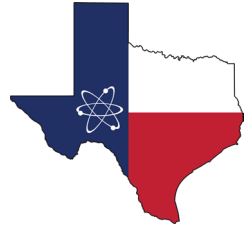
Recommendation 6: Texas Nuclear Energy and Supply Chain Fund

Create a direct grant cost-sharing program to incentivize early development and siting and support supply chain and manufacturing capacity readiness.

Recommendation 7: Texas Nuclear Energy Fund (Fund)

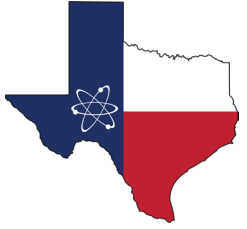
Create and appropriate funds to the Texas Nuclear Energy Fund explicitly for advanced nuclear power to overcome the funding valley project developers face in Texas.

Future Issues for Texas to Consider



- Expansion of N-Stamp Certificates – support businesses efforts to achieve N stamp with financial support
- Critical Minerals – evaluate minerals needed for nuclear fuel and other components
- Texas Nuclear Fuel Recycling – better understand the uses around recycling versus waste storage
- Support at Existing Sites for Large Reactors – develop financial incentives that can support reactors at existing sites
- Market Design – additional study is needed to determine what market design will best support new reactors.

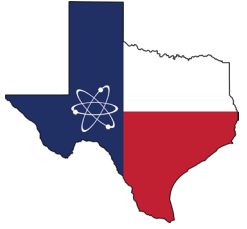
Nuclear Programs at Texas Education Institutions



- Texas universities are leaders in nuclear related degrees and research:
 - 17 Universities currently involved in Nuclear Research or programs
- Numerous Community Colleges have workforce programs that will expand for ANR industry needs
- More Degreed engineers are critical
- More nuclear research is needed.



Why Texas? and Why Now?



Texas will gain:

1. Enhanced Energy Security for growing energy needs
2. Improved Grid Reliability with additional dispatchable resources
3. Economic Development & Industry Opportunities to grow Texas businesses in the supply chain with the potential to achieve:
 - 148,000 new employees in the new ANR industry in construction, operations, and manufacturing.
 - Over \$50 billion in new economic output for Texas.
 - Over \$27 billion in income for Texas workers.
4. First-In-The-Nation Advantages as we are an infrastructure state

Industry will gain:

1. A state with major political and financial commitment to new ANR's
2. A valued partner with financial and market tools and a “can-do” attitude
3. Existing fabrication infrastructure and large project discipline and know how
4. A workforce that can work immediately.

THANK YOU, GOVERNOR ABBOTT – LETS GET TO WORK!!

PUC.TEXAS.GOV/INDUSTRY/NUCLEAR

