



2026

STATE OF LOUISIANA

Nuclear Strategic Framework

A MESSAGE FROM GOVERNOR JEFF LANDRY

Louisiana has always powered America’s progress—and today, we are stepping forward to power its future.

Under President Trump’s leadership and focus on strengthening American energy security and dominance, our nation is recommitting to the resources and technologies that drive economic strength and independence. Louisiana is uniquely positioned to lead. With world-class industrial infrastructure, a highly skilled workforce, pragmatic regulators, and unmatched access to global markets, our state offers the ideal foundation to deploy, manufacture, and export the next generation of nuclear technologies.

Through our Nuclear Strategic Framework, we are aligning industry, government, and education to build a comprehensive ecosystem—from advanced reactor deployment to nuclear component manufacturing and workforce development. This is not just an energy strategy—it is an economic strategy that will create high-wage jobs, strengthen our industrial base, and secure Louisiana’s role as a global energy leader.

We are not waiting for the future—we are building it.

Louisiana is ready to lead the next era of nuclear energy. And we invite our partners—across the nation and around the world—to build it with us.



JEFF LANDRY

Governor, State of Louisiana

TABLE OF CONTENTS

Executive Summary	4
Why Nuclear, Why Louisiana, Why Now	8
Nuclear Within Louisiana’s Broader Strategy	12
Framework Development & Stakeholder Input	14
Priority Nuclear Opportunities	18
Nuclear Strategic Framework	30
Roadmap for Action	34

Executive Summary



Louisiana's Nuclear Opportunity

WHY NOW

Unprecedented Power Demand:

U.S. data center energy consumption is projected to grow by 300% by 2030, reaching approximately 667 TWh.

Regulatory Climate Improvements:

Enacted in August 2025, Act 111 (Senate Bill 127) establishes a first-of-its-kind Federal Permitting Parity Program aimed at reducing regulatory friction by allowing state agencies to fast-track environmental permits.

High-Value Economic Opportunity:

U.S. nuclear design and manufacturing efforts are on track for \$250B in total investment by 2030. New fuel conversion and enrichment facilities are drawing over \$1B in investment per site. Nuclear energy jobs remain some of the highest-paying in the energy sector. The average annual wages in nuclear segments are all above \$95K.

Louisiana has a generational opportunity to strengthen its position in the nuclear sector as power demand rises, industrial growth accelerates, and national market and policy signals increasingly favor domestic nuclear development.

This framework defines where Louisiana is best positioned to compete, how nuclear supports the state's broader economic and energy direction, and what actions can improve Louisiana's competitive position over time.

This opportunity is not theoretical. Louisiana already benefits from an operating nuclear footprint, a large industrial base, major logistics capacity, a skilled workforce, and growing large-load demand. This framework organizes the state's approach around nuclear priorities, value chain enablers, and a sequenced roadmap for execution.

Mission, Vision, and Statewide Priorities

MISSION

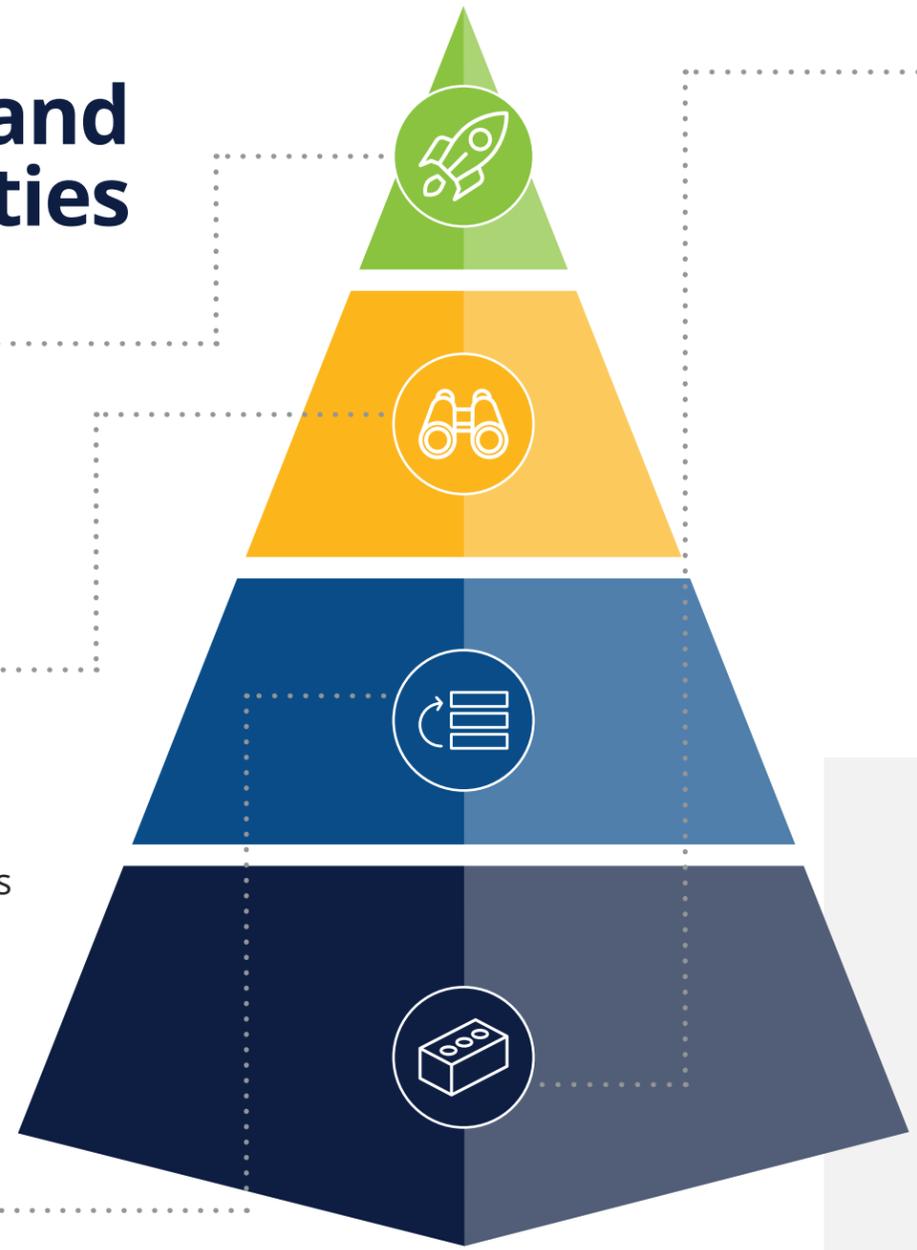
Empowering Louisiana’s people through energy dominance, robust job creation, and industrial sector growth.

VISION

Build a diversified economic future where expanding Louisiana’s nuclear sector strengthens the state’s overall energy portfolio, enables key industries to thrive, and positions Louisiana as a leader in the nuclear supply chain, driving robust job creation and GDP growth over the next decade.

STATEWIDE PRIORITIES FOR NUCLEAR

- Foster an ecosystem of in-state manufacturing for emerging nuclear component opportunities.
- Position Louisiana to participate in emerging opportunities from nuclear-powered industrial growth.
- Explore nuclear fuel expansion supported by workforce and industry synergies.



ROADMAP FOR ACTION

Louisiana has established initial statewide initiatives to translate this strategic framework into execution. Guided by a Whole-of-Louisiana approach, the state’s action framework will accelerate nuclear manufacturing, generation, fuel conversion, and fuel enrichment opportunities moving forward.

ENABLERS OF THE LOUISIANA NUCLEAR VALUE CHAIN

Statewide Nuclear Leadership & Coordination

Develop a clear organizational structure at the state level around Louisiana nuclear industry buildout that is responsible for federal government outreach and general management of all major initiatives and provides easy, streamlined access for industry partners.

NUCLEAR-READY REGULATORY ENVIRONMENT

Increase the ease of building in Louisiana by clearly communicating existing regulation and permitting while working to reduce the regulatory burden.

NUCLEAR INFRASTRUCTURE & CORRIDORS

Map and develop regional hubs for nuclear value chains by aligning available land, transportation networks, and supply chain capacity.

NUCLEAR JOBS & ECONOMIC GROWTH ENGINE

Reach out to industry and convene key stakeholders while shoring up workforce readiness and nuclear incentives.

LOCAL PARTNERSHIPS

Partner with local communities to share information on nuclear, address concerns, and ensure siting decisions reflect local priorities and opportunities.

Priority Value Chain Segments

Louisiana’s Nuclear Strategic Framework establishes three priority value chain segments—manufacturing, generation, and fuel conversion and enrichment—with the strongest opportunities to compete and win. These segments were selected based on market potential, Louisiana’s existing advantages, stakeholder input, and the state’s ability to improve competitiveness through coordinated action.



PRIORITY SEGMENT 1:

Manufacturing

Grow an ecosystem that supports nuclear manufacturing through incentives, workforce development, and strong signals to the market that the state is prepared to work closely with manufacturers.



PRIORITY SEGMENT 2:

Generation

Build an unrivaled environment for next-generation nuclear and attract off-takers willing to support new nuclear generation, including large-load users such as data centers and industrial facilities.



PRIORITY SEGMENT 3:

Fuel conversion and enrichment

Strengthen public understanding and confidence through targeted education, transparent engagement, and clear community benefits, while pursuing siting support, coordination, and targeted company and federal engagement to build a supportive ecosystem for fuel conversion and enrichment opportunities in Louisiana.

Why Nuclear, Why Louisiana, Why Now

Growing power demand across the United States is driving increased buildout of all forms of generation.

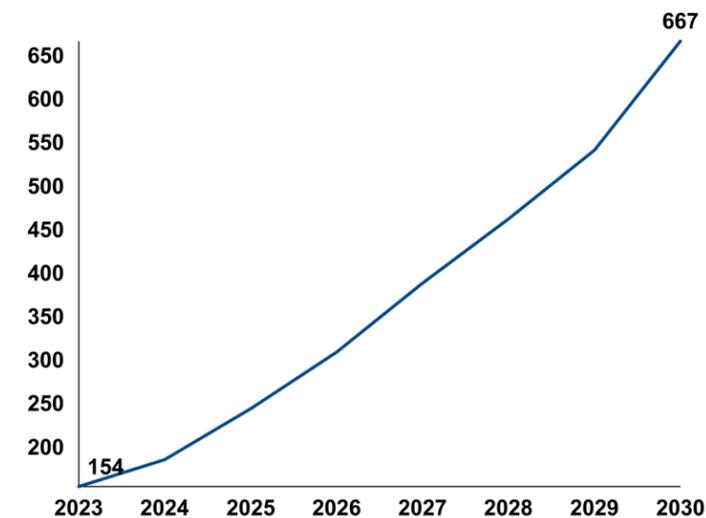
National policy changes, rising demand for firm power, and a wave of nuclear supply agreements are accelerating interest in nuclear by improving commercial certainty for new projects. For Louisiana, these trends create an emerging window of opportunity to expand the state's nuclear sector, diversify the economy, and support long-term industrial growth.

Nuclear is one part of Louisiana's broader energy growth agenda. The same forces shaping the state's energy strategy, including rising demand, industrial expansion, infrastructure needs, and competition for major investment, are also increasing the strategic relevance of nuclear in Louisiana.

POWER DEMAND AND MARKET SIGNALS

Data center growth is already accelerating new interest in nuclear energy. Recent announcements by major technology companies show that large customers are willing to pursue long-term nuclear arrangements when they need reliable, firm power at scale. Louisiana is already part of this trend, with Meta issuing an RFP in Louisiana for nuclear facilities generating between 1 and 4 GW of capacity for delivery in the early 2030s.

Projected U.S. Data Center Energy Consumption, TWh



SOURCE: McKinsey Energy Solutions Global Energy Perspective 2023; McKinsey datacenter demand model, press releases

RECENT NUCLEAR ANNOUNCEMENTS BY TECH PLAYERS

RELATED TO LOUISIANA



Meta released an RFP in Louisiana seeking a developer to permit, design, finance and construct nuclear facilities generating between 1-4 GW of capacity with delivery for early 2030s.



Amazon \$650M investment in 900 MW data center campus with power provided by nearby Susquehanna nuclear plant and ~\$500M in X-energy as the lead backer of their series C.



Microsoft PPA with Constellation to restore Three Mile Island Unit 1 to service. Microsoft will purchase power from the restarted nuclear plant over a period of 20 years. Constellation will invest \$1.6B to restart the reactor.



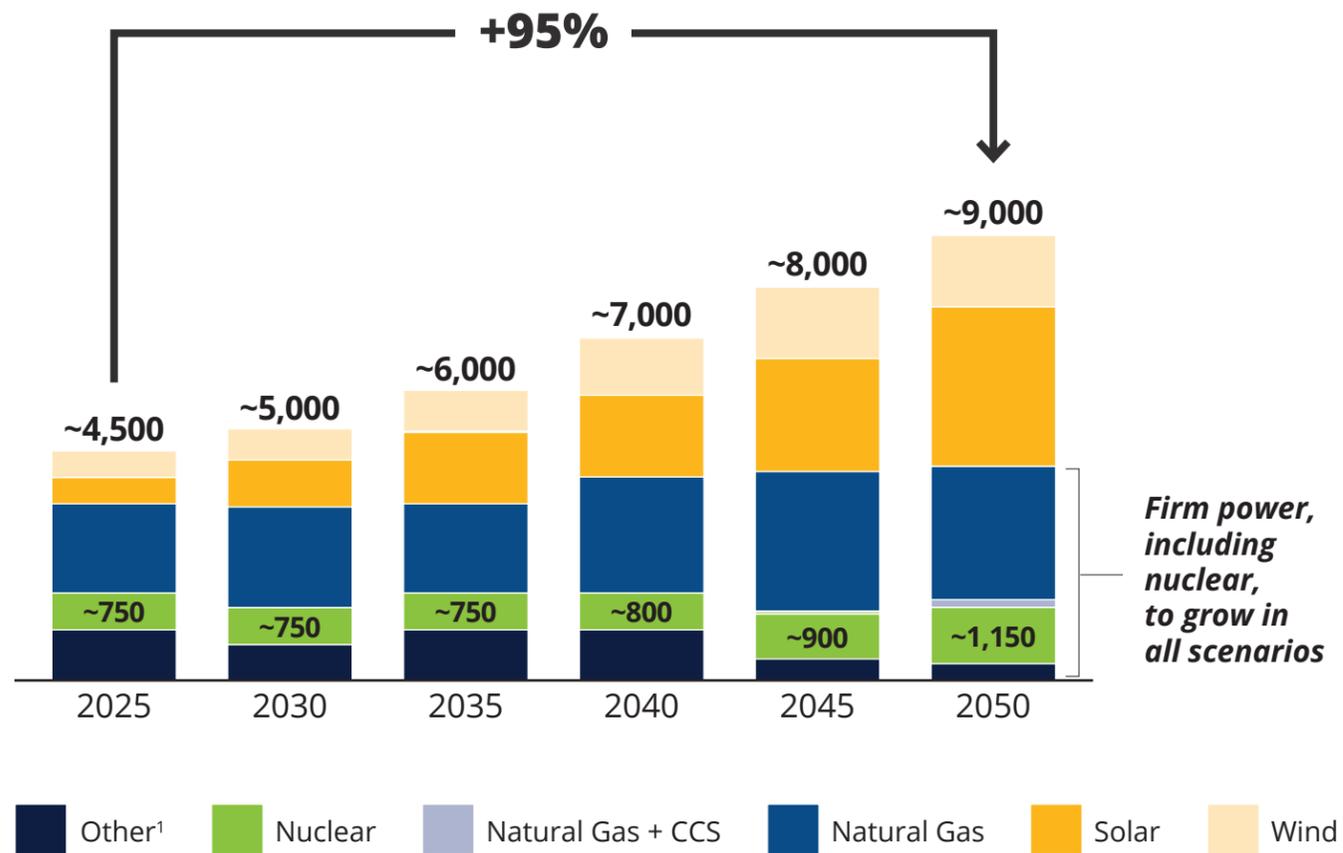
Google investment in Kairos Power for 500 MW of clean firm power to deploy a fleet of advanced nuclear power projects totaling 500 MW by 2035.

NATIONAL GENERATION OUTLOOK

To meet rising demand, U.S. power generation is expected to grow significantly through 2050. In that outlook, nuclear remains an important part of the long-term generation mix, supported by the need for dependable, large-scale power alongside continued expansion in natural gas and other sources. Nuclear generation is one of the top drivers of U.S. power generation, estimated to increase by ~50% through 2050. This reinforces that nuclear is not a niche market. It is part of the broader national response to long-term growth in electricity demand.

To meet demand, U.S. power generation is expected to grow 95% by 2050—supported partially by a ~50% increase in nuclear generation.

Projected U.S. Power Generation By Source, TWh



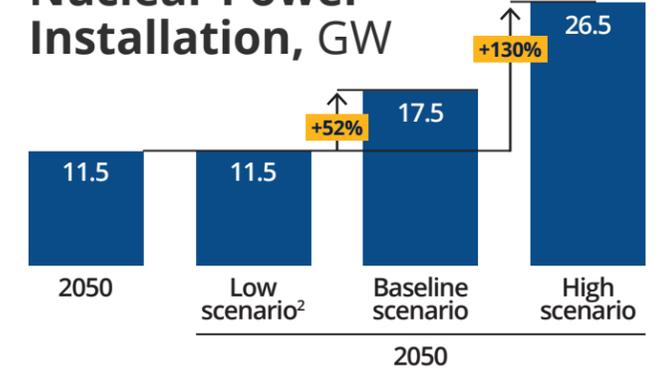
1. Other includes coal, geothermal, hydro, oil, and biofuel power generation

SOURCE: McKinsey Global Energy Perspective 2025

REGIONAL NUCLEAR BUILDOUT POTENTIAL

Within MISO, multiple scenarios point to nuclear growth over time, with the medium case reflecting meaningful expansion by 2050. Much of that projected growth is expected to occur after 2035, which gives Louisiana time to improve readiness now while positioning for a more competitive role in the next cycle of project development.

Projected MISO Nuclear Power Installation, GW

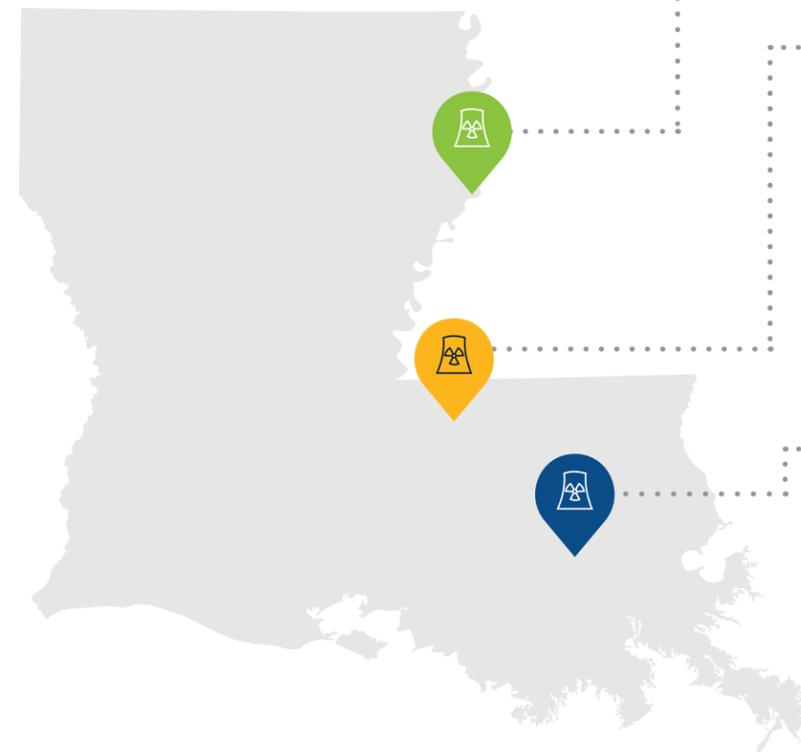


Low scenario = Slow Evolution, Medium scenario = Continued Momentum, High scenario = Sustainable Transformation

SOURCE: McKinsey Global Energy Perspective 2025

LOUISIANA'S EXISTING NUCLEAR FOOTPRINT

Louisiana is not starting from zero. The state already benefits from a robust operating nuclear footprint, regional workforce familiarity, tested emergency response systems, and communities with direct experience hosting nuclear assets. That foundation matters as Louisiana evaluates where and how to expand its position in the nuclear sector.



Grand Gulf Nuclear Station Mississippi-Louisiana region

A 1,400+ MW unit supplying power into Louisiana for decades. Grand Gulf supports a regional nuclear workforce community that spans state lines and reinforces the long-term stability and acceptance of nuclear operations in the region.

River Bend Station St. Francisville

A 974 MW plant operating since the 1980s in a supportive host community. River Bend anchors a local talent pipeline of operators, technicians, and engineers and offers a strong community partnership model for future nuclear siting in Louisiana.

Waterford 3 St. Charles Parish

A 1,100 MW plant serving one of Louisiana's major industrial regions. Waterford 3 demonstrates that nuclear can operate successfully not just in industrial hubs, but alongside residential communities.

Nuclear Within Louisiana's Broader Strategy



Nuclear serves as a natural extension of the state's Whole-of-Louisiana approach by aligning economic development, energy planning, infrastructure, workforce, permitting, regulatory coordination, and project delivery around a high-value growth opportunity.

It reinforces the state's broader economic and energy direction by supporting high-wage job creation, stronger regional competitiveness, growth and innovation in priority asset sectors, and greater national and global impact. The state's nuclear framework builds on Louisiana's established advantages in energy and process industries, logistics, industrial construction, research, workforce development, and coordinated state leadership, opening an additional path to compete and win in a growing market that is increasingly central to national energy security, industrial growth, and long-term competitiveness.

HOW NUCLEAR ELEVATES LOUISIANA'S ENERGY AND ECONOMIC DEVELOPMENT STRATEGY



Supports coordinated execution in a sector where certainty, readiness, and state alignment become competitive advantages.



Builds on priority asset sectors including energy, manufacturing, logistics, industrial operations, and process industries.



Expands access to high-wage career pathways that align with Louisiana's industrial, technical, and skilled trades workforce.



Supports growth and innovation through stronger links among industry, higher education, research, and workforce systems.



Creates growth opportunities for all eight regions through nuclear generation, manufacturing, logistics, and supporting infrastructure.



Reinforces Louisiana's competitive position in a sector with limited domestic supply chain capacity.

Framework Development & Stakeholder Input

HOW THE FRAMEWORK WAS DEVELOPED

This framework was developed through a structured, cross-agency process that combined market analysis, stakeholder input, strategic prioritization, and roadmap design to identify where Louisiana has near-term opportunities, where it can make selective long-term bets, and what strategic initiatives can improve the state's position over time.

- 1 Explore core fact base
- 2 Develop vision statement
- 3 Synthesize strategic vision
- 4 Codify initiative roadmap

Working Team

The development of Louisiana's nuclear framework reflects the benefits of Project Lightning Speed, which deploys a whole-of-government approach to break down silos, improve responsiveness, and align policy, permitting, infrastructure, workforce, and regulatory processes around a shared strategic objective. Applying that same model during the implementation of this framework will help Louisiana move faster, reduce uncertainty, and strengthen its competitive position in a sector where coordinated execution can shape investment outcomes.



DATA-DRIVEN ANALYSIS AND STAKEHOLDER ENGAGEMENT

The framework was informed by both quantitative analysis and robust stakeholder engagement. This combination of data and stakeholder input helped ground the framework in both market reality and Louisiana-specific conditions.

This process included broad macroeconomic assessment and competitive benchmarking, an analysis of workforce role and transferability trends, an assessment of nuclear “want-to-win” and “right-to-win” segments, and a regional asset and opportunity assessment.

Stakeholder engagement allowed for the capture and incorporation of regional nuance and on-the-ground realities. This was driven by one-on-one discussions with Louisiana stakeholders, interviews with nuclear industry experts, and targeted workshops.



STAKEHOLDER PERSPECTIVES ON LOUISIANA'S NUCLEAR OUTLOOK

Stakeholder input reinforced a clear message: Louisiana has real advantages, but success will depend on strategic messaging, coordinated stakeholder engagement, stronger public education, and a more deliberate statewide approach to aligning workforce, siting, supply chain readiness, and state-level support around the nuclear opportunity.

Louisiana's Strengths

- Skilled labor from Louisiana's manufacturing and chemical sectors brings valuable experience in advanced manufacturing and quality-controlled production environments.
- Louisiana Works, LCTCS, FastStart, and related workforce assets have a strong record of collaboration with industry.
- Existing nuclear operations support a highly skilled and specialized local and regional nuclear workforce base.
- Communities familiar with energy and industrial activity are generally accustomed to major infrastructure development.
- Louisiana has strong manufacturing adjacencies, port capacity, industrial infrastructure, and recent momentum in attracting new large-scale industry.
- Existing nuclear sites and tested emergency response systems create a meaningful foundation for future growth.
- Active government support for nuclear development can drive confidence and capital for nuclear development.

Opportunities For Enhanced Competitiveness

- Louisiana needs more proactive community engagement and public education around advanced nuclear technologies.
- Public misconceptions about nuclear safety and waste could create hesitation in some communities.
- Louisiana has limited recent experience with new nuclear construction and limited nuclear-specific education programming.
- Few in-state NQA-1-certified suppliers currently participate in the nuclear value chain.
- Siting large projects may be complicated by land ownership patterns and site aggregation challenges.
- Louisiana lacks a fully centralized state support model for nuclear growth comparable to more advanced peer states.

These findings informed the state's focus on leadership, regulation, infrastructure, workforce, and local partnership.

Stakeholder Insights Consistently Cluster Around Six Themes Critical to Louisiana's Nuclear Future



Skilled Workforce

Strong construction and fabrication base capable of producing nuclear components with minimal retooling



Industrial Capacity

Existing heavy industry and modular construction expertise make Louisiana well suited for supply chain activities



Institutional Partnerships

Active collaboration with Idaho National Lab and LSU supports research and innovation



Regulatory Readiness

Recent legislation and process reform removes barriers and signals government's openness to nuclear



Positive Public Outlook

Communities are generally supportive of nuclear and familiar with large-scale industrial projects



Energy Designation

Many sites already qualify for “energy community” status, providing tax and incentive eligibility

Priority Nuclear Opportunities



The Louisiana Nuclear Strategic Framework achieves its mission and vision through three priority value chain segments.

Statewide Nuclear Priorities



Foster an ecosystem of **in-state manufacturing** for emerging nuclear component opportunities



Position Louisiana to participate in **emerging opportunities** from nuclear-powered industrial growth



Explore **nuclear fuel expansion** supported by workforce and industry synergies

LOUISIANA'S RIGHT TO WIN

Louisiana's right to compete and win is supported by emerging policy momentum, strong infrastructure, workforce depth, and relatively positive public familiarity with nuclear.

Regulation and permitting

Louisiana has already taken legislative and executive action to improve readiness for advanced nuclear development. Recent policy activity from several different authorities has addressed exploratory proceedings, permitting modernization, strategic framework development, and expedited pathways for advanced nuclear projects. These efforts aim to reduce regulatory friction, facilitating new project development.

Infrastructure and logistics

The state offers a competitive cost environment relative to peer states across several factors that matter to industrial development. This includes favorable positioning in unit labor, commercial and industrial electricity prices, and tax policy. The state's leading deepwater ports, comprehensive Class I rail network coverage, interstate system, and industrial corridors support movement of large materials and components.



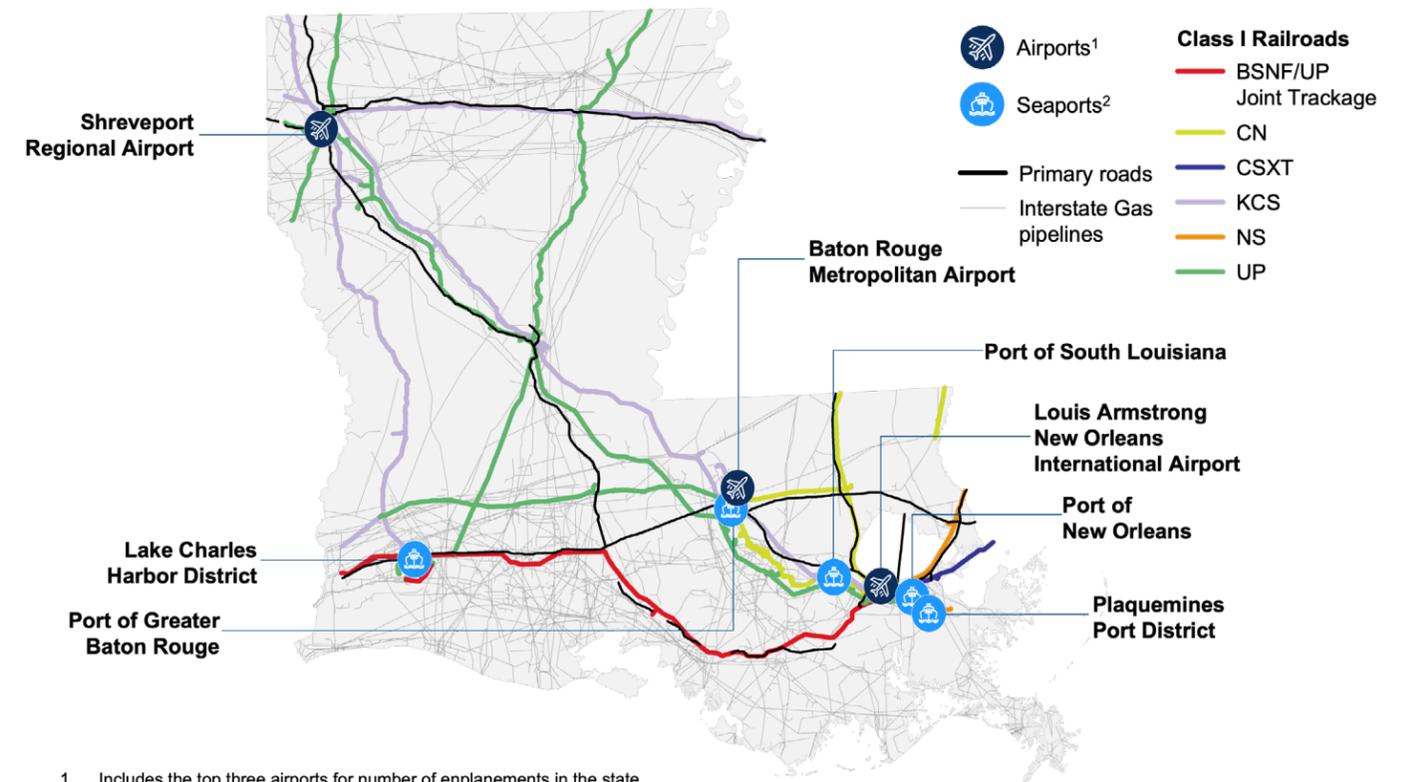
Three Types of Actions Taken to Accelerate Nuclear Across Peer States

✓ Active
⊙ In-work
⊗ None

	Strategic			Regulatory		Financial	
	State Nuclear Office	Strategic Framework	Multi-state Coordination	Fast Track Permitting	Does Not Require State EPA Review	Siting Cost Recovery Mechanism	Dedicated Nuclear Fund
Louisiana	⊗	⊙	⊗	⊙	✓	✓	⊗
Texas	✓	✓	⊗	✓	✓	✓	✓
Virginia	✓	✓	✓	⊗	✓	✓	✓
Tennessee	✓	⊗	✓	⊗	✓	⊙	✓
Wyoming	⊗	✓	✓	⊙	✓	✓	✓
New York	✓	✓	✓	⊗	⊗	⊗	✓
Ohio	✓	⊗	⊗	⊗	✓	⊗	⊗

SOURCE: NARUC-NASEO Advanced Nuclear State Action Tracker

Louisiana's Transport Infrastructure Facilitates Easy Movement of Goods and Materials



1. Includes the top three airports for number of enplanements in the state
 2. Includes ports that fall in the top 50 nationally for tonnage

Source: Moody's Analytics; US Energy Information Administration; US Bureau of Transportation Statistics; LED website

Roughly 20% of Louisiana's Workforce Currently Fills a Role Adjacent to Nuclear Generation

SOURCE: Lightcast

Occupational Categories Required for Nuclear Generation Value Chain	Total Aligned Louisiana Jobs K, 2024	Growth in Aligned Louisiana Job Postings CAGR, 2019-2024	Postings Fill Rate 2024
Manufacturing	143	4.2%	> 90%
Construction	216	3.8%	> 90%
Operations	125	4.0%	> 90%
Conversion	20	1.2%	> 90%
Enrichment	19	1.5%	> 90%
Fabrication	28	1.1%	> 90%
Storage	15	3.2%	> 90%

Workforce and industrial capability

Louisiana's production workforce includes occupations directly relevant to fabrication, assembly, inspection, operations, and process-intensive industrial work. Existing strengths in energy, advanced manufacturing, construction, and process industries create strong labor transferability.

Local partnerships

Louisiana compares favorably to peers on positive public sentiment toward nuclear. Existing community familiarity with River Bend and Waterford 3 provides a stronger foundation than many states possess, although future success will still require proactive engagement and education.

Louisiana residents have voiced their support for the use of nuclear power

"Companies are also engaging in small nuclear reactors ... to help reduce emissions without causing a slowdown in production ... All these industries will create good jobs and help the Louisiana economy ..."

— Letter to the Editor, Rapides Parish Journal

"What we need is leadership and commitment to an 'all of the above' strategy that includes not just traditional generation, but also solar, wind, advanced nuclear, ... and other emerging technologies."

— Letter to the Editor, Louisiana Illuminator

EVALUATION ACROSS THE NUCLEAR VALUE CHAIN

Louisiana's evaluation across nuclear value chain segments shows the strongest current opportunity in manufacturing and conversion, with generation and enrichment representing selective strategic bets.

The state does not currently have a compelling path in every segment. Mining is not favored by Louisiana's geology, trading offers limited localized economic benefit, and other segments vary in attractiveness and readiness. The framework therefore prioritizes the areas where Louisiana can generate real economic value and build long-term competitive advantage.



PRIORITY VALUE CHAIN SEGMENTS

Louisiana's priority nuclear opportunity areas are manufacturing, generation, and fuel conversion and enrichment.

These segments were selected based on rigorous data analysis and assessment. They reflect areas where Louisiana is best positioned to capitalize on potential investments tied to high-wage job growth, and where the state has an existing employment base and transferable skills that increase attractiveness and ease of entry. The selection also considers areas of unmet need, creating space for entry, as well as segments with the broadest market reach, expanding end-user opportunities.

There is also meaningful opportunity in construction and commissioning, including the building or refurbishment of nuclear power reactors. Louisiana is well positioned to compete in this area, supported by eight of the top 20 industrial contractors in the country that construct, maintain, and operate facilities in the state. While Louisiana has strong potential to attract investment and capitalize on job creation, success will depend on deliberate coordination across local partners, workforce systems, and regional economic development organizations, along with focused activation of the levers that enhance competitiveness and execution.



PRIORITY SEGMENT 1:

Manufacturing

Grow an ecosystem that supports nuclear manufacturing through incentives, workforce development, and strong signals to the market that the state is prepared to work closely with manufacturers.



PRIORITY SEGMENT 2:

Generation

Build an unrivaled environment for next-generation nuclear and attract off-takers willing to support new nuclear generation, including large-load users such as data centers and industrial facilities.



PRIORITY SEGMENT 3:

Fuel conversion and enrichment

Strengthen public understanding and confidence through targeted education, transparent engagement, and clear community benefits, while pursuing siting support, coordination, and targeted company and federal engagement to build a supportive ecosystem for fuel conversion and enrichment opportunities in Louisiana.



PRIORITY SEGMENT 1:

Manufacturing

Manufacturing is one of Louisiana’s strongest near-term opportunity areas.

A strong foundation is already in place with existing local companies well positioned to expand into nuclear and a business climate already well-equipped to support new manufacturing investment and leverage federal funding. The state’s ports, fabrication base, and industrial contractor ecosystem strengthen its ability to compete in these areas.

Louisiana’s Primary Pathways to Building Out Nuclear Design and Manufacturing:

- Asset Expansion
- New Industry Attraction (Big Bets)
- New Industry Attraction (Opportunistic)

ASSET EXPANSION

Support and incentivize Louisiana-based manufacturers that already produce relevant components and could expand into nuclear applications.

Key Components:

- Pipes and valves
- Feed water systems
- Modular assembly
- Main condenser
- Electrical systems
- Emergency diesel generation

NEW INDUSTRY ATTRACTION (BIG BETS)

Attract major nuclear component manufacturers that do not yet have a large in-state presence, especially where federal priorities or reshoring efforts improve the business case. There is a strong pathway for success, dependent on the state leveraging its existing assets and logistical strengths to attract new investment across the nuclear supply chain.

Key Components:

- Nuclear concrete
- Instrumentation
- Reactor coolant pumps
- Reactivity control systems
- Pressurizers

NEW INDUSTRY ATTRACTION (OPPORTUNISTIC)

Pursue targeted opportunities where Louisiana’s logistics, industrial base, and workforce can support selective component expansion.

Key Components:

- Main turbines
- Main generators
- Reactor vessels
- Steam generators
- Primary containment

KEY INSIGHTS

Louisiana has a right-to-win in nuclear manufacturing.

The existing manufacturing presence, especially in chemicals, provides adjacencies to serve as a backbone for a nuclear supply chain, and skilled labor from the state’s manufacturing sector lends valuable experience in advanced manufacturing and quality-controlled production environment, creating a strong business ecosystem.



PRIORITY SEGMENT 2:

Generation

Generation opportunities in Louisiana are closely tied to existing demand.

Generation opportunities in Louisiana are closely tied to existing demand. Key end-use sectors include:



ENERGY AND PROCESS INDUSTRIES

- Hydrogen and ammonia
- Petrochemicals
- Refineries



AGRIBUSINESS

- Fertilizer manufacturing



DEFENSE AND AEROSPACE

- Military installations



PROFESSIONAL SERVICES

- Data centers

The strongest potential near-term demand signals appear where customers value firm, resilient power and may be willing to pay a premium. Data centers have demonstrated especially strong willingness to secure dependable power at scale. Industrial

users may also have interest in technologies that can provide electricity and steam, while uprates at existing facilities could offer a more limited near-term pathway to additional generation in Louisiana.

KEY INSIGHTS

Military installations may be willing to pay a premium for nuclear power specifically designed to provide resilient power to meet mission-critical on-site energy demands.

Industrial offtakers may have an interest in small modular reactors that can deliver steam, but often operate in commodity markets limiting ability to pay a premium for energy.

Data centers have demonstrated a strong willingness to pay for low carbon power (e.g., \$110-130/ MWh), especially when power can be delivered quickly.

Uprates could be attractive as a near term—but limited—pathway to increase Louisiana nuclear generation.



Projections indicate potential domestic and global supply gaps in converted and enriched uranium over time, and U.S. nuclear generation remains meaningfully reliant on foreign producers. These dynamics create an opening for states that can combine industrial capability, logistics, policy readiness, and strong federal alignment.

FUEL CONVERSION

Louisiana may have a clearer pathway in conversion because of industrial adjacency, favorable regulatory classification, and broader business environment strengths.

Key advantages include:

- Process overlap with existing chemical operations, including fluorination, halogenation, mineral refinement, and chemical transport
- Workforce transferability from Louisiana’s chemical and industrial sectors
- Supply chain readiness supported by the state’s broader industrial base

- Regulatory treatment as a source material process under 10 CFR Parts 40 and 70, which could help accelerate permitting relative to other parts of the nuclear value chain
- State experience with complex chemical operations, which could support more efficient state-level permitting and oversight

Taken together, these factors suggest Louisiana could offer a more practical and competitive environment for fuel conversion development than many peer states.

FUEL ENRICHMENT

Enrichment is a more complex opportunity, but Louisiana’s broader nuclear-friendly posture, skilled industrial workforce, and ability to coordinate siting, federal engagement, and local partnership justify continued strategic positioning. Process similarities to gas compression and advanced manufacturing could improve access to qualified labor, although the technical requirements associated with centrifuge operations and nuclear quality assurance would expand training needs and require more specialized workforce development.

PRIORITY SEGMENT 3:

Fuel Conversion and Enrichment

Conversion and enrichment represent selective but meaningful opportunities for Louisiana.

KEY INSIGHTS

Global demands for converted and enriched Uranium are projected to exceed supply capacity between 2030 and 2035.

U.S. nuclear generation is reliant on foreign producers, with domestic producers only supplying about ~1/3 of current demand for nuclear fuel.

Demand for UF6 is technology agnostic, meaning conversion does not vary based on fuel type or use case.

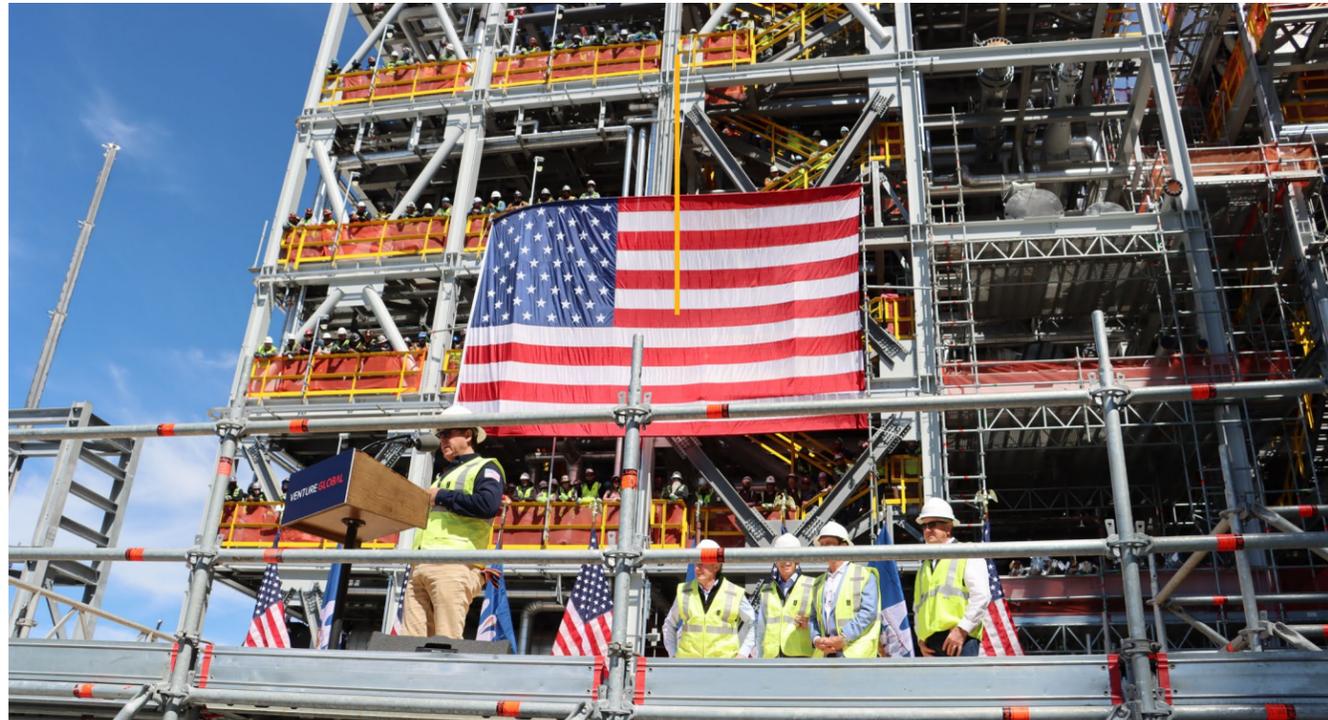
Nuclear Strategic Framework



Louisiana's Nuclear Strategic Framework emerged from a structured evaluation of the nuclear value chain that combined market attractiveness, Louisiana's existing strengths, stakeholder input, and the state's ability to improve competitiveness through coordinated action.

This process helped establish a clear mission, vision, and set of statewide priorities for nuclear, while also identifying the value chain segments where Louisiana has the strongest opportunity to compete, attract investment, and build long-term advantage.

The result is a focused strategy centered on manufacturing, generation, fuel conversion, and fuel enrichment, supported by the actions needed to strengthen Louisiana's position in each.



MISSION

Empowering Louisiana’s people through energy dominance, robust job creation, and industrial sector growth.

VISION

Build a diversified economic future where expanding Louisiana’s nuclear sector strengthens the state’s overall energy portfolio, enables key industries to thrive, and positions Louisiana as a leader in the nuclear supply chain, driving robust job creation and GDP growth over the next decade.

STATEWIDE NUCLEAR PRIORITIES

- Foster an ecosystem of in-state manufacturing for emerging nuclear component opportunities.
- Position Louisiana to participate in emerging opportunities from nuclear-powered industrial growth.
- Explore nuclear fuel expansion supported by workforce and industry synergies.

WHERE LOUISIANA IS BEST POSITIONED TO COMPETE AND WIN

Priority value chain segments	 Manufacturing	 Generation	 Fuel conversion	 Fuel enrichment
Value chain reasons for attractiveness	<ul style="list-style-type: none"> ✓ Opportunity for existing LA companies to expand into nuclear ✓ Strong business ecosystem to attract new manufacturing companies and federal funding 	<ul style="list-style-type: none"> ✓ Opportunities to expand existing facilities ✓ Existing in-state energy users interested in nuclear ✓ Comparative attractiveness to new data centers 	<ul style="list-style-type: none"> ✓ Domestic push to reshore ✓ Domestic supply gap projected ✓ Strong LA “right-to-win” for conversion 	<ul style="list-style-type: none"> ✓ Domestic push to reshore ✓ Domestic supply gap projected ✓ LA “right-to-win” for enrichment
Key actions to be competitive	<ol style="list-style-type: none"> 1. Build an ecosystem that supports nuclear manufacturing (e.g., incentives, workforce) 2. Signal to the nuclear industry that LA is willing to work closely with manufacturers 	<ol style="list-style-type: none"> 1. Build an unrivaled environment for next-generation nuclear 2. Attract off-takers to LA that are willing to pay a premium for new nuclear (e.g., data centers) 	<ol style="list-style-type: none"> 1. Strengthen existing public acceptance through targeted education 2. Explore interest from companies and the federal government on LA conversion opportunity 3. Build an ecosystem that entices conversion companies to locate in LA 	<ol style="list-style-type: none"> 1. Earn public confidence through education & community benefits 2. Pursue siting support, coordination, and targeted federal support to attract fuel enrichment companies

The framework focuses Louisiana’s efforts on the segments where market demand, the state’s competitive strengths, and coordinated public action align most clearly. By concentrating on these areas, Louisiana can direct its resources where they are most likely to strengthen competitiveness, attract investment, and generate long-term economic value for the state.

Roadmap for Action



Louisiana has identified an initial set of statewide initiatives to strengthen competitiveness across its priority nuclear opportunity areas and begin translating strategy into execution.

These initiatives are intended to be operationalized through a Whole-of-Louisiana approach over the coming months and years, with continued coordination across state agencies, regional and local partners, workforce and higher education institutions, and the private sector. As implementation advances, the state will remain flexible and responsive to partner input, business prospect needs, technology developments, and changing market conditions so efforts stay aligned with the most credible opportunities.

Together, these initiatives provide Louisiana with an initial action framework to support manufacturing, generation, fuel conversion, and fuel enrichment opportunities over time.



INITIAL STATEWIDE INITIATIVES ACROSS PRIORITY OPPORTUNITY AREAS

- ✔ Critical initiatives
- ✔ Relevant initiatives¹

Priority value chain segments	Key actions to be competitive	 Manufacturing	 Generation	 Fuel conversion	 Fuel enrichment
			<ol style="list-style-type: none"> Build an ecosystem that supports nuclear mfg. (e.g., incentives, workforce) Signal to the nuclear industry that LA is willing to work closely with manufacturers 	<ol style="list-style-type: none"> Showcase LA's right-to-win nuclear generation (e.g., reg. support, site development incentives) Engage & attract nuclear power off-takers 	<ol style="list-style-type: none"> Strengthen public acceptance through targeted education Explore interest from companies and federal govt on LA conversion opportunity Build supportive ecosystem
Statewide Nuclear Leadership & Coordination	Louisiana's Nuclear "Front Door"	✔	✔		
	Federal government grants & outreach	✔		✔	✔
Nuclear Ready Regulatory Environment	Siting & permitting playbook	✔	✔	✔	✔
	Engagement with nuclear regulators		✔	✔	
Nuclear Infrastructure & Corridors	Nuclear investment corridors	✔	✔	✔	✔
	Interstate nuclear coordination	✔	✔	✔	✔
Nuclear Jobs & Economic Growth Engine	Industry convening & engagement	✔	✔	✔	✔
	Investment & incentive toolkit	✔	✔		
	Workforce talent & training backbone	✔	✔	✔	✔
Local Partnerships	Education & awareness campaign	✔	✔	✔	✔
	Community benefits protocol	✔	✔	✔	✔

¹ While all initiatives could benefit all value chain segments to some extent, the blue checkmarks are meant to illustrate which initiatives are directly relevant to the theory of change



THE PATH FORWARD

Louisiana enters the next phase of its nuclear opportunity with the kind of unprecedented, Whole-of-Louisiana momentum now shaping the state's broader energy and economic future.

That momentum reflects stronger alignment across state leadership, regional partners, industry, and supporting institutions around a shared goal: positioning Louisiana to compete for the next generation of energy, industrial, and infrastructure investment.

The state is committed to supporting companies, institutions, and partners as they evaluate and advance nuclear-related opportunities in Louisiana. From site readiness and infrastructure planning to workforce development, regulatory coordination, and industry engagement, Louisiana is focused on creating the conditions that allow complex projects to move forward with greater clarity, confidence, and speed.

This framework reflects a coordinated effort across state agencies, regional economic development organizations, utilities, higher education and workforce partners, local communities, and industry stakeholders to align where interests intersect and strengthen Louisiana's broader energy and economic objectives. Louisiana's success in nuclear will depend not only on technical readiness and market opportunity, but also on close coordination with communities and stakeholders, clear communication, and partnerships that build trust over time.

Louisiana is positioned to pursue near-term opportunities across manufacturing, generation, and fuel-related segments, while building a stronger platform for long-term leadership in the nuclear sector. By aligning statewide priorities with regional strengths and advancing targeted actions that improve competitiveness over time, the state can expand its role in a sector that is increasingly important to U.S. energy security, industrial growth, and long-term economic strength.

The path forward is not a single project or decision, but the continuation of a coordinated statewide effort. Louisiana will continue refining opportunities, aligning assets, and advancing targeted actions that strengthen its competitive position. With clear priorities, strong partners, and a growing foundation for execution, Louisiana stands ready to compete for nuclear investment in a way that supports communities, strengthens industry, and advances the state's broader energy and economic future.

