

SOUTH CAROLINA

Nuclear Industry Roadmap

From Origin to Action: What South Carolina Must Do to Lead

Introduction | September 2026

Prepared from the SC Nuclear Roadmap

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The coalition behind the Roadmap and South Carolina's nuclear partnership

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Innovation & Connectivity Assets

SRNL, the Savannah River Site, and South Carolina's regional and global nuclear partnerships

WHERE THIS CAME FROM

A Message From South Carolina's Nuclear Partnership

“South Carolina has been a nuclear leader for decades and now stands ready to spearhead the nation into its next nuclear generation.”

This Roadmap is a deliberate, public commitment to translating South Carolina's existing nuclear depth into sustained economic and industrial leadership across the full value chain, from raw fuel input, through generation, to the responsible long-term stewardship of used nuclear material. It was developed through a partnership of the state's leading nuclear institutions and is supported by a U.S. Department of Energy grant focused on collaborative-based siting for spent nuclear fuel.

PARTNERS & CONTRIBUTORS

SRS Community Reuse Organization (SRSCRO)

Regional economic development organization focused on workforce development and community engagement around the Savannah River Site. Managed development of this Roadmap.

Governor's Nuclear Advisory Council (GNAC)

South Carolina's official nuclear advisory body, housed within SC Commerce's SC NEXUS program. Act 41 (2025) broadened its mandate to lead the state's nuclear strategy.

Palmetto Nuclear Coalition (PNC)

Industry-led coalition of utilities, suppliers, and businesses advancing nuclear energy and economic development across South Carolina.

KEY SOUTH CAROLINA ASSET

SC NEXUS

South Carolina's federally designated Regional Technology and Innovation Hub, strengthening the state's ability to advance energy innovation and attract investment.

Why Now

NATIONAL NUCLEAR MOMENTUM

100 GW



400 GW

U.S. federal target for domestic nuclear generating capacity by 2050

4

Federal Executive Orders advancing
Nuclear in the United States

\$17.5 B

in DOE loan financing to accelerate 10 new
large-scale AP1000 reactors nationwide

\$2.2 T

in total nuclear investment projected
through 2050

\$3.0 B

Private capital raised by nuclear startups
in 2025

\$2.7 B

Committed to strengthening domestic
uranium enrichment capacity

\$80.0 B

Committed industry-wide to finance new
Westinghouse AP-1000 reactors

The next generation of U.S. nuclear has moved from conception to reality.

South Carolina Already Has Most of the Nuclear Fuel Cycle In-State

#3

Largest nuclear producer in the U.S.

54%

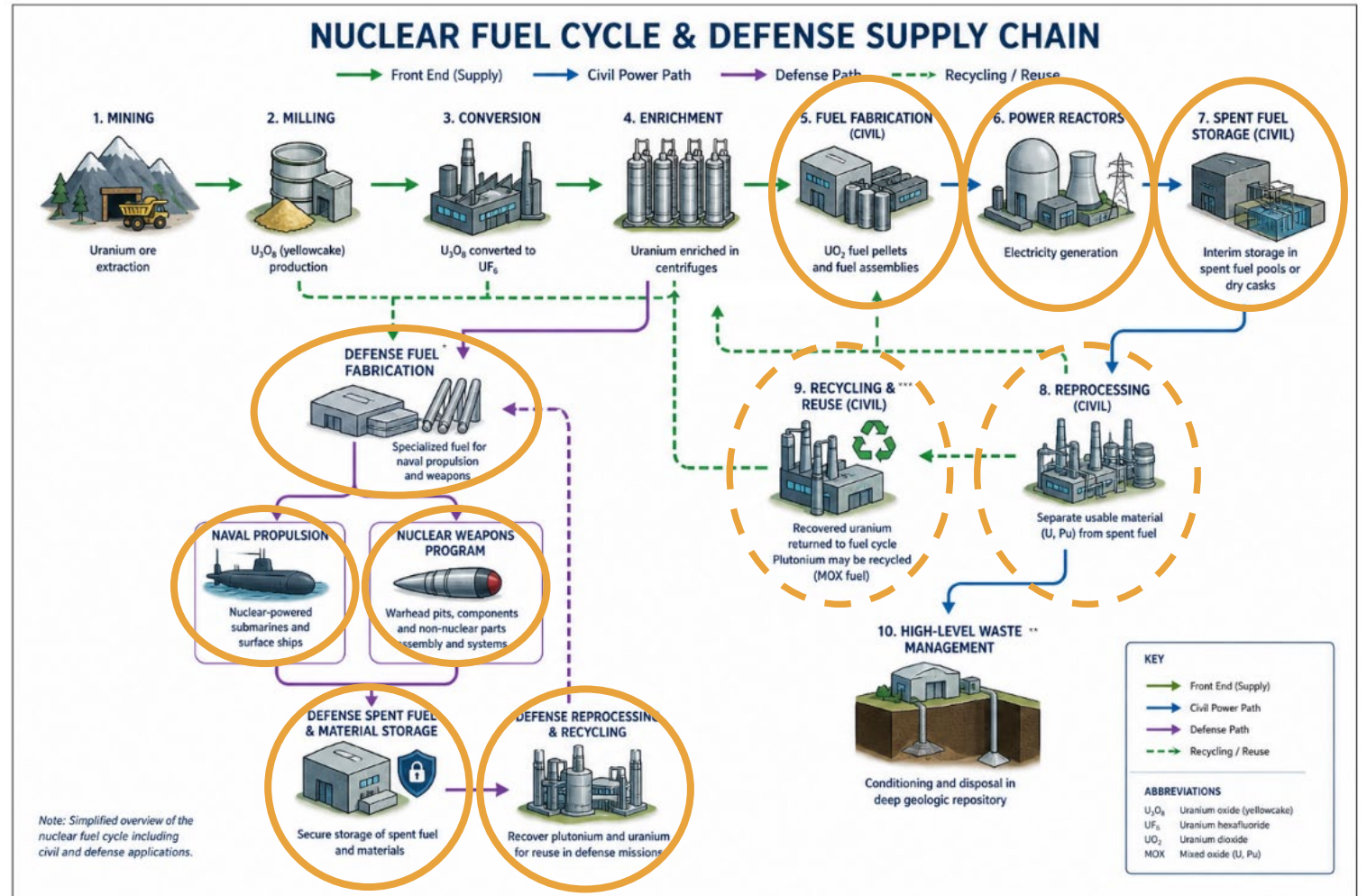
Share of state electricity from nuclear

\$11.1B

Annual nuclear economic impact

1 of 1

Only chemical separations facility of its kind in the U.S.



○ South Carolina has this today

○ Emerging SC capability (2028+)

South Carolina's Reach Extends Far Beyond Its Borders

SOUTH CAROLINA: A NUCLEAR CONNECTIVITY HUB

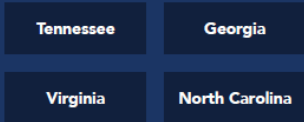
South Carolina's nuclear partnerships expand expertise, infrastructure access, workforce capacity, and global market reach.

INTERNATIONAL EXPANSION LINKS



REGIONAL COLLABORATION

SENAC regional collaboration:



ATLANTIC COMPACT

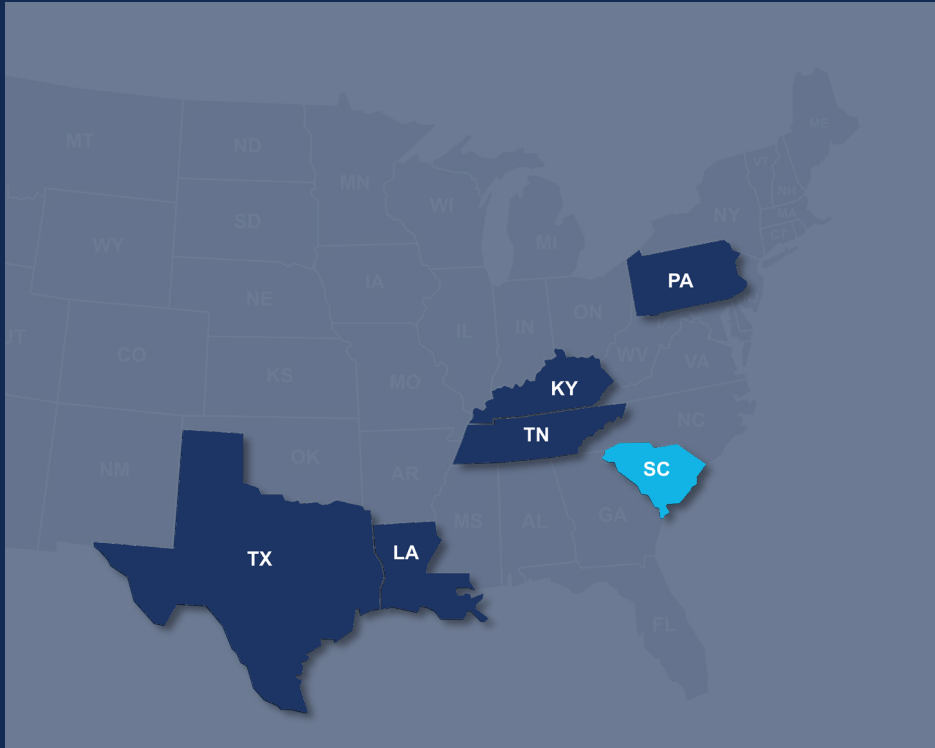
Atlantic Compact / Barnwell Waste Management Services



FEDERAL & INNOVATION PARTNERS



South Carolina Has the Assets.



WE Must Now Build the Delivery Capacity.

STRATEGIC PRIORITIES

Fuel Cycle Leadership

Accelerating New Generation
and the Nuclear Supply Chain

Strengthening Defense Nuclear

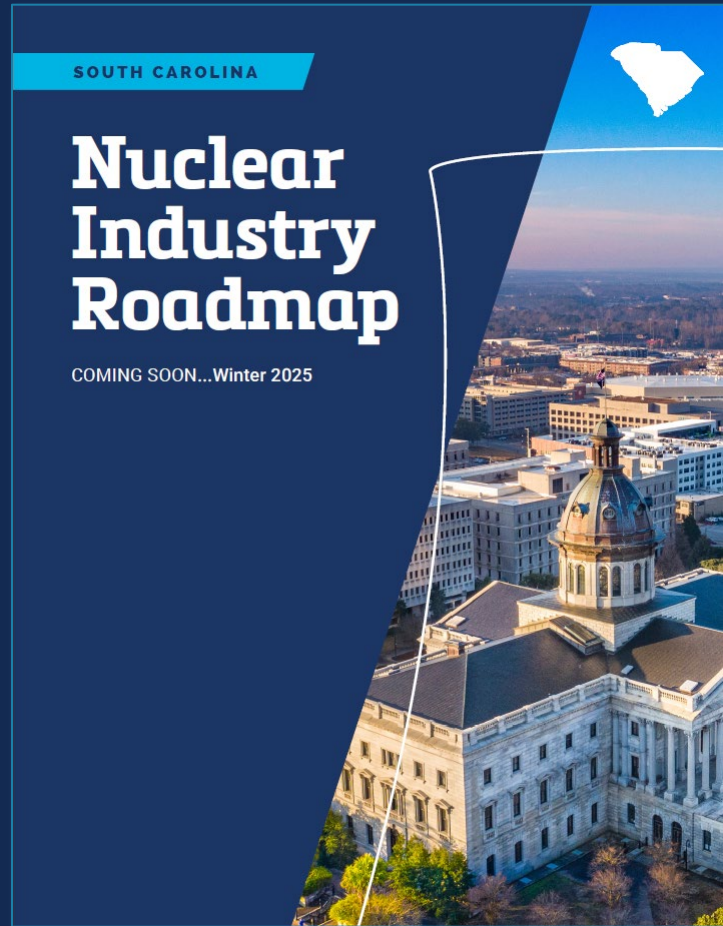
Workforce Development

But peer states are moving faster on governance: Tennessee has a full-time nuclear office and \$95M committed (attracting \$7.3B in private capital); Texas has a \$350M fund; Louisiana published a statewide strategy in 2026.

South Carolina has the policy foundation but requires the delivery capacity they paired it with.

SOUTH CAROLINA

SC Nuclear Roadmap Release



Prepared from the SC Nuclear Roadmap