



RTS | Nuclear Energy + AI Newsletter

The premier AI-first consultancy dedicated to the nuclear sector

The past two weeks have reinforced a shift that has been building for months. AI growth is reshaping power demand across every major data-center operator. The federal government launched the Genesis Mission to accelerate national AI research and expand access to high-value datasets. Cyber threats are evolving faster than traditional defenses. At the same time, nuclear developers and utilities are turning to AI to manage schedule pressure, documentation requirements, and workforce gaps that cannot be solved with legacy processes.

At Raisun, we built our firm for this exact moment. We are an AI native consultancy that partners with nuclear operators, vendors, EPC firms, regulators, and research organizations that need to move faster and with confidence. After this introduction, we will refer to ourselves as RTS because that is how our clients know us. Our team has worked inside plants, outage cycles, training programs, and supply chains. We understand what this industry requires for safe and compliant AI adoption.

The future of nuclear will not be delivered through manual, paper-based workflows. It will be delivered with digitally enabled teams, AI-assisted work processes, and nuclear-specific governance models that keep safety and compliance at the center. The stories in this newsletter reflect the speed of change and the urgency for nuclear organizations to modernize.

If you are building your 2026 strategy, now is the time to align on an AI plan that strengthens your people, accelerates your processes, and supports reliable operations.

— The Founders

Ready to talk, let's meet.

Momentum in the Field: Where nuclear and AI are evolving together

AI Demand Supercharges the US Nuclear Resurgence

Forbes reports more than four billion dollars of new investment flowing to advanced-reactor startups.

Companies like Aalo Atomics, Kairos Power, and Oklo are accelerating microreactor and molten-salt designs to meet the needs of AI-driven data centers.

Raisun Take:
AI demand is compressing timelines and raising expectations for the entire nuclear sector. Operators and developers need AI-assisted licensing workflows, automated documentation, and predictive construction tools. The teams that modernize now will be prepared for the scale and speed the grid requires.

Read the article

Genesis Mission Launches to Accelerate AI Research

The Administration launched the Genesis Mission to expand compute access, enhance dataset availability, and accelerate national AI research.

Raisun Take:
AI now has national strategic importance. Nuclear must be represented in this effort because AI models, analytical engines, digital twins, and scientific simulations all depend on stable, carbon-free baseload energy. RTS is advising partners on how nuclear should position itself within federal AI ecosystems.

Read the article

AI and Cyber Threats Reshape Infrastructure Security

Security experts report that adversaries are using AI-accelerated tools to target industrial control systems across multiple sectors.

Raisun Take:
Cyber resilience is now inseparable from nuclear operations. AI deployments must incorporate governance, model traceability, controlled data sources, and continuous validation. RTS supports clients with AI strategies that integrate cyber oversight from the start.

Download the Report

Can AI Deliver Nuclear Projects on Time and on Budget

ANS highlights the growing use of AI in nuclear construction by Westinghouse, Aalo Atomics, and Microsoft. The focus is on improved scheduling, permitting acceleration, and risk reduction.

Raisun Take:
Schedule certainty is one of a hardest challenges. AI-enabled documentation, predictive scheduling systems, and integrated risk models are demonstrating measurable improvements. RTS sees this firsthand in supply-chain modernization and construction-readiness programs.

Download the Report

How Universities Can Support the GenAI Era of Nuclear Energy

University leaders describe how academic programs can support the next generation of nuclear workers using AI-driven modeling, safeguards analysis, and reactor simulation.

Raisun Take:
University partnerships will play an important role in preparing the workforce for AI-enabled nuclear operations. Research in digital twins, materials modeling, safeguards automation, and inspection simulation will shape the skill sets needed for the next decade. RTS welcomes research collaborations that produce practical and operational results.

Download the Report

New RTS Research Brief Strengthening the Nuclear Supply Chain with AI Intelligence

Our newest RTS Research Brief outlines how nuclear supply chains must evolve to support advanced-reactor programs and AI-powered energy campuses. According to the Executive Summary on page 2, traditional NQA-1 vendor frameworks and manual procurement reviews cannot keep pace with accelerated build schedules. AI-enabled supply-chain intelligence provides a practical and safe path to maintain compliance while increasing speed.

Key insights include

- Automated vendor-qualification and scoring using natural-language processing
- Predictive risk modeling for fabrication, logistics, and long-lead components
- AI-based compliance workflows for Part 810, EAR, and export controls
- Field-first training and workforce enablement for global supplier networks

The case study on page 8 highlights how the Fermi America campus is using coordinated AI systems to align ASME Section III documentation, Commercial Grade Dedication plans, and inspection schedules across multiple vendors.

The research shows that nuclear cannot scale on time or on budget without AI-assisted supply-chain modernization. RTS is the premier AI-first consultancy capable of designing these models with nuclear-grade rigor and compliance.

Download the Report

The RTS View

AI is reshaping energy demand, workforce expectations, risk profiles, and schedule assumptions across the entire sector. The evolution is not theoretical. It is already influencing how organizations design, operate, train, and procure. The stories in this newsletter point in one direction. AI is now an operational requirement for nuclear, and the teams that prepare early will lead the next decade of growth.

RTS is committed to supporting organizations with strategies that are safe, compliant, and designed for nuclear operations.

Schedule a meeting, today!



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