



**ADVANCED NUCLEAR
ADVISORS**

General Capabilities Presentation



Simplifying Complexity

We believe that every project, no matter how complex, should be made easy for our clients. Our goal is to simplify the nuclear project development process and provide a roadmap for achieving a successful outcomes.

Who We Are

We jump start new nuclear project development:

- ANA consists of a team of highly qualified and experienced individuals who have worked together and have comprehensive expertise in all aspects of nuclear energy.
- We have broad expertise in new nuclear provides extreme value to clients during project setup, resulting in lower risk by avoiding issues and gaps in the planning phase.
- We know the near-term critical path work that needs to be done well on new nuclear projects: Only 10% - 15% of the cost, but roughly 50% of the schedule.
- We know who to call, who to contract with, what terms and conditions are important to enable effective nuclear licensing.



ANA Core Competencies

Extensive experience across the team includes:

- Site Suitability Assessment
- Site Selection and Site Characterization
- Proposal Development for Grants and Loans
- Nuclear Technology Evaluation
- Project Management
- Risk Management
- Manufacturing and Supply Chain Management
- Site Engineering and Licensing
- Nuclear Plant Operations, Maintenance, and Training
- Management Consulting
- Stakeholder Engagement and Support

Our Services



- ANA provides expert consultation across the full lifecycle of nuclear energy, offering technology assessments, strategic advisory, proposal and grant writing, and comprehensive site advisory services
- Examples include:
 - NEI Fast Follower Framework report
 - Proposal Development
 - Nuclear Technology Evaluation
 - Red Flag Report for Site Suitability
 - Early Site Permit (ESP) Application Development



- ANA develops nuclear-ready sites to enable new nuclear to meet growing energy demands
- Examples include:
 - Sites Characterized with ANA's Red Flag Report
 - Sites with Key Characterization Data Collected
 - Sites with NRC-issued ESPs

Why ANA?

Benefit to ANA Customers

GAIN Voucher Award Enables Access to Critical Siting Capabilities

- Ability to leverage ANA's access to ORNL supercomputer, people and database to determine which sites are best suited for new nuclear
- Red Flag Site Evaluation Report enables customers to know whether there are any show-stopper issues for nuclear licensing at their site

Experience with Early Site Permits for SMRs

- Expert advice on activities and resources needed to conduct nuclear site characterization and licensing
- Enabling accelerated progress on critical path activities and an incrementally clearer understanding of project risk

Expert Guidance on Best Practices, Policy & Industry Trends

- We provide companies and trade associations with expert guidance on best practices, project management, and industry forecasting.
- Recent example includes development of the Nuclear Energy Institute's Fast Follower Framework for new nuclear builds report.



Advanced Nuclear Advisors Services by Project Lifecycle



SCAN & ASSESS

- Market Assessment
- Owner Needs Analysis
- Technology Assessment
- Stakeholder Assessment
- Technology Readiness Assessment
- Suitability Assessment
- Feasibility Assessment
- Regulatory Strategy Development
- Site Identification
- Proposal Development (for Incentives)
- Site Characterization Contractor Hiring Plan



PLAN & DEVELOP

- Plant Requirements Definition
- Initial FEL Planning
- Project Scope, Schedule and Cost Definition and Initial Estimates
- Risk Assessment
- Business Case Development
- Project Execution Plan
- Regulatory Engagement Plan and Initial Regulator Interactions
- Hire and Manage Contractors
- Site Characterization (Geotech, Hydrology, Meteorology, Environmental)
- Site Specific Engineering
- License Application Development



SUPPLY & CONSTRUCT

- Detail Scope, Schedule and Cost Estimation
- Project Baselined
- Project Execution Plan Implementation
- FEED Planning
- Independent Assessment
- Submit License Application and Support Regulatory Review
- Stage Gate Reviews
- Independent Oversight and Reviews



START-UP & COMMISSION

- Plant Staffing Plan
- Operator Training Plan
- Operational Readiness Assessment
- Operating License Application Preparation, Submittal and Review Support
- Independent Oversight and Review

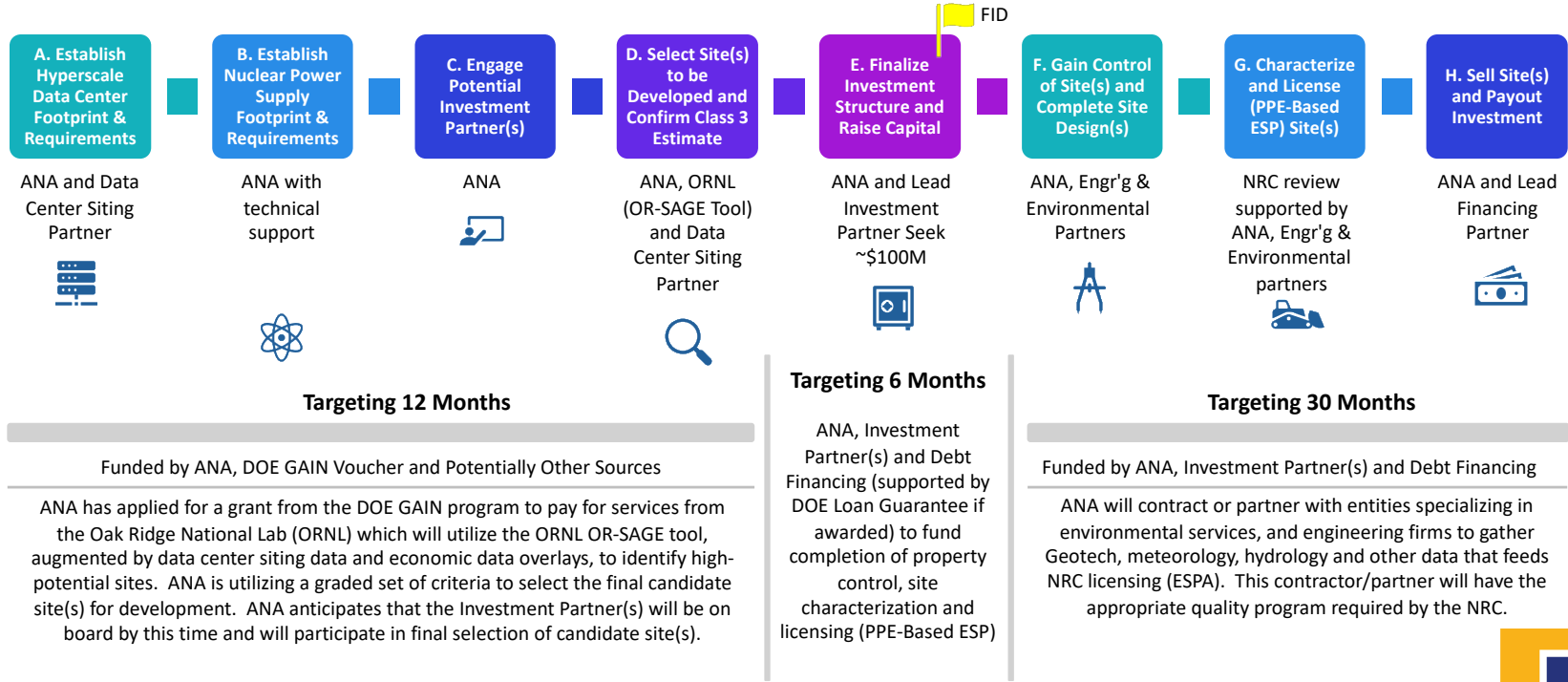


OPERATE & MAINTAIN

- Hire and Train Staff
- Operate and Maintain
- Independent Oversight and Review

Green is scope for potential ANA support
Black is scope for owner/operator

Project Spark-Hub: Initial Investment supports ANA getting to Financial Investment Decision to secure site(s) and commence nuclear site licensing



Fast Follower Framework for New Nuclear Deployment

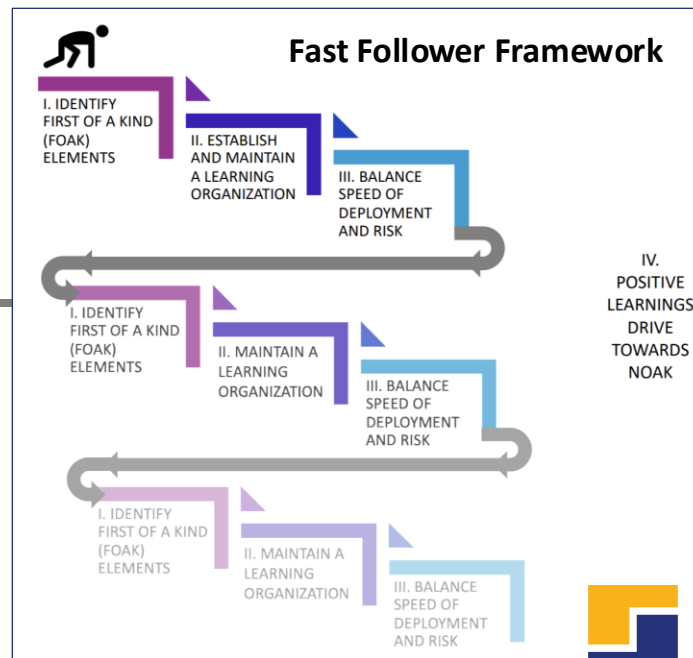
Executive Summary

Prepared by the Nuclear Energy Institute
October 2024

ANA was honored to contribute to NEI's Fast Follower Framework for New Nuclear Deployment that guides nuclear industry leaders in capturing and applying learnings from initial builds (FOAK) to subsequent projects (NOAK)

Targeted Outcomes of the Fast Follower Framework

- **Reduced Costs Over Time:** Provides a clear pathway for nuclear projects to move from FOAK to NOAK, achieving significant cost savings and economic viability by applying lessons learned to subsequent builds.
- **Optimized Schedules:** Streamlines project timelines by implementing best practices and minimizing delays, ensuring faster, more predictable deployments.
- **Consistent Learning Framework:** Establishes a structured approach for capturing and sharing knowledge across projects, enabling continuous improvement and supporting industry-wide standardization.



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Link to Executive Summary: https://www.advancednuclearadvisors.com/_files/ugd/979cf5_3a5c7a8e4b9246d89a82ee62891d9fea.pdf

Link to Full Report (NEI Members Only): <https://nei.org/master-document-folder/technical-reports/nei-24-07-fast-follower-framework-for-new-nuclear>

Our Experienced Management Team



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Managing Director
40+ years' experience:
Operations, Fuel cycle,
Project Management,
Project Development
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**EVP, Strategy &
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30+ years' experience
Strategy, Government
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Kenric England
**Chief Operating
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30+ years' experience
Project Management,
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Lawrence Denney
ANA Advisor
30+ years' experience:
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Financing, Major
contract negotiation
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Ted Coulter
ANA Advisor
40+ years' experience:
Manufacturing,
Operations, and
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leadership roles in the
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Frank Helin
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40+ years' experience:
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Proposal Writing,
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Let's Get
Started

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