GAIN Technical Assistance: Driving Innovation in Advanced Nuclear Energy

Gateway for Accelerated Innovation in Nuclear (GAIN) provides technical assistance to help states and communities overcome barriers and accelerate deployment of advanced nuclear technologies. Completed GAIN technical assistance projects highlight real-world examples of what applicants can achieve by working with the GAIN team.

This assistance delivers data-driven solutions, community engagement frameworks, and economic strategies to accelerate energy dominance and reliability.

Communities LEAP (Local Energy Action Program)

GAIN supported customized feasibility studies administered by the U.S. Department of Energy's Communities Local Energy Action Program (CLEAP) help competitively selected communities transition toward advanced nuclear energy and data center development.

Key outcomes from GAIN-supported CLEAP Cohort 2 technical assistance projects:

Pennsylvania

- **Scope:** Partner with Idaho National Laboratory financial modeling experts to study the impact of tax incentives on nuclear projects.
- **Impact:** Combining federal and state incentives expands nuclear project profitability into an acceptable range for a first-of-a-kind endeavor. The results also identified which tax credits are suited for specific nuclear projects. Investment tax credits are more appropriate for projects with high capital costs and overruns, while production tax credits are best for projects focused on operations and maintenance costs.

Colorado, Montana and Utah

- **Scope:** Site feasibility, power source analysis, economic impact assessment and financial strategy development.
- **Impact:** Leveraging existing infrastructure and the workforce to attract future energy and technology investments.

Kentucky

- **Scope:** Workforce development and supply chain engagement to build nuclear expertise through training programs and supplier participation.
- **Impact:** Creating immediate employment pathways by partnering with Framatome while positioning Kentucky's workforce and businesses for future advanced nuclear projects and energy investments.

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GAIN
Gateway for Accelerated Innovation in Nuclear

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https://gain.inl.gov/

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Feasibility studies: Real-world examples

GAIN partnered with utilities and local officials to assess nuclear deployment potential at sites with existing energy infrastructure. Each study delivered technical, economic and strategic insight.

Montana – Colstrip Power Plant

- **Partner:** NorthWestern Energy
- **Highlights:** Regional siting assessment, deployment scenarios, economic impact analysis.
- **Results:**
  - Nuclear siting near Colstrip is technically feasible.
  - A 500 megawatt electric nuclear facility could support 680-plus long-term jobs and provide $310 million in annual economic output.

Kentucky – Ghent Generating Station

- **Partner:** PPL Corporation
- **Highlights:** Initial siting evaluation, nuclear technology assessment.
- **Results:**
  - No exclusionary factors for nuclear deployment, land constraints or environmental challenges.
  - Small and medium (300–600 MWe) advanced reactors identified as options.

Arizona – Coronado Generating Station

- **Partner:** Salt River Project and city of Saint Johns
- **Highlights:** Siting evaluation, technology assessment, economic modeling.
- **Results:**
  - No exclusionary factors; ample land and infrastructure for advanced reactors.
  - Adding nuclear to this site could add $673 million in annual economic output and nearly 1,000 jobs.

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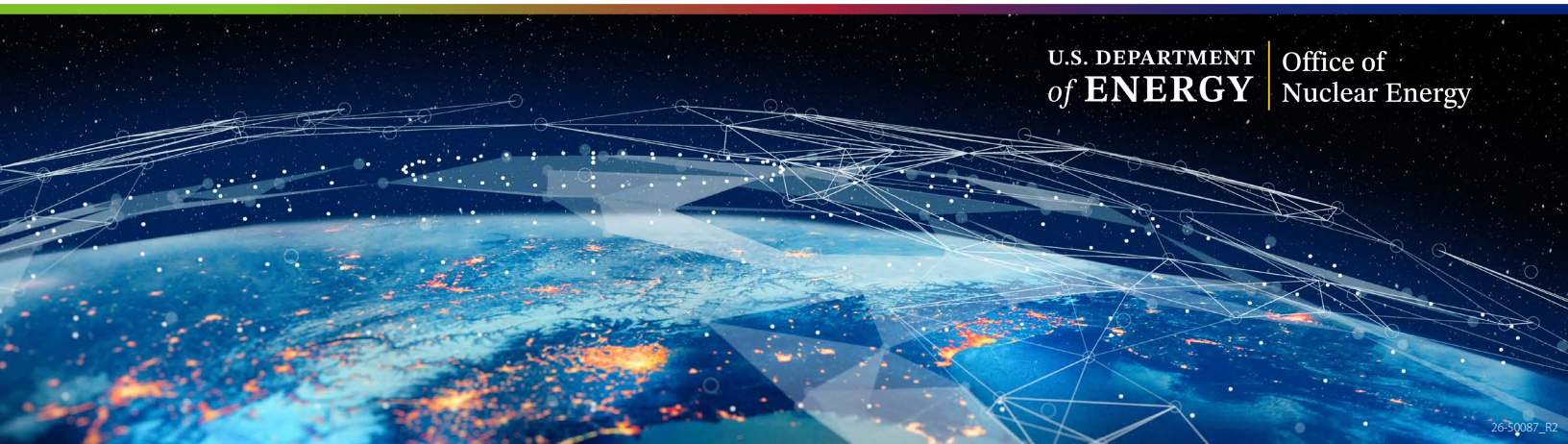

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