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Idaho Advanced Energy Consortium

Idaho Advanced Energy Consortium Update

Kirt Marlow

Idaho Advanced Energy Consortium, Executive Director

IAEC Energy Summit

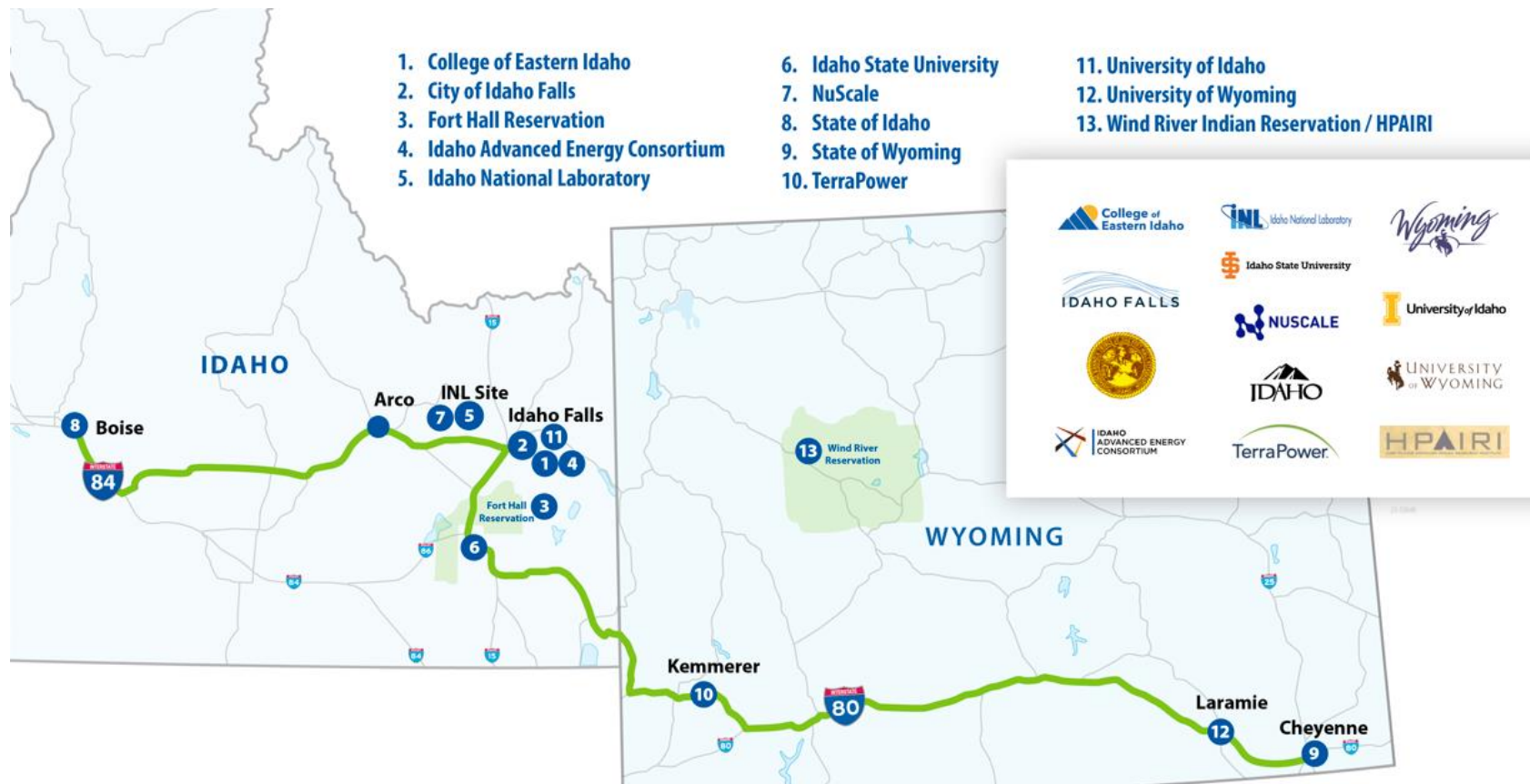
- Sept. 16th
 - Tour of Idaho National Laboratory and Naval Reactors
 - S1W Prototype
- Sept. 17th
 - 120 + attendees
 - Up 'n Atom Breakfast
- Collaboration to support upcoming initiatives



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U.S. EDA Tech Hub Grant

Intermountain-West Nuclear Energy Corridor (INEC)



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U.S. EDA Tech Hub Grant

- Phase 1 - Designation and Strategy
 - Over 200 designation and 400 strategy applications submitted
 - INEC is 1 of only 11 to receive both awards
 - Announcement Oct. 23rd
 - Strategy Grant - \$500k
 - Development of Phase 2 project(s)
- Phase 2 – Implementation
 - Up to \$75M
 - Primary focus area: Nuclear Energy
 - Secondary focus areas: Supply Chain development, Cybersecurity



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Energy Report

- EDA Tech Hub Spotlight
- Updates from Working Groups
- Priorities and Accomplishments
- Energy Projects-Economic Impact
- Upcoming Advanced Energy projects
- Consortium Next Steps

TerraPower and Southern Company to demonstrate the world's first fast-spectrum salt reactor at Idaho National Laboratory
TERRAPOWER

Oklo Ready to Deploy Commercial-Scale Nuclear Fuel Recycling Facility
POWER

INL demonstrates Microgrid in a Box integration with Fall River hydropower plant
HYDRO REVIEW

UAMPS subsidiary applies to NRC to begin CFPP construction activities
NUCLEAR NEWSWIRE

NuScale SMR Simulation Lab Opens in Idaho
DOE

WELCOME

Energy stakeholders,

For nearly 75 years, Idaho has hosted some of the world's most advanced defense and energy research projects and built state-of-the-art facilities in support of the Atomic Energy Commission's (now the Department of Energy) mission to demonstrate peaceful uses of splitting the atom for power development. The State of Idaho, our communities, and businesses have supported these projects, developed infrastructure, and helped to expand these missions.

The Idaho Advanced Energy Consortium (IAEC) was formed to continue this scope. We are grateful to all the stakeholders in Idaho and the surrounding region who have supported our startup and early initiatives.

This diverse group of stakeholders is poised to inform, advocate, and assist in project planning and execution. Our mission and vision may change as projects develop; the immediate need is to move quickly and develop the networks we need to coordinate our efforts. Our region has a unique opportunity to support the advanced energy industry regionally, nationally, and internationally.

After all, those who called eastern Idaho home were responsible for building the first nuclear reactor to produce usable amounts of electricity, lighting the first town in the world with nuclear power, developing nuclear-powered propulsion for Navy vessels, creating nuclear-powered jet engines, and making commercial nuclear power inherently safer and more efficient.

IAEC looks forward to the opportunity to increase our interaction with energy stakeholders and to work with all of you on upcoming initiatives.

Sincerely,

Kirt Marlow
Executive Director, Idaho Advanced Energy Consortium

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Advanced Energy Projects: *What are we seeing?*

Aggregated project information from BEA, IEC, and NNPP across the next decade, to give us site-wide economic impact implications.

Resulting In:

- Combined total of projects over \$3 billion
- Over 80% construction work and equipment sourced from Idaho based businesses
- They will contribute to Idaho's GDP
 - \$224 million in FY 2024
 - \$367 million by 2026
- Projects will support 4,600+ jobs by 2026



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IAEC Working Groups Recommendations

- Benchmarking policies, investments and opportunities for Idaho to other states
- Develop Advanced Energy Proclamation
- Develop Advanced Nuclear framework for the State of Idaho
- Host an Idaho led Energy Summit
- Retool how the energy sector is working with the Idaho Department of Commerce



IAEC Working Groups Recommendations

- Develop a coordinated regional strategy
- Empower state officials to assert leadership and support for the advanced energy sector
- Workforce & Education:
 - Adding a 17th and 18th career cluster – Advanced Energy & Computer Science and Cybersecurity – to the state Career Cluster framework.
 - Executive Order of the Governor to create a Computer Science and Engineering Higher Ed Committee
- Supply Chain:
 - Producing supply chain project projections and timelines



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Questions & Discussion



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