

March 2, 2023

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Idaho National Laboratory Overview

Battelle Energy Alliance manages INL for the
U.S. Department of Energy's Office of Nuclear Energy



Idaho National Laboratory

DOE National Laboratories



IDAHO NATIONAL LABORATORY

Our Heritage: *driving nuclear innovation in the U.S. and around the world*

Over **70** years of scientific innovation

1st U.S. city to be powered by nuclear energy

1st Nuclear power plant



"More than 300 commercial reactors operating around the world today can trace their roots back to Idaho National Laboratory," said

U.S. Secretary of Energy Jennifer M. Granholm.



INL's Research Mission Areas



Energy & Environment S&T

- Advanced transportation
- Environmental sustainability
- Clean energy
- Advanced manufacturing
- Biomass
- Integrated Energy Systems



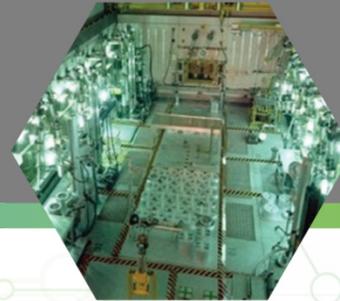
National & Homeland Security S&T

- Critical infrastructure protection and resiliency
- Nuclear nonproliferation
- Physical defense systems



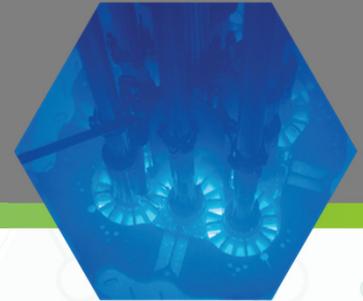
Nuclear S&T

- Nuclear fuels and materials
- Nuclear systems design and analysis
- Fuel cycle science and technology
- Nuclear safety and regulatory research
- Advanced Scientific Computing



Materials & Fuels Complex

- Transient testing
- Analytical laboratories
- Post-irradiation examination
- Advanced characterization
- Fuel fabrication
- Space nuclear power and isotope technologies



Advanced Test Reactor

- Steady-state neutron irradiation of materials and fuels
 - Naval Nuclear Propulsion Program
 - Industry
 - National laboratories and universities

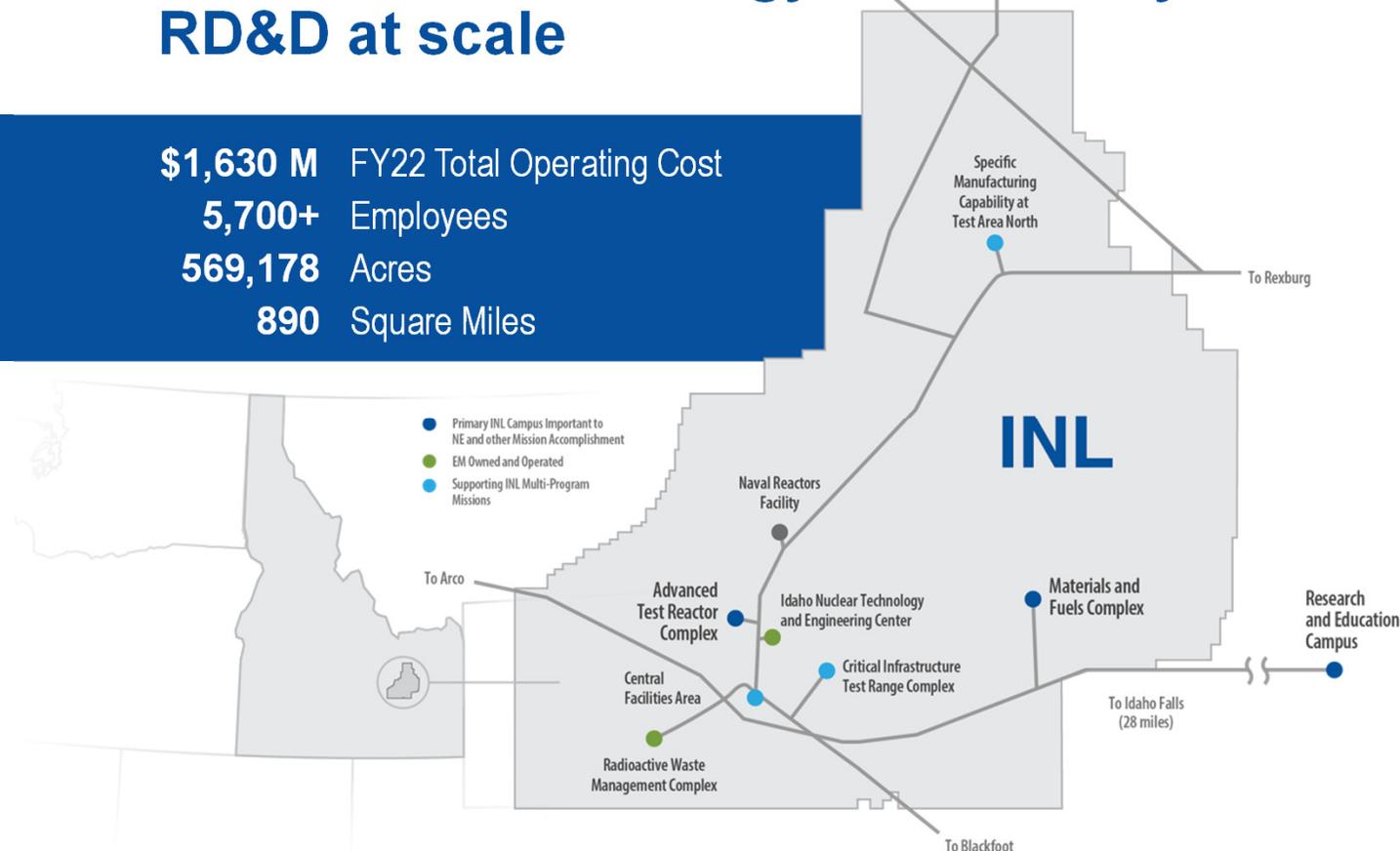
INL Electrifying the Future

- Charging is one of the biggest challenges to meet in growing transportation electrification
- Charging infrastructures must be safe and accessible
- INL has vast experience in charging cybersecurity with extensive data on how to make chargers more reliable



Unique INL site, infrastructure, and facilities enable energy and security RD&D at scale

\$1,630 M FY22 Total Operating Cost
5,700+ Employees
569,178 Acres
890 Square Miles



4 Operating reactors

12 Hazard Category II & III non-reactor facilities/ activities

50 Radiological facilities/activities

17.5 Miles railroad for shipping nuclear fuel

44 Miles primary roads (125 miles total)

9 Substations with interfaces to two power providers

126 Miles high-voltage transmission lines

3 Fire Stations

IDAHO NATIONAL LABORATORY

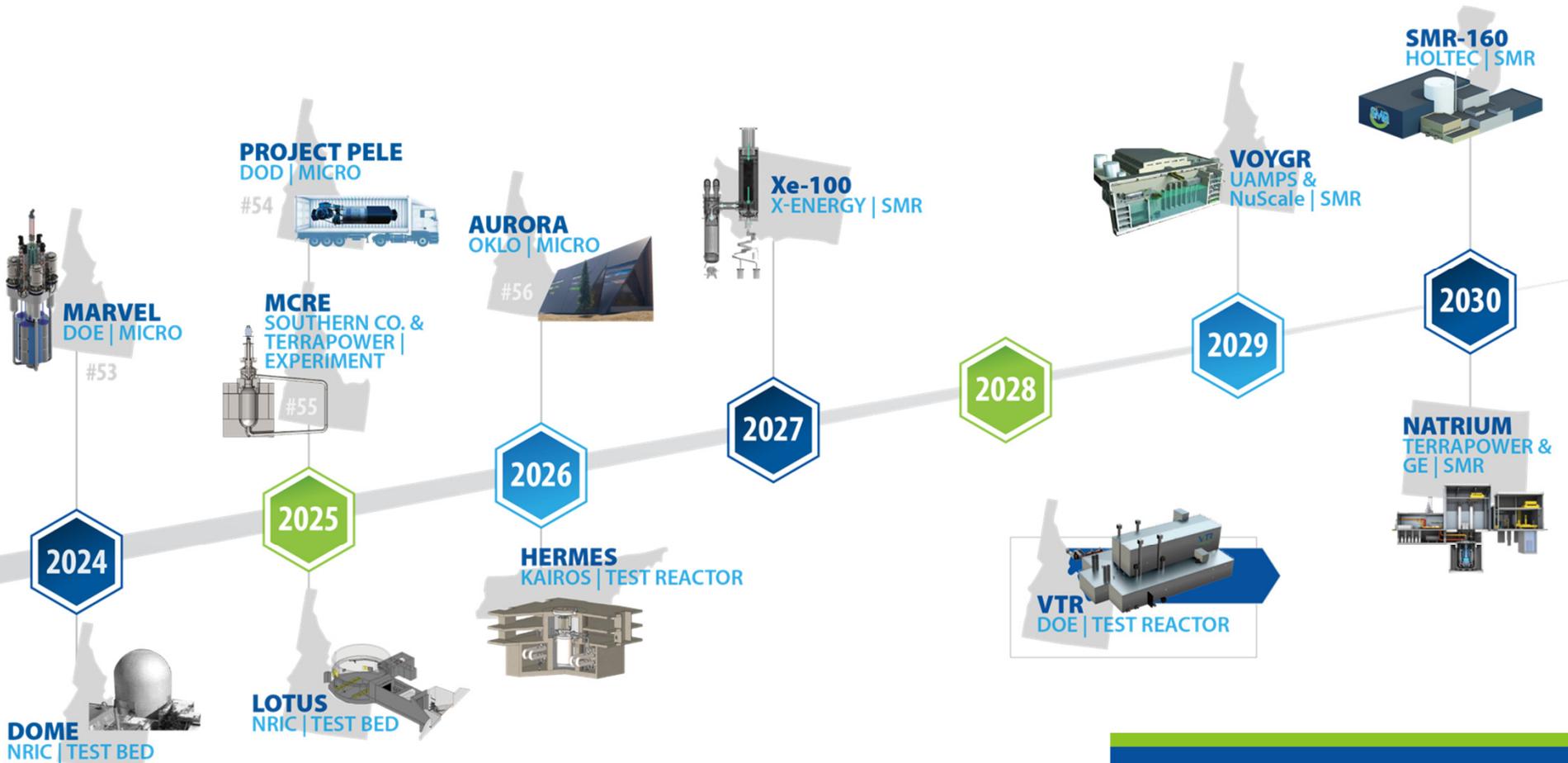
INL Facilities in Idaho Falls





IDAHO NATIONAL LABORATORY

Accelerating advanced reactor demonstration & deployment



Improving the quality of life in our community and region

Economic Impact:

- Over \$3 billion in FY22
- 6th largest private employer in the state
- Spent \$243 million with Idaho small businesses in FY22

Giving back:

- Staff pledged \$685,000 in the 2023 United Way campaign
- K-12 STEM education programs reached over 21,000 students
- Community volunteerism





Idaho National Laboratory

Battelle Energy Alliance manages INL for the U.S. Department of Energy's Office of Nuclear Energy. INL is the nation's center for nuclear energy research and development, and also performs research in each of DOE's strategic goal areas: energy, national security, science and the environment.

WWW.INL.GOV