#### Montana Tech Library

### Digital Commons @ Montana Tech

National Lab Day Lectures

10-8-2019

## 70th Anniversary Idaho National Lab

Marianne Walck

Follow this and additional works at: https://digitalcommons.mtech.edu/national-lab-day





Employees,
Plus more than
500

early-career researchers and visiting scientists

## **World-Class**

facilities, renowned technology experts

## **Partnership**

with in ustry, academia, and government

## **Campus**

operates as a living laboratory National Economic Impact

# Scope of **NREL** Research Portfolio

NREL develops renewable energy and energy efficiency technologies and practices, advances related science and engineering, and transfers knowledge and innovations to address the nation's energy and environmental goals



**Building Energy Efficiency** 



Renewable Generation



Sustainable **Transportation** 



**Energy Systems Integration** 

#### Analysis & Energy

Residential **Buildings** 

Commercial **Buildings** 

Solar

Wind and Water

**Biomass** 

Hydrogen

Geothermal

# Decision Support

**Advanced Biofuels** 

Vehicle **Components** & Systems

**Grids of all scales** 

Renewable **Integration & Storage** 

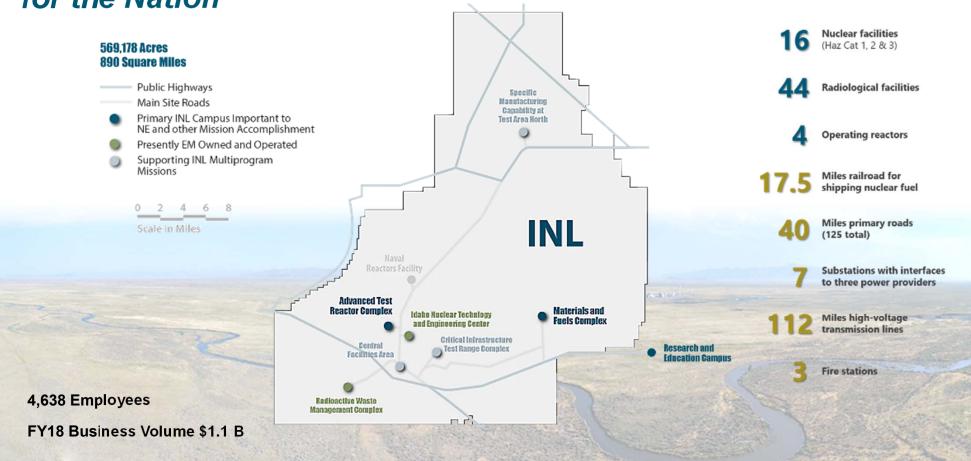
**System Design & Operation Tools** 

**Integrated Energy Planning** 

Foundational Science underpins these efforts



The Idaho National Laboratory Site – A Unique Capability for the Nation





# A Multiprogram National Laboratory and the Nation's **Nuclear Laboratory**



We are uniquely positioned to address energy and security challenges at scale 5



## Advanced Test Reactor

- Steady State Neutron Irradiation of Materials and Fuels
  - Naval Nuclear Propulsion Program
  - Industry
  - National laboratories and universities





# Materials and Fuels Complex

- Transient Testing
- Analytical Laboratories
- Post-Irradiation Examination

- Advanced Characterization
- Fuel Fabrication
- Space Nuclear Power and Isotope Technologies





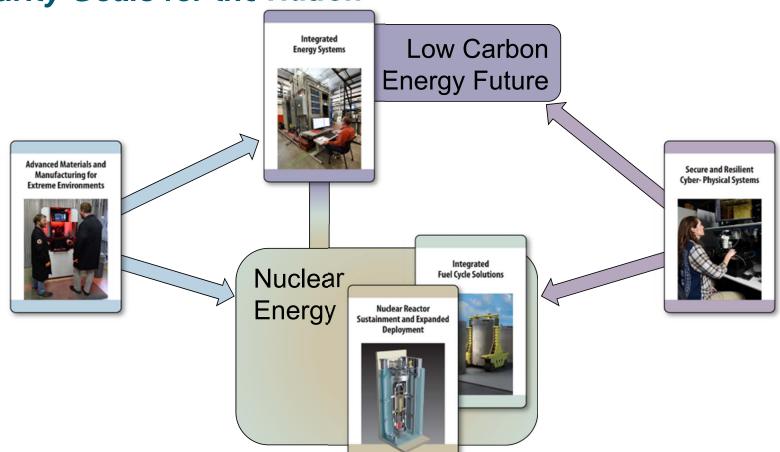
# Research Education Campus

- Cybercore Integration Center
- Collaborative Computing Center





INL's Current Strategic Focus Will Advance Energy and Security Goals for the Nation





# August 15, 2019: The National Reactor Innovation Center Established at INL

