



Choose Idaho Presentation

June 2021

Changing the World's Energy Future

Amy Rene Lientz, Hope Marie Morrow



INL is a U.S. Department of Energy National Laboratory operated by Battelle Energy Alliance, LLC

DISCLAIMER

This information was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any of their employees, makes any warranty, expressed or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness, of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. References herein to any specific commercial product, process, or service by trade name, trade mark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the U.S. Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the U.S. Government or any agency thereof.

Choose Idaho Presentation

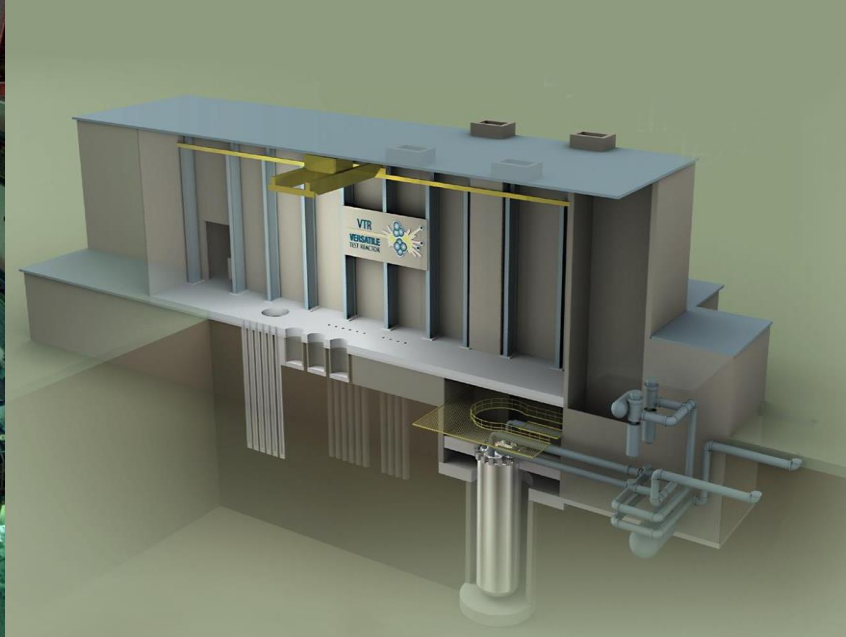
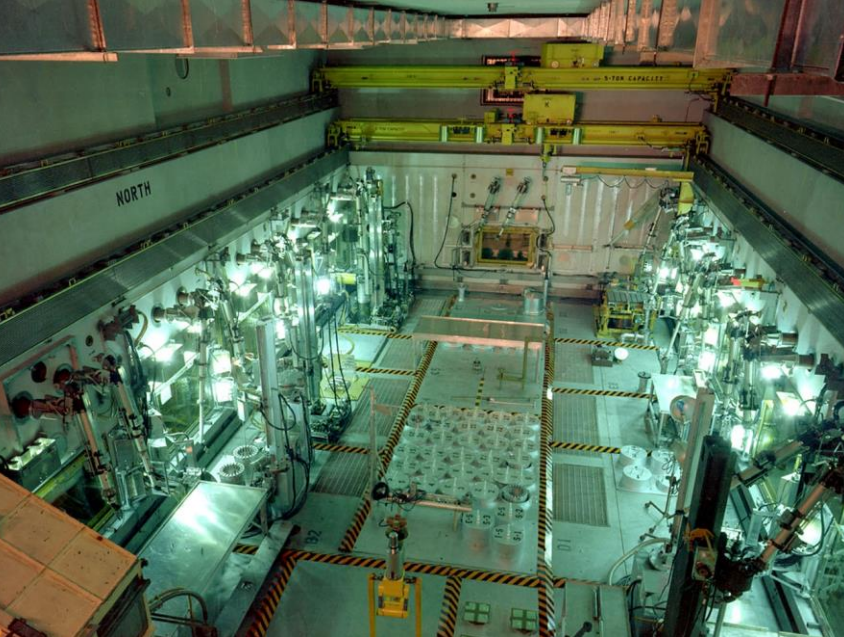
Amy Rene Lientz, Hope Marie Morrow

June 2021

**Idaho National Laboratory
Idaho Falls, Idaho 83415**

<http://www.inl.gov>

**Prepared for the
U.S. Department of Energy
Under DOE Idaho Operations Office
Contract DE-AC07-05ID14517**



Amy Lientz

Director
Supply Chain, Energy
Programs

Choose Idaho- Socioeconomic and Industry Site Selection Information

May 13, 2021



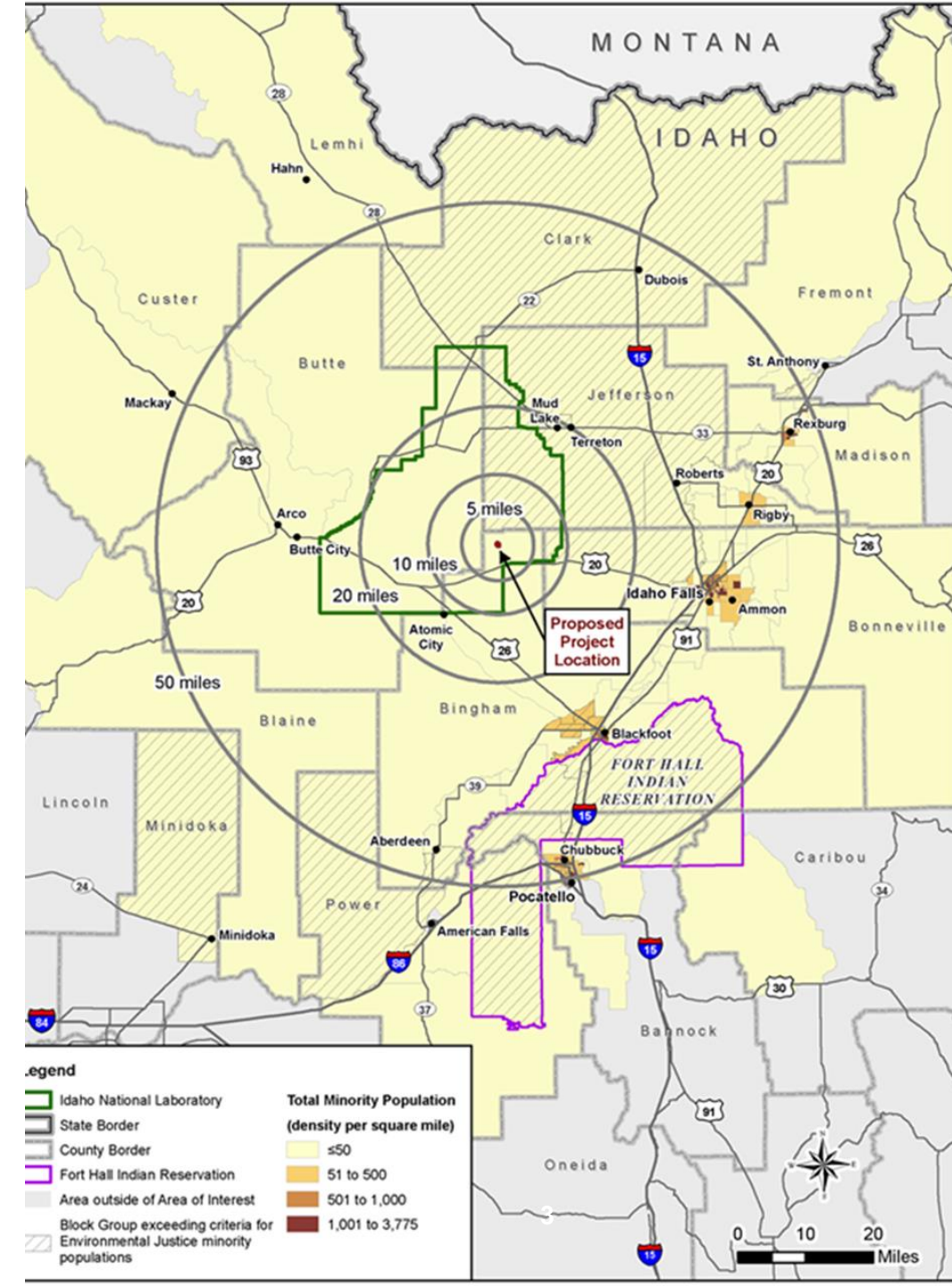
INL Available Information

- Socioeconomic Information
- Economic Impact
- Workforce Availability
- Education
- Supply Chain Availability
- Community Support
- Watchdog and Advisory Organizations
- Additional Resources
- Summary

Socioeconomics

Region of Influence

- The Region of Influence for INL encompasses a seven-county area: Bannock, Bingham, Bonneville, Butte, Clark, Jefferson, and Madison Counties. Five of these counties border the INL Site: Bingham, Bonneville, Butte, Clark, and Jefferson.
- Included in the ROI are the Fort Hall Reservation and Off-Reservation Trust Land, home of the Shoshone Bannock Tribe which lie largely within Bingham and Bannock Counties.
- The two largest cities in the ROI include Pocatello in Bannock County and Idaho Falls in Bonneville County



Socioeconomics

Population and Housing

- Idaho is one of the fastest growing states in the nation.
- Population growth in the region between 2000 and 2018 was slightly lower than the State average, with growth rates for the region and State at 7.4 percent and 11.9 percent, respectively.

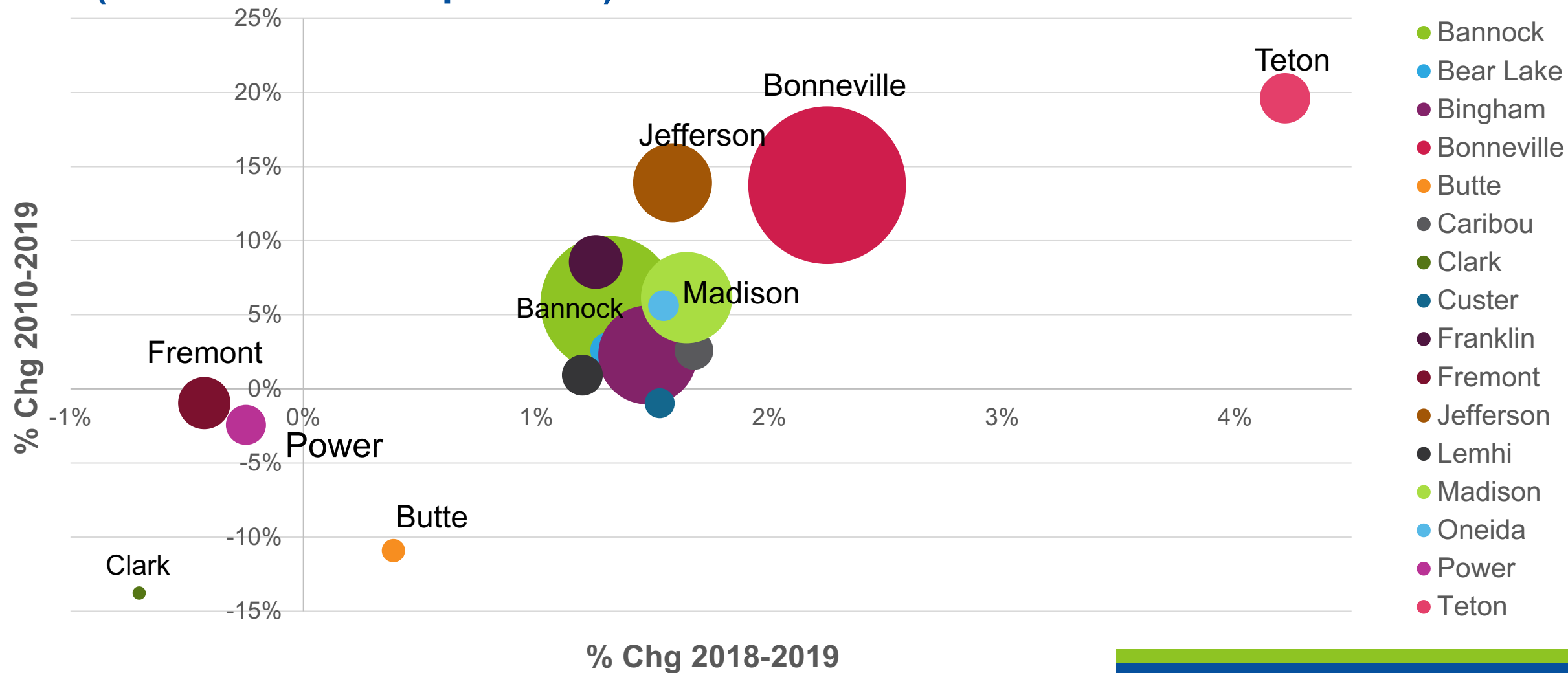
<i>County</i>	<i>Year</i>				<i>Projected Population 2050</i>
	<i>2000</i>	<i>2010</i>	<i>2018</i>	<i>Population Change 2010-2018 (percent)</i>	
Bannock	78,604	82,839	87,138	5.2	105,263
Bingham	41,735	45,607	46,236	1.4	48,825
Bonneville	82,522	104,234	116,854	12	172,944
Butte	2,899	2,891	2,611	-9.7	1,598
Clark	1,092	982	852	-13.2	402
Jefferson	19,155	26,140	29,439	12.6	44,276
Madison	27,467	37,536	39,304	4.7	46,693
7-County ROI	250,365	300,229	322,434	7.4	420,001
Idaho	1,293,953	1,567,582	1,754,208	11.9	2,371,689

ROI = region of influence

Source: Census 2019a, 2019b, 2019c; Idaho Department of Labor 2020

Socioeconomics

Eastern Idaho Population by County (ref: Census 2019, Dept of Labor) (Bubble Size = Population)





Socioeconomics *Housing*

- In the Region of Influence (ROI), in 2017 116,264 housing units were available
- The Renter Vacancy Rate was 8.2 percent, and the Homeowner Vacancy Rate was 1.9 percent.
- Rental units made up 31 percent of the occupied housing units in the ROI.
- A total of 11,706 vacant units were in the ROI (Census 2019d).

Socioeconomics INL Employment

GREAT PROJECTS, REWARDING CAREERS, and STRONGER COMMUNITIES

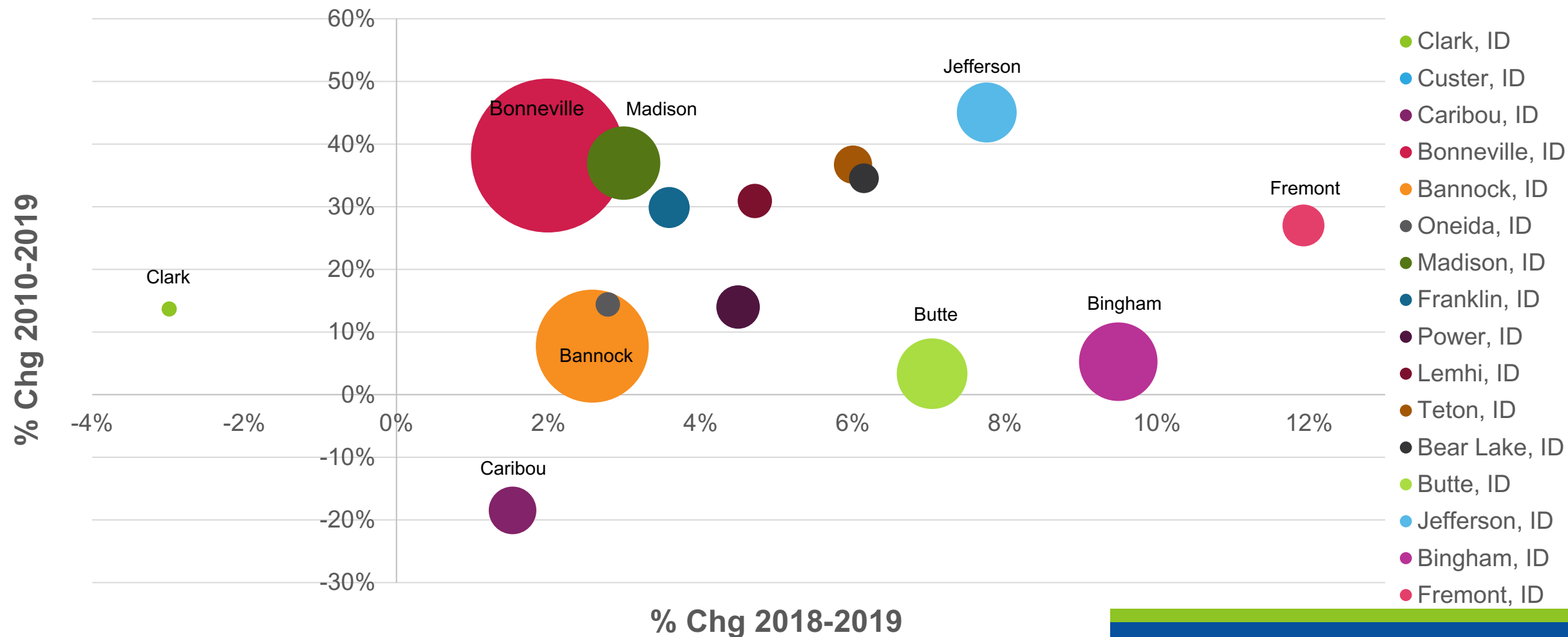


- The prime contractors at the INL Site include BEA, the management and operations contractor for the INL Site, and Fluor Idaho, which manages ongoing cleanup operations under the ICP Core and operates the Advanced Mixed Waste Treatment Project. Also the Department of Energy and the Naval Reactors Facility have full time employees.
- In fiscal year (FY) 2018, the INL Site accounted for nearly 12,000 jobs (11,789), including direct, indirect, and induced employment (INL 2019d), where direct jobs include those employed directly at the INL Site , indirect jobs include jobs relating to suppliers (provide materials and supplies), and induced jobs include jobs in goods and services where workers spend their money.
- INL is the 7th largest employer in the state.
- The largest percentage (60.4 percent) resides within Bonneville County.

Economic Impact (ref: Idaho Department of Labor)

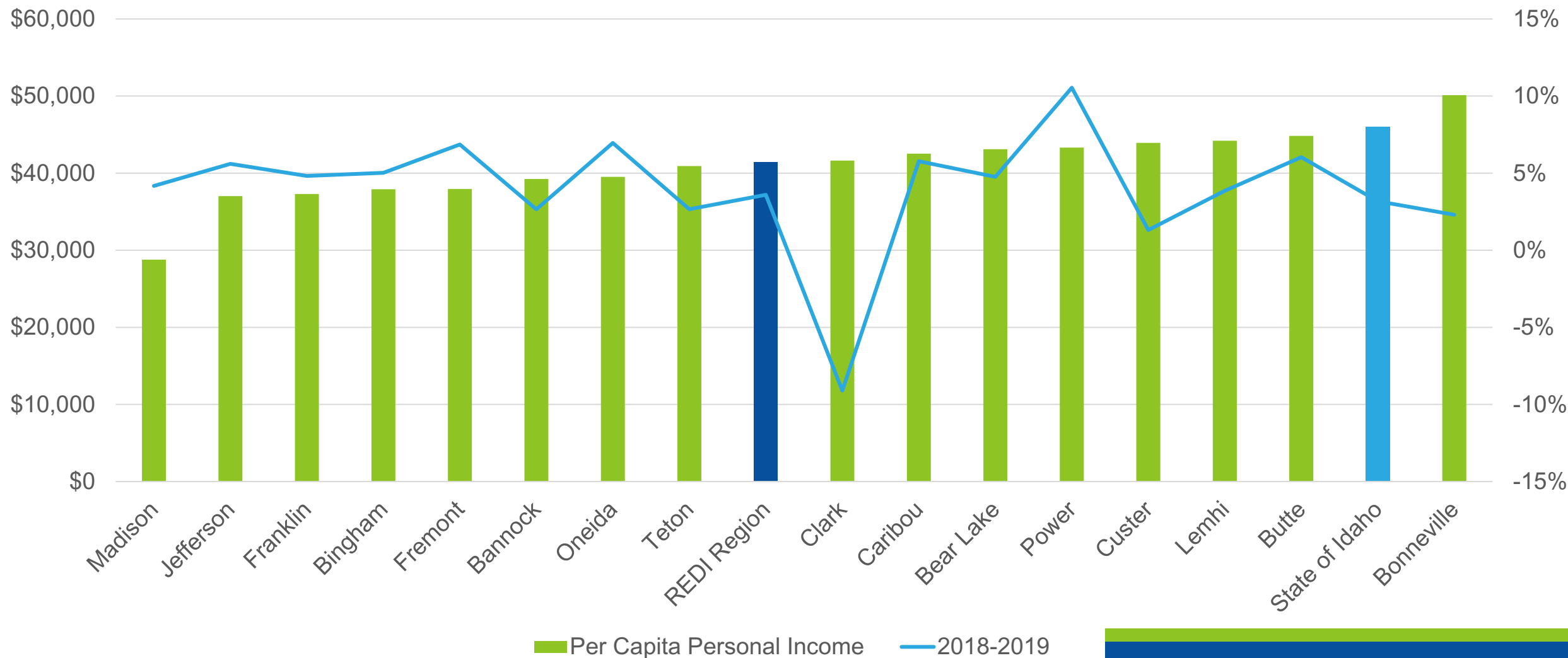
Change in Real GDP by County

(Bubble Size = Real GDP in Thousands)



Economic Impact (ref: Idaho Department of Labor)

Per Capita Personal Income by County



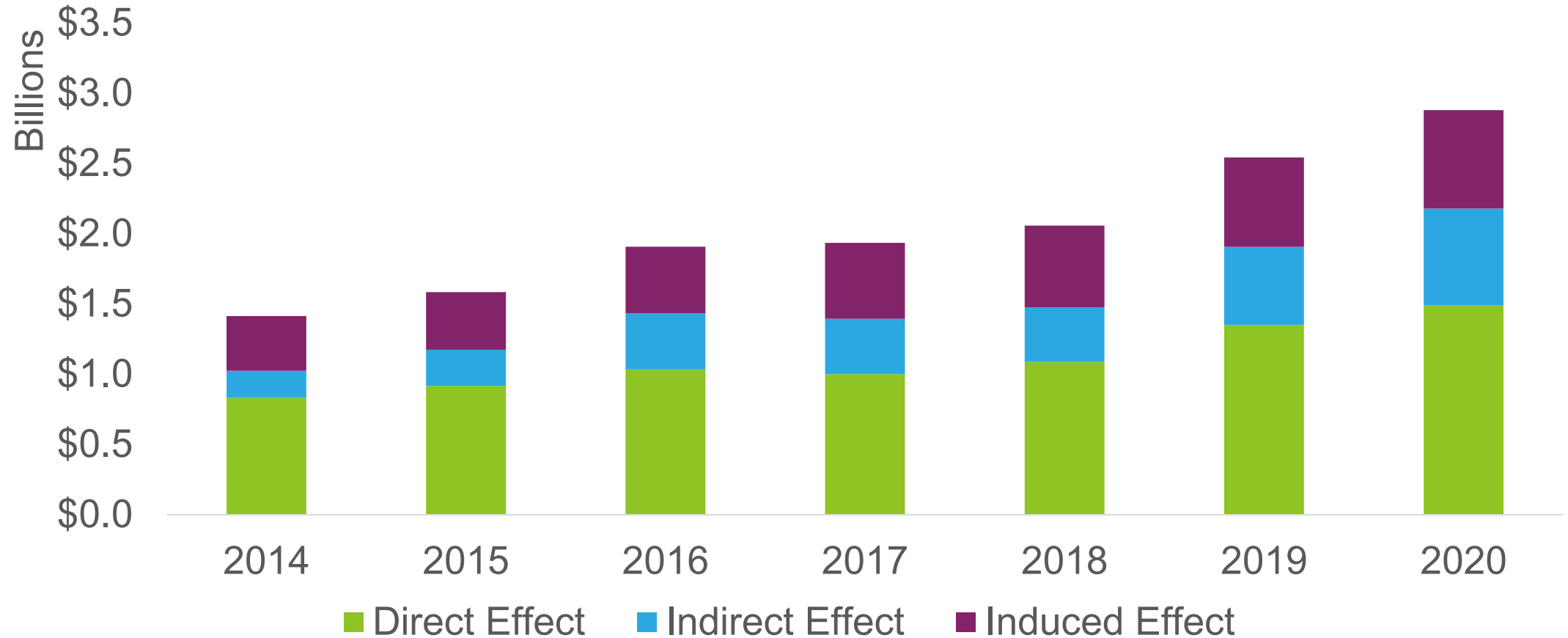


INL Economic Impact (FY2020)

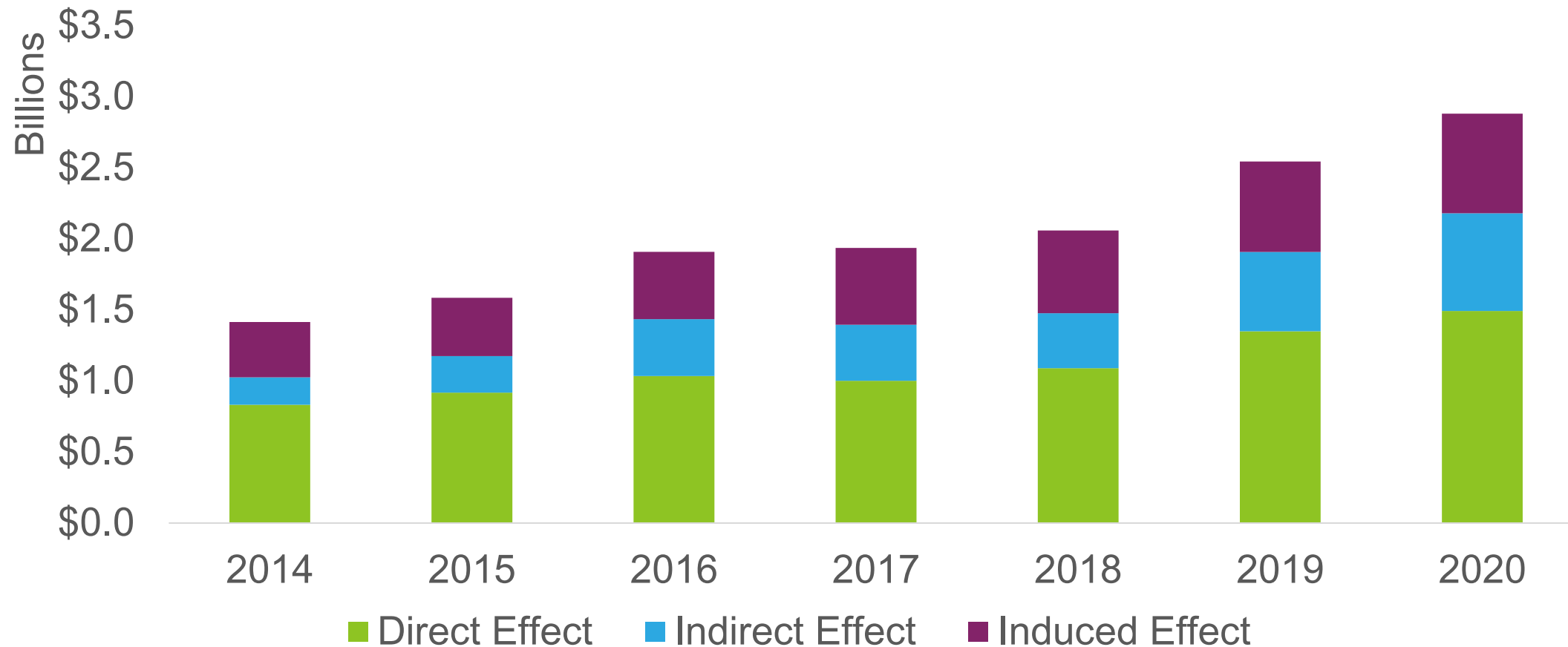
- INL is the 7th Largest private employer in Idaho and 10th Largest employer overall
- Eastern Idaho INL Statistics
 - \$147.1 million spent at small businesses in eastern Idaho
 - 250 eastern Idaho business partners
 - \$263,000 in STEM grants and scholarships
- \$104,000 average INL employee salary

Economic Impact

INL Projections

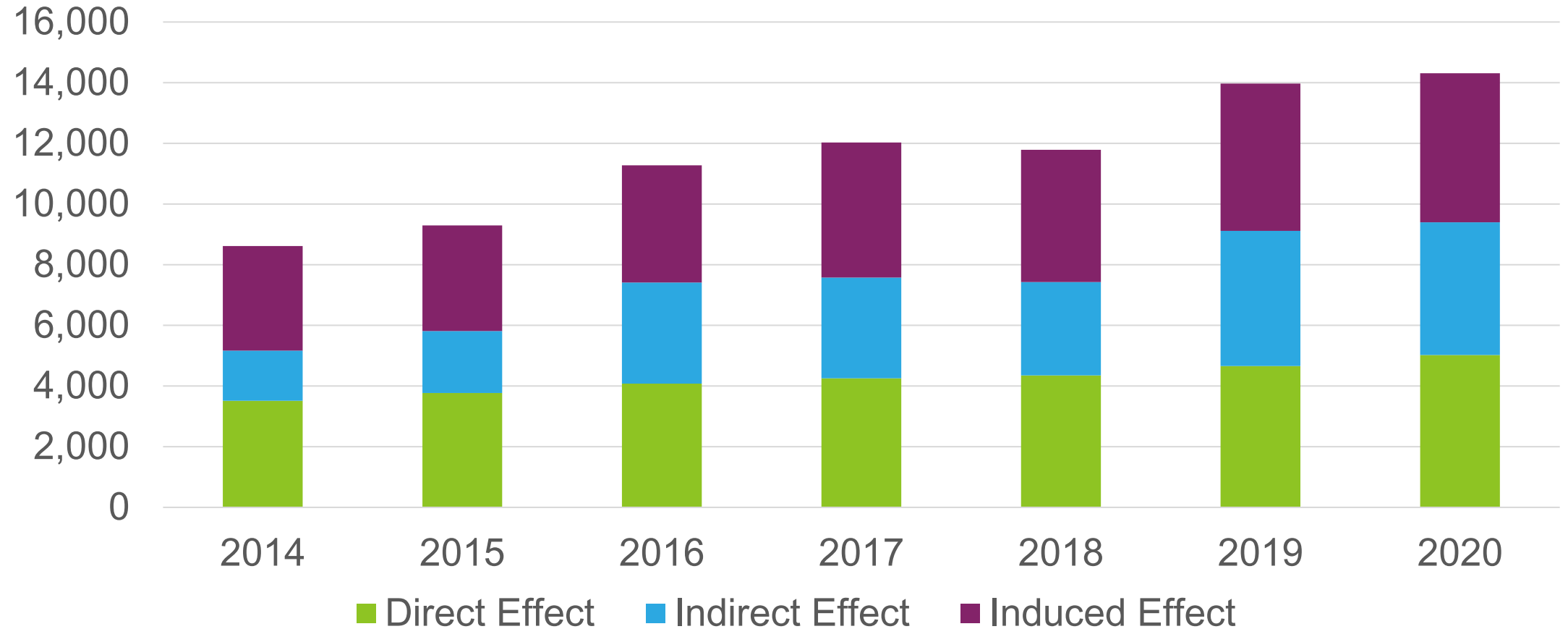


INL Total Output Economic Impact

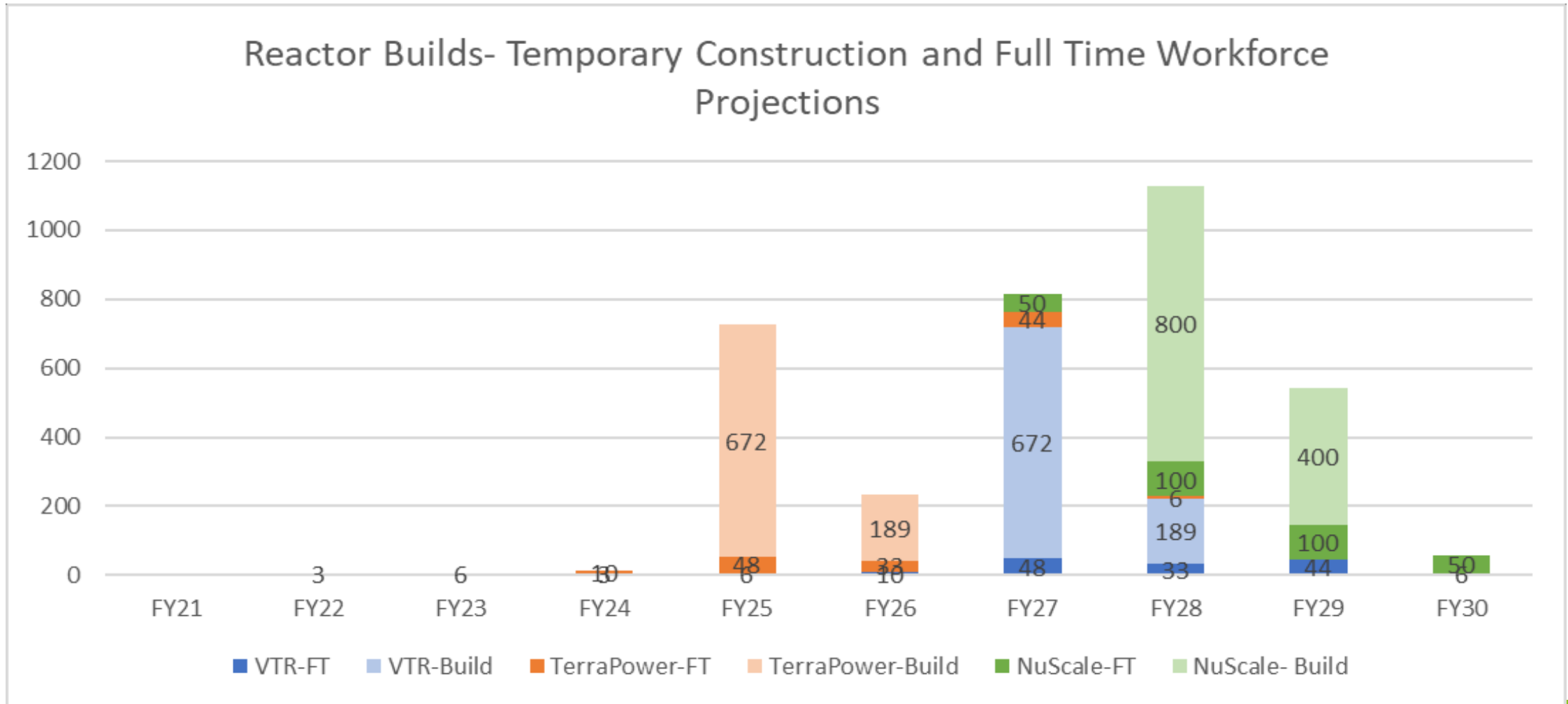


INL Employment Impact

(Idaho Jobs Created/Sustained)

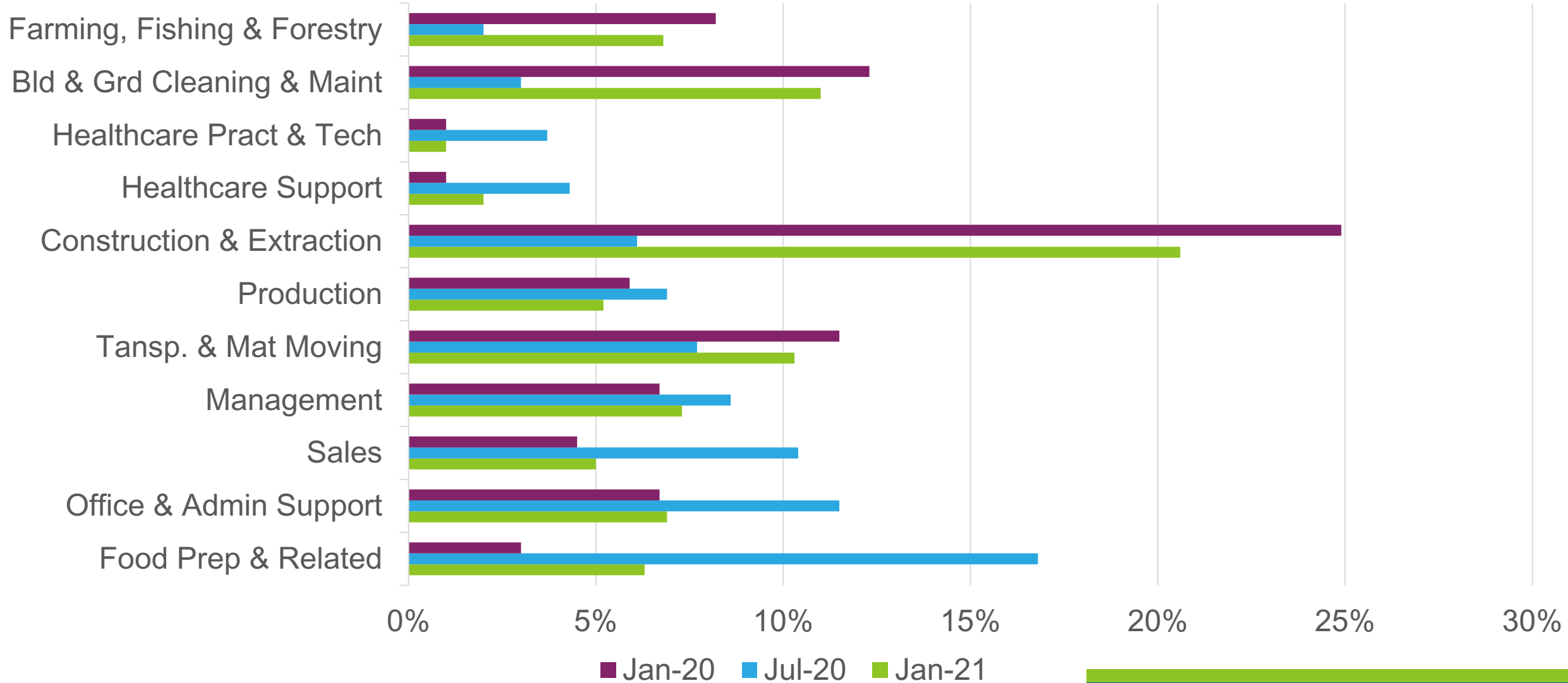


Ideal Timeline and Workforce Estimates/New Nuclear Builds at INL



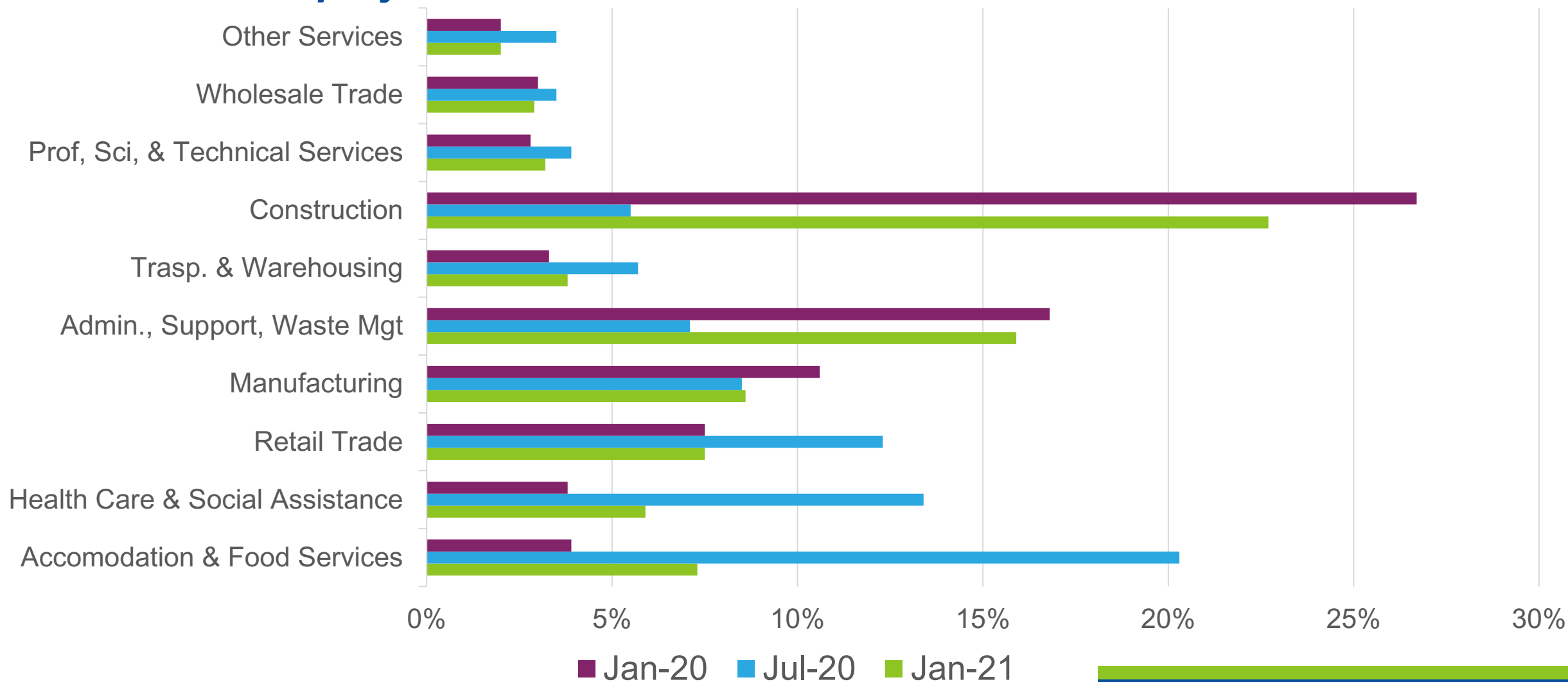
Workforce Availability (ref: Idaho Department of Labor)

Idaho Unemployment Claimant Occupations



Workforce Availability (ref: Idaho Department of Labor)

Idaho Unemployment Claimant Industries





Energy Industry Workforce Education in Idaho

- 50,829 workers employed in the energy industry
- 10 Colleges and University with Energy Courses, Certifications and Degrees
- 60 Energy related degree programs

Education

Key Energy Education Programs

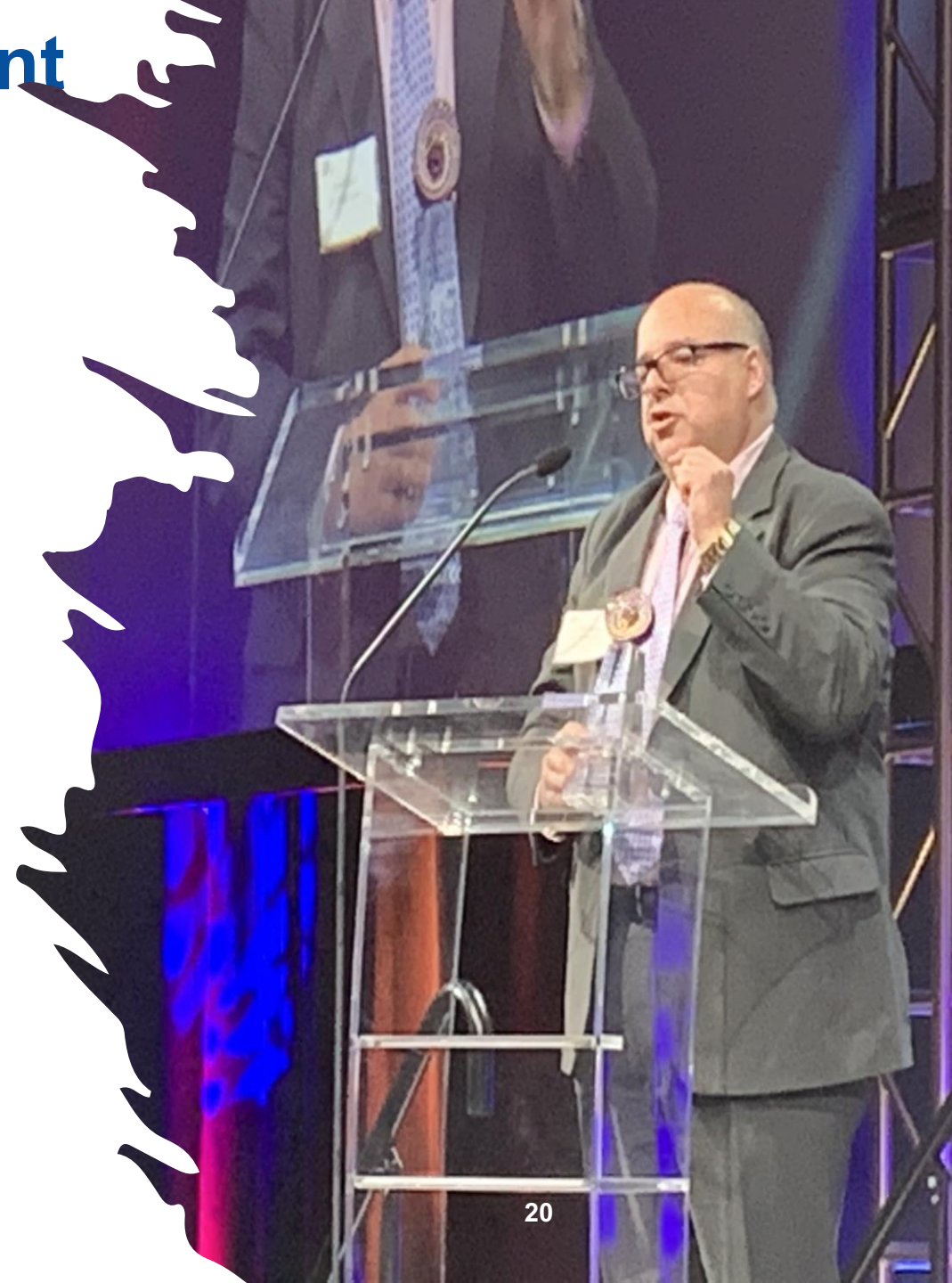
- The Center for Advanced Energy Studies (CAES) brings together Idaho and regional universities to conduct research, educate the next generation of scientists and engineers, and enable partnerships with industry.
- University of Idaho, with campuses across the state, is home to engineering programs in power systems, nuclear, electrical, and more.
- Idaho State University created the Energy Systems Technology and Education Center to support growing needs in energy maintenance.
- The Micron School of Materials Science and Engineering is an integral part of Boise State University's Materials Science and Engineering program.
- Idaho colleges in every region offer programs to build skills in technology, operations and maintenance, and provide worker training to keep these skills relevant.
- Northwest Lineman College's apprenticeship program prepares its students to lead the way in construction, maintenance, and operation of the electrical grid.

Supply Chain Availability for Energy Companies

- From manufacturing to professional and engineering services, Idaho has an inventory of thousands of energy industry suppliers distributed throughout the state, making it possible to access critical supply chain resources quickly.
- Eastern Idaho is home to national recognized nuclear product manufactures and partnerships with Utah's defense manufacturing community providing important access to more suppliers.
- Idaho is home to successful energy startups and innovation programs to help suppliers expand into new products

Community and Industry Engagement

- Idaho Additive Manufacturing Association
- Idaho Commerce- Contractor Suppliers Roundtable
- Idaho Technology Council
- Trailhead – Innovation Support
- Economic Development Organizations: Eastern Idaho, City, County, and Utah
- Idaho Department of Commerce
- Idaho State Energy Association
- CleanTech Alliance
- McClure Policy Center
- Idaho Business for Education
- Idaho STEM Action Center
- Idaho Women's Business Center
- Idaho Women in Nuclear
- Idaho Rural Partnership
- Nuclear Contractor Consortium
- Eastern Idaho Construction Contractor Association
- Idaho Association of General Contractors (Construction)
- Idaho American Nuclear Society Chapter (largest in US)

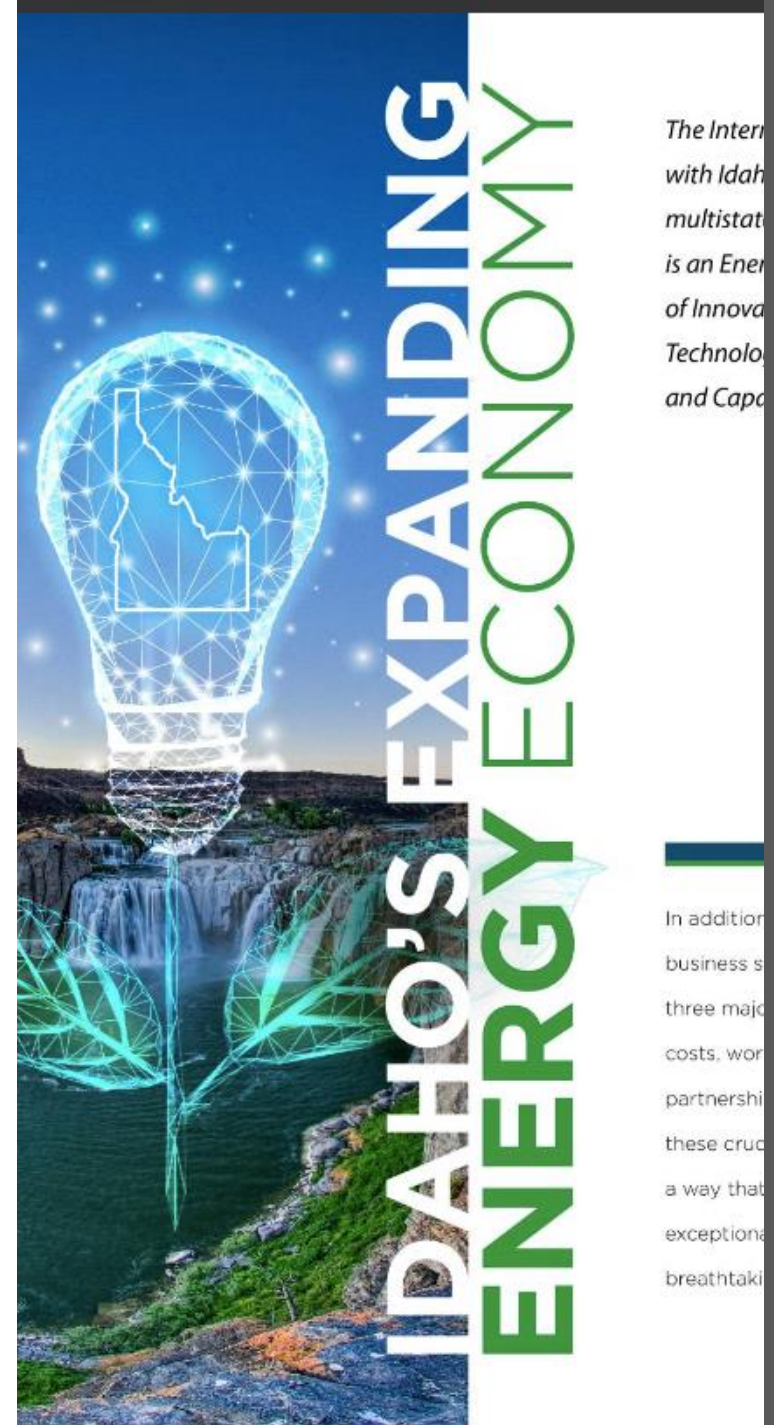


Idaho Nuclear Watchdog and Advisory Organizations

- **Snake River Alliance:** Vision “We envision an Idaho where our people and our environment are free from the threat of nuclear waste and contamination, and our communities are healthy, strong, and prosperous because of our reliance on clean and renewable energy.” <https://snakeriveralliance.org/>
- **Idaho Citizens Advisory Board:** The Idaho Cleanup Project CAB is a federally appointed citizens' panel that provides independent advice and recommendations to the Office of Assistant Secretary, and designees, for the U.S. DOE Environmental Management Program. <https://www.energy.gov/em/icpcab/idaho-cleanup-project-citizens-advisory-board-icp-cab>
- **Idaho Governors Leadership in Nuclear Energy Commission:** The LINE Commission makes recommendations to the Governor on policies and actions of the State of Idaho to support and enhance the long-term viability and mission of the Idaho National Laboratory and other nuclear industries in Idaho. <https://line.idaho.gov/>

Additional Resources

- U.S. News identified Idaho as the least regulated state in the country. In 2019, 75% of regulatory rules in Idaho were cut or simplified, making government less burdensome on taxpayers and business
- In 2018, Idaho was ranked the third best state for business friendliness by CNBC. Qualifying companies reap the benefits of a variety of state-sponsored tax incentives, property tax exemptions and workforce training grants
- For More information contact the Site Selectors at INL or the Idaho Department of Commerce:
 - <https://inl.gov/inl-siting/>
 - <https://commerce.idaho.gov/site-selection/>



Choose Idaho- Where Energy Industries Succeed

The (Low) Cost of Business

- ✓ Idaho is nationally recognized as the least regulated state in the nation
- ✓ Grants and incentives available to support new business interests
- ✓ Idaho's nimbleness, creative partnerships, and committed leadership increases speed to delivery

A Ready, Energy Skilled Workforce

- ✓ Nearly 60,000 people in Idaho work in the energy business
- ✓ Idaho offers over 60 degrees/certifications and graduates 30,000 students/year



Statewide Innovation and Research Capabilities

- ✓ World expertise in talent, equipment, capability to lead the world in carbon-free energy innovation

Robust Energy Supply, business support, and Infrastructure

- ✓ With easy access to vast natural resources, Idaho can claim that over 80% of its energy is carbon-free.
- ✓ Gateway West, crosses Idaho's geography and will allow for new energy sources to come online in the future.
- ✓ The state is home to a diverse array of businesses in manufacturing, cybersecurity, engineering, materials, etc.