



Energy and Water Appropriations Requests

The following requests are Idaho-related projects supported and sponsored by Senators Crapo and Risch:

Item Name: Boise River Floodplain Mitigation

Amount Requested: \$990,000

Recipient: City of Boise

Location of work: Boise, Idaho

Public Interest: To help reduce flood risk and enhance redevelopment on the Boise River near the cities of Boise and Garden City

Project Description: The project will support a flood study for the Boise River and the design and construction of proposed river channel modifications.

Item Name: Boise State University Visualization Center

Amount Requested: \$2,000,000

Recipient: Boise State University

Location of work: Boise, Idaho

Public Interest: To support the efforts of the National Science Foundation and the National Institutes of Health

Project Description: The proposed Visualization Information Center will consist of a state-of-the-art 3-D visualization, communication, and processing system. This technology will provide the Treasure Valley a diverse array of research tools such as image processing, computational geometry, geometric modeling, computer graphics animation, data analysis, and computational mathematics. The Center would also support real-time video teleconferencing and lectures, webcasts, data-sharing among distributed locations, live field reports, and real-time data acquisition and presentation.

Item Name: Columbia River at the Mouth

Amount Requested: \$21,000,000

Recipient: Pacific Northwest Waterways Association

Location of work: Regional

Public Interest: Safe passage through the Columbia River supports international trade from exporters in the Pacific Northwest, including Idahoans.

Project Description: This project is the first phase of the Mouth of the Columbia River jetty rehabilitation project to improve commercial traffic transit through the Columbia River.

Item Name: Great Feeder Canal Headgate and Fish Screen Project

Amount Requested: \$100,000

Recipient: Great Feeder Canal Company

Location of work: Rigby, Idaho

Public Interest: The South Fork of the Snake River is a national fishery, recreation, and agricultural resource, and the river is a federally-designated Wild and Scenic River.

Project Description: The project will support design of a headgate and fish screen for the Great Feeder Canal, a major irrigation diversion on the South Fork of the Snake River.

Item Name: Green Separation Techniques for Nuclear Waste Recycling

Amount Requested: \$1,144,264

Recipient: University of Idaho

Location of work: Moscow, Idaho

Public Interest: To support the development of more efficient and environmentally-sustainable processes for nuclear waste management

Project Description: This project will develop new processes using environmentally-friendly "green solvents" for the separation of uranium and fission products.

Item Name: Idaho Accelerator Center Production of Medical Isotopes

Amount Requested: \$3,000,000

Recipient: Idaho State University

Location of work: Pocatello, Idaho

Public Interest: To enable the development of a reliable domestic supply of medical isotopes

Project Description: The Idaho Accelerator Center (IAC) will develop a medical isotope production facility to serve regional isotope needs, conduct basic research in isotope production, educate the next generation of medically-related nuclear scientists, and partner with regional and national entities in medical isotope distribution and use. This program would meet regional and national needs in education and isotope production and provide new isotopes that are not currently part of the national isotope portfolio. IAC would complement and enhance the Department of Energy's National Isotope Program.

Item Name: Idaho Environmental Infrastructure Projects

Amount Requested: \$5,000,000

Recipient: U.S. Army Corps of Engineers

Location of work: Rural Idaho

Public Interest: To support environmental infrastructure projects for rural areas in Idaho

Project Description: Funding through this program helps continue and initiate several high-need and high-priority environmental infrastructure projects administered by the U.S. Army Corps of Engineers for rural areas and small communities in Idaho that otherwise would be difficult to accomplish.

Item Name: Idaho National Laboratory Center for Advanced Energy Studies

Amount Requested: \$2,600,000

Recipient: Idaho National Laboratory

Location of work: Idaho Falls, Idaho

Public Interest: To support the education of students through the development of advanced energy systems

Project Description: The Center for Advanced Energy Studies (CAES) is a partnership between the State of Idaho and its academic research institutions and the federal government through the U.S. Department of Energy's Idaho National Laboratory. Through its collaborative structure, CAES combines the efforts of these institutions to provide advanced energy research on both technical and policy issues. These resources will secure equipment that CAES researchers, faculty, and students will use to address the nation's energy challenges through cutting-edge research, while preparing the future energy workforce with expanded educational opportunities and creating and sustaining energy discourse to shape U.S. energy policy.

Item Name: Idaho National Laboratory Research on Liquid Phosphazene

Amount Requested: \$1,000,000

Recipient: Idaho National Laboratory

Location of work: Idaho Falls, Idaho

Public Interest: To support the development of commercially-viable carbon capture technologies

Project Description: This project will support continuation of research on liquid phosphazene for post-combustion carbon dioxide capture.

Item Name: Little Wood River Rehabilitation Project

Amount Requested: \$1,000,000

Recipient: City of Gooding, Idaho

Location of work: Gooding, Idaho

Public Interest: To increase safety to the community and reduce threats to loss of life and property at risk by deterioration of the rock wall in the Little Wood River

Project Description: The project will affect approximately 1.5 miles of the Little Wood River flow within Gooding city limits. In the 1930s and early 40s, the Civilian Conservation Corps constructed a masonry rock wall to channelize the Little Wood River in order to protect the city from floods. Over the years, high water and ice jams have caused severe deterioration of the walls. Large portions of the existing lava rock walls that line the Little Wood River through the city are structurally-unserviceable and many have failed and fallen into the channel. The project will remove and replace the existing rock wall and the boxed culverts that severely restrict the stream channel flow.

Item Name: Lower Clearwater Exchange Project

Amount Requested: \$400,000

Recipient: Lower Clearwater Exchange Project Coalition

Location of work: Lewiston, Idaho

Public Interest: To help address water quality impacts on Endangered Species Act-protected species and habitat

Project Description: The project seeks to permanently resolve impacts to Endangered Species Act-listed Snake River steelhead and critical habitat and to address inadequate water quantity and quality in the Snake River.

Item Name: National Electric Grid Reliability Test Bed

Amount Requested: \$10,000,000

Recipient: Idaho National Laboratory

Location of work: Idaho Falls, Idaho

Public Interest: To support the development of testing facilities in support of smart grid technologies

Project Description: This project will establish a National Electric Reliability Grid Test Bed for evaluating the reliability of our nation's electrical grid infrastructure and for research and development associated with the emerging technologies related to Smart Grid; create a stand-alone power grid infrastructure that would incorporate smart grid technologies for distribution, transmission, and generation and allow full-scale testing without interruption to other INL operations; mitigate the effects of system complexity of smart grid technologies through advanced modeling and digital simulation and real infrastructure testing; and enable the capability to assess architectures and components to mitigate cyber security vulnerabilities prior to full deployment on the power grid.

Item Name: Pocatello Wind Turbine Partnership

Amount Requested: \$1,000,000

Recipient: City of Pocatello

Location of work: Pocatello, Idaho

Public Interest: To support alternative energy supply and economic development

Project Description: The project will install two 1-megawatt wind turbines at the Trail Creek wind turbine farm.

Item Name: Teton Creek Restoration Project

Amount Requested: \$333,333

Recipient: Friends of the Teton River

Location of work: Driggs, Idaho

Public Interest: To support restoration work preventing fragmentation of the Teton Creek Restoration project, stimulate the regional economy, and promote the public-private partnerships that have contributed to this effort

Project Description: The Teton Creek project will protect against flood damage, improve water quality, and restore critical habitat.

Item Name: Third Generation Photovoltaics

Amount Requested: \$1,000,000

Recipient: Idaho State University

Location of work: Pocatello, Idaho

Public Interest: To provide cutting-edge technologies, which can be spun off to create high-tech businesses in Idaho and across the country and create well-trained work forces

Project Description: The objective of this research at Idaho State University is to create environmentally-benign methods and materials for producing next generation photovoltaic technologies and to train the next generation workforces for Idaho's future high-tech industries.

Item Name: Twin Bridges / South Fork Snake River Infrastructure Protection

Amount Requested: \$4,800,000

Recipient: Madison County

Location of work: Rexburg, Idaho

Public Interest: To support a long-term solution to protect water resources by minimizing impact to the river and riparian areas, as well as maintaining economic viability and supporting jobs in the region

Project Description: The project will support river and infrastructure modifications to protect and restore river system function.