

Congress of the United States

Washington, DC 20510

April 29, 2022

The Honorable Marcy Kaptur
Chairwoman
Energy and Water Development
House Appropriations Committee
2362-B Rayburn House Office Building
Washington, DC 20515

The Honorable Mike Simpson
Ranking Member
Energy and Water Development
House Appropriations Committee
1036 Longworth House Office Building
Washington, DC 20515

Dear Chairwoman Kaptur and Ranking Member Simpson:

As you begin work on the Fiscal Year 2023 Energy and Water Appropriations bill, we write to express our strong support for robust and sustained funding for the Department of Energy (DOE) Office of Science.

In June 2021, the House of Representatives passed the DOE Science for the Future Act (H.R. 3593) with overwhelming bipartisan support on a vote of 351-68. The bill was later incorporated into the House-passed America COMPETES Act in February 2022 as part of a larger innovation package. This legislation provides a bold vision on how the DOE Office of Science can help maintain U.S. competitiveness, continue to drive innovation that will create future jobs and boost our economy, and train a highly skilled and diverse science and technology workforce. The legislation also included authorized funding levels that are needed to support new and expanded research initiatives and the timely construction of world-class science facilities. We believe these authorized funding levels should guide future appropriations.

As the nation's primary sponsor of research in the physical sciences, the DOE Office of Science has built—and maintains—a unique collection of 28 large-scale, cutting-edge, one-of-a-kind user facilities relied upon by more than 36,000 researchers annually. Nearly half of these users are university faculty and students from all 50 states. Others come from U.S. industry, and many are conducting research for other key federal science agencies, such as the National Institutes of Health (NIH), the National Science Foundation (NSF), and the Department of Defense (DOD). Without these critical facilities, thousands of users would be forced to move their job-creating research activities overseas or terminate their research altogether.

The DOE Office of Science also supports a first-rate workforce of more than 22,000 research scientists, engineers, and support personnel who work as teams on long-term solutions to some of the nation's greatest challenges and who are ready to tackle pressing problems at a moment's notice. For example, as part of the nation's response to the COVID-19 pandemic, DOE mobilized multi-disciplinary teams from national laboratories, industry, and academia to expedite discovery of antivirals, provide support to Federal, state, and local decisionmakers to accurately forecast disease transmission, and address supply chain bottlenecks for PPE, test kits, and ventilators. Moreover, it plays a unique and critical role in the education of the next generation of American scientific talent, including thousands of graduate students and

postdoctoral researchers at hundreds of U.S. institutions who depend upon DOE Office of Science support and facilities for their research and training.

This collection of research, facilities, and scientific talent has enabled the DOE Office of Science to contribute greatly to our quality of life, our health, and our security. The DOE Office of Science has been integral to the development of several innovative technologies, including MRI machines and PET scans, new composite materials for military hardware and motor vehicles, medical and industrial isotopes, drop-in biofuel technologies, DNA sequencing technologies, more aerodynamic and fuel efficient long-haul trucks, electric vehicle battery technology, an artificial retina, newer and safer nuclear reactor designs, 3-D models of pathogens for vaccine development, tools to manufacture nanomaterials, and better sensors and detectors for biological, chemical, and radioactive materials. The DOE Office of Science's long-standing leadership in high performance computing has enabled countless scientific discoveries.

Looking ahead, Office of Science-supported fundamental research will form the foundation for future energy technologies. The current imperative—energy systems that meet our energy security, economic, and environmental challenges—requires continued, robust investments in all areas of fundamental research to advance all energy systems, including energy storage, negative emission technologies, advanced nuclear, hydrogen, fusion, renewables such as wind and solar, carbon capture, storage and utilization, and next-generation fuels. The Office of Science is also one of the lead federal agencies in advancing critical industries of the future, including quantum information science, artificial intelligence, next-generation high performance computing, microelectronics, advanced communications networks, and biotechnology. These critical investments are major pillars of local and regional economies and can serve as the foundation for ensuring a just transition to clean energy. It is clear that continued innovation and the jobs of the future depend on the Office of Science's ability to maintain U.S. leadership in these critical science and technology areas. As other countries continue to make significant investments in science and technology and specifically in the physical sciences, it is more important than ever to sustain funding for the Office of Science.

By prioritizing funding for DOE scientific research—thereby supporting both the human and physical capital—Congress will preserve our capacity to innovate, reduce our dependence on foreign sources of energy, enhance our competitive edge in the global economy, improve our quality of life, ensure our national security, and create good American jobs well into the future. For these reasons, we urge you to make strong and sustained funding for the DOE Office of Science one of your highest priorities in fiscal year 2023.

Sincerely,



Bill Foster
Member of Congress



Lee Zeldin
Member of Congress



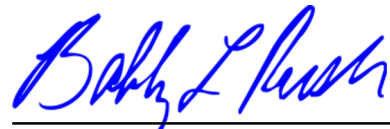
Teresa Leger Fernández
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Randy K. Weber, Sr.
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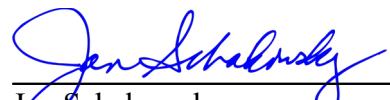
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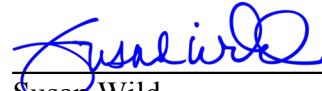
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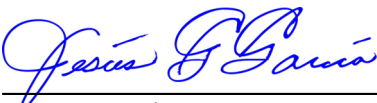
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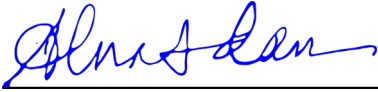
Adam Smith
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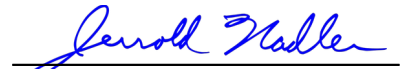
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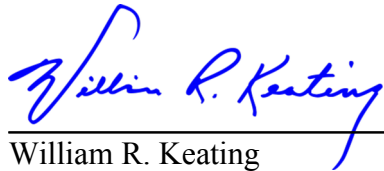
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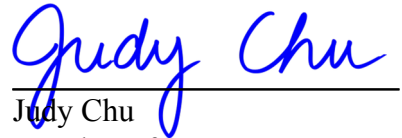
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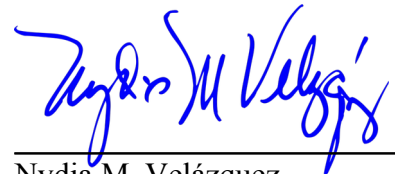
Chellie Pingree
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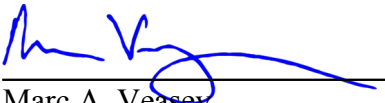
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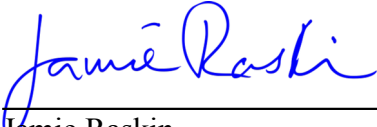
Richard E. Neal
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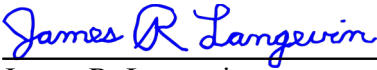
David Scott
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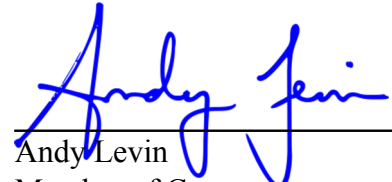
Jamie Raskin
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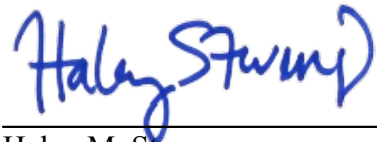
Doris O. Matsui
Member of Congress
, Communications and
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James R. Langevin
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Andy Levin
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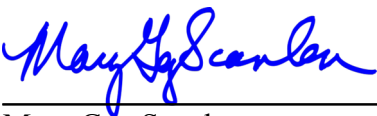
Mark DeSaulnier
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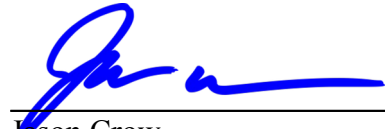
Mary Gay Scanlon
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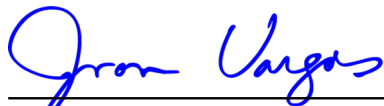
Kim Schrier, M.D.
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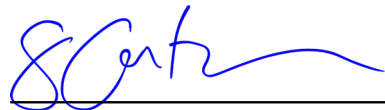
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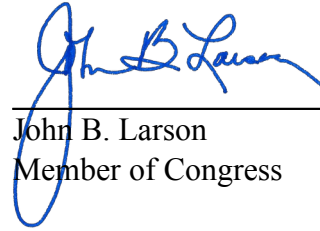
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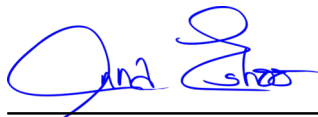
Chrissy Houlahan
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Terri A. Sewell
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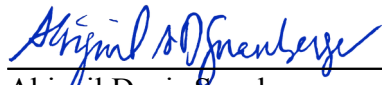
Karen Bass
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Anna G. Eshoo
Member of Congress



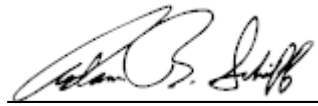
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Bill Pascrell, Jr.
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Ilhan Omar
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Adam Kinzinger
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Scott H. Peters
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Andy Kim
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Jamaal Bowman, Ed.D.
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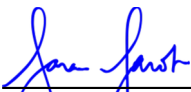
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