



COMMITTEE ON
SCIENCE, SPACE, & TECHNOLOGY
Lamar Smith, Chairman

H.R. 4084, the Nuclear Energy Innovation Capabilities Act

What They're Saying



"Nuclear energy in the U.S. has reliability factors above 90% - higher than any other electricity source - and accounts for 2/3 of our domestic carbon-free energy...H.R. 4084 is an important step in assuring the U.S. leads the world in providing an atmosphere for innovation in development of advanced nuclear reactors that will provide clean, emissions-free energy to a growing population." - **Terra Power**

"The U.S. must recommit itself to improving its advanced reactor technology portfolio in order to maintain its influence over global nuclear safety and nonproliferation norms. This legislation, if enacted, would provide needed support toward that objective." - **American Nuclear Society**



"H.R. 4084 is an important first step toward aligning federal nuclear policies with today's realities, and if enacted, should create a more collaborative relationship among government, research institutions, and private sector to advance nuclear science and promote innovation." - **University of Texas**

"By supporting high performance computation modeling, considering the next steps in an advanced test reactor, preparing the way for private companies to demonstrate innovative new reactor designs, and planning a long-term budget for the advanced nuclear research program, your legislation would provide a foundational understanding of what we must do to advance nuclear innovation and restore U.S. leadership in this critical field." - **Bipartisan Policy Center**



"This legislation will be an important step toward promoting U.S. leadership of advanced nuclear energy and in maintaining U.S. nuclear expertise. In the absence of such new legislation I have concerns for the sustainability of both the present nuclear fleet, which is critical to generating clean baseload electricity today, and for the U.S. to remain a leader in the worldwide competition to advance nuclear technology, which will play an ever-larger role in the global energy market." - **Massachusetts Institute of Technology**

"The Nuclear Energy Innovation Capabilities Act would assist U.S. companies to access to the full range technical capabilities within the federal government and national laboratories; accelerate development of world leading scientific user facilities, and promote broader technology commercialization through public-private partnership initiatives." - **University of Wisconsin - Madison**



"...The legislation provides for the broader enhancement of nuclear engineering capabilities and research programs, that are essential to the timely development of advanced fission reactor systems, fusion energy systems and reactor systems for space exploration." - **University of Michigan**

"...We welcome the focus of the Nuclear Energy Innovation Capabilities Act on enabling civilian research and development of advanced nuclear energy technologies through private-public initiatives including providing state-of-the-art research infrastructure, expanding access to the National Laboratories and encouraging technology transfer to the private sector." - **U.S. Nuclear Infrastructure Council**



"We especially applaud the committee's work in promoting university research and capacity building in this legislation. Universities are a critical component to the future of advanced nuclear technologies, and complement the work being done at our national energy labs....Moreover, we appreciate the committee's recognition that universities are necessary partners in the development of a skilled workforce for the future." - **Texas A&M University**

"The Nuclear Energy Innovation Capabilities Act would assist U.S. companies in accessing the full range of technical capabilities within the federal government and national laboratories; accelerate development of world leading scientific user facilities; and provide a sound public policy basis, with important bipartisan support, for new federal investment in this important field." - **General Atomics**



"[H.R. 4084] would provide much needed research and development capabilities and infrastructure for advanced nuclear energy development, including enhanced computational tools, the construction of a new fast spectrum test reactor, and the establishment of a dedicated budget. This would answer innovators' need for access to federal research and development facilities where they can test their fuels, materials, and coolants, and maximize the safety of their reactors." - **Third Way**

"The United States has been the 'gold standard' for safety of nuclear reactors. If the United States is going to continue to lead, we must step up to the plate on accelerating the development and licensing of the next generation of safer, more economical, more proliferation-resistant nuclear reactors....At X-energy, we believe that HR4084 this is a critical and strategic first step to achieving commercial operation of these advanced nuclear energy plants by the 2030 timeframe." - **X-energy**



HITACHI

"...in our view [H.R. 4084] would demonstrate the U.S. commitment to remaining a leader in delivering the safest, most efficient nuclear technologies in the global marketplace." - **GE-Hitachi**

"[UPower Technologies] support[s] HR4084....We appreciate the focus it brings to key areas to utilize US investments and infrastructure to enhance US innovation in clean energy." - **Upower Technologies, Inc.**



"HR 4084 resolves to prioritize investments in R&D infrastructure that would attract top minds from around the world to conduct cutting edge experiments on materials science, chemistry, and related fields that could yield new products and technical papers otherwise not possible....This legislation would also send a clear signal to the market to bolster investor confidence that the United States is and will be a friendly venue to develop new nuclear technology, including materials, fuels, reactor designs and more." - **American Council for Capital Formation**

"I am very grateful for this opportunity to express our support for the H.R. 4084, the Nuclear Energy Innovation Capabilities Act....Backed by private capital, and together with American universities, National Laboratories, and the U.S. Department of Energy, we seek to push the frontiers of scientific discovery for the benefit of a diverse, carbon-free energy supply and to maintain U.S. leadership in nuclear technology applications." - **Transatomic Power Corporation**



"H.R. 4084 would take several important steps towards improving DOE by helping to establish better integration between foundational and applied research at DOE and by expanding the mechanisms and opportunities available for private sector collaboration with National Labs. Clean Air Task Force strongly supports Section 7 "National Reactor Innovation Center" of H.R. 4084 as an important step in both assessing the mechanisms available to partner with private innovators on advanced nuclear technologies and in advancing the commercialization of those technologies." - **Clean Air Task Force**

"H.R. 4084 would make several improvements at the Department of Energy to help move advanced nuclear technology concepts, including fusion, out of the laboratory and toward commercialization.... We commend you and your staff for recognizing the enormous positive potential that advanced nuclear, including fusion, holds in the United States and for offering thoughtful, bipartisan legislation to move the industry forward." - **Tri Alpha Energy**



"HR 4084 bolsters public-private partnerships among nuclear scientists....The results could have profound implications on nuclear fission and fusion research and significantly increase the speed of progress while also lowering cost and waste, increasing efficiency, and moving the United States to an exponentially more secure energy future." - **American Security Project**

"We firmly believe that the supply of clean, stable, cost effective energy, to meet the growing demands of the world without adversely impacting the environment, is best accomplished by an effective application of nuclear technology. In this endeavor, we are extremely heartened to see the full weight of the United States Government behind us, in the form of H.R. 4084." - **Advanced Reactor Concepts**



"Private companies need the regulatory clarity that your legislation provides US government laboratories need the long-term budget clarity that your legislation provides US regulators and policy makers need the clear view that your legislation provides of what is expected and authorized by our elected officials." - **Joseph B. Lassiter, Harvard Business School Senior Fellow**

"The Bill would ... improve the interaction between our National Laboratories and industry, and would give the U.S. a chance to remain an important player in the nuclear energy field." - **2014 National Medal of Science Recipient & 1976 Nobel Prize in Physics Winner Burton Richter**