The DOE Science for the Future Act is the first comprehensive authorization of the Office of Science, providing for nearly $50 billion over 5 years. It advances cutting-edge science with a responsible, scalable funding increase and provides a strategic roadmap for DOE’s research work.

Overview

Advances Future Energy Technologies
Authorizes basic research to understand energy at molecular and atomic levels and discover innovative materials that will allow us to develop the next-generation of energy technologies like carbon capture, bioenergy, and fusion energy.

Supports Cutting-Edge Scientific Facilities
Conducting big science requires cutting-edge facilities and massive equipment that are unique to our Nation’s National Labs. This bill authorizes construction projects and upgrades of major user facilities while incorporating COVID-19 related impacts.

Increases our Scientific Computing Abilities
This bill authorizes research activities in applied mathematics, computational science, and computer science that are foundational to future scientific computing capabilities. It establishes both a Quantum Network Infrastructure Research and Development program as well as the Quantum User Expansion for Science and Technology (QUEST) program, facilitating access to quantum computing hardware and computing clouds for research purposes.

Helps Address Public Health Challenges
Supports the Biological and Environmental Research program to improve our understanding of biological sciences in everything from microbes to plants to the human genome, helping us improve our environment and better understand and address diseases.

Strengthens our STEM Workforce
The DOE Science for the Future Act supports education initiatives through its Workforce Development for Teachers and Scientists program and general infrastructure projects for research facilities.