



U.S. HOUSE OF REPRESENTATIVES COMMITTEE ON **SCIENCE, SPACE, & TECHNOLOGY**

Ranking Member Zoe Lofgren (D-CA)

Summary of the American Leadership in Fusion Act

The bipartisan [*American Leadership in Fusion Act*](#), sponsored by Rep. Lofgren, the Ranking Member of the House Science, Space, and Technology, Rep. Obernolte, Chairman of the Committee's Research and Technology Subcommittee, and Reps. Beyer, Gallagher, and Trahan, would implement the recommendations in the recent report entitled *Fusion Forward* from a bipartisan Commission of the Special Competitive Studies Project, further informed by recent reports and recommendations from the Department of Energy (DOE), the Fusion Energy Sciences Advisory Committee (FESAC), and the Fusion Industry Association.

Most significantly, if enacted, this bill would provide \$10 billion in direct investments for high-priority activities to accelerate the commercialization of fusion energy. These include:

- \$3.8 billion to build major new test facilities to address fusion materials and fuel cycle challenges, per the top recommendations for new construction of facilities in the most recent FESAC report on project prioritization and the 2026 *DOE Fusion Science & Technology Roadmap*. They would focus on commercial scale testing of:
 - Fuel cycle and blanket technologies
 - The impacts of fusion neutrons on fusion system materials, including through the construction of a fusion neutron source
- \$300 million to build and operate small and mid-sized test facilities to address research priorities identified in the 2026 DOE Fusion Science & Technology Roadmap
- \$800 million for fusion materials and fuel cycle research and development
- \$100 million for R&D, demonstration, and commercial application activities to establish reliable supply chains for critical fusion energy technologies
- \$2 billion for the current milestone-based development program for fusion
- \$3 billion in forward funding for a new milestone-based demonstration program for fusion

The bill would also:

- Update current statutory language authorizing various fusion activities, including:

- significant increases in authorization of 5 years of annual funding for material and fuel cycle R&D (\$150M per year), the milestone programs (\$150M per year), inertial fusion (\$50M per year), and the fusion program overall (5% annual increases from current law as authorized in the CHIPS and Science Act)
 - revision of authorization language to reestablish a distinct alternative concepts program (authorized at \$50M per year)
 - setting specific, robust authorization levels for general plasma science and industrial applications (\$75M per year)
- Add IP protection and DOE lab partnership review provisions to further enable and improve the effectiveness of public-private partnerships, including the milestone programs
- Authorize the establishment of an Office of Fusion led by an Assistant Secretary
 - This is an updated version of H.R. 6709, the bipartisan *Office of Fusion Act*, sponsored by Reps. Beyer, Obernolte, Trahan, and Lawler
 - In addition to fostering a new focus on fusion energy commercialization, also provides substantial direction for the Office of Fusion to support and maintain a broad portfolio of research in general plasma science and industrial applications
- Authorize a fusion workforce development program led by the National Science Foundation in collaboration with DOE
 - This is an updated version of H.R. 4999, the bipartisan *Fusion Workforce Act*, sponsored by Reps. Lofgren and Obernolte
 - Authorizes 5 years of annual funding for NSF (\$30M per year) and DOE (\$15M per year) for these activities