

## House Science, Space, and Technology Committee: Bills on Energy Innovation

### *Passed the House:*

- [\*\*H.R. 34, the Energy and Water Research Integration Act.\*\*](#) Introduced by Chairwoman Johnson, 2 D co-sponsors and 2 R co-sponsors. Authorizes the DOE to consider the use of water in energy systems and use of energy in water extraction and treatment in its research, development, and demonstration (RD&D) programs. ([endorsements](#))

### *Passed out of Full Committee:*

- [\*\*H.R. 2986, the Better Energy Storage Technologies Act.\*\*](#) Introduced by Rep. Foster, 77 D co-sponsors and 22 R co-sponsors. Authorizes a cross-cutting, technology-neutral energy storage RD&D program, including support for demonstration projects. ([endorsements](#))
- [\*\*H.R. 3607, the Fossil Energy Research and Development Act.\*\*](#) Introduced by Rep. Veasey, 6 D co-sponsors and 3 R co-sponsors. Reauthorizes and expands DOE's RD&D activities related to the mitigation of the environmental effects of fossil energy, including carbon capture, storage, and utilization, direct air capture, and methane leak detection and mitigation. ([endorsements](#))
- [\*\*H.R. 3609, the Wind Energy Research and Development Act.\*\*](#) Introduced by Rep. Tonko, 13 D co-sponsors and 2 R co-sponsors. Reauthorizes an RD&D program on wind energy technologies, including onshore, distributed, and offshore wind technologies and their grid integration. ([endorsements](#))
- [\*\*H.R. 3597, the Solar Energy Research and Development Act.\*\*](#) Introduced by Rep. McAdams, 3 D co-sponsors and 1 R co-sponsor. Reauthorizes an RD&D program on solar energy technologies, including photovoltaics, concentrating solar power, solar heating and cooling, and solar grid integration. ([endorsements](#))
- [\*\*H.R. 4091, the ARPA-E Reauthorization Act.\*\*](#) Introduced by Chairwoman Johnson and RM Lucas, 49 D co-sponsors and 23 R co-sponsors. Reauthorizes ARPA-E and expands its authority to work on projects relating to nuclear waste clean-up and management issues and projects to improve energy infrastructure, as well as to pursue scale-up and demonstration of transformational clean energy technologies. ([endorsements](#))
- [\*\*H.R. 4230, the Clean Industrial Technology Act \(CITA\).\*\*](#) Introduced by Rep. Casten, 39 D co-sponsors and 7 R co-sponsors. Authorizes an RD&D program on technologies to reduce emissions from the manufacturing sector, including cement, steel, and chemicals manufacturing processes, high-temperature heat generation, alternative materials, and carbon capture for industrial processes. ([endorsements](#))
- [\*\*H.R. 5428, the Grid Modernization Research and Development Act.\*\*](#) Introduced by Rep. Lamb, 2 D co-sponsor and 2 R co-sponsors. Reauthorizes DOE's RD&D activities

related to electric grid operation and technologies, including grid planning, modeling, controls, and grid integration. ([endorsements](#))

- **[H.R. 5374, the Advanced Geothermal Research and Development Act.](#)** Introduced by RM Lucas and Chairwoman Johnson. Reauthorizes DOE's geothermal energy RD&D activities, including enhanced geothermal research, additional geothermal demonstration projects, and expansion of the DOE's Frontier Observations for Research in Geothermal Energy (FORGE) program. ([endorsements](#))
- **[H.R. 5760, the Grid Security Research and Development Act.](#)** Introduced by Rep. Bera, 1 R co-sponsor. Authorizes an RD&D program on electric grid and energy system cybersecurity, physical security, resiliency, and emergency response, including interagency coordination and cybersecurity workforce development. ([endorsements](#))

*Passed out of Energy Subcommittee:*

- **[H.R. 4481, the Securing Energy Critical Elements and American Jobs Act.](#)** Introduced by Rep. Swalwell, 2 D co-sponsors and 1 R co-sponsor. Authorizes activities to improve critical materials recycling, reduce the reliance on critical materials through greater efficiency and material substitutes, find sustainable new critical materials sources, and better understand the critical materials supply chain and adverse impacts caused by shortages. ([endorsements](#))
- **[H.R. 6084, the Water Power Research and Development Act.](#)** Introduced by Rep. Bonamici, 2 D co-sponsors and 2 R co-sponsors. Reauthorizes DOE's marine and hydropower energy RD&D activities, including guidance for emerging research priorities such as pumped storage hydropower technologies. ([endorsements](#))
- **[H.R. 6097, the Nuclear Energy Research and Development Act.](#)** Introduced by Rep. Lamb, 1 R co-sponsor. Reauthorizes DOE's nuclear energy RD&D activities, including advanced fuel, reactor, and used fuel technologies for both existing plants and advanced nuclear concepts. Also authorizes an advanced reactor demonstration program, funding for the versatile test reactor, educational and technical assistance programs, as well as an international coordination effort. ([endorsements](#))

*Energy R&D bills in development:*

- Technology Transfer/Crosscutting issues
- Vehicles
- DOE Office of Science
- Bioenergy
- Hydrogen/Fuel Cells
- Building Technologies