S 454

ExaSCALE Computing Leadership Act of 2015

Congress: 114 (2015–2017, Ended)
Chamber: Senate
Policy Area: Energy
Introduced: Feb 11, 2015
Current Status: Committee on Energy and Natural Resources. Hearings held. Hearings printed: S.Hrg. 114-344.
Latest Action: Committee on Energy and Natural Resources. Hearings held. Hearings printed: S.Hrg. 114-344. (Jun 9, 2015)
Official Text: https://www.congress.gov/bill/114th-congress/senate-bill/454

Sponsor

Name: Sen. Alexander, Lamar [R-TN]
Party: Republican • **State:** TN • **Chamber:** Senate

Cosponsors (2 total)

Cosponsor	Party / State	Role	Date Joined
Sen. Baldwin, Tammy [D-WI]	D · WI		Feb 11, 2015
Sen. Kirk, Mark Steven [R-IL]	R · IL		Jan 19, 2016

Committee Activity

Committee	Chamber	Activity	Date
Energy and Natural Resources Committee	Senate	Hearings By (full committee)	Jun 9, 2015

Subjects & Policy Tags

Policy Area:

Energy

Related Bills

No related bills are listed.

Summary (as of Feb 11, 2015)

Exascale Computing for Science, Competitiveness, Advanced Manufacturing, Leadership, and the Economy Act of 2015 or the ExaSCALE Computing Leadership Act of 2015

Renames the Department of Energy High-End Computing Revitalization Act of 2004 as the Exascale Computing for Science, Competitiveness, Advanced Manufacturing, Leadership, and the Economy Act of 2015.

Defines "exascale computing" as computing through the use of a computing machine that performs near or above 10 to the 18th power floating point operations per second.

Directs the Secretary of Energy (DOE) to:

- conduct a research program to develop exascale computing machine architectures to promote DOE missions;
- establish national laboratory partnerships with industry partners and institutions of higher education (IHEs) for the research and development of exascale computing systems across all applicable DOE organizations;
- provide, on a competitive, merit-reviewed basis, access for researchers in U.S. industries, IHEs, National Laboratories, and other federal agencies to the exascale computing systems developed under this Act;
- select members for such partnerships through a competitive, peer-review process; and
- execute the program through an integration of application, computer science, and computer hardware architecture using those partnerships to ensure that exascale computing machine architectures are capable of solving DOE target applications and broader scientific problems.

Actions Timeline

- **Jun 9, 2015:** Committee on Energy and Natural Resources. Hearings held. Hearings printed: S.Hrg. 114-344.
- **Feb 11, 2015:** Introduced in Senate
- **Feb 11, 2015:** Read twice and referred to the Committee on Energy and Natural Resources.