## Calendar No. 361

116TH CONGRESS 1ST SESSION

AUTHENTICATED U.S. GOVERNMENT INFORMATION

> To amend the America COMPETES Act to reauthorize the ARPA–E program, and for other purposes.

S. 2714

#### IN THE SENATE OF THE UNITED STATES

October 28, 2019

Mr. VAN HOLLEN (for himself, Mr. ALEXANDER, Mr. GARDNER, and Mr. HEINRICH) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

DECEMBER 17, 2019

Reported by Ms. MURKOWSKI, with amendments

[Omit the part struck through and insert the part printed in italic]

## A BILL

To amend the America COMPETES Act to reauthorize the ARPA–E program, and for other purposes.

1 Be it enacted by the Senate and House of Representa-

2 tives of the United States of America in Congress assembled,

### **3 SECTION 1. SHORT TITLE.**

- 4 This Act may be cited as the "ARPA–E Reauthoriza-
- 5 tion Act of 2019".

1	SEC. 2. ARPA-E AMENDMENTS.
2	(a) GOALS.—Section 5012(c) of the America COM-
3	PETES Act (42 U.S.C. 16538(c)) is amended—
4	(1) in paragraph $(1)$ , by striking subparagraph
5	(A) and inserting the following:
6	"(A) to enhance the economic and energy
7	security of the United States through the devel-
8	opment of energy technologies that—
9	"(i) reduce imports of energy from
10	foreign sources;
11	"(ii) reduce energy-related emissions,
12	including greenhouse gases;
13	"(iii) improve the energy efficiency of
14	all economic sectors; and
15	"(iv) improve the resilience, reliability,
16	and security of infrastructure to produce,
17	deliver, and store energy; and"; and
18	(2) in paragraph $(2)$ , in the matter preceding
19	subparagraph (A), by striking "energy" and insert-
20	ing "advanced".
21	(b) Responsibilities.—Section $5012(e)(3)(A)$ of
22	the America COMPETES Act (42 U.S.C.
23	16538(e)(3)(A)) is amended by striking "energy".
24	(c) AWARDS.—Section 5012(f) of the America COM-
25	PETES Act (42 U.S.C. 16538(f)) is amended—

2

(1) by striking "In carrying" and inserting the
following:
"(1) IN GENERAL.—In carrying"; and
(2) by adding at the end the following:
"(2) Consideration of prior grants.—In
awarding a grant under paragraph (1), the Director
shall take into account the success or failure of any
project carried out by the entity applying for the
grant using any prior grant funds awarded to that
entity by the Director.".
(c)(d) Reports and Roadmaps.—Section $5012(h)$
of the America COMPETES Act (42 U.S.C. 16538(h))
is amended—
(1) in paragraph $(1)$ —
(A) by striking "describing projects" and
inserting the following: "describing—
inserting the following: "describing—
inserting the following: "describing— "(A) projects";
inserting the following: "describing— "(A) projects"; (B) in subparagraph (A) (as so des-
<ul> <li>inserting the following: "describing—</li> <li>"(A) projects";</li> <li>(B) in subparagraph (A) (as so designated), by striking the period at the end and</li> </ul>
<ul> <li>inserting the following: "describing—</li> <li>"(A) projects";</li> <li>(B) in subparagraph (A) (as so designated), by striking the period at the end and inserting ", including projects that examine top-</li> </ul>
<ul> <li>inserting the following: "describing—</li> <li>"(A) projects";</li> <li>(B) in subparagraph (A) (as so designated), by striking the period at the end and inserting ", including projects that examine topics and technologies closely relating to other ac-</li> </ul>
<ul> <li>inserting the following: "describing—</li> <li>"(A) projects";</li> <li>(B) in subparagraph (A) (as so designated), by striking the period at the end and inserting ", including projects that examine topics and technologies closely relating to other activities funded by the Department;" and</li> </ul>

1	porting projects that examine the topics and
2	technologies described in subparagraph (A); and
3	"(C) current, proposed, and planned
4	projects to be carried out pursuant to sub-
5	section $(e)(3)(D)$ ."; and
6	(2) in paragraph (2)—
7	(A) by striking "October 1, 2010, and Oc-
8	tober 1, 2013" and inserting "October 1, 2021,
9	and every 4 years thereafter"; and
10	(B) by striking "3" and inserting "4".
11	(d)(e) Coordination and Nonduplication.—Sec-
12	tion $5012(i)(1)$ of the America COMPETES Act (42
13	U.S.C. 16538(i)(1)) is amended—
14	(1) by striking "that the activities" and insert-
15	ing the following: "that—
16	"(A) the activities";
17	(2) in subparagraph (A) (as so designated), by
18	striking the period at the end and inserting "; and";
19	and
20	(3) by adding at the end the following:
21	"(B) an award is not provided for a
22	project unless the prospective award recipient
23	demonstrates that—
24	"(i) the prospective award recipient
25	has made a sufficient attempt to secure

1	private financing, as determined by the Di-
2	rector; or
3	"(ii) the project is not independently
4	commercially viable.".
5	(c)(f) EVALUATION.—Section 5012(l) of the America
6	COMPETES Act (42 U.S.C. 16538(l)) is amended—
7	(1) in paragraph (1), by striking "After" and
8	all that follows through "years" and inserting "Not
9	later than 3 years after the date of enactment of the
10	ARPA–E Reauthorization Act of 2019"; and
11	(2) in paragraph (2)—
12	(A) in the matter preceding subparagraph
13	(A), by striking "shall" and inserting "may";
14	and
15	(B) in subparagraph (A), by striking "the
16	recommendation of the National Academy of
17	Sciences" and inserting "a recommendation".
18	(f)(g) Authorization of Appropriations.—Sec-
19	tion $5012(0)(2)$ of the America COMPETES Act (42
20	U.S.C. 16538(0)(2)) is amended—
21	(1) in the matter preceding subparagraph (A),
22	by striking "paragraphs (4) and (5)" and inserting
23	"paragraph (4)"; and
24	(2) by striking subparagraphs (A) through (E)
25	and inserting the following:

1	"(A) \$428,000,000 for fiscal year 2020;
2	"(B) \$497,000,000 for fiscal year 2021;
3	"(C) \$567,000,000 for fiscal year 2022;
4	"(D) \$651,000,000 for fiscal year 2023;
5	and
6	"(E) \$750,000,000 for fiscal year 2024.".
7	(g)(h) Technical Amendments.—Section 5012 of
8	the America COMPETES Act (42 U.S.C. 16538) is
9	amended—
10	(1) in subsection $(g)(3)(A)(iii)$ , by striking
11	"subpart" each place it appears and inserting "sub-
12	paragraph"; and
13	(2) in subsection $(0)(4)(B)$ , by striking
14	"(c)(2)(D)" and inserting "(c)(2)(C)".

Calendar No. 361

116TH CONGRESS S. 2714

# A BILL

To amend the America COMPETES Act to reauthorize the ARPA–E program, and for other purposes.

December 17, 2019

Reported with amendments