

117TH CONGRESS
2D SESSION

H. R. 7360

To require the Secretary of Energy to establish a program to provide Federal financial assistance to support advanced nuclear reactors and associated supply chain infrastructure, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

APRIL 1, 2022

Mr. MICHAEL F. DOYLE of Pennsylvania (for himself, Mr. GONZALEZ of Ohio, Mr. LAMB, and Mr. DONALDS) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committee on Science, Space, and Technology, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To require the Secretary of Energy to establish a program to provide Federal financial assistance to support advanced nuclear reactors and associated supply chain infrastructure, 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 “Fission for the Future
5 Act of 2022”.

1 **SEC. 2. ADVANCED NUCLEAR TECHNOLOGIES FEDERAL FI-**
2 **NANCIAL ASSISTANCE PROGRAM.**

3 (a) DEFINITIONS.—In this section:

4 (1) ADVANCED NUCLEAR REACTOR.—The term
5 “advanced nuclear reactor” has the meaning given
6 the term in section 951(b) of the Energy Policy Act
7 of 2005 (42 U.S.C. 16271(b)).

8 (2) ELECTRIC UTILITY.—The term “electric
9 utility” has the meaning given the term in section
10 3 of the Federal Power Act (16 U.S.C. 796).

11 (3) ELIGIBLE ENTITY.—The term “eligible enti-
12 ty” means each of—

13 (A) a State;

14 (B) an Indian Tribe (as defined in section
15 4 of the Indian Self-Determination and Edu-
16 cation Assistance Act (25 U.S.C. 5304));

17 (C) a Tribal Organization (as defined in
18 section 4 of the Indian Self-Determination and
19 Education Assistance Act (25 U.S.C. 5304));

20 (D) a unit of local government;

21 (E) an electric utility;

22 (F) a National Laboratory;

23 (G) an institution of higher education; and

24 (H) a private entity specializing in—

25 (i) advanced nuclear technology devel-
26 opment;

- 1 (ii) nuclear supply chains; or
 2 (iii) with respect to nuclear tech-
 3 nologies and nonelectric applications of nu-
 4 clear technologies, construction, project fi-
 5 nancing, contract structuring and risk allo-
 6 cation, or regulatory and licensing proc-
 7 esses.

8 (4) INSTITUTION OF HIGHER EDUCATION.—The
 9 term “institution of higher education” has the
 10 meaning given the term in section 101(a) of the
 11 Higher Education Act of 1965 (20 U.S.C. 1001(a)).

12 (5) NATIONAL LABORATORY.—The term “Na-
 13 tional Laboratory” has the meaning given the term
 14 in section 2 of the Energy Policy Act of 2005 (42
 15 U.S.C. 15801).

16 (6) PROGRAM.—The term “program” means
 17 the program established under subsection (b)(1).

18 (7) SECRETARY.—The term “Secretary” means
 19 the Secretary of Energy.

20 (b) ESTABLISHMENT OF PROGRAM.—

21 (1) IN GENERAL.—The Secretary shall establish
 22 a program to provide Federal financial assistance to
 23 eligible entities to support the commercial planning,
 24 licensing, development, and construction, and con-
 25 struction planning, of—

(A) advanced nuclear reactors for the purpose of enhancing grid resilience, reliability, and security while also seeking to reduce emissions; or

(B) supply chain infrastructure associated with advanced nuclear reactors or related technologies.

(2) COMPETITIVE PROCEDURES.—To the maximum extent practicable, the Secretary shall carry out the program using a competitive, merit-based review process that is consistent with section 989 of the Energy Policy Act of 2005 (42 U.S.C. 16353).

(c) APPLICATIONS.—An eligible entity desiring Federal financial assistance under the program shall submit to the Secretary an application at such time, in such manner, and containing such information as the Secretary may require.

(d) SELECTION.—

(1) IN GENERAL.—In selecting eligible entities to receive Federal financial assistance under the program, the Secretary shall give special consideration to projects—

(A) to develop or provide services to support—

(i) market analysis;

- 1 (ii) project structure models;
- 2 (iii) models for electricity market
- 3 analysis;
- 4 (iv) nonelectric applications;
- 5 (v) financial models;
- 6 (vi) analysis, planning, and, as appro-
- 7 priate, management of environmental
- 8 issues at fossil fuel electric generation fa-
- 9 cilities that are retired or scheduled to re-
- 10 tire; and
- 11 (vii) site planning, review, testing,
- 12 analysis, and preparation;
- 13 (B) to support licensing activities, permit-
- 14 ting, and environmental impact studies; and
- 15 (C) for—
- 16 (i)(I) the construction planning of ad-
- 17 vanced nuclear reactors; and
- 18 (II) related—
- 19 (aa) planning and construction of
- 20 transmission and distribution systems;
- 21 (bb) modernization of generation
- 22 facilities;
- 23 (cc) development of microgrids;
- 24 and
- 25 (dd) supply chain infrastructure;

- 1 (ii) infrastructure for nonelectric ap-
- 2 plications; and
- 3 (iii) acquisition of relevant rights-of-
- 4 way.

5 (2) PRIORITY.—In selecting eligible entities to
6 receive Federal financial assistance under the pro-
7 gram, the Secretary shall give priority to eligible en-
8 tities that—

9 (A) plan to carry out projects at or near
10 the site of 1 or more fossil fuel electric genera-
11 tion facilities that are retired or scheduled to
12 retire, including multi-unit facilities that are
13 partially shut down—

14 (i) to reduce the cost of—

- 15 (I) infrastructure requirements;
- 16 (II) transmission requirements;
- 17 and
- 18 (III) licensing and permitting re-
- 19 quirements;

20 (ii) to support the productive reuse of
21 fossil fuel electric generation facilities that
22 are retired or scheduled to retire; and

23 (iii) to sustain and revitalize commu-
24 nities impacted by the closure of fossil fuel
25 electric generation facilities;

(B) plan to support nonelectric applications, including supplying heat for—

- (i) energy storage;
- (ii) hydrogen or other liquid and gaseous fuel or chemical production;
- (iii) industrial processes;
- (iv) desalination technologies and processes;
- (v) isotope production;
- (vi) district heating; and
- (vii) other applications, as the Secretary determines to be appropriate;

(C) plan to support supply chain infrastructure, including manufacturing, associated with advanced nuclear reactors or related technologies;

(D) have implemented or demonstrated the ability to successfully implement workforce training or retraining programs to train workers to perform activities described in this section; and

(E) plan to be cost competitive.

(e) COST SHARE.—Section 988 of the Energy Policy Act of 2005 (42 U.S.C. 16352) shall apply to Federal financial assistance provided under the program.

1 **SEC. 3. WORKFORCE CAPACITY BUILDING.**

2 Section 954(b) of the Energy Policy Act of 2005 (42
3 U.S.C. 16274(b)) is amended—

4 (1) in the subsection heading, by striking
5 “GRADUATE”;

6 (2) by striking “graduate” each place it ap-
7 pears;

8 (3) in paragraph (2)(A), by inserting “commu-
9 nity colleges, trade schools, registered apprenticeship
10 programs, pre-apprenticeship programs” after “uni-
11 versities,”;

12 (4) in paragraph (3), by striking “2021
13 through 2025” and inserting “2023 through 2027”;

14 (5) by redesignating paragraph (3) as para-
15 graph (4); and

16 (6) by inserting after paragraph (2) the fol-
17 lowing:

18 “(3) FOCUS AREAS.—In carrying out the sub-
19 program under this subsection, the Secretary may
20 implement traineeships in focus areas that, in the
21 determination of the Secretary, are necessary to sup-
22 port the nuclear energy sector in the United States,
23 including—

24 “(A) research and development;

25 “(B) construction and operation;

26 “(C) associated supply chains; and

1 “(D) workforce training and retraining to
2 support transitioning workforces.”.

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