

119TH CONGRESS
1ST SESSION

S. _____

To amend the Department of Energy Organization Act to reestablish an
office relating to fusion.

IN THE SENATE OF THE UNITED STATES

Mr. PADILLA introduced the following bill; which was read twice and referred
to the Committee on _____

A BILL

To amend the Department of Energy Organization Act to
reestablish an office relating to fusion.

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 “Office of Fusion Act
5 of 2025”.

6 **SEC. 2. REESTABLISHMENT OF DEPARTMENT OF ENERGY**

7 **OFFICE RELATING TO FUSION.**

8 (a) OFFICE OF FUSION.—Title II of the Department
9 of Energy Organization Act is amended by inserting after
10 section 215 (42 U.S.C. 7144b) the following:

1 **“SEC. 216. OFFICE OF FUSION.**

2 “(a) ESTABLISHMENT.—The Secretary shall estab-
3 lish the Office of Fusion (referred to in this section as
4 the ‘Office’) within the Department to advance near-term
5 and long-term fusion energy science and technology to
6 meet the energy, environmental, and economic needs of
7 the United States.

8 “(b) PURPOSES.—The purposes of the Office shall
9 be—

10 “(1) to enhance the economic and energy secu-
11 rity of the United States;

12 “(2) to maintain United States leadership in fu-
13 sion energy technologies;

14 “(3) to advance fusion energy, in partnership
15 with the private sector, to accelerate research, devel-
16 opment, demonstration, deployment, and market
17 adoption of fusion technologies;

18 “(4) to manage, through the Fusion Innovation
19 Center established under subsection (g), public-pri-
20 vate partnerships with the United States fusion in-
21 dustry to accelerate successful deployment of first
22 commercial fusion power plants, with a goal to start
23 construction of more than 1 private-sector fusion
24 power plant not later than December 31, 2028;

1 “(5) to ensure an adequate national fusion sup-
2 ply chain infrastructure, including manufacturing
3 capabilities;

4 “(6) to serve in a coordination role to align the
5 capabilities of the Office of Science for basic re-
6 search, the Advanced Research Projects Agency—
7 Energy for early technology development, and the
8 National Nuclear Security Administration for iner-
9 tial confinement fusion-relevant technologies to serve
10 a single goal of accelerating commercial plant de-
11 ployment while meeting high standards for safety;

12 “(7) to expand international fusion energy co-
13 operation to support commercialization of fusion en-
14 ergy;

15 “(8) to ensure the availability of a well-trained
16 workforce to support the fusion industry;

17 “(9) to provide technical expertise to regulators
18 of fusion machines at the Federal, State, and inter-
19 national levels; and

20 “(10) to partner with other agencies to support
21 programs and initiatives to facilitate international
22 market opportunities for the United States commer-
23 cial fusion industry.

24 “(c) DIRECTOR.—The head of the Office shall be a
25 Director selected by the Secretary.

1 “(d) CONSOLIDATION OF FUSION OFFICES.—The
2 Secretary shall—

3 “(1) conduct outreach to obtain stakeholder
4 feedback from the private and public sectors relating
5 to identifying the relevant commercially oriented De-
6 partment programs involved in fusion, including pro-
7 grams under the Office of Science, that should be
8 transferred to the Office, including any milestone-
9 based private sector funding programs and the Inno-
10 vation Network for Fusion Energy public-private
11 partnership program; and

12 “(2) develop a timeline for transferring the pro-
13 grams identified under paragraph (1).

14 “(e) CONSULTATION.—In carrying out the duties of
15 the Office, the Director shall consult with the private sec-
16 tor, National Laboratories, institutions of higher edu-
17 cation, and the public as to how to optimize the organiza-
18 tion of the various programs within the Department.

19 “(f) FUSION DEMONSTRATION PROGRAM VISION.—

20 “(1) IN GENERAL.—Not later than 180 days
21 after the date of enactment of the Office of Fusion
22 Act of 2025, the Secretary and the Director shall
23 submit to Congress a commercial deployment road-
24 map that—

25 “(A) identifies key barriers; and

1 “(B) describes specific activities to over-
2 come those barriers and meet key deployment
3 milestones, including activities such as early-
4 stage technology development, regulatory
5 streamlining, demonstration projects, and sup-
6 ply chain manufacturing.

7 “(2) PERIODIC REPORT.—The Secretary and
8 the Director shall submit to Congress an updated
9 roadmap under paragraph (1)—

10 “(A) every 4 years; or

11 “(B) appended to another periodic energy
12 report, as determined by the Secretary and the
13 Director.

14 “(g) FUSION INNOVATION CENTER.—

15 “(1) IN GENERAL.—The Director shall establish
16 within the Office a center, to be known as the ‘Fu-
17 sion Innovation Center’, to lead public-private part-
18 nerships that facilitate commercial deployment of fu-
19 sion.

20 “(2) NATIONAL LABORATORY.—The Fusion In-
21 novation Center established under paragraph (1)
22 shall be based at a National Laboratory (as defined
23 in section 2 of the Energy Policy Act of 2005 (42
24 U.S.C. 15801)), or a university in the United States,

1 with a dedicated and established fusion energy pro-
2 gram that—

3 “(A) has demonstrated fusion technology
4 advances;

5 “(B) has received funding from the Fusion
6 Energy Sciences program of the Office of
7 Science; and

8 “(C) has a facility capable of creating
9 burning plasma and fusion relevant conditions.

10 “(h) COORDINATION AND NONDUPLICATION.—

11 “(1) IN GENERAL.—To the maximum extent
12 practicable, the Director shall ensure that the activi-
13 ties of the Office are coordinated with, and do not
14 duplicate the efforts of, other programs and labora-
15 tories within the Department and other relevant re-
16 search agencies.

17 “(2) TECHNOLOGY TRANSFER COORDINA-
18 TION.—To the extent appropriate, the Director may
19 coordinate with the Chief Commercialization Officer
20 appointed under section 1001(a)(4) of the Energy
21 Policy Act of 2005 (42 U.S.C. 16391(a)(4)).”.

22 (b) FUSION ENERGY UNDER ASSISTANT SEC-
23 RETARY.—Section 203(a)(2) of the Department of Energy
24 Organization Act (42 U.S.C. 7133(a)(2)) is amended—

1 (1) by redesignating subparagraphs (C), (D),
2 and (E) as subparagraphs (D), (E), and (F), respec-
3 tively; and

4 (2) by inserting after subparagraph (B) the fol-
5 lowing:

6 “(C) fusion energy resources;”.

7 (c) CLERICAL AMENDMENT.—The table of contents
8 for the Department of Energy Organization Act (Public
9 Law 95–91; 91 Stat. 565; 119 Stat. 764; 133 Stat. 2199)
10 is amended by inserting after the item relating to section
11 215 the following:

 “Sec. 216. Office of Fusion.”.