

Union Calendar No. 183

117TH CONGRESS
2^D SESSION

H. R. 4588

[Report No. 117-254]

To amend the Stevenson-Wydler Technology Innovation Act of 1980 to establish a regional technology and innovation hub program, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JULY 20, 2021

Ms. WILD (for herself, Mr. BAIRD, Mr. BOWMAN, Mr. GONZALEZ of Ohio, and Mr. KHANNA) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

FEBRUARY 28, 2022

Additional sponsors: Ms. STEVENS and Mr. MORELLE

FEBRUARY 28, 2022

Reported with an amendment; committed to the Committee of the Whole House on the State of the Union and ordered to be printed

[Strike out all after the enacting clause and insert the part printed in italic]

[For text of introduced bill, see copy of bill as introduced on July 20, 2021]

A BILL

To amend the Stevenson-Wydler Technology Innovation Act of 1980 to establish a regional technology and innovation hub 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; TABLE OF CONTENTS.**

4 (a) *SHORT TITLE.*—*This Act may be cited as the “Re-*
 5 *gional Innovation Act of 2021”.*

6 (b) *TABLE OF CONTENTS.*—*The table of contents for*
 7 *this Act is as follows:*

Sec. 1. Short title; table of contents.

Sec. 2. Regional Innovation Capacity.

Sec. 3. Regional Clean Energy Innovation Program.

Sec. 4. Critical technology and innovation analytics program.

8 **SEC. 2. REGIONAL INNOVATION CAPACITY.**

9 (a) *IN GENERAL.*—*The Stevenson-Wydler Technology*
 10 *Innovation Act of 1980 (Public Law 96–480; 15 U.S.C.*
 11 *3701 et seq.) is amended—*

12 (1) *by redesignating section 28 as section 29;*

13 *and*

14 (2) *by inserting after section 27 the following:*

15 **“SEC. 28. REGIONAL TECHNOLOGY AND INNOVATION HUB**
 16 **PROGRAM.**

17 *“(a) DEFINITIONS.—In this section:*

18 *“(1) APPROPRIATE COMMITTEES OF CON-*
 19 *GRESS.—The term ‘appropriate committees of Con-*
 20 *gress’ means—*

21 *“(A) the Committee on Commerce, Science,*
 22 *and Transportation, the Committee on Environ-*

1 *ment and Public Works, and the Committee on*
2 *Appropriations of the Senate; and*

3 “(B) *the Committee on Science, Space, and*
4 *Technology and the Committee on Appropria-*
5 *tions of the House of Representatives.*

6 “(2) *COOPERATIVE EXTENSION SERVICES.—The*
7 *term ‘cooperative extension services’ has the meaning*
8 *given the term in section 1404 of the Food and Agri-*
9 *culture Act of 1977 (7 U.S.C. 3103).*

10 “(3) *HISTORICALLY BLACK COLLEGES AND UNI-*
11 *VERSITIES.—The term ‘historically Black colleges and*
12 *universities’ has the meaning given the term ‘part B*
13 *institution’ in section 322 of the Higher Education*
14 *Act of 1965 (20 U.S.C. 1061);*

15 “(4) *LABOR ORGANIZATION.—The term ‘labor or-*
16 *ganization’ has the meaning given the term in section*
17 *2(5) of the National Labor Relations Act (29 U.S.C.*
18 *152(5)), except that such term shall also include—*

19 “(A) *any organization composed of labor*
20 *organizations, such as a labor union federation*
21 *or a State or municipal labor body; and*

22 “(B) *any organization which would be in-*
23 *cluded in the definition for such term under such*
24 *section (5) but for the fact that the organization*
25 *represents—*

1 “(i) individuals employed by the
2 United States, any wholly owned Govern-
3 ment corporation, any Federal Reserve
4 Bank, or any State or political subdivision
5 thereof;

6 “(ii) individuals employed by persons
7 subject to the Railway Labor Act (45 U.S.C.
8 151 et seq.); or

9 “(iii) individuals employed as agricul-
10 tural laborers.

11 “(5) *MANUFACTURING EXTENSION CENTER*.—The
12 term ‘manufacturing extension center’ has the mean-
13 ing given the term ‘Center’ in section 25(a) of the Na-
14 tional Institute of Standards and Technology Act (15
15 U.S.C. 278k(a)).

16 “(6) *MANUFACTURING USA INSTITUTE*.—The
17 term ‘Manufacturing USA institute’ means a Manu-
18 facturing USA institute described in section 34(d) of
19 the National Institute of Standards and Technology
20 Act (15 U.S.C. 278s(d)).

21 “(7) *MINORITY-SERVING INSTITUTION*.—The
22 term ‘minority-serving institution’ means a His-
23 panic-serving institution, an Alaska Native-serving
24 institution, a Native Hawaiian-serving institutions, a
25 Predominantly Black Institution, an Asian American

1 *and Native American Pacific Islander-serving institu-*
2 *tion, or a Native American-serving nontribal institu-*
3 *tion as described in section 371(a) of the Higher Edu-*
4 *cation Act of 1965 (20 U.S.C. 1067q(a)).*

5 “(8) *SITE CONNECTIVITY INFRASTRUCTURE.*—
6 *The term ‘site connectivity infrastructure’ means lo-*
7 *calized driveways and access roads to a facility as*
8 *well as hookups to the new facility for drinking*
9 *water, waste water, broadband, and other basic infra-*
10 *structure services already present in the area.*

11 “(9) *STATE.*—*The term ‘state’ has the meaning*
12 *given such term in section 27(a) of the Stevenson-*
13 *Wylder Act of 1980 (15 U.S.C. 3722(a)).*

14 “(10) *TRIBAL COLLEGE OR UNIVERSITY.*—*The*
15 *term ‘Tribal College or University’ has the meaning*
16 *given such term in section 316 of the Higher Edu-*
17 *cation Act of 1965 (20 U.S.C. 1059c).*

18 “(11) *VENTURE DEVELOPMENT ORGANIZATION.*—
19 *The term ‘venture development organization’ has the*
20 *meaning given such term in section 27(a) of the Ste-*
21 *venson-Wylder Act of 1980 (15 U.S.C. 3722(a)).*

22 “(12) *COMMUNITY DEVELOPMENT FINANCIAL IN-*
23 *STITUTION.*—*The term ‘community development fi-*
24 *nancial institution’ has the meaning given in section*

1 103 of the Community Development Banking and Fi-
2 nancial Institutions Act of 1994 (12 U.S.C. 4702).

3 “(13) *MINORITY DEPOSITORY INSTITUTION.*—The
4 term ‘minority depository institution’ means an enti-
5 ty that is—

6 “(A) a minority depository institution, as
7 defined in section 308 of the Financial Institu-
8 tions Reform, Recovery, and Enforcement Act of
9 1989 (12 U.S.C. 1463 note); or

10 “(B) considered to be a minority depository
11 institution by—

12 “(i) the appropriate Federal banking
13 agency; or

14 “(ii) the National Credit Union Ad-
15 ministration, in the case of an insured cred-
16 it union.

17 “(b) *REGIONAL TECHNOLOGY AND INNOVATION HUB*
18 *PROGRAM.*—

19 “(1) *IN GENERAL.*—Subject to the availability of
20 appropriations, the Secretary shall carry out a pro-
21 gram—

22 “(A) to encourage new and constructive col-
23 laboration among local, State, and Federal gov-
24 ernment entities, institutions of higher edu-
25 cation, the private sector, economic development

1 *organizations, labor organizations, worker coop-*
2 *erative membership associations, State or local*
3 *employee ownership and cooperative development*
4 *centers, nonprofit organizations, and community*
5 *organizations to promote inclusive regional inno-*
6 *vation initiatives;*

7 *“(B) to support eligible consortia in the de-*
8 *velopment and implementation of regional inno-*
9 *vation strategies;*

10 *“(C) to designate eligible consortia as re-*
11 *gional technology and innovation hubs and fa-*
12 *cilitate activities by consortia designated as re-*
13 *gional technology and innovation hubs in imple-*
14 *menting their regional innovation strategies—*

15 *“(i) to enable United States leadership*
16 *in technology and innovation sectors crit-*
17 *ical to national and economic security;*

18 *“(ii) to support regional economic de-*
19 *velopment and resilience, including in small*
20 *cities and rural areas, and promote in-*
21 *creased geographic diversity of innovation*
22 *across the United States;*

23 *“(iii) to promote the benefits of tech-*
24 *nology development and innovation for all*

1 *Americans, including underserved commu-*
2 *nities and vulnerable communities;*

3 “(iv) to support domestic job creation
4 and broad-based economic growth; and

5 “(v) to improve the pace of market
6 readiness, industry maturation, and overall
7 commercialization of innovative research;

8 “(D) to ensure that the regional technology
9 and innovation hubs address the intersection of
10 emerging technologies and either regional chal-
11 lenges or national challenges; and

12 “(E) to conduct ongoing research, evalua-
13 tion, analysis, and dissemination of best prac-
14 tices for regional development and competitive-
15 ness in technology and innovation.

16 “(2) AWARDS.—*The Secretary shall carry out*
17 *the program required by paragraph (1) through the*
18 *award of the following:*

19 “(A) *Strategy development grants or cooper-*
20 *ative agreements to eligible consortia under sub-*
21 *section (e).*

22 “(B) *Strategy implementation grants or co-*
23 *operative agreements to regional technology and*
24 *innovation hubs under subsection (f).*

1 “(c) *ELIGIBLE CONSORTIA*.—For purposes of this sec-
2 tion, an eligible consortium is a consortium that—

3 “(1) includes 1 or more of each of the fol-
4 lowing—

5 “(A) institutions of higher education, which
6 may include *Historically Black Colleges and*
7 *Universities, Tribal Colleges and Universities,*
8 *and minority-serving institutions;*

9 “(B) State, local, or Tribal governments or
10 other political subdivisions of a State, including
11 State and local agencies, or a consortia thereof;

12 “(C) industry or firms in relevant tech-
13 nology or innovation sectors;

14 “(D) labor organizations or workforce train-
15 ing organizations, which may include State and
16 local workforce development boards as established
17 under section 101 and 107 of the *Workforce In-*
18 *vestment and Opportunity Act (29 U.S.C. 3111;*
19 *3122); and*

20 “(E) organizations that contribute to in-
21 creasing the participation of underserved popu-
22 lations in science, technology, innovation, and
23 entrepreneurship; and

24 “(2) may include 1 or more—

1 “(A) economic development entities with rel-
2 evant expertise, including a district organization
3 (as defined in section 300.3 of title 13, Code of
4 Federal Regulations, or successor regulation);

5 “(B) economic development organizations or
6 similar entities that are focused primarily on
7 improving science, technology, innovation, entre-
8 preneurship, or access to capital;

9 “(C) venture development organizations;

10 “(D) worker cooperative membership asso-
11 ciations and state or local employee ownership
12 and cooperative development centers;

13 “(E) financial institutions and investment
14 funds, including community development finan-
15 cial institutions and minority depository insti-
16 tutions;

17 “(F) elementary schools and secondary
18 schools, including area career and technical edu-
19 cation schools (as defined in section 3 of the Carl
20 D. Perkins Career and Technical Education Act
21 of 2006 (29 U.S.C. 2302);

22 “(G) National Laboratories (as defined in
23 section 2 of the Energy Policy Act of 2005 (42
24 U.S.C. 15801));

25 “(H) Federal laboratories;

1 “(I) *Manufacturing extension centers;*
2 “(J) *Manufacturing USA institutes;*
3 “(K) *transportation planning organiza-*
4 *tions;*
5 “(L) *a cooperative extension services; and*
6 “(M) *organizations that represent the per-*
7 *spectives of underserved communities in eco-*
8 *nom ic development initiatives.*

9 “(d) *DESIGNATION OF REGIONAL TECHNOLOGY AND*
10 *INNOVATION HUBS.—*

11 “(1) *IN GENERAL.—In carrying out subsection*
12 *(b)(1)(C), the Secretary shall use a competitive,*
13 *merit-review process to designate not fewer than 10*
14 *eligible consortia as regional technology and innova-*
15 *tion hubs.*

16 “(2) *GEOGRAPHIC DISTRIBUTION.—In con-*
17 *ducting the competitive process under paragraph (1),*
18 *the Secretary shall ensure geographic distribution in*
19 *the designation of regional technology and innovation*
20 *hubs by—*

21 “(A) *focusing on localities that are not lead-*
22 *ing technology centers;*

23 “(B) *ensuring that not fewer than one third*
24 *of eligible consortia designated as regional tech-*

1 *nology and innovation hubs significantly benefit*
2 *a rural or other underserved community;*

3 “(C) *ensuring that at least one eligible con-*
4 *sortium designated as a regional technology and*
5 *innovation hub is headquartered in a State that*
6 *is eligible to receive funding from the Established*
7 *Program to Stimulate Competitive Research of*
8 *the National Science Foundation; and*

9 “(D) *ensuring that at least one eligible con-*
10 *sortium designated as a regional technology and*
11 *innovation hub is headquartered in a region that*
12 *has a high density of institutions of higher edu-*
13 *cation serving populations historically underrep-*
14 *resented in STEM, including historically Black*
15 *Colleges and Universities and minority-serving*
16 *institutions.*

17 “(3) *RELATION TO CERTAIN GRANT AWARDS.—*
18 *The Secretary shall not require an eligible consortium*
19 *to receive a grant or cooperative agreement under*
20 *subsection (e) in order to be designated as a regional*
21 *technology and innovation hub under paragraph (1)*
22 *of this subsection.*

23 “(e) *STRATEGY DEVELOPMENT GRANTS AND COOPER-*
24 *ATIVE AGREEMENTS.—*

1 “(1) *IN GENERAL.*—*The Secretary shall use a*
2 *competitive, merit-review process to award grants or*
3 *cooperative agreements to eligible consortia for the de-*
4 *velopment of regional innovation strategies.*

5 “(2) *NUMBER OF RECIPIENTS.*—*The Secretary*
6 *shall award a grant or cooperative agreement under*
7 *paragraph (1) to not fewer than 20 eligible consortia.*

8 “(3) *GEOGRAPHIC DIVERSITY AND REPRESENTA-*
9 *TION.*—

10 “(A) *IN GENERAL.*—*The Secretary shall*
11 *carry out paragraph (1) in a manner that en-*
12 *sures geographic diversity and representation*
13 *from communities of differing populations.*

14 “(B) *AWARDS TO RURAL COMMUNITIES AND*
15 *UNDERSERVED COMMUNITIES.*—*In carrying out*
16 *paragraph (1), the Secretary shall award not*
17 *fewer than one-half of the grants and cooperative*
18 *agreements under such paragraph to eligible con-*
19 *sortia that significantly benefit a rural state,*
20 *rural community, or other underserved commu-*
21 *nity.*

22 “(4) *USE OF FUNDS.*—*The amount of a grant or*
23 *cooperative agreement awarded under paragraph (1)*
24 *shall be as follows:*

1 “(A) To coordinate locally defined planning
2 processes, across jurisdictions and agencies, re-
3 lating to developing a comprehensive regional
4 technology strategy.

5 “(B) To identify regional partnerships for
6 developing and implementing a comprehensive
7 regional technology strategy.

8 “(C) To conduct or update assessments to
9 determine regional needs and capabilities.

10 “(D) To develop or update goals and strate-
11 gies to implement an existing comprehensive re-
12 gional plan.

13 “(E) To identify or implement planning
14 and local zoning and other code changes nec-
15 essary to implement a comprehensive regional
16 technology strategy.

17 “(F) To develop or update goals for ensur-
18 ing that any new regional technology strategy
19 mitigates and does not exacerbate economic or
20 social inequities in a region.

21 “(5) FEDERAL SHARE.—The Federal share of the
22 cost of an effort carried out using a grant or coopera-
23 tive agreement awarded under this subsection may
24 not exceed 80 percent—

1 “(A) where in-kind contributions may be
2 used for all or part of the non-Federal share, but
3 Federal funding from other government sources
4 may not count towards the non-Federal share;

5 “(B) except in the case of an eligible consor-
6 tium that represents all or part of a rural or
7 other underserved community, the Federal share
8 may be up to 90 percent of the total cost, subject
9 to subparagraph (A); and

10 “(C) except in the case of an eligible consor-
11 tium that is led by a Tribal government, the
12 Federal share may be up to 100 percent of the
13 total cost of the project.

14 “(f) STRATEGY IMPLEMENTATION GRANTS AND COOP-
15 ERATIVE AGREEMENTS.—

16 “(1) IN GENERAL.—The Secretary shall use a
17 competitive, merit-review process to award grants or
18 cooperative agreements to regional technology and in-
19 novation hubs for the implementation of regional in-
20 novation strategies, including regional strategies for
21 infrastructure and site development, in support of the
22 regional innovation and technology and innovation
23 hub’s plans and programs. The Secretary should de-
24 termine the size and number of awards based on ap-
25 propriations available to ensure the success of re-

1 *gional technology and innovation hubs as outlined in*
2 *subsection (h).*

3 “(2) *USE OF FUNDS.—Financial assistance*
4 *awarded under paragraph (1) to a regional tech-*
5 *nology and innovation hub may be used by the re-*
6 *gional technology and innovation hub to support any*
7 *of the following activities, consistent with the most*
8 *current regional innovation strategy of the regional*
9 *technology and innovation hub:*

10 “(A) *WORKFORCE DEVELOPMENT ACTIVI-*
11 *TIES.—Workforce development activities, includ-*
12 *ing activities relating to the following:*

13 “(i) *The creation of partnerships be-*
14 *tween industry, workforce, nonprofit, and*
15 *educational institutions to create and align*
16 *technical training and educational pro-*
17 *grams.*

18 “(ii) *The design, development, and up-*
19 *dating of educational and training cur-*
20 *riculum tied to demonstrated regional work-*
21 *force needs.*

22 “(iii) *The procurement of facilities and*
23 *equipment, as required to train a technical*
24 *workforce.*

1 “(iv) *The development and execution of*
2 *programs to rapidly award certificates or*
3 *credentials recognized by regional industries*
4 *or other organizations.*

5 “(v) *The matching of regional employ-*
6 *ers with a potential new entrant, under-*
7 *employed, underrepresented, or incumbent*
8 *workforce.*

9 “(vi) *The expansion of successful train-*
10 *ing programs at a scale required by the re-*
11 *gion served by the regional technology and*
12 *innovation hub, including through the use*
13 *of online education.*

14 “(vii) *The development and expansion*
15 *of programs with the goal of increasing the*
16 *participation of persons historically under-*
17 *represented in STEM in the workforce de-*
18 *velopment plans of the regional technology*
19 *and innovation hub.*

20 “(B) *BUSINESS AND ENTREPRENEUR DE-*
21 *VELOPMENT ACTIVITIES.—Business and entre-*
22 *preneur development activities, including activi-*
23 *ties relating to the following:*

1 “(i) *The development and growth of*
2 *local regional businesses and the training of*
3 *entrepreneurs.*

4 “(ii) *The support of technology com-*
5 *mercialization, including funding for ac-*
6 *tivities relevant for advancing high growth*
7 *potential ventures such as acceleration, in-*
8 *cubation and other relevant programming.*

9 “(iii) *The development of local and re-*
10 *gional capital networks and consortia to at-*
11 *tract necessary private funding to busi-*
12 *nesses and entrepreneurs in the region.*

13 “(iv) *The development of local and re-*
14 *gional networks for business and entre-*
15 *preneur mentorship.*

16 “(v) *The expansion of employee and*
17 *worker ownership and participation in*
18 *business decisionmaking, including through*
19 *coordination and collaboration with worker*
20 *cooperative membership associations and*
21 *existing local and state employee ownership*
22 *and cooperative development centers, or the*
23 *creation of such centers where they do not*
24 *yet exist, in order to provide information,*
25 *technical assistance, access to financing,*

1 *and training to startups, contractors, and*
2 *businesses that are considering employee*
3 *ownership as a model, and to facilitate the*
4 *creation of and conversion to employee-*
5 *owned startups, businesses, and coopera-*
6 *tives.*

7 “(C) *TECHNOLOGY DEVELOPMENT AND MAT-*
8 *URATION ACTIVITIES.*—*Technology maturation*
9 *activities, including activities relating to the fol-*
10 *lowing:*

11 “(i) *The development and deployment*
12 *of technologies in sectors critical to the re-*
13 *gion served by the regional technology and*
14 *innovation hub or to national and economic*
15 *security, including industry-university re-*
16 *search cooperation, proof of concept, proto-*
17 *type development, and testing.*

18 “(ii) *The development of programming*
19 *to support the creation and transfer of in-*
20 *tellectual property into private use, such as*
21 *through startup creation.*

22 “(iii) *The provision of facilities for*
23 *technology maturation, including incuba-*
24 *tors for collaborative development of tech-*

1 nologies by private sector, academic, non-
2 profit, and other entities.

3 “(iv) *Activities to provide or ensure ac-*
4 *cess to capital for new business and cooper-*
5 *ative formation and business expansion, or*
6 *preservation of existing businesses through*
7 *conversion to employee ownership and co-*
8 *operatives, including by attracting new pri-*
9 *vate, public, and philanthropic investment*
10 *and by establishing local and regional ven-*
11 *ture and loan funds, community develop-*
12 *ment financial institutions, and minority*
13 *depository institutions.*

14 “(D) *INFRASTRUCTURE-RELATED ACTIVI-*
15 *TIES.—The building of facilities and site*
16 *connectivity infrastructure necessary to carry*
17 *out activities described in subparagraphs (A),*
18 *(B), and (C), including activities relating to the*
19 *following:*

20 “(i) *Establishing a center with re-*
21 *quired tools and instrumentation for work-*
22 *force development.*

23 “(ii) *Establishing a facility for tech-*
24 *nology development, demonstration, and*
25 *testing.*

1 “(iii) *Establishing collaborative incu-*
2 *bators to support technology commercializa-*
3 *tion and entrepreneur training.*

4 “(3) *TERM.—*

5 “(A) *INITIAL PERFORMANCE PERIOD.—The*
6 *term of an initial grant or cooperative agree-*
7 *ment awarded under this subsection shall be for*
8 *a period that the Secretary deems appropriate*
9 *for the proposed activities but not less than 2*
10 *years.*

11 “(B) *SUBSEQUENT PERFORMANCE PE-*
12 *RIOD.—The Secretary may renew a grant or co-*
13 *operative agreement awarded to a regional tech-*
14 *nology and innovation hub under paragraph (1)*
15 *for such period as the Secretary considers appro-*
16 *priate, if the Secretary determines that the re-*
17 *gional technology and innovation hub has made*
18 *satisfactory progress towards the metrics agreed*
19 *to under subsection (j).*

20 “(C) *FLEXIBLE APPROACH.—In renewing a*
21 *grant or cooperative agreement under subpara-*
22 *graph (B), the Secretary and the eligible consor-*
23 *tium may agree to new or additional uses of*
24 *funds in order to meet changes in the needs of*
25 *the region.*

1 “(4) *LIMITATION ON AMOUNT OF AWARDS.*—

2 “(A) *INITIAL PERFORMANCE PERIOD.*—*The*
3 *amount of an initial grant or cooperative agree-*
4 *ments awarded to a regional technology and in-*
5 *novation hub under paragraph (3)(A) shall be no*
6 *more than \$150,000,000.*

7 “(B) *SUBSEQUENT PERFORMANCE PE-*
8 *RIOD.*—*Upon renewal of a grant or cooperative*
9 *agreement under paragraph (3)(B), the Sec-*
10 *retary may award funding in the amount that*
11 *the Secretary considers appropriate, ensuring*
12 *that no single regional technology and innova-*
13 *tion hub receives more than 15 percent of the ag-*
14 *gregate amount of the grants and cooperative*
15 *agreements awarded under this subsection.*

16 “(5) *MATCHING REQUIRED.*—

17 “(A) *INITIAL PERFORMANCE PERIOD.*—*Ex-*
18 *cept in the case of a regional technology and in-*
19 *novation hub described in subparagraph (C), the*
20 *total amount of all grants awarded to a regional*
21 *technology and innovation hub under this sub-*
22 *section in phase one shall not exceed 90 percent*
23 *of the total operating costs of the regional tech-*
24 *nology and innovation hub during the initial*
25 *performance period.*

1 “(B) *SUBSEQUENT PERFORMANCE PE-*
2 *RIOD.—Except in the case of a regional tech-*
3 *nology and innovation hub described in subpara-*
4 *graph (C), the total amount of all grants award-*
5 *ed to a regional technology and innovation hub*
6 *in subsequent performance periods shall not ex-*
7 *ceed 75 percent of the total operating costs of the*
8 *regional technology and innovation hub in each*
9 *year of the grant or cooperative agreement.*

10 “(C) *RURAL COMMUNITIES OR UNDER-*
11 *SERVED COMMUNITIES AND INDIAN TRIBES.—*

12 “(i) *IN GENERAL.—The total Federal*
13 *financial assistance awarded in a given*
14 *year to a regional technology and innova-*
15 *tion hub under this subsection shall not ex-*
16 *ceed amounts as follows:*

17 “(I) *In the case of a regional tech-*
18 *nology and innovation hub that pri-*
19 *marily serves a rural community or*
20 *other underserved community, in a fis-*
21 *cal year, 90 percent of the total fund-*
22 *ing of the regional technology and in-*
23 *novation hub in that fiscal year.*

24 “(II) *In the case of a regional*
25 *technology and innovation hub that is*

1 led by a Tribal government, in a fiscal
2 year, 100 percent of the total funding
3 of the regional technology and innova-
4 tion hub in that fiscal year.

5 “(ii) *MINIMUM THRESHOLD OF RURAL*
6 *REPRESENTATION.*—For purposes of clause
7 (i)(I), the Secretary shall establish a min-
8 imum threshold of rural representation and
9 other underserved community representation
10 in the regional technology and innovation
11 hub.

12 “(D) *IN-KIND CONTRIBUTIONS.*—For pur-
13 poses of this paragraph, in-kind contributions
14 may be used for part of the non-Federal share of
15 the total funding of a regional technology and
16 innovation hub in a fiscal year.

17 “(6) *GRANTS FOR INFRASTRUCTURE.*—Any
18 grant or cooperative agreement awarded under this
19 subsection to support the construction of facilities and
20 site connectivity infrastructure shall be awarded pur-
21 suant to section 201 of the Public Works and Eco-
22 nomic Development Act of 1965 (42 U.S.C. 3141) and
23 subject to the provisions of such Act, except that sub-
24 section (b) of such section and sections 204 and 301
25 of such Act (42 U.S.C. 3144; 3161) shall not apply.

1 “(7) *RELATION TO CERTAIN GRANT AWARDS.—*
2 *The Secretary shall not require a regional technology*
3 *and innovation hub to receive a grant or cooperative*
4 *agreement under subsection (e) in order to receive a*
5 *grant or cooperative agreement under this subsection.*

6 “(g) *APPLICATIONS.—An eligible consortium seeking*
7 *designation as a regional technology and innovation hub*
8 *under subsection (d) or a grant or cooperative agreement*
9 *under subsection (e) or (f) shall submit to the Secretary an*
10 *application therefore at such time, in such manner, and*
11 *containing such information as the Secretary may specify.*

12 “(h) *CONSIDERATIONS FOR DESIGNATION AND AWARD*
13 *OF STRATEGY IMPLEMENTATION GRANTS AND COOPERA-*
14 *TIVE AGREEMENTS.—In selecting an eligible consortium*
15 *that submitted an application under subsection (g) for des-*
16 *ignation under subsection (d) or for a grant or cooperative*
17 *agreement under subsection (f), the Secretary shall consider*
18 *the following:*

19 “(1) *The potential of the eligible consortium to*
20 *advance the research, development, deployment, and*
21 *domestic manufacturing of technologies in a tech-*
22 *nology or innovation sector critical to national and*
23 *economic security.*

24 “(2) *The likelihood of positive regional economic*
25 *effect, including increasing the number of high wage*

1 *domestic jobs, creating new economic opportunities*
2 *for economically disadvantaged and underrepresented*
3 *populations, promoting employee and worker owner-*
4 *ship, and advancing models of local and cooperative*
5 *economic development that build and retain wealth in*
6 *the region.*

7 *“(3) How the eligible consortium plans to inte-*
8 *grate with and leverage the resources of 1 or more fed-*
9 *erally funded research and development centers, Na-*
10 *tional Laboratories, Federal laboratories, Manufac-*
11 *turing USA institutes, Hollings Manufacturing Ex-*
12 *tension Partnership centers, or other Federal entities.*

13 *“(4) How the eligible consortium will engage*
14 *with the private sector, including small- and me-*
15 *dium-sized businesses and cooperatives, and employee-*
16 *owned businesses and cooperatives, to commercialize*
17 *new technologies and improve the resiliency and sus-*
18 *tainability of domestic supply chains in a technology*
19 *or innovation sector critical to national and economic*
20 *security.*

21 *“(5) How the eligible consortium will carry out*
22 *workforce development and skills acquisition pro-*
23 *gramming, including through partnerships with enti-*
24 *ties that include State and local workforce develop-*
25 *ment boards, institutions of higher education, includ-*

1 *ing community colleges, historically Black colleges*
2 *and universities, Tribal colleges and universities, and*
3 *minority-serving institutions, labor organizations,*
4 *worker cooperative membership associations, state or*
5 *local employee ownership and cooperative develop-*
6 *ment centers, workforce development programs, and*
7 *other related activities authorized by the Secretary, to*
8 *support the development of a skilled technical work-*
9 *force for the regional technology and innovation hub.*

10 “(6) *How the eligible consortium will improve or*
11 *expand science, technology, engineering, and mathe-*
12 *matics education programs and opportunities in the*
13 *identified region in elementary and secondary school*
14 *and higher education institutions located in the iden-*
15 *tified region.*

16 “(7) *How the eligible consortium plans to de-*
17 *velop partnerships with venture development organi-*
18 *zations, community development financial institu-*
19 *tions and minority depository institutions, and*
20 *sources of private investment in support of private*
21 *sector activity, including launching new or expanding*
22 *existing companies.*

23 “(8) *How the eligible consortium plans to orga-*
24 *nize the activities of regional partners across sectors*

1 *in support of a regional technology and innovation*
2 *hub.*

3 “(9) *How the eligible consortium plans to pro-*
4 *cedure as many goods, services, food, and supplies as is*
5 *practicable from locally-owned, employee-owned, mi-*
6 *nority-owned, and women-owned businesses and co-*
7 *operatives in conducting hub activities, and how indi-*
8 *vidual consortium members, as applicable, plan to do*
9 *the same.*

10 “(10) *How the consortium plans to collaborate*
11 *with local and community development financial in-*
12 *stitutions and minority depository institutions to ex-*
13 *pend the supply of such procurement options, includ-*
14 *ing by creating business plans and plans for financ-*
15 *ing businesses and cooperatives that do not yet exist,*
16 *and how the consortium plans to encourage entities*
17 *created as a result of hub activities to follow such*
18 *practices.*

19 “(11) *How the eligible consortium will ensure*
20 *that growth in technology and innovation sector pro-*
21 *duces opportunity across the identified region, includ-*
22 *ing for economically disadvantaged, minority, and*
23 *rural populations, including consideration of how the*
24 *eligible consortium takes into account the relevant im-*
25 *pect of regional status and plans for—*

1 “(A) available affordable housing stock and
2 housing policies;

3 “(B) local and regional transportation sys-
4 tems;

5 “(C) high speed internet access; and

6 “(D) primary and secondary education.

7 “(12) How much the regions educational institu-
8 tions are committed to aligning their activities, in-
9 cluding research and education, as appropriate, to a
10 region’s economic strengths and areas of focus.

11 “(13) The likelihood efforts served by the Consor-
12 tium will be sustained once Federal support ends.

13 “(i) COORDINATION AND COLLABORATION.—

14 “(1) COORDINATION WITH REGIONAL INNOVATION
15 PROGRAM.—The Secretary shall ensure the activities
16 under this section do not duplicate activities or efforts
17 under section 27.

18 “(2) COORDINATION AMONG HUBS.—The Sec-
19 retary shall ensure eligible consortia that receive a
20 grant or cooperative agreement under this section co-
21 ordinate and share best practices for regional eco-
22 nomic development.

23 “(3) COORDINATION WITH PROGRAMS OF THE
24 NATIONAL INSTITUTE OF STANDARDS AND TECH-
25 NOLOGY.—The Secretary shall coordinate the activi-

1 *ties of regional technology and innovation hubs des-*
2 *ignated under this section, the Hollings Manufac-*
3 *turing Extension Partnership, and the Manufacturing*
4 *USA Program, as the Secretary considers appro-*
5 *priate, to maintain the effectiveness of a manufac-*
6 *turing extension center or a Manufacturing USA in-*
7 *stitute.*

8 “(4) *COORDINATION WITH DEPARTMENT OF EN-*
9 *ERGY PROGRAMS.—The Secretary shall, in collabora-*
10 *tion with the Secretary of Energy, coordinate the ac-*
11 *tivities and selection of regional technology and inno-*
12 *vation hubs designated under this section, as the Sec-*
13 *retaries consider appropriate, to maintain the effec-*
14 *tiveness of activities at the Department of Energy and*
15 *the National Laboratories.*

16 “(5) *INTERAGENCY COLLABORATION.—In desig-*
17 *nating regional technology and innovation hubs*
18 *under subsection (d) and awarding grants or coopera-*
19 *tive agreements under subsection (f), the Secretary—*

20 “(A) *shall collaborate with Federal depart-*
21 *ments and agencies whose missions contribute to*
22 *the goals of the regional technology and innova-*
23 *tion hub, and relevant interagency initiatives*
24 *such as the Interagency Working Group for Co-*
25 *operative Development;*

1 “(B) shall consult with the Director of the
2 National Science Foundation for the purpose of
3 ensuring that the regional technology and inno-
4 vation hubs are aligned with relevant science,
5 technology, and engineering expertise; and

6 “(C) may accept funds from other Federal
7 agencies to support grants, cooperative agree-
8 ments, and activities under this section.

9 “(j) *PERFORMANCE MEASUREMENT, TRANSPARENCY,*
10 *AND ACCOUNTABILITY.—*

11 “(1) *METRICS, STANDARDS, AND ASSESSMENT.—*
12 *For each grant and cooperative agreement awarded*
13 *under subsection (f) for a regional technology and in-*
14 *novation hub, the Secretary shall—*

15 “(A) *in consultation with the regional tech-*
16 *nology and innovation hub, develop metrics,*
17 *which may include metrics relating to domestic*
18 *job creation, patent awards, increases in research*
19 *funding, business formation and expansion, and*
20 *participation of individuals or communities his-*
21 *torically underrepresented in STEM, to assess*
22 *the effectiveness of the activities funded in mak-*
23 *ing progress toward the purposes set forth under*
24 *subsection (b)(1);*

1 “(B) establish standards for the perform-
2 ance of the regional technology and innovation
3 hub that are based on the metrics developed
4 under subparagraph (A); and

5 “(C) prior to any award made under a sub-
6 sequent performance period in subsection (f) and
7 every 2 years thereafter until Federal financial
8 assistance under this section for the regional
9 technology and innovation hub is discontinued,
10 conduct an assessment of the regional technology
11 and innovation hub to confirm whether the per-
12 formance of the regional technology and innova-
13 tion hub is meeting the standards for perform-
14 ance established under subparagraph (B) of this
15 paragraph.

16 “(2) FINAL REPORTS BY RECIPIENTS OF STRAT-
17 EGY IMPLEMENTATION GRANTS AND COOPERATIVE
18 AGREEMENTS.—

19 “(A) IN GENERAL.—The Secretary shall re-
20 quire each eligible consortium that receives a
21 grant or cooperative agreement under subsection
22 (f) for activities of a regional technology and in-
23 novation hub, as a condition of receipt of such
24 grant or cooperative agreement, to submit to the
25 Secretary, not later than 120 days after the last

1 *day of the term of the grant or cooperative agree-*
2 *ment, a report on the activities of the regional*
3 *technology and innovation hub supported by the*
4 *grant or cooperative agreement.*

5 “(B) CONTENTS OF REPORT.—Each report
6 submitted by an eligible consortium under sub-
7 paragraph (A) shall include the following:

8 “(i) A detailed description of the ac-
9 tivities carried out by the regional tech-
10 nology and innovation hub using the grant
11 or cooperative agreement described in sub-
12 paragraph (A), including the following:

13 “(I) A description of each project
14 the regional technology and innovation
15 hub completed using such grant or co-
16 operative agreement.

17 “(II) An explanation of how each
18 project described in subclause (I)
19 achieves a specific goal under this sec-
20 tion in the region of the regional tech-
21 nology and innovation hub with re-
22 spect to—

23 “(aa) the resiliency and sus-
24 tainability of a supply chain;

- 1 “(bb) research, development,
2 and deployment of a critical tech-
3 nology;
4 “(cc) workforce training and
5 development;
6 “(dd) domestic job creation;
7 “(ee) entrepreneurship and
8 company formation, including the
9 number of businesses created or
10 preserved through employee own-
11 ership and cooperative develop-
12 ment;
13 “(ff) commercialization;
14 “(gg) access to private cap-
15 ital; or
16 “(hh) participation of indi-
17 viduals or communities histori-
18 cally underrepresented in STEM.
19 “(ii) A discussion of any obstacles en-
20 countered by the regional technology and in-
21 novation hub in the implementation of the
22 regional technology and innovation hub and
23 how the regional technology and innovation
24 hub overcame those obstacles.

1 “(iii) *An evaluation of the success of*
2 *the projects of the regional technology and*
3 *innovation hub using the performance*
4 *standards and measures established under*
5 *paragraph (1), including an evaluation of*
6 *the planning process and how the project*
7 *contributes to carrying out the regional in-*
8 *novation strategy of the regional technology*
9 *and innovation hub.*

10 “(iv) *The effectiveness of the regional*
11 *technology and innovation hub in ensuring*
12 *that, in the region of the regional technology*
13 *and innovation hub, growth in technology*
14 *and innovation sectors produces broadly*
15 *shared opportunity across the region, in-*
16 *cluding for economic disadvantaged and*
17 *underrepresented populations and rural*
18 *areas.*

19 “(v) *Information regarding such other*
20 *matters as the Secretary may require.*

21 “(3) *INTERIM REPORTS BY RECIPIENTS OF*
22 *GRANTS AND COOPERATIVE AGREEMENTS.—In addi-*
23 *tion to requiring submittal of final reports under*
24 *paragraph (2)(A), the Secretary may require a re-*
25 *gional technology and innovation hub described in*

1 *such paragraph to submit to the Secretary such in-*
2 *terim reports as the Secretary considers appropriate.*

3 *“(4) ANNUAL REPORTS TO CONGRESS.—Not less*
4 *frequently than once each year, the Secretary shall*
5 *submit to the appropriate committees of Congress an*
6 *annual report on the results of the assessments con-*
7 *ducted by the Secretary under paragraph (1)(C) dur-*
8 *ing the period covered by the report.*

9 *“(k) AUTHORIZATION OF APPROPRIATIONS.—There is*
10 *authorized to be appropriated to the Secretary—*

11 *“(1) \$50,000,000 to award grants and coopera-*
12 *tive agreements under subsection (e) for the period of*
13 *fiscal years 2022 through 2026;*

14 *“(2) \$2,000,000,000 to award grants and coopera-*
15 *ative agreements under subsection (f) for the period of*
16 *fiscal years 2022 and 2023; and*

17 *“(3) \$4,800,000,000 to award grants and coopera-*
18 *ative agreements under subsection (f) for the period of*
19 *fiscal years 2024 through 2026.*

20 *“(l) ADMINISTRATION.—The Secretary may use funds*
21 *made available to carry out this section for administrative*
22 *costs under this section.”.*

23 *(b) INITIAL DESIGNATIONS AND AWARDS.—*

24 *(1) COMPETITION REQUIRED.—Not later than 1*
25 *year after the date of the enactment of this section,*

1 *subject to the availability of appropriations, the Sec-*
2 *retary of Commerce shall commence a competition*
3 *under subsection (d)(1) of section 28 of the Stevenson-*
4 *Wydler Technology Innovation Act of 1980 (15 U.S.C.*
5 *3723) as added by subsection (a).*

6 (2) *DESIGNATION AND AWARD.*—*Not later than 1*
7 *year after the date of the enactment of this section, if*
8 *the Secretary has received at least 1 application*
9 *under subsection (g) of section 28 of the Stevenson-*
10 *Wydler Technology Innovation Act of 1980 (15 U.S.C.*
11 *3723) from an eligible consortium whom the Sec-*
12 *retary considers suitable for designation under sub-*
13 *section (d)(1) of such section, the Secretary shall—*

14 (A) *designate at least 1 regional technology*
15 *and innovation hub under subsection (d)(1) of*
16 *such section; and*

17 (B) *award a grant or cooperative agreement*
18 *under subsection (f)(1) of such section to each re-*
19 *gional technology and innovation hub designated*
20 *pursuant to subparagraph (A) of this paragraph.*

21 **SEC. 3. REGIONAL CLEAN ENERGY INNOVATION PROGRAM.**

22 *Subtitle C of title IX of the Energy Independence and*
23 *Security Act of 2007 is amended by adding at the end the*
24 *following:*

1 **“SEC. 936. REGIONAL CLEAN ENERGY INNOVATION PRO-**
2 **GRAM.**

3 “(a) *DEFINITIONS.—In this section:*

4 “(1) *REGIONAL CLEAN ENERGY INNOVATION*
5 *PARTNERSHIP.—The term ‘regional clean energy in-*
6 *novation partnership’ means a group of one or more*
7 *persons, including a covered consortium, who perform*
8 *a collection of activities that are coordinated by such*
9 *covered consortium to carry out the purposes of the*
10 *program under subsection (c) in a region of the*
11 *United States.*

12 “(2) *COVERED CONSORTIUM.—The term ‘covered*
13 *consortium’ means an individual or group of individ-*
14 *uals in partnership with a government entity, includ-*
15 *ing a State, local, or tribal government or unit of*
16 *such government, and at least 2 or more of the fol-*
17 *lowing additional entities—*

18 “(A) *an institution of higher education or a*
19 *consortium of institutions of higher education;*

20 “(B) *a workforce training provider, includ-*
21 *ing vocational schools and community colleges;*

22 “(C) *a private sector entity;*

23 “(D) *a nonprofit organization;*

24 “(E) *a community group;*

25 “(F) *a labor group;*

26 “(G) *a National Laboratory;*

1 “(H) a venture development organization;

2 “(I) a community development financial in-
3 stitution or minority depository institution;

4 “(J) a worker cooperative membership asso-
5 ciation or state or local employee ownership or
6 cooperative development center;

7 “(K) an organization focused on clean en-
8 ergy technology innovation or entrepreneurship;

9 “(L) a business accelerator or incubator;

10 “(M) a private sector entity or group of en-
11 tities, including a trade or industry association;

12 “(N) an economic development organiza-
13 tion;

14 “(O) a manufacturing facility or organiza-
15 tion;

16 “(P) a clean energy incubator or accel-
17 erator;

18 “(Q) a multi-institutional collaboration; or

19 “(R) any other entity that the Secretary de-
20 termines to be relevant.

21 “(3) PROGRAM.—The term ‘program’ means the
22 Regional Clean Energy Innovation Program author-
23 ized in subsection (b).

24 “(b) IN GENERAL.—The Secretary shall establish a Re-
25 gional Clean Energy Innovation Program, a research, de-

1 *velopment, demonstration, and commercial application*
2 *program designed to enhance the economic, environmental,*
3 *and energy security of the United States and accelerate the*
4 *pace of innovation of diverse clean energy technologies*
5 *through the formation or support of regional clean energy*
6 *innovation partnerships that—*

7 “(1) *account for the diverse domestic energy re-*
8 *sources available throughout the United States;*

9 “(2) *are responsive to the needs of industry,*
10 *workforce, policy landscape, and clean energy innova-*
11 *tion capabilities of the region in which such partner-*
12 *ship is located;*

13 “(3) *enhance and accelerate clean energy innova-*
14 *tion;*

15 “(4) *are located in diverse geographic regions of*
16 *the United States, including United States territories;*
17 *and*

18 “(5) *maximize the opportunities for cooperation*
19 *between institutes of higher education, industry, State*
20 *and local governments, and nonprofit research insti-*
21 *tutions with shared areas of energy expertise.*

22 “(c) *PURPOSES OF THE PROGRAM.—The purposes of*
23 *the Program established under subsection (b) are to—*

1 “(1) *improve the competitiveness of United*
2 *States’ clean energy technology research, development,*
3 *demonstration, and commercial application; and*

4 “(2) *support the development of tools and tech-*
5 *nologies best suited for use in diverse regions of the*
6 *United States, including in rural, tribal, and low-in-*
7 *come communities.*

8 “(d) *REGIONAL CLEAN ENERGY INNOVATION PART-*
9 *NERSHIPS.—*

10 “(1) *IN GENERAL.—The Secretary shall competi-*
11 *tively award grants to covered consortia to establish*
12 *or support regional clean energy innovation partner-*
13 *ships that achieve the purposes of the Program in sub-*
14 *section (c).*

15 “(2) *PERMISSIBLE ACTIVITIES.—Grants awarded*
16 *under this subsection shall be used for activities deter-*
17 *mined appropriate by the Secretary to achieve the*
18 *purposes of the Program in subsection (c), includ-*
19 *ing—*

20 “(A) *facilitating the commercial application*
21 *of clean energy products, processes, and services,*
22 *including through research, development, dem-*
23 *onstration, or technology transfer;*

24 “(B) *planning among participants of a re-*
25 *gional clean energy innovation partnership to*

1 *improve the strategic and cost-effective coordina-*
2 *tion of the partnership;*

3 “(C) *improving stakeholder involvement in*
4 *the development of goals and activities of a re-*
5 *gional clean energy innovation partnership;*

6 “(D) *assessing different incentive mecha-*
7 *nisms for clean energy development and commer-*
8 *cial application in the region;*

9 “(E) *hosting events and conferences; and*

10 “(F) *establishing and updating roadmaps*
11 *to measure progress on relevant goals, such as*
12 *those relevant to metrics developed under sub-*
13 *section (g).*

14 “(3) *APPLICATIONS.—Each application sub-*
15 *mitted to the Secretary under paragraph (1) may in-*
16 *clude—*

17 “(A) *a list of members and roles of members*
18 *of the covered consortia, as well as any other*
19 *stakeholders supporting the activities of the re-*
20 *gional clean energy innovation partnership;*

21 “(B) *a description of the proposed outcomes*
22 *of the regional clean energy innovation partner-*
23 *ship;*

24 “(C) *an assessment of the relevant clean en-*
25 *ergy innovation assets needed in a region to*

1 *achieve proposed outcomes, such as education*
2 *and training programs, research facilities, infra-*
3 *structure or site development, access to capital,*
4 *manufacturing capabilities, or other assets;*

5 *“(D) a description of proposed activities*
6 *that the regional clean energy innovation part-*
7 *nership plans to undertake and how the proposed*
8 *activities will achieve the purposes described in*
9 *subsection (c) and the proposed outcomes in sub-*
10 *paragraph (B);*

11 *“(E) a description of the geographical re-*
12 *gion that will engage in the regional clean en-*
13 *ergy innovation partnership;*

14 *“(F) a plan for attracting additional funds*
15 *and identification of funding sources from non-*
16 *Federal sources to deliver the proposed outcomes*
17 *of the regional clean energy innovation part-*
18 *nership;*

19 *“(G) a plan for partnering and collabor-*
20 *ating with community development financial*
21 *institutions and minority depository institu-*
22 *tions, labor and community groups, worker coop-*
23 *erative membership associations, local and state*
24 *employee ownership and cooperative development*
25 *centers, and other local institutions in order to*

1 *promote employee, community, and public own-*
2 *ership in the clean energy sector, and advance*
3 *models of local economic development that build*
4 *and retain wealth in the region;*

5 *“(H) a plan for sustaining activities of the*
6 *regional clean energy innovation partnership*
7 *after funds received under this program have*
8 *been expended; and*

9 *“(I) a proposed budget, including financial*
10 *contributions from non-Federal sources.*

11 *“(4) CONSIDERATIONS.—In selecting covered*
12 *consortia for funding under the Program, the Sec-*
13 *retary shall, to the maximum extent practicable—*

14 *“(A) give special consideration to applica-*
15 *tions from rural, tribal, and low-income commu-*
16 *nities; and*

17 *“(B) ensure that there is geographic diver-*
18 *sity among the covered consortia selected to re-*
19 *ceive funding.*

20 *“(5) AWARD AMOUNT.—Grants given out under*
21 *this Program shall be in an amount not greater than*
22 *\$10,000,000, with the total grant award in any year*
23 *less than that in the previous year.*

24 *“(6) COST SHARE.—For grants that are dis-*
25 *bursed over the course of three or more years, the Sec-*

1 *retary shall require, as a condition of receipt of funds*
2 *under this section, that a covered consortium provide*
3 *not less than 50 percent of the funding for the activi-*
4 *ties of the regional clean energy partnership under*
5 *this section for years 3, 4, and 5.*

6 *“(7) DURATION.—Each grant under paragraph*
7 *shall be for a period of not longer than 5 years.*

8 *“(8) RENEWAL.—A grant awarded under this*
9 *section may be renewed for a period of not more than*
10 *5 years, subject to a rigorous merit review based on*
11 *the progress of a regional clean energy innovation*
12 *partnership towards achieving the purposes of the*
13 *program in subsection (c) and the metrics developed*
14 *under subsection (g).*

15 *“(9) TERMINATION.—Consistent with the exist-*
16 *ing authorities of the Department, the Secretary may*
17 *terminate grant funding under this subsection to cov-*
18 *ered consortia during the performance period if the*
19 *Secretary determines that the regional clean energy*
20 *innovation partnership is underperforming.*

21 *“(10) ADMINISTRATIVE COSTS.—The Secretary*
22 *may allow a covered consortium that receives funds*
23 *under this section to allocate a portion of the funding*
24 *received to be used for administrative or indirect*
25 *costs.*

1 “(11) *FUNDING.*—*The Secretary may accept*
2 *funds from other Federal agencies to support funding*
3 *and activities under this section.*

4 “(e) *PLANNING FUNDS.*—*The Secretary may competi-*
5 *tively award grants in an amount no greater than*
6 *\$2,000,000 for a period not longer than 2 years to an entity*
7 *consisting of a government entity, including a State, local,*
8 *or tribal government or unit of such government or any*
9 *entity listed under subsection (a)(2) to plan a regional*
10 *clean energy innovation partnership or establish a covered*
11 *consortium for the purpose of applying for funds under sub-*
12 *section (b).*

13 “(f) *INFORMATION SHARING.*—*As part of the program,*
14 *the Secretary shall support the gathering, analysis, and dis-*
15 *semination of information on best practices for developing*
16 *and operating successful regional clean energy innovation*
17 *partnerships.*

18 “(g) *METRICS.*—*In evaluating a grant renewals under*
19 *subsection (d)(8), the Secretary shall work with program*
20 *evaluation experts to develop and make publicly available*
21 *metrics to assess the progress of a regional clean energy in-*
22 *novation partnership towards achieving the purposes of the*
23 *program in subsection (c). Such metrics may include—*

24 “(1) *the number and quality of—*

1 “(A) new clean energy companies created in
2 the region as a result of activities carried out
3 under the regional clean energy innovation part-
4 nership, including those created or preserved
5 through employee ownership and cooperative de-
6 velopment;

7 “(B) new or expanded workforce develop-
8 ment or training programs; and

9 “(C) support services provided to clean en-
10 ergy technology developers in the region;

11 “(2) changes in clean energy employment in the
12 region as a result of activities carried out under the
13 regional clean energy innovation partnership; and

14 “(3) the amount of capital investment in clean
15 energy companies in the region as a result of activi-
16 ties carried out under the regional clean energy inno-
17 vation partnership grant.

18 “(h) COORDINATION.—In carrying out the program,
19 the Secretary shall coordinate with, and avoid unnecessary
20 duplication of, the activities carried out under this section
21 with the activities of—

22 “(1) other research entities of the Department,
23 including the National Laboratories, the Office of
24 Science, the Advanced Research Projects Agency-En-
25 ergy, the Office of Technology Transitions, Energy In-

1 *novation Hubs, and Energy Frontier Research Cen-*
2 *ters; and*

3 *“(2) relevant programs at other Federal agencies,*
4 *including—*

5 *“(A) the Office of Innovation and Entrepre-*
6 *neurship under the Economic Development Ad-*
7 *ministration, including the Regional Innovation*
8 *Program under section 27 of the Stevenson-*
9 *Wylder Technology Innovation Act of 1980 (15*
10 *U.S.C. 3722);*

11 *“(B) the Hollings Manufacturing Extension*
12 *Partnership Program under section 25 of the Na-*
13 *tional Institute of Standards and Technology Act*
14 *(15 U.S.C. 278k);*

15 *“(C) the Manufacturing USA Program*
16 *under section 34 of the National Institute of*
17 *Standards and Technology Act (15 U.S.C. 278s);*

18 *“(D) the Defense Manufacturing Commu-*
19 *nities Support Program under section 846 of the*
20 *John S. McCain National Defense Authorization*
21 *Act for Fiscal Year 2019 (10 U.S.C. 2501 note);*

22 *“(E) the Office of Economic Adjustment at*
23 *the Department of Defense; and*

24 *“(F) Rural Development at the United*
25 *States Department of Agriculture.*

1 “(i) *CONFLICTS OF INTEREST.*—*In carrying out the*
2 *program, the Secretary shall maintain conflict of interest*
3 *procedures, consistent with the conflict of interest proce-*
4 *dures of the Department.*

5 “(j) *EVALUATION BY COMPTROLLER GENERAL.*—*Not*
6 *later than 3 years after the date of the enactment of this*
7 *Act, and every 3 years thereafter, the Comptroller General*
8 *shall submit to the Committee on Science, Space, and Tech-*
9 *nology of the House of Representatives and the Committee*
10 *on Energy and Natural Resources of the Senate an evalua-*
11 *tion on the operation of the program during the most recent*
12 *3-year period, including—*

13 “(1) *an assessment of the progress made towards*
14 *achieving the purposes specified in subsection (c)*
15 *based on the metrics developed under subsection (g);*

16 “(2) *the short-term and long-term metrics used*
17 *to determine the success of the program under sub-*
18 *section (g), and any changes recommended to the*
19 *metrics used;*

20 “(3) *the regional clean energy innovation part-*
21 *nerships established or supported by covered consortia*
22 *that have received grants under subsection (d); and*

23 “(4) *any recommendations on how the program*
24 *may be improved.*

1 “(k) *NATIONAL LABORATORIES.*—*In supporting tech-*
2 *nology transfer activities at the National Laboratories, the*
3 *Secretary shall encourage partnerships with entities that*
4 *are located in the same region or State as the National Lab-*
5 *oratory.*

6 “(l) *SECURITY.*—*In carrying out the activities under*
7 *this section, the Secretary shall ensure proper security con-*
8 *trols are in place to protect sensitive information, as appro-*
9 *priate.*

10 “(m) *NO FUNDS FOR CONSTRUCTION.*—*No funds pro-*
11 *vided to the Department of Energy under this section shall*
12 *be used for construction.*

13 “(n) *AUTHORIZATION OF APPROPRIATIONS.*—*There*
14 *are authorized to be appropriated to the Secretary to carry*
15 *out this section \$50,000,000 for each of fiscal years 2022*
16 *through 2026.”.*

17 **SEC. 4. CRITICAL TECHNOLOGY AND INNOVATION ANA-**
18 **LYTICS PROGRAM.**

19 “(a) *IN GENERAL.*—*The Secretary of Commerce shall*
20 *carry out a program of data collection and analysis of tech-*
21 *nology and innovation sectors critical to realizing national*
22 *objectives, including national security, economic prosperity,*
23 *and social welfare.*

24 “(b) *PURPOSE.*—*The purpose of the program shall be—*

1 (1) *To serve as a central Federal clearinghouse*
2 *for the collection, interpretation, analysis, and dis-*
3 *semination of objective data on the nation’s tech-*
4 *nology, innovation, and advanced manufacturing ca-*
5 *capacity;*

6 (2) *To improve assessment of the nation’s re-*
7 *search, technology, and manufacturing assistance pro-*
8 *grams, including the regional innovation programs*
9 *established in section 27 and 28 of the Stevenson-*
10 *Wylder Technology Innovation Act of 1980 (Public*
11 *Law 96–480; 15 U.S.C. 3701 et seq.);*

12 (3) *To assess U.S. competitiveness in technology*
13 *and innovation sectors; and*

14 (4) *To support national policy and decision*
15 *making in both the public and private sectors to en-*
16 *sure United States leadership in technology and inno-*
17 *vation sectors critical to national security, economic*
18 *prosperity and social welfare.*

19 (c) *ACTIVITIES.—In carrying out this section, the Sec-*
20 *retary shall—*

21 (1) *collect, acquire, analyze, report, and dissemi-*
22 *nate data related to critical technology, innovation,*
23 *and production capacity in the United States and*
24 *other nations that is relevant and useful to practi-*

1 *tioners, researchers, policymakers, and the public, in-*
2 *cluding data on—*

3 *(A) regional technology and innovation ca-*
4 *capacity, including research and development ac-*
5 *tivity, entrepreneurship, intellectual property*
6 *generation, company formation, advanced tech-*
7 *nology capital equipment investment, and tech-*
8 *nology transfer;*

9 *(B) supply chains, including domestic and*
10 *international production capacity, inter-firm*
11 *transactions, and resiliency for select end-prod-*
12 *ucts and their intermediate inputs;*

13 *(C) the skilled technical and production*
14 *workforce required in different critical tech-*
15 *nology and innovation sectors;*

16 *(D) the participation of individuals and*
17 *communities historically underrepresented in*
18 *STEM; and*

19 *(E) any other area the Secretary determines*
20 *appropriate;*

21 *(2) Request from any person or entity informa-*
22 *tion, data, and reports as may be required to carry*
23 *out the purposes of this Act;*

1 (3) support research using the data it collects,
2 and on methodologies in areas related to the activities
3 carried out under the program; and

4 (4) conduct other activities deemed by the Sec-
5 retary to be critical for the development of analytic
6 capabilities, statistics, datasets, and metrics related to
7 critical technologies and innovation.

8 (d) *OTHER TRANSACTIONS AUTHORITIES.*—In car-
9 rying out this section, the Secretary may enter into and
10 perform such contracts, including cooperative research and
11 development arrangements and grants and cooperative
12 agreements or other transactions, as may be necessary in
13 the conduct of the work of the program and on such terms
14 as the Secretary considers appropriate.

15 (e) *COORDINATION.*—The Secretary shall collaborate
16 with Federal statistical agencies, as appropriate, to carry
17 out the purposes of this section, including by entering into
18 cooperative data sharing agreements that comply with all
19 laws and regulations applicable to the disclosure and use
20 of data.

21 (f) *CONSULTATION.*—In conducting the activities re-
22 quired under subsection (c), the Secretary shall solicit input
23 from relevant stakeholders on critical technology and sector
24 needs, practices, and goals related to creating statistics,
25 metrics, data sets, and modeling.

1 (g) *ADMINISTRATION.*—*The Secretary may carry out*
2 *this program through existing programs and bureaus of the*
3 *Department of Commerce, as appropriate.*

4 (h) *ACCESS TO FEDERAL DATA.*—*In carrying out sub-*
5 *section (c), the Secretary shall be given access to all infor-*
6 *mation, data, or reports that the Secretary determines nec-*
7 *essary to carry out this Section by any Federal agency*
8 *upon written request and subject to any statutory or regu-*
9 *latory restrictions.*

10 (1) *EXISTING INSTRUMENTS.*—*Where practicable,*
11 *the Secretary should incorporate data collection into*
12 *existing survey instruments.*

13 (i) *AUTHORIZATION OF APPROPRIATIONS.*—*There is*
14 *authorized to be appropriated to the Secretary \$100,000,000*
15 *to conduct activities under this section for the period of fis-*
16 *cal years 2022 through 2026.*

Union Calendar No. 183

117TH CONGRESS
2^D SESSION

H. R. 4588

[Report No. 117-254]

A BILL

To amend the Stevenson-Wydler Technology Innovation Act of 1980 to establish a regional technology and innovation hub program, and for other purposes.

FEBRUARY 28, 2022

Reported with an amendment; committed to the Committee of the Whole House on the State of the Union and ordered to be printed