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.....
(Original Signature of Member)

116TH CONGRESS
1ST SESSION

H. R. ■ ■

To amend title II of the Department of Energy Organization Act to reauthorize an office within the Department of Energy, to direct the Secretary of Energy to establish and carry out a comprehensive, nationwide energy-related industries jobs program, and for other purposes.

—————
IN THE HOUSE OF REPRESENTATIVES

Mr. RUSH introduced the following bill; which was referred to the Committee
on ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

—————
A BILL

To amend title II of the Department of Energy Organization Act to reauthorize an office within the Department of Energy, to direct the Secretary of Energy to establish and carry out a comprehensive, nationwide energy-related industries jobs 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
5 “Blue Collar to Green Collar Jobs Development Act of
6 2019”.

1 (b) TABLE OF CONTENTS.—The table of contents for
2 this Act is as follows:

Sec. 1. Short title; table of contents.

TITLE I—OFFICE OF ECONOMIC IMPACT, DIVERSITY, AND
EMPLOYMENT

Sec. 101. Name of office.

Sec. 102. Energy workforce development programs.

Sec. 103. Authorization.

TITLE II—ENERGY WORKFORCE DEVELOPMENT

Sec. 201. Energy workforce development.

Sec. 202. Energy workforce grant program.

Sec. 203. Definitions.

3 **TITLE I—OFFICE OF ECONOMIC**
4 **IMPACT, DIVERSITY, AND EM-**
5 **PLOYMENT**

6 **SEC. 101. NAME OF OFFICE.**

7 (a) IN GENERAL.—Section 211 of the Department of
8 Energy Organization Act (42 U.S.C. 7141) is amended—

9 (1) in the section heading, by striking “MINOR-
10 ITY ECONOMIC IMPACT” and inserting “ECONOMIC
11 IMPACT, DIVERSITY, AND EMPLOYMENT”; and

12 (2) in subsection (a), by striking “Office of Mi-
13 nority Economic Impact” and inserting “Office of
14 Economic Impact, Diversity, and Employment”.

15 (b) CONFORMING AMENDMENT.—The table of con-
16 tents for the Department of Energy Organization Act is
17 amended by amending the item relating to section 211 to
18 read as follows:

“Sec. 211. Office of Economic Impact, Diversity, and Employment.”.

1 SEC. 102. ENERGY WORKFORCE DEVELOPMENT PRO-
2 GRAMS.

3 Section 211 of the Department of Energy Organiza-
4 tion Act (42 U.S.C. 7141) is amended—

5 (1) by redesignating subsections (f) and (g) as
6 subsections (g) and (h), respectively; and

7 (2) by inserting after subsection (e) the fol-
8 lowing:

9 “(f) The Secretary, acting through the Director, shall
10 establish and carry out the programs described in sections
11 201 and 202 of the Blue Collar to Green Collar Jobs De-
12 velopment Act of 2019.”.

13 SEC. 103. AUTHORIZATION.

14 Subsection (h) of section 211 of the Department of
15 Energy Organization Act (42 U.S.C. 7141), as redesignig-
16 nated by section 102 of this Act, is amended by striking
17 “not to exceed \$3,000,000 for fiscal year 1979, not to ex-
18 ceed \$5,000,000 for fiscal year 1980, and not to exceed
19 \$6,000,000 for fiscal year 1981. Of the amounts so appro-
20 priated each fiscal year, not less than 50 percent shall be
21 available for purposes of financial assistance under sub-
22 section (e).” and inserting “\$100,000,000 for each of fis-
23 cal years 2020 through 2024.”.

1 TITLE II—ENERGY WORKFORCE
2 DEVELOPMENT

3 SEC. 201. ENERGY WORKFORCE DEVELOPMENT.

4 (a) IN GENERAL.—Subject to the availability of ap-
5 propriations, the Secretary, acting through the Director
6 of the Office of Economic Impact, Diversity, and Employ-
7 ment, shall establish and carry out a comprehensive, na-
8 tionwide program to improve education and training for
9 jobs in energy-related industries, including manufacturing,
10 engineering, construction, and retrofitting jobs in such en-
11 ergy-related industries, in order to increase the number
12 of skilled workers trained to work in such energy-related
13 industries, including by—

14 (1) encouraging underrepresented groups, in-
15 cluding religious and ethnic minorities, women, vet-
16 erans, individuals with disabilities, unemployed en-
17 ergy workers, and socioeconomically disadvantaged
18 individuals to enter into the science, technology, en-
19 gineering, and mathematics (in this section referred
20 to as “STEM”) fields;

21 (2) encouraging the Nation’s educational insti-
22 tutions to equip students with the skills,
23 mentorships, training, and technical expertise nec-
24 essary to fill the employment opportunities vital to

1 managing and operating the Nation's energy-related
2 industries;

3 (3) providing students and other candidates for
4 employment with the necessary skills and certifi-
5 cations for skilled, semiskilled, and highly skilled
6 jobs in such energy-related industries;

7 (4) strengthening and more fully engaging De-
8 partment of Energy programs and laboratories in
9 carrying out the Department's Minorities in Energy
10 Initiative; and

11 (5) to the greatest extent possible, collaborating
12 with and supporting existing State workforce devel-
13 opment programs to maximize program efficiency.

14 (b) PRIORITY.—In carrying out the program estab-
15 lished under subsection (a), the Secretary shall prioritize
16 the education and training of underrepresented groups for
17 jobs in energy-related industries.

18 (c) DIRECT ASSISTANCE.—In carrying out the pro-
19 gram established under subsection (a), the Secretary shall
20 provide direct assistance (including financial assistance
21 awards, technical expertise, and internships) to edu-
22 cational institutions, local workforce development boards,
23 State workforce development boards, nonprofit organiza-
24 tions, labor organizations, and apprenticeship programs.
25 The Secretary shall distribute such direct assistance in a

Commented [A1]: State Workforce Development Boards are mentioned, but consider also including Federal-State Regional Commissions, like the Appalachia Regional Commission, Delta Regional Authority, Denali Commission, Northern Border Regional Commission, Northern Great Plains Regional Commission, and the Southeast Crescent Regional Commission.

1 manner proportional to the needs of, and demand for jobs
2 in, energy-related industries, consistent with information
3 obtained under subsections (e)(3) and (i).

4 (d) CLEARINGHOUSE.—In carrying out the program
5 established under subsection (a), the Secretary shall estab-
6 lish a clearinghouse to—

7 (1) maintain and update information and re-
8 sources on training programs for jobs in energy-re-
9 lated industries, including manufacturing, engineer-
10 ing, construction, and retrofitting jobs in such en-
11 ergy-related industries; and

12 (2) act as a resource for educational institu-
13 tions, local workforce development boards, State
14 workforce development boards, nonprofit organiza-
15 tions, labor organizations, and apprenticeship pro-
16 grams that would like to develop and implement
17 training programs for such jobs.

18 (e) COLLABORATION AND REPORT.—In carrying out
19 the program established under subsection (a), the Sec-
20 retary—

21 (1) shall collaborate with educational institu-
22 tions, local workforce development boards, State
23 workforce development boards, nonprofit organiza-
24 tions, labor organizations, apprenticeship programs,
25 and energy-related industries;

1 (2) shall encourage and foster collaboration,
 2 mentorships, and partnerships among industry, local
 3 workforce development boards, State workforce de-
 4 velopment boards, nonprofit organizations, labor or-
 5 ganizations, and apprenticeship programs that cur-
 6 rently provide effective training programs for jobs in
 7 energy-related industries and educational institutions
 8 that seek to establish these types of programs in
 9 order to share best practices and approaches that
 10 best suit local, State, and national needs; and

11 (3) shall collaborate with the Bureau of Labor
 12 Statistics, the Department of Commerce, the Bureau
 13 of the Census, and energy-related industries to—

14 (A) develop a comprehensive and detailed
 15 understanding of the workforce needs of such
 16 energy-related industries, and job opportunities
 17 in such energy-related industries, by State and
 18 by region; and

19 (B) publish an annual report on job cre-
 20 ation in the energy-related industries described
 21 in subsection (i)(2).

22 (f) GUIDELINES FOR EDUCATIONAL INSTITU-
 23 TIONS.—

24 (1) IN GENERAL.—In carrying out the program
 25 established under subsection (a), the Secretary, in

Commented [A2]: For this kind of proposed investment, it seems that it would be necessary to have a current baseline of the participation of the “underrepresented groups” in energy related industries. Some sectors (like solar) have associations that produce their own jobs and diversity reports. There is no national, standardized, comprehensive dataset, particularly in regard to the participation of underrepresented populations in the sector. One of the challenges is that the BLS classifications do not correlate to or include the gamut of jobs in the energy sector. Without a baseline, how would progress over time be measured? Without a comprehensive understanding of the current workforce, how would needs be quantified?

Commented [A3]: Suggest expanding this to also include an annual count/census of jobs in addition to annual job creation.

1 collaboration with the Secretary of Education, the
2 Secretary of Commerce, the Secretary of Labor, and
3 the National Science Foundation, shall develop vol-
4 untary guidelines or best practices for educational
5 institutions to help provide graduates with the skills
6 necessary for jobs in energy-related industries, in-
7 cluding manufacturing, engineering, construction,
8 and retrofitting jobs in such energy-related indus-
9 tries.

10 (2) INPUT.—The Secretary shall solicit input
11 from energy-related industries in developing guide-
12 lines or best practices under paragraph (1).

13 (3) ENERGY EFFICIENCY AND CONSERVATION
14 INITIATIVES.—The guidelines or best practices devel-
15 oped under paragraph (1) shall include grade-spe-
16 cific guidelines for teaching energy efficiency tech-
17 nology, manufacturing efficiency technology, commu-
18 nity energy resiliency, and conservation initiatives to
19 educate students and families.

20 (4) STEM EDUCATION.—The guidelines or best
21 practices developed under paragraph (1) shall pro-
22 mote STEM education in educational institutions as
23 it relates to job opportunities in energy-related in-
24 dustries.

Commented [A4]: This list may leave out some occupations in the electric power sector like linemen and plant operators.

1 (g) OUTREACH TO MINORITY-SERVING INSTITU-
2 TIONS.—In carrying out the program established under
3 subsection (a), the Secretary shall—

4 (1) give special consideration to increasing out-
5 reach to minority-serving institutions;

6 (2) make resources available to minority-serving
7 institutions with the objective of increasing the num-
8 ber of skilled minorities and women trained for jobs
9 in energy-related industries, including manufac-
10 turing, engineering, construction, and retrofitting
11 jobs in such energy-related industries;

12 (3) encourage energy-related industries to im-
13 prove the opportunities for students of minority-
14 serving institutions to participate in industry intern-
15 ships and cooperative work-study programs; and

16 (4) partner with the Department of Energy lab-
17 oratories to increase underrepresented groups' par-
18 ticipation in internships, fellowships, traineeships,
19 and employment at all Department of Energy lab-
20 oratories.

21 (h) OUTREACH TO DISPLACED AND UNEMPLOYED
22 ENERGY WORKERS.—In carrying out the program estab-
23 lished under subsection (a), the Secretary shall—

24 (1) give special consideration to increasing out-
25 reach to employers and job trainers preparing dis-

1 placed and unemployed energy workers for emerging
2 jobs in energy-related industries, including manufac-
3 turing, engineering, construction, and retrofitting
4 jobs in such energy-related industries;

5 (2) make resources available to institutions
6 serving displaced and unemployed energy workers
7 with the objective of increasing the number of indi-
8 viduals trained for jobs in energy-related industries,
9 including manufacturing, engineering, construction,
10 and retrofitting jobs in such energy-related indus-
11 tries; and

12 (3) encourage energy-related industries to im-
13 prove opportunities for displaced and unemployed
14 energy workers to participate in industry internships
15 and cooperative work-study programs.

16 (i) GUIDELINES TO DEVELOP SKILLS FOR AN EN-
17 ERGY INDUSTRY WORKFORCE.—In carrying out the pro-
18 gram established under subsection (a), the Secretary shall,
19 in collaboration with energy-related industries—

20 (1) identify the areas of with the greatest de-
21 mand for workers in each such industry; and

22 (2) develop guidelines for the skills necessary
23 for work in the following energy-related industries:

24 (A) Energy efficiency industry, including
25 work in energy efficiency, conservation, weath-

1 erization, retrofitting, or as inspectors or audi-
2 tors.

3 (B) Renewable energy industry, including
4 work in the development, engineering, manufac-
5 turing, and production of renewable energy
6 from renewable energy sources (such as solar,
7 hydropower, wind, or geothermal energy).

8 (C) Community energy resiliency industry,
9 including work in the installation of rooftop
10 solar, in battery storage, and in microgrid tech-
11 nologies.

12 (D) Fuel cell and hydrogen energy indus-
13 try.

14 (E) Manufacturing industry, including
15 work as operations technicians, in operations
16 and design in additive manufacturing, 3-D
17 printing, and advanced composites and ad-
18 vanced aluminum and other metal alloys, indus-
19 trial energy efficiency management systems, in-
20 cluding power electronics, and other innovative
21 technologies.

22 (F) Chemical manufacturing industry, in-
23 cluding work in construction (such as welders,
24 pipefitters, and tool and die makers) or as in-
25 strument and electrical technicians, machinists,

Commented [A5]: Based on the list of technologies below, it might make sense to call this the "Advanced manufacturing industry", to differentiate it from manufacturing writ large.

1 chemical process operators, engineers, quality
2 and safety professionals, and reliability engi-
3 neers.

4 (G) Utility industry, including work in the
5 generation, transmission, and distribution of
6 electricity and natural gas, such as utility tech-
7 nicians, operators, lineworkers, engineers, sci-
8 entists, and information technology specialists.

9 (H) Alternative fuels industry, including
10 work in biofuel development and production.

11 (I) Pipeline industry, including work in
12 pipeline construction and maintenance or work
13 as engineers or technical advisors.

14 (J) Nuclear industry, including work as
15 scientists, engineers, technicians, mathemati-
16 cians, or security personnel.

17 (K) Oil and gas industry, including work
18 as scientists, engineers, technicians, mathemati-
19 cians, petrochemical engineers, or geologists.

20 (L) Coal industry, including work as coal
21 miners, engineers, developers and manufactur-
22 ers of state-of-the-art coal facilities, technology
23 vendors, coal transportation workers and opera-
24 tors, or mining equipment vendors.

Commented [A6]: Recommend the addition of “electricians” and “dispatchers” as examples of utility workers to ensure these categories of utility workers are considered when guidelines are developed.

1 (j) ENROLLMENT IN TRAINING AND APPRENTICE-
2 SHIP PROGRAMS.—In carrying out the program estab-
3 lished under subsection (a), the Secretary shall work with
4 industry, local workforce development boards, State work-
5 force development boards, nonprofit organizations, labor
6 organizations, and apprenticeship programs to help iden-
7 tify students and other candidates, including from under-
8 represented communities such as minorities, women, and
9 veterans, to enroll into training and apprenticeship pro-
10 grams for jobs in energy-related industries.

11 (k) AUTHORIZATION OF APPROPRIATIONS.—There
12 are authorized to be appropriated to carry out this section
13 \$20,000,000 for each of fiscal years 2020 through 2024.

14 **SEC. 202. ENERGY WORKFORCE GRANT PROGRAM.**

15 (a) PROGRAM.—

16 (1) ESTABLISHMENT.—Subject to the avail-
17 ability of appropriations, the Secretary, acting
18 through the Director of the Office of Economic Im-
19 pact, Diversity, and Employment, shall establish and
20 carry out a program to provide grants to eligible
21 businesses to pay the wages of new and existing em-
22 ployees during the time period that such employees
23 are receiving training to work in the renewable en-
24 ergy sector, energy efficiency sector, or grid mod-
25 ernization sector.

1 (2) GUIDELINES.—Not later than 60 days after
2 the date of enactment of this Act, the Secretary, in
3 consultation with stakeholders, contractors, and or-
4 ganizations that work to advance existing residential
5 energy efficiency, shall establish guidelines to iden-
6 tify training that is eligible for purposes of the pro-
7 gram established pursuant to paragraph (1).

8 (b) ELIGIBILITY.—To be eligible to receive a grant
9 under the program established under subsection (a) or a
10 business or labor management organization that is directly
11 involved with energy efficiency or renewable energy tech-
12 nology, or working on behalf of any such business, shall
13 provide services related to—

14 (1) renewable electric energy generation, includ-
15 ing solar, wind, geothermal, hydropower, and other
16 renewable electric energy generation technologies;

17 (2) energy efficiency, including energy efficient
18 lighting, heating, ventilation, and air conditioning,
19 air source heat pumps, advanced building materials,
20 insulation and air sealing, and other high efficiency
21 products and services, including auditing and inspec-
22 tion;

23 (3) grid modernization or energy storage, in-
24 cluding smart grid, microgrid and other distributed

Commented [A7]: Given that this program is meant to provide training for efficiency, renewable, and grid modernization sectors, the specific focus on residential retrofits seems too narrow.

1 energy solutions, demand response management, and
2 home energy management technology; or

3 (4) fuel cell and hybrid fuel cell generation.

4 (c) USE OF GRANTS.—An eligible business with—

5 (1) 20 or fewer employees may use a grant pro-
6 vided under the program established under sub-
7 section (a) to pay up to—

8 (A) 45 percent of an employee’s wages for
9 the duration of the training, if the training is
10 provided by the eligible business; and

11 (B) 90 percent of an employee’s wages for
12 the duration of the training, if the training is
13 provided by an entity other than the eligible
14 business;

15 (2) 21 to 99 employees may use a grant pro-
16 vided under the program established under sub-
17 section (a) to pay up to—

18 (A) 37.5 percent of an employee’s wages
19 for the duration of the training, if the training
20 is provided by the eligible business; and

21 (B) 75 percent of an employee’s wages for
22 the duration of the training, if the training is
23 provided by an entity other than the eligible
24 business; and

1 (3) 100 employees or more may use a grant
2 provided under the program established under sub-
3 section (a) to pay up to—

4 (A) 25 percent of an employee’s wages for
5 the duration of the training, if the training is
6 provided by the eligible business; and

7 (B) 50 percent of an employee’s wages for
8 the duration of the training, if the training is
9 provided by an entity other than the eligible
10 business.

11 (d) PRIORITY FOR TARGETED COMMUNITIES.—In
12 providing grants under the program established under
13 subsection (a), the Secretary shall give priority to eligible
14 businesses that—

15 (1) recruit employees—

16 (A) from the communities that the busi-
17 nesses serve; and

18 (B) that are minorities, women, persons
19 who are or were foster children, persons who
20 are transitioning from fossil energy sector jobs,
21 or veterans; and

22 (2) provide trainees with the opportunity to ob-
23 tain real-world experience.

1 (e) LIMIT.—An eligible business may not receive
2 more than \$100,000 under the program established under
3 subsection (a) per fiscal year.

4 (f) AUTHORIZATION OF APPROPRIATIONS.—There
5 are authorized to be appropriated to carry out this section
6 \$70,000,000 for each of fiscal years 2020 through 2024.

7 SEC. 203. DEFINITIONS.

8 In this Act:

9 (1) APPRENTICESHIP.—The term “apprentice-
10 ship” means an apprenticeship registered under the
11 Act of August 16, 1937 (commonly known as the
12 “National Apprenticeship Act”; 50 Stat. 664, chap-
13 ter 663; 29 U.S.C. 50 et seq.).

14 (2) EDUCATIONAL INSTITUTION.—The term
15 “educational institution” means an elementary
16 school, secondary school, or institution of higher
17 education.

18 (3) ELEMENTARY SCHOOL AND SECONDARY
19 SCHOOL.—The terms “elementary school” and “sec-
20 ondary school” have the meanings given such terms
21 in section 8101 of the Elementary and Secondary
22 Education Act of 1965 (20 U.S.C. 7801).

23 (4) ENERGY-RELATED INDUSTRY.—The term
24 “energy-related industry” includes, but is not limited
to, each of the en-
25 ergy efficiency, renewable energy, chemical manufac-

Commented [A8]: Recommend inserting edit, as the definition of “energy-related” seems limited in scope whereas the list of the “following energy-related industries” on pages 10-12 are more extensive.

1 turing, utility, alternative fuels, pipeline, nuclear en-
2 ergy, oil, gas, and coal industries.

3 (5) INSTITUTION OF HIGHER EDUCATION.—The
4 term “institution of higher education” has the
5 meaning given such term in section 102 of the High-
6 er Education Act of 1965 (20 U.S.C. 1002).

7 (6) LABOR ORGANIZATION.—The term “labor
8 organization” has the meaning given such term in
9 section 2 of the National Labor Relations Act (29
10 U.S.C. 152).

11 (7) LOCAL WORKFORCE DEVELOPMENT
12 BOARD.—The term “local workforce development
13 board” means a local board, as defined in section 3
14 of the Workforce Innovation and Opportunity Act
15 (29 U.S.C. 3102).

16 (8) MINORITY-SERVING INSTITUTION.—The
17 term “minority-serving institution” means an insti-
18 tution of higher education that is of one of the fol-
19 lowing:

20 (A) Hispanic-serving institution (as de-
21 fined in section 502(a)(5) of the Higher Edu-
22 cation Act of 1965 (20 U.S.C. 1101a(a)(5))).

23 (B) Tribal College or University (as de-
24 fined in section 316(b) of the Higher Education
25 Act of 1965 (20 U.S.C. 1059c(b))).

1 (C) Alaska Native-serving institution (as
2 defined in section 317(b) of the Higher Edu-
3 cation Act of 1965 (20 U.S.C. 1059d(b))).

4 (D) Native Hawaiian-serving institution
5 (as defined in section 317(b) of the Higher
6 Education Act of 1965 (20 U.S.C. 1059d(b))).

7 (E) Predominantly Black Institution (as
8 defined in section 318(b) of the Higher Edu-
9 cation Act of 1965 (20 U.S.C. 1059e(b))).

10 (F) Native American-serving nontribal in-
11 stitution (as defined in section 319(b) of the
12 Higher Education Act of 1965 (20 U.S.C.
13 1059f(b))).

14 (G) Asian American and Native American
15 Pacific Islander-serving institution (as defined
16 in section 320(b) of the Higher Education Act
17 of 1965 (20 U.S.C. 1059g(b))).

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

20 (10) STATE WORKFORCE DEVELOPMENT
21 BOARD.—The term “State workforce development
22 board” means a State board, as defined in section
23 3 of the Workforce Innovation and Opportunity Act
24 (29 U.S.C. 3102).