AMENDMENT TO
RULES COMMITTEE PRINT 116-54
OFFERED BY MR. RUSH OF ILLINOIS

At the end of title III of division G, add the following new subtitle:

Subtitle E—Energy Workforce Development

CHAPTER 1—OFFICE OF ECONOMIC IMPACT, DIVERSITY, AND EMPLOYMENT

SEC. 33501. NAME OF OFFICE.

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

(1) in the section heading, by striking “MINORITY ECONOMIC IMPACT” and inserting “ECONOMIC IMPACT, DIVERSITY, AND EMPLOYMENT”; and

(2) in subsection (a), by striking “Office of Minority Economic Impact” and inserting “Office of Economic Impact, Diversity, and Employment”.

(b) CONFORMING AMENDMENT.—The table of contents for the Department of Energy Organization Act is amended by amending the item relating to section 211 to read as follows:

“Sec. 211. Office of Economic Impact, Diversity, and Employment.”.
SEC. 33502. ENERGY WORKFORCE DEVELOPMENT PROGRAMS.

Section 211 of the Department of Energy Organization Act (42 U.S.C. 7141) is amended—

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

(2) by inserting after subsection (e) the following:

“(f) The Secretary, acting through the Director, shall establish and carry out the programs described in sections 33511 and 33512 of the Moving Forward Act.”.

SEC. 33503. AUTHORIZATION.

Subsection (h) of section 211 of the Department of Energy Organization Act (42 U.S.C. 7141), as redesignated by section 33502 of this Act, is amended by striking “not to exceed $3,000,000 for fiscal year 1979, not to exceed $5,000,000 for fiscal year 1980, and not to exceed $6,000,000 for fiscal year 1981. Of the amounts so appropriated each fiscal year, not less than 50 percent shall be available for purposes of financial assistance under subsection (e).” and inserting “$100,000,000 for each of fiscal years 2020 through 2024.”.
CHAPTER 2—ENERGY WORKFORCE DEVELOPMENT

SEC. 33511. ENERGY WORKFORCE DEVELOPMENT.

(a) In General.—Subject to the availability of appropriations, the Secretary, acting through the Director of the Office of Economic Impact, Diversity, and Employment, shall establish and carry out a comprehensive, nationwide program to improve education and training for jobs in energy-related industries, including manufacturing, engineering, construction, and retrofitting jobs in such energy-related industries, in order to increase the number of skilled workers trained to work in such energy-related industries, including by—

(1) encouraging underrepresented groups, including religious and ethnic minorities, women, veterans, individuals with disabilities, unemployed energy workers, and socioeconomically disadvantaged individuals to enter into the science, technology, engineering, and mathematics (in this section referred to as “STEM”) fields;

(2) encouraging the Nation’s educational institutions to equip students with the skills, mentorships, training, and technical expertise necessary to fill the employment opportunities vital to
managing and operating the Nation’s energy-related industries;

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

(4) strengthening and more fully engaging Department of Energy programs and laboratories in carrying out the Department’s Minorities in Energy Initiative; and

(5) to the greatest extent possible, collaborating with and supporting existing State workforce development programs to maximize program efficiency.

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

c) DIRECT ASSISTANCE.—In carrying out the program established under subsection (a), the Secretary shall provide direct assistance (including financial assistance awards, technical expertise, and internships) to educational institutions, local workforce development boards, State workforce development boards, nonprofit organizations, labor organizations, and apprenticeship programs. The Secretary shall distribute such direct assistance in a
manner proportional to the needs of, and demand for jobs
in, energy-related industries, consistent with information
obtained under subsections (e)(3) and (i).

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

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

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

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

(1) shall collaborate with educational institu-
tions, local workforce development boards, State
workforce development boards, nonprofit organiza-
tions, labor organizations, apprenticeship programs,
and energy-related industries;
(2) shall encourage and foster collaboration, mentorships, and partnerships among industry, local workforce development boards, State workforce development boards, nonprofit organizations, labor organizations, and apprenticeship programs that currently provide effective training programs for jobs in energy-related industries and educational institutions that seek to establish these types of programs in order to share best practices and approaches that best suit local, State, and national needs; and

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

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

(B) publish an annual report on job creation in the energy-related industries described in subsection (i)(2).

(f) GUIDELINES FOR EDUCATIONAL INSTITUTIONS.—

(1) IN GENERAL.—In carrying out the program established under subsection (a), the Secretary, in
collaboration with the Secretary of Education, the
Secretary of Commerce, the Secretary of Labor, and
the National Science Foundation, shall develop vol-
untary guidelines or best practices for educational
institutions to help provide graduates with the skills
necessary for jobs in energy-related industries, in-
cluding manufacturing, engineering, construction,
and retrofitting jobs in such energy-related indu-
tries.

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

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

(4) STEM EDUCATION.—The guidelines or best
practices developed under paragraph (1) shall pro-
mote STEM education in educational institutions as
it relates to job opportunities in energy-related in-
dustries.
(g) **OUTREACH TO MINORITY-SERVING INSTITUTIONS.**—In carrying out the program established under subsection (a), the Secretary shall—

1. give special consideration to increasing outreach to minority-serving institutions;
2. make resources available to minority-serving institutions with the objective of increasing the number of skilled minorities and women trained for jobs in energy-related industries, including manufacturing, engineering, construction, and retrofitting jobs in such energy-related industries;
3. encourage energy-related industries to improve the opportunities for students of minority-serving institutions to participate in industry internships and cooperative work-study programs; and
4. partner with the Department of Energy laboratories to increase underrepresented groups’ participation in internships, fellowships, traineeships, and employment at all Department of Energy laboratories.

(h) **OUTREACH TO DISPLACED AND UNEMPLOYED ENERGY WORKERS.**—In carrying out the program established under subsection (a), the Secretary shall—

1. give special consideration to increasing outreach to employers and job trainers preparing dis-
placed and unemployed energy workers for emerging
jobs in energy-related industries, including manufac-
turing, engineering, construction, and retrofitting
jobs in such energy-related industries;

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

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

(i) Guidelines To Develop Skills For An En-
ergy Industry Workforce.—In carrying out the pro-
gram established under subsection (a), the Secretary shall,
in collaboration with energy-related industries—

(1) identify the areas with the greatest demand
for workers in each such industry; and

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

(A) Energy efficiency industry, including
work in energy efficiency, conservation, weath-
erization, retrofitting, or as inspectors or auditors.

(B) Renewable energy industry, including work in the development, engineering, manufacturing, and production of renewable energy from renewable energy sources (such as solar, hydropower, wind, or geothermal energy).

(C) Community energy resiliency industry, including work in the installation of rooftop solar, in battery storage, and in microgrid technologies.

(D) Fuel cell and hydrogen energy industry.

(E) Manufacturing industry, including work as operations technicians, in operations and design in additive manufacturing, 3-D printing, and advanced composites and advanced aluminum and other metal alloys, industrial energy efficiency management systems, including power electronics, and other innovative technologies.

(F) Chemical manufacturing industry, including work in construction (such as welders, pipefitters, and tool and die makers) or as instrument and electrical technicians, machinists,
chemical process operators, engineers, quality and safety professionals, and reliability engineers.

(G) Utility industry, including work in the generation, transmission, and distribution of electricity and natural gas, such as utility technicians, operators, lineworkers, engineers, scientists, and information technology specialists.

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

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

(J) Nuclear industry, including work as scientists, engineers, technicians, mathematicians, or security personnel.

(K) Oil and gas industry, including work as scientists, engineers, technicians, mathematicians, petrochemical engineers, or geologists.

(L) Coal industry, including work as coal miners, engineers, developers and manufacturers of state-of-the-art coal facilities, technology vendors, coal transportation workers and operators, or mining equipment vendors.
(j) ENROLLMENT IN TRAINING AND APPRENTICESHIP PROGRAMS.—In carrying out the program established under subsection (a), the Secretary shall work with industry, local workforce development boards, State workforce development boards, nonprofit organizations, labor organizations, and apprenticeship programs to help identify students and other candidates, including from underrepresented communities such as minorities, women, and veterans, to enroll into training and apprenticeship programs for jobs in energy-related industries.

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

SEC. 33512. ENERGY WORKFORCE GRANT PROGRAM.

(a) PROGRAM.—

(1) ESTABLISHMENT.—Subject to the availability of appropriations, the Secretary, acting through the Director of the Office of Economic Impact, Diversity, and Employment, shall establish and carry out a program to provide grants to eligible businesses to pay the wages of new and existing employees during the time period that such employees are receiving training to work in the renewable energy sector, energy efficiency sector, or grid modernization sector.
(2) GUIDELINES.—Not later than 60 days after the date of enactment of this Act, the Secretary, in consultation with stakeholders, contractors, and organizations that work to advance existing residential energy efficiency, shall establish guidelines to identify training that is eligible for purposes of the program established pursuant to paragraph (1).

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

(1) renewable electric energy generation, including solar, wind, geothermal, hydropower, and other renewable electric energy generation technologies;

(2) energy efficiency, including energy-efficient lighting, heating, ventilation, and air conditioning, air source heat pumps, advanced building materials, insulation and air sealing, and other high-efficiency products and services, including auditing and inspection;

(3) grid modernization or energy storage, including smart grid, microgrid and other distributed
energy solutions, demand response management, and
home energy management technology; or
(4) fuel cell and hybrid fuel cell generation.
(c) USE OF GRANTS.—An eligible business with—
(1) 20 or fewer employees may use a grant pro-
vided under the program established under sub-
section (a) to pay up to—
(A) 45 percent of an employee’s wages for
the duration of the training, if the training is
provided by the eligible business; and
(B) 90 percent of an employee’s wages for
the duration of the training, if the training is
provided by an entity other than the eligible
business;
(2) 21 to 99 employees may use a grant pro-
vided under the program established under sub-
section (a) to pay up to—
(A) 37.5 percent of an employee’s wages
for the duration of the training, if the training
is provided by the eligible business; and
(B) 75 percent of an employee’s wages for
the duration of the training, if the training is
provided by an entity other than the eligible
business; and
(3) 100 employees or more may use a grant provided under the program established under subsection (a) to pay up to—

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

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

(d) **Priority for Targeted Communities.**—In providing grants under the program established under subsection (a), the Secretary shall give priority to eligible businesses that—

(1) recruit employees—

(A) from the communities that the businesses serve; and

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

(2) provide trainees with the opportunity to obtain real-world experience.
(c) LIMIT.—An eligible business may not receive more than $100,000 under the program established under subsection (a) per fiscal year.

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

SEC. 33513. DEFINITIONS.

In this subtitle:

(1) APPRENTICESHIP.—The term “apprenticeship” means an apprenticeship registered under the Act of August 16, 1937 (commonly known as the “National Apprenticeship Act”; 50 Stat. 664, chapter 663; 29 U.S.C. 50 et seq.).

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

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

(4) ENERGY-RELATED INDUSTRY.—The term “energy-related industry” includes each of the energy efficiency, renewable energy, chemical manufac-
turing, utility, alternative fuels, pipeline, nuclear energy, oil, gas, and coal industries.

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

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

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

(8) **MINORITY-SERVING INSTITUTION.**—The term “minority-serving institution” means an institution of higher education that is of one of the following:

(A) Hispanic-serving institution (as defined in section 502(a)(5) of the Higher Education Act of 1965 (20 U.S.C. 1101a(a)(5))).

(B) Tribal College or University (as defined in section 316(b) of the Higher Education Act of 1965 (20 U.S.C. 1059c(b))).
(C) Alaska Native-serving institution (as defined in section 317(b) of the Higher Education Act of 1965 (20 U.S.C. 1059d(b))).

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

(E) Predominantly Black Institution (as defined in section 318(b) of the Higher Education Act of 1965 (20 U.S.C. 1059e(b))).

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

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

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

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