## Calendar No. 513

116TH CONGRESS 2D Session

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GPO



[Report No. 116-251]

To provide for Federal coordination of activities supporting sustainable chemistry, and for other purposes.

#### IN THE SENATE OF THE UNITED STATES

April 3, 2019

Mr. COONS (for himself, Ms. COLLINS, Mrs. CAPITO, and Ms. KLOBUCHAR) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

August 12, 2020

Reported by Mr. WICKER, with an amendment

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

### A BILL

To provide for Federal coordination of activities supporting sustainable chemistry, and for other purposes.

1 Be it enacted by the Senate and House of Representa-

2 tives of the United States of America in Congress assembled,

#### 3 SECTION 1. SHORT TITLE.

4 This Act may be eited as the "Sustainable Chemistry

5 Research and Development Act of 2019".

#### 1 SEC. 2. FINDINGS.

2 Congress finds that—

3 (1) Congress recognized the importance and
4 value of sustainable chemistry and the role of the
5 Federal Government in section 114 of the American
6 Innovation and Competitiveness Act (Public Law
7 114-329);

8 (2) sustainable chemistry and materials trans-9 formation is a key value contributor to business 10 competitiveness across many industrial and con-11 sumer sectors;

12 (3) companies across hundreds of supply chains 13 eritical to the American economy are seeking to re-14 duce costs and open new markets through innova-15 tions in manufacturing and materials, and are in 16 need of new innovations in chemistry, including sus-17 tainable chemistry;

18 (4) sustainable chemistry can improve the effi-19 ciency with which natural resources are used to meet 20 human needs for chemical products while avoiding 21 environmental harm, reduce or eliminate the emis-22 sions of and exposures to hazardous substances, 23 minimize the use of resources, and benefit the econ-24 omy, people, and the environment; and

25 (5) a recent report by the Government Account26 ability Office (GAO-18-307) found that the Federal

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1 Government could play an important role in helping 2 realize the full innovation and market potential of 3 sustainable ehemistry. technologies, including 4 through a coordinated national effort on sustainable 5 ehemistry and standardized tools and definitions to 6 support sustainable chemistry research, development, 7 demonstration, and commercialization.

## 8 SEC. 3. NATIONAL COORDINATING ENTITY FOR SUSTAIN9 ABLE CHEMISTRY.

10 (a) ESTABLISHMENT.—Not later than 180 days after the date of enactment of this Act, the Director of the Of-11 12 fice of Science and Technology Policy shall convene an 13 interagency entity (referred to in this Act as the "Entity") under the National Science and Technology Council with 14 the responsibility to coordinate Federal programs and ac-15 tivities in support of sustainable chemistry, including 16 those described in sections 5 and 6. 17

18 (b) COORDINATION WITH EXISTING GROUPS.—In 19 convening the Entity, the Director of the Office of Science 20 and Technology Policy shall consider overlap and possible 21 coordination with existing committees, subcommittees, or 22 other groups of the National Science and Technology 23 Council, such as—

24 (1) the Committee on Environment, Natural
25 Resources, and Sustainability;

1	(2) the Committee on Technology;
2	(3) the Committee on Science; or
3	(4) related groups or subcommittees.
4	(c) CO-CHAIRS.—The Entity shall be co-chaired by
5	representatives from the Environmental Protection Agen-
6	ey, the National Institute of Standards and Technology,
7	and the National Science Foundation.
8	(d) AGENCY PARTICIPATION.—The Entity shall in-
9	elude representatives, including subject matter experts,
10	from the Environmental Protection Agency, the National
11	Institute of Standards and Technology, the National
12	Science Foundation, the Department of Energy, the De-
13	partment of Agriculture, the Department of Defense, the

National Institutes of Health, the Centers for Disease 14 15 Control and Prevention, the Food and Drug Administration, and other related Federal agencies, as appropriate. 16

#### 17 SEC. 4. ROADMAP FOR SUSTAINABLE CHEMISTRY.

18 (a) ROADMAP.—Not later than 2 years after the date of enactment of this Act, the Entity shall-19

20 (1) develop a working framework of attributes 21 characterizing sustainable chemistry, as described in 22 subsection (b);

23 (2) assess the state of sustainable chemistry in 24 the United States as a key benchmark from which 25 progress under the activities described in this Act

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1 can be measured, including assessing key sectors of 2 the United States economy, key technology plat-3 forms, and barriers to innovation; 4 (3) coordinate and support Federal research, 5 development, demonstration, technology transfer, 6 commercialization, education, and training efforts in 7 sustainable chemistry, including budget coordination 8 and support for public-private partnerships, as ap-9 propriate; 10 (4) identify methods by which the Federal agencies can facilitate the development of incentives 11 12 for development, consideration and use of sustain-13 able chemistry processes and products, including in-14 novative financing mechanisms; 15 (5) identify major scientific challenges, road-16 blocks, or hurdles to transformational progress in 17 improving the sustainability of the chemical sciences; 18 and 19 (6) identify other opportunities for expanding 20 Federal efforts in support of sustainable chemistry. 21 (b) ATTRIBUTES CHARACTERIZING SUSTAINABLE 22 CHEMISTRY.—The Entity shall develop a working frame-23 work of attributes characterizing sustainable chemistry for 24 the purposes of carrying out the Act. In developing this

25 framework, the Entity shall—

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1	(1) seek advice and input from stakeholders as
2	described in subsection (c);
3	(2) consider existing definitions of or frame-
4	works characterizing sustainable or green chemistry
5	already in use at Federal agencies;
6	(3) consider existing definitions of or frame-
7	works characterizing sustainable or green chemistry
8	already in use by international organizations of
9	which the United States is a member, such as the
10	Organisation for Economic Co-operation and Devel-
11	opment; and
12	(4) consider any other appropriate existing defi-
13	nitions of or frameworks characterizing sustainable
14	or green chemistry.
15	(c) Consultation.—In carrying out the duties de-
16	scribed in subsections (a) and (b), the Entity shall consult
17	and coordinate with stakeholders qualified to provide ad-
18	vice and information to guide Federal activities related to
19	sustainable chemistry through workshops, requests for in-
20	formation, and other mechanisms as necessary. The stake-
21	holders shall include representatives from—
22	(1) business and industry (including trade asso-
23	ciations and small- and medium-sized enterprises
24	from across the value chain);

1	(2) the scientific community (including the Na-
2	tional Academies of Sciences, Engineering, and Med-
3	icine, scientific professional societies, and academia);
4	(3) the defense community;
5	(4) State, tribal, and local governments, includ-
6	ing nonregulatory State or regional sustainable
7	<del>chemistry programs, as appropriate;</del>
8	(5) nongovernmental organizations; and
9	(6) other appropriate organizations.
10	(d) Report to Congress.—
11	(1) In GENERAL.—Not later than 3 years after
12	the date of enactment of this Act, the Entity shall
13	submit a report to the Committee on Environment
14	and Public Works, the Committee on Commerce,
15	Science, and Transportation, and the Committee on
16	Appropriations of the Senate, and the Committee on
17	Science, Space, and Technology, the Committee on
18	Energy and Commerce, and the Committee on Ap-
19	propriations of the House of Representatives. In ad-
20	dition to the elements described in subsections (a)
21	and (b), the report shall include—
22	(A) a summary of federally funded, sus-
23	tainable chemistry research, development, dem-
24	onstration, technology transfer, commercializa-

tion, education, and training activities;

1	(B) a summary of the financial resources
2	allocated to sustainable chemistry initiatives;
3	(C) an assessment of the current state of
4	sustainable chemistry in the United States, in-
5	cluding the role that Federal agencies are play-
6	ing in supporting it;
7	(D) an analysis of the progress made to-
8	ward achieving the goals and priorities of this
9	Act, and recommendations for future program
10	activities;
11	(E) an assessment of the benefits of ex-
12	panding existing, federally supported, regional
13	innovation and manufacturing hubs to include
14	sustainable chemistry and the value of directing
15	the creation of 1 or more dedicated sustainable
16	chemistry centers of excellence or hubs; and
17	(F) an evaluation of steps taken and fu-
18	ture strategies to avoid duplication of efforts,
19	streamline interagency coordination, facilitate
20	information sharing, and spread best practices
21	among participating agencies.
22	(2) SUBMISSION TO GAO.—The Entity shall
23	also submit the report described in paragraph $(1)$ to
24	the Comptroller General of the United States for
25	consideration in future Congressional inquiries.

3 (a) IN GENERAL.—The agencies participating in the
4 Entity shall carry out activities in support of sustainable
5 chemistry, as appropriate to the specific mission and pro6 grams of each agency.

7 (b) ACTIVITIES.—The activities described in sub8 section (a) shall—

9 (1) incorporate sustainable chemistry into exist-10 ing research, development, demonstration, tech-11 nology transfer, commercialization, education, and 12 training programs, that the agency determines to be 13 relevant, including consideration of—

14 (A) merit-based competitive grants to indi15 vidual investigators and teams of investigators,
16 including, to the extent practicable, early career
17 investigators for research and development;

18 (B) grants to fund collaborative research
19 and development partnerships among univer20 sities, industry, and nonprofit organizations;

21 (C) coordination of sustainable chemistry
 22 research, development, demonstration, and tech 23 nology transfer conducted at Federal labora 24 tories and agencies;

1	(D) incentive prize competitions and chal-
2	lenges in coordination with such existing Fed-
3	eral agency programs; and
4	(E) grants, loans, and loan guarantees to
5	aid in the technology transfer and commer-
6	cialization of sustainable chemicals, materials,
7	processes, and products;
8	(2) collect and disseminate information on sus-
9	tainable chemistry research, development, technology
10	transfer, and commercialization, including informa-
11	tion on accomplishments and best practices;
12	(3) within education and training programs, ex-
13	pand the education and training of undergraduate
14	and graduate students and professional scientists
15	and engineers, and other professionals involved in
16	materials specification in sustainable chemistry and
17	engineering, including through partnerships with in-
18	dustry as described in section 6;
19	(4) as relevant to an agency's programs, exam-
20	ine methods by which the Federal agencies, in col-
21	laboration and consultation with the National Insti-
22	tute of Standards and Technology, can facilitate the
23	development or recognition of validated, standard-
24	ized tools for performing sustainability assessments
25	of chemistry processes or products;

1	(5) through programs identified by an agency,
2	support (including through technical assistance, par-
3	ticipation, financial support, communications tools,
4	awards, or other forms of support) outreach and dis-
5	semination of sustainable chemistry advances such
6	as non-Federal symposia, forums, conferences, and
7	publications in collaboration with, as appropriate, in-
8	dustry, academia, scientific and professional soci-
9	eties, and other relevant groups;
10	(6) provide for public input and outreach to be
11	integrated into the activities described in this section
12	by the convening of public discussions, through
13	mechanisms such as public meetings, consensus con-
14	ferences, and educational events, as appropriate;
15	(7) within each agency, develop metrics to track
16	the outputs and outcomes of the programs supported
17	by that agency; and
18	(8) incentivize or recognize actions that advance
19	sustainable chemistry products, processes, or initia-
20	tives, including through the establishment of a na-
21	tionally recognized awards program through the En-
22	vironmental Protection Agency to identify, publicize,
23	and celebrate innovations in sustainable chemistry
24	and chemical technologies.

1 (c) LIMITATIONS.—Financial support provided under 2 this section shall—

- 3 (1) be available only for pre-competitive activi4 ties; and
- 5 (2) not be used to promote the sale of a specific
  6 product, process, or technology, or to disparage a
  7 specific product, process, or technology.

8 (d) AGENCY BUDGET REQUESTS.—

9 (1) IN GENERAL.—Each Federal agency and 10 department participating in the activities described 11 in this section shall, as part of its annual request for 12 appropriations to the Office of Management and 13 Budget, submit a report to the Office of Manage-14 ment and Budget that—

15 (A) identifies the activities of the agency or
16 department that contribute directly to these ac17 tivities; and

18 (B) estimates the portion of the agency or
19 department's request for appropriations that is
20 intended to be allocated to those activities.

21 (2) ANNUAL BUDGET REQUEST TO CON22 GRESS.—The President shall include in the annual
23 budget request to Congress a statement of the por24 tion of the annual budget request for each agency or

department that will be allocated to activities under taken pursuant to this section.

#### 3 SEC. 6. PARTNERSHIPS IN SUSTAINABLE CHEMISTRY.

4 (a) IN GENERAL.—The agencies participating in the 5 Entity may facilitate and support, through financial, tech-6 nical, or other assistance, the creation of partnerships be-7 tween institutions of higher education, nongovernmental 8 organizations, consortia, or companies across the value 9 chain in the chemical industry, including small- and me-10 dium-sized enterprises, to—

- (1) create collaborative sustainable chemistry
   research, development, demonstration, technology
   transfer, and commercialization programs; and
- 14 (2) train students and retrain professional sci15 entists, engineers, and others involved in materials
  16 specification on the use of sustainable chemistry con17 cepts and strategies by methods, including—
- 18 (A) developing or recognizing curricular
  19 materials and courses for undergraduate and
  20 graduate levels and for the professional develop21 ment of scientists, engineers, and others in22 volved in materials specification; and

23 (B) publicizing the availability of profes 24 sional development courses in sustainable chem-

istry and recruiting professionals to pursue such courses.

3 (b) PRIVATE SECTOR PARTICIPATION.—To be eligi4 ble for support under this section, a partnership in sus5 tainable chemistry shall include at least one private sector
6 organization.

7 (c) SELECTION OF PARTNERSHIPS.—In selecting 8 partnerships for support under this section, the agencies 9 participating in the Entity shall also consider the extent 10 to which the applicants are willing and able to dem-11 onstrate evidence of support for, and commitment to, the 12 goals outlined in the roadmap and report described in sec-13 tion 4.

(d) PROHIBITED USE OF FUNDS.—Financial support
 provided under this section may not be used—

16 (1) to support or expand a regulatory chemical
 17 management program at an implementing agency
 18 under a State law;

19 (2) to construct or renovate a building or struc20 ture; or

21 (3) to promote the sale of a specific product,
22 process, or technology, or to disparage a specific
23 product, process, or technology.

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#### 1 SEC. 7. PRIORITIZATION.

2 In carrying out this Act, the Entity shall focus its 3 support for sustainable chemistry activities on those that 4 achieve, to the highest extent practicable, the goals out-5 lined in the Act.

#### 6 SEC. 8. RULE OF CONSTRUCTION.

Nothing in this Act shall be construed to alter or
amend any State law or action with regard to sustainable
chemistry or green chemistry, as defined by the State.

#### 10 SECTION 1. SHORT TITLE.

11 This Act may be cited as the "Sustainable Chemistry
12 Research and Development Act of 2019".

#### 13 SEC. 2. FINDINGS.

14 Congress finds that—

(1) Congress recognized the importance and
value of sustainable chemistry in section 114 of the
American Innovation and Competitiveness Act (Public Law 114–329);

19 (2) sustainable chemistry and materials trans20 formation is a key value contributor to business com21 petitiveness across many industrial and consumer sec22 tors;

(3) companies across hundreds of supply chains
critical to the American economy are seeking to reduce costs and open new markets through innovations
in manufacturing and materials, and are in need of

new innovations in chemistry, including sustainable
 chemistry;

3 (4) sustainable chemistry can improve the effi4 ciency with which natural resources are used to meet
5 human needs for chemical products while avoiding
6 environmental harm, reduce or eliminate the emis7 sions of and exposures to hazardous substances, mini8 mize the use of resources, and benefit the economy,
9 people, and the environment; and

10 (5) a recent report by the Government Account-11 ability Office (GAO-18-307) found that the Federal 12 Government could play an important role in helping 13 realize the full innovation and market potential of 14 sustainable chemistry technologies, including through 15 a coordinated national effort on sustainable chemistry 16 and standardized tools and definitions to support sus-17 tainable chemistry research, development, demonstra-18 tion, and commercialization.

# SEC. 3. NATIONAL COORDINATING ENTITY FOR SUSTAIN ABLE CHEMISTRY.

(a) ESTABLISHMENT.—Not later than 180 days after
the date of enactment of this Act, the Director of the Office
of Science and Technology Policy shall convene an interagency entity (referred to in this Act as the "Entity") under
the National Science and Technology Council with the re-

sponsibility to coordinate Federal programs and activities
 in support of sustainable chemistry, including those de scribed in sections 5 and 6.

4 (b) COORDINATION WITH EXISTING GROUPS.—In con5 vening the Entity, the Director of the Office of Science and
6 Technology Policy shall consider overlap and possible co7 ordination with existing committees, subcommittees, or
8 other groups of the National Science and Technology Coun9 cil, such as—

- 10 (1) the Committee on Environment;
- 11 (2) the Committee on Technology;
- 12 (3) the Committee on Science; or
- 13 (4) related groups or subcommittees.

(c) CO-CHAIRS.—The Entity shall be co-chaired by the
Director of the Office of Science and Technology Policy and
a representative from the Environmental Protection Agency, the National Institute of Standards and Technology, the
National Science Foundation, or the Department of Energy,
as selected by the Director of the Office of Science and Technology Policy.

(d) AGENCY PARTICIPATION.—The Entity shall include representatives, including subject matter experts, from
the Environmental Protection Agency, the National Institute of Standards and Technology, the National Science
Foundation, the Department of Energy, the Department of

Agriculture, the Department of Defense, the National Insti tutes of Health, the Centers for Disease Control and Preven tion, the Food and Drug Administration, and other related
 Federal agencies, as appropriate.

5 (e) TERMINATION.—The Entity shall terminate on the
6 date that is 10 years after the date of enactment of this
7 Act.

#### 8 SEC. 4. STRATEGIC PLAN FOR SUSTAINABLE CHEMISTRY.

9 (a) STRATEGIC PLAN.—Not later than 2 years after
10 the date of enactment of this Act, the Entity shall—

(1) consult with relevant stakeholders, including
representatives from industry, academia, national
labs, the Federal Government, and international entities, to develop and update, as needed, a consensus
definition of "sustainable chemistry" to guide the activities under this Act;

17 (2) develop a working framework of attributes
18 characterizing and metrics for assessing sustainable
19 chemistry, as described in subsection (b);

(3) assess the state of sustainable chemistry in
the United States as a key benchmark from which
progress under the activities described in this Act can
be measured, including assessing key sectors of the
United States economy, key technology platforms,
commercial priorities, and barriers to innovation;

1	(4) coordinate and support Federal research, de-
2	velopment, demonstration, technology transfer, com-
3	mercialization, education, and training efforts in sus-
4	tainable chemistry, including budget coordination
5	and support for public-private partnerships, as ap-
6	propriate;
7	(5) identify any Federal regulatory barriers to,
8	and opportunities for, Federal agencies facilitating
9	the development of incentives for development, consid-
10	eration and use of sustainable chemistry processes
11	and products;
12	(6) identify major scientific challenges, road-
13	blocks, or hurdles to transformational progress in im-
14	proving the sustainability of the chemical sciences;
15	and
16	(7) review, identify, and make effort to eliminate
17	duplicative Federal funding and duplicative Federal
18	research in sustainable chemistry.
19	(b) Characterizing and Assessing Sustainable
20	CHEMISTRY.—The Entity shall develop a working frame-
21	work of attributes characterizing and metrics for assessing
22	sustainable chemistry for the purposes of carrying out the
23	Act. In developing this framework, the Entity shall—
24	(1) seek advice and input from stakeholders as
25	described in subsection (c);

1	(2) consider existing definitions of, or frame-
2	works characterizing and metrics for assessing, sus-
3	tainable chemistry already in use at Federal agencies;
4	(3) consider existing definitions of, or frame-
5	works characterizing and metrics for assessing, sus-
6	tainable chemistry already in use by international or-
7	ganizations of which the United States is a member,
8	such as the Organisation for Economic Co-operation
9	and Development; and
10	(4) consider any other appropriate existing defi-
11	nitions of, or frameworks characterizing and metrics
12	for assessing, sustainable chemistry.
13	(c) Consultation.—In carrying out the duties de-
14	scribed in subsections (a) and (b), the Entity shall consult
15	and coordinate with stakeholders qualified to provide advice
16	and information to guide Federal activities related to sus-
17	tainable chemistry through workshops, requests for informa-
18	tion, or other mechanisms as necessary. The stakeholders
19	shall include representatives from—
20	(1) business and industry (including trade asso-
21	ciations and small- and medium-sized enterprises
22	from across the value chain);
23	(2) the scientific community (including the Na-
24	tional Academies of Sciences, Engineering, and Medi-

1	cine, scientific professional societies, national labs,
2	and academia);
3	(3) the defense community;
4	(4) State, tribal, and local governments, includ-
5	ing nonregulatory State or regional sustainable chem-
6	istry programs, as appropriate;
7	(5) nongovernmental organizations; and
8	(6) other appropriate organizations.
9	(d) Report to Congress.—
10	(1) IN GENERAL.—Not later than 3 years after
11	the date of enactment of this Act, the Entity shall
12	submit a report to the Committee on Environment
13	and Public Works, the Committee on Commerce,
14	Science, and Transportation, and the Committee on
15	Appropriations of the Senate, and the Committee on
16	Science, Space, and Technology, the Committee on
17	Energy and Commerce, and the Committee on Appro-
18	priations of the House of Representatives. In addition
19	to the elements described in subsections (a) and (b),
20	the report shall include—
21	(A) a summary of federally funded, sustain-
22	able chemistry research, development, demonstra-
23	tion, technology transfer, commercialization,
24	education, and training activities;

1	(B) a summary of the financial resources
2	allocated to sustainable chemistry initiatives;
3	(C) an assessment of the current state of
4	sustainable chemistry in the United States, in-
5	cluding the role that Federal agencies are play-
6	ing in supporting it;
7	(D) an analysis of the progress made to-
8	ward achieving the goals and priorities of this
9	Act, and any recommendations for future pro-
10	gram activities;
11	(E) an evaluation of steps taken and future
12	strategies to avoid duplication of efforts, stream-
13	line interagency coordination, facilitate informa-
14	tion sharing, and spread best practices among
15	participating agencies; and
16	(F) an evaluation of duplicative Federal
17	funding and duplicative Federal research in sus-
18	tainable chemistry, efforts undertaken by the En-
19	tity to eliminate duplicative funding and re-
20	search, and recommendations on how to achieve
21	these goals.
22	(2) SUBMISSION TO GAO.—The Entity shall also
23	submit the report described in paragraph $(1)$ to the
24	Comptroller General of the United States for consider-
25	ation in future Congressional inquiries.

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3 (a) IN GENERAL.—The agencies participating in the
4 Entity shall carry out activities in support of sustainable
5 chemistry, as appropriate to the specific mission and pro6 grams of each agency.

7 (b) ACTIVITIES.—The activities described in subsection
8 (a) shall—

9 (1) incorporate sustainable chemistry into exist-10 ing basic and applied research, development, dem-11 onstration, technology transfer, commercialization, 12 education, and training programs, that the agency 13 determines to be relevant, including consideration 14 of—

15 (A) merit-based competitive grants to indi16 vidual investigators and teams of investigators,
17 including, to the extent practicable, early career
18 investigators for research and development;

(B) grants to fund collaborative research
and development partnerships among universities, industry, and nonprofit organizations;

(C) coordination of sustainable chemistry
research, development, demonstration, and technology transfer conducted at Federal laboratories
and agencies;

1	(D) incentive prize competitions and chal-
2	lenges in coordination with such existing Federal
3	agency programs; and
4	(E) grants, loans, and loan guarantees to
5	aid in the technology transfer and commer-
6	cialization of sustainable chemicals, materials,
7	processes, and products;
8	(2) collect and disseminate information on sus-
9	tainable chemistry research, development, technology
10	transfer, and commercialization, including informa-
11	tion on accomplishments and best practices;
12	(3) within education and training programs, ex-
13	pand the education and training of undergraduate
14	and graduate students and professional scientists and
15	engineers, and other professionals involved in all as-
16	pects of sustainable chemistry and engineering, in-
17	cluding through partnerships with industry as de-
18	scribed in section 6;
19	(4) as relevant to an agency's programs, examine
20	methods by which the Federal agencies, in collabora-
21	tion and consultation with the National Institute of
22	Standards and Technology, can facilitate the develop-
23	ment or recognition of validated, standardized tools
24	for performing sustainability assessments of chemistry

25 processes or products;

(5) through programs identified by an agency,
support (including through technical assistance, par-
ticipation, financial support, communications tools,
awards, or other forms of support) outreach and dis-
semination of sustainable chemistry advances such as
non-Federal symposia, forums, conferences, and publi-
cations in collaboration with, as appropriate, indus-
try, academia, scientific and professional societies,

10 (6) provide for public input and outreach to be 11 integrated into the activities described in this section 12 by the convening of public discussions, through mechanisms such as public meetings, consensus con-13 14 ferences, and educational events, as appropriate;

and other relevant groups;

15 (7) within each agency, develop or adapt metrics 16 to track the outputs and outcomes of the programs 17 supported by that agency; and

18 (8) incentivize or recognize actions that advance 19 sustainable chemistry products, processes, or initia-20 tives, including through the establishment of a nation-21 ally recognized awards program through the Environ-22 mental Protection Agency to identify, publicize, and 23 celebrate innovations in sustainable chemistry and chemical technologies. 24

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(c) LIMITATIONS .—Financial support provided under
 this section shall—

3 (1) be available only for pre-competitive activi4 ties; and

5 (2) not be used to promote the sale of a specific
6 product, process, or technology, or to disparage a spe7 cific product, process, or technology.

#### 8 SEC. 6. PARTNERSHIPS IN SUSTAINABLE CHEMISTRY.

9 (a) IN GENERAL.—The agencies participating in the 10 Entity may facilitate and support, through financial, tech-11 nical, or other assistance, the creation of partnerships be-12 tween institutions of higher education, nongovernmental or-13 ganizations, consortia, or companies across the value chain 14 in the chemical industry, including small- and medium-15 sized enterprises, to—

16 (1) create collaborative sustainable chemistry re17 search, development, demonstration, technology trans18 fer, and commercialization programs; and

(2) train students and retrain professional scientists, engineers, and others involved in materials
specification on the use of sustainable chemistry concepts and strategies by methods, including—

23 (A) developing or recognizing curricular
24 materials and courses for undergraduate and
25 graduate levels and for the professional develop-

1	ment of scientists, engineers, and others involved
2	in materials specification; and
3	(B) publicizing the availability of profes-
4	sional development courses in sustainable chem-
5	istry and recruiting professionals to pursue such
6	courses.
7	(b) Private Sector Participation.—To be eligible
8	for support under this section, a partnership in sustainable
9	chemistry shall include at least one private sector organiza-
10	tion.
11	(c) Selection of Partnerships.—In selecting part-
12	nerships for support under this section, the agencies partici-
13	pating in the Entity shall also consider the extent to which
14	the applicants are willing and able to demonstrate evidence
15	of support for, and commitment to, the goals outlined in
16	the strategic plan and report described in section 4.
17	(d) Prohibited Use of Funds.—Financial support
18	provided under this section may not be used—
19	(1) to support or expand a regulatory chemical
20	management program at an implementing agency
21	under a State law;
22	(2) to construct or renovate a building or struc-
23	ture; or

(3) to promote the sale of a specific product,
 process, or technology, or to disparage a specific prod uct, process, or technology.

#### 4 SEC. 7. PRIORITIZATION.

5 In carrying out this Act, the Entity shall focus its sup-6 port for sustainable chemistry activities on those that 7 achieve, to the highest extent practicable, the goals outlined 8 in the Act.

#### 9 SEC. 8. RULE OF CONSTRUCTION.

Nothing in this Act shall be construed to alter or
amend any State law or action with regard to sustainable
chemistry, as defined by the State.

Calendar No. 513

116TH CONGRESS S. 999

[Report No. 116-251]

# A BILL

To provide for Federal coordination of activities supporting sustainable chemistry, and for other purposes.

August 12, 2020

Reported with an amendment