Udall-1 (modified)
AEG16305

Jon Vdare

AMENDMENT NO Calendar No			
Purpose: To provide for Federal coordination of chemistry research and development.			
IN THE SENATE OF THE UNITED STATES—114th Cong., 2d Sess.			
S. 3084			
To invest in innovation through research and development, and to improve the competitiveness of the United States.			
Referred to the Committee on and ordered to be printed			
Ordered to lie on the table and to be printed			
Amendment intended to be proposed by Mr. Udall to the amendment (No) proposed by			
Viz:			
1 On page 53, between lines 3 and 4, insert the fol-			
2 lowing:			
3 SEC. 115. FEDERAL COORDINATION OF SUSTAINABLE			
4 CHEMISTRY RESEARCH AND DEVELOPMENT.			
5 (a) Importance of Sustainable Chemistry.—It			
6 is the sense of Congress that—			
7 (1) the science of chemistry is vital to improv-			
8 ing the quality of human life and plays an important			
9 role in addressing critical global challenges, includ-			
ing water quality, energy, health care, and agri-			
11 culture;			

1	(2) sustainable chemistry can reduce risk to
2	human health and the environment, reduce waste
3	and improve pollution prevention, promote safe and
4	efficient manufacturing, and promote efficient use of
5	resources in developing new materials, processes,
6	and technologies that support viable long-term solu-
7	tions;
8	(3) sustainable chemistry can stimulate innova-
9	tion, encourage new and creative approaches to
10	problems, create jobs, and save money; and
11	(4) a coordinated national effort on sustainable
12	chemistry will allow for a greater return on Federal
13	research investment in this space.
14	(b) NATIONAL COORDINATION FOR SUSTAINABLE
15	CHEMISTRY.—
16	(1) Establishment.—Not later than 180 days
17	after the date of enactment of this Act, the Director
18	of the Office of Science and Technology Policy shall
19	convene an entity under the National Science and
20	Technology Council with the responsibility to coordi-
21	nate Federal programs and activities in support of
22	sustainable chemistry, including, as appropriate, at
23	the National Science Foundation, the Department of
24	Energy, the Department of Agriculture, the Envi-
25	ronmental Protection Agency, the National Institute

1	of Standards and Technology, the Department of
2	Defense, the National Institutes of Health, and
3	other related Federal agencies.
4	(2) Chairs.—The entity described in para-
5	graph (1) shall be chaired by representatives from
6	the National Science Foundation, the Environmental
7	Protection Agency, or other agencies, as appropriate.
8	(3) Duties.—
9	(A) In general.—The entity described in
10	paragraph (1) shall—
11	(i) develop a working definition of sus-
12	tainable chemistry, after seeking advice
13	and input from stakeholders as described
14	in clause (iv);
15	(ii) coordinate and support existing
16	Federal research, development, education,
17	and training efforts in sustainable chem-
18	istry;
19	(iii) develop a strategic plan to guide
20	Federal programs and activities in support
21	of sustainable chemistry research, develop-
22	ment, technology transfer, education, and
23	training as described in subsection (c), in-
24	cluding support for public-private partner-
25	ships; and

Ţ	(iv) as appropriate, consuit and co-
2	ordinate with stakeholders qualified to pro-
3	vide advice and information on the develop-
4	ment of the definition of sustainable chem-
5	istry and the strategic plan.
6	(B) STAKEHOLDERS.—In choosing the
7	stakeholders described in subparagraph (A)(iv),
8	the entity described in paragraph (1) is strongly
9	encouraged to include representatives from—
10	(i) industry (including small- and me-
11	dium-sized enterprises from across the
12	value chain);
13	(ii) the scientific community (includ-
14	ing the National Academy of Sciences, sci-
15	entific professional societies, and aca-
16	demia);
17	(iii) the defense community;
18	(iv) State, tribal, and local govern-
19	ments;
20	(v) State or regional sustainable
21	chemistry programs;
22	(vi) non-governmental organizations
23	and
24	(vii) other appropriate organizations.
25	(c) Strategic Plan.—

1	(1) In General.—Not later than 1 year after
2	the date of enactment of this Act, the entity de-
3	scribed in subsection (b)(1) shall submit to the Com-
4	mittee on Science, Space, and Technology and the
5	Committee on Energy and Commerce of the House
6	of Representatives and the Committee on Environ-
7	ment and Public Works and the Committee on Com-
8	merce, Science, and Transportation of the Senate, a
9	5-year strategic plan that shall include—
10	(A) a summary of Federally funded sus-
11	tainable chemistry research, development, dem-
12	onstration, technology transfer, commercializa-
13	tion, education, and training activities;
14	(B) a summary of the financial resources
15	allocated to sustainable chemistry activities;
16	(C) an evaluation of best practices and co-
17	ordination among participating agencies; and
18	(D) a framework for advancing sustainable
19	chemistry, including strategies for and benefits
20	of Federal support for—
21	(i) sustainable chemistry research and
22	development conducted at Federal and na-
23	tional laboratories, Federal agencies, and
24	public and private institutions of higher
25	education;

I	(11) teennology transfer and commer-
2	cialization of sustainable chemistry, includ-
3	ing incentives and impediments to develop-
4	ment of sustainable chemicals, best prac-
5	tices, and costs and benefits;
6	(iii) education and training of under-
7	graduate and graduate students and pro-
8	fessional scientists and engineers, including
9	through partnerships with industry, in sus-
10	tainable chemistry science and engineering;
11	(iv) economic, legal, and other appro-
12	priate social science research to identify
13	barriers to commercialization and methods
14	to advance commercialization of sustain-
15	able chemistry; and
16	(v) public-private partnerships in sup-
17	port of sustainable chemistry research, de-
18	velopment, education, and training.
19	(2) Submission to Gao.—The entity described
20	in subsection (b)(1) shall submit the strategic plan
21	described in paragraph (1) to the Government Ac-
22	countability Office for consideration in future Con-
23	gressional inquiries.
24	(d) Sustainable Chemistry Basic Research.—
25	Subject to the availability of appropriated funds, the Di-

7

- 1 rector of the National Science Foundation shall continue
- 2 to carry out the Sustainable Chemistry Basic Research
- 3 program authorized under section 509 of the National
- 4 Science Foundation Authorization Act of 2010 (42 U.S.C.
- 5 1862p-3).