^{118TH CONGRESS} 2D SESSION H.R. 7685

AN ACT

- To strengthen and enhance the competitiveness of American industry through the research and development of advanced technologies to improve the efficiency of cement, concrete, and asphalt production, 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,

1 SECTION 1. SHORT TITLE.

2 This Act may be cited as the "Innovative Mitigation
3 Partnerships for Asphalt and Concrete Technologies Act"
4 or the "IMPACT Act".

5 SEC. 2. ADVANCED CEMENT, CONCRETE, AND ASPHALT 6 PRODUCTION RESEARCH PROGRAM.

7 (a) PROGRAM.—Part I of subtitle C of title V of the
8 Infrastructure Investment and Jobs Act (Public Law 117–
9 58) is amended by inserting after section 40522 the fol10 lowing new section:

11 "SEC. 40523. ADVANCED CEMENT, CONCRETE, AND AS-12PHALT PRODUCTION RESEARCH PROGRAM.

13 "(a) DEFINITIONS.—In this section:

14 "(1) ADVANCED PRODUCTION.—The term 'ad15 vanced production' means production of cement,
16 concrete, or asphalt with one or more of the fol17 lowing improvements with respect to the production
18 of commercially available cement, concrete, or as19 phalt:

20 "(A) Improved cost-effectiveness.

21 "(B) Improved quality, durability, engi22 neering performance, and resilience.

23 "(C) Improved efficiency of resource con-24 sumption and material demand.

25 "(2) ALTERNATIVE FUELS.—The term 'alter26 native fuels' means any solid, liquid, or gaseous ma•HR 7685 EH

1	terials, or a combination thereof, used to replace or
2	supplement any portion of fuels used in combustion
3	or pyrolysis for low-emissions cement, concrete, or
4	asphalt.
5	"(3) Commercially available.—The term
6	'commercially available', with respect to cement, con-
7	crete, and asphalt, means that the cement, concrete,
8	or asphalt is—
9	"(A) readily and widely available for pur-
10	chase in the United States; and
11	"(B) produced using a production method
12	of cement, concrete, or asphalt products, as ap-
13	plicable, that is widely in use.
14	"(4) ELIGIBLE ENTITY.—The term 'eligible en-
15	tity' means any of the following:
16	"(A) An institution of higher education.
17	"(B) An appropriate State or Federal enti-
18	ty, including a federally funded research and
19	development center of the Department.
20	"(C) A nonprofit research institution.
21	"(D) A private entity.
22	"(E) Any other relevant entity the Sec-
23	retary determines appropriate.

"(F) A partnership or consortium of two
 or more entities described in subparagraphs (A)
 through (E).

((5))4 ENGINEERING PERFORMANCE-BASED 5 STANDARD.—The term 'engineering performance-6 based standard' means an existing engineering 7 standard with respect to which the requirements ap-8 plicable to such standard are stated in terms of re-9 quired results, with criteria for verifying compliance 10 rather than specific composition, design, or proce-11 dure.

"(6) INSTITUTION OF HIGHER EDUCATION.—
The term 'institution of higher education' has the
meaning given such term in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001).

16 "(7) LOW-EMISSIONS CEMENT, CONCRETE, AND
17 ASPHALT.—The term 'low-emissions cement, con18 crete, and asphalt' means cement, concrete, asphalt
19 binder, or asphalt mixture that reduces, to the max20 imum extent practicable, greenhouse gas or directly21 related copollutant emissions to levels below commer22 cially available cement, concrete, or asphalt.

23 "(8) RURAL AREA.—The term 'rural area' has
24 the meaning given such term in section 343(a) of

4

the Consolidated Farm and Rural Development Act
 (7 U.S.C. 1991(a)).

3 "(b) ESTABLISHMENT.—Not later than 180 days 4 after the date of the enactment of this section, the Sec-5 retary shall establish a program of research, development, 6 demonstration, and commercial application of advanced 7 tools, technologies, and methods for advanced production 8 and use of low-emissions cement, concrete, and asphalt in 9 order to—

10 "(1) increase the technological and economic
11 competitiveness of industry and production in the
12 United States;

"(2) expand and increase the stability of supply
chains through enhanced domestic production,
nearshoring, and cooperation with allies;

"(3) achieve measurable greenhouse gas or directly related copollutant emissions reductions in the
production processes for cement, concrete, and asphalt products; and

20 "(4) create quality domestic jobs.

21 "(c) REQUIREMENTS.—In carrying out the program
22 under subsection (b), the Secretary shall—

23 "(1) coordinate with the programs and activi24 ties authorized under title VI of division Z of the
25 Consolidated Appropriations Act, 2021 (relating to

industrial and manufacturing technologies) and the
 amendments made by such title;

"(2) coordinate across all relevant program of-3 4 fices of the Department, including the Office of 5 Science, the Advanced Research Projects Agency-6 Energy, the Office of Clean Energy Demonstrations, 7 the Office of Energy Efficiency and Renewable En-8 ergy, the Office of Fossil Energy, the Office of In-9 dustrial Efficiency and Decarbonization, the Office of Manufacturing and Energy Supply Chains, and 10 11 the Office of Nuclear Energy;

12 "(3) leverage, to the extent practicable, the re-13 search infrastructure of the Department, including 14 scientific computing user facilities, x-ray light 15 sources, neutron scattering facilities, and nanoscale 16 science research centers; and

17 "(4) conduct research, development, demonstra-18 tion, and commercial application of the advanced 19 production of low-emissions cement, concrete, and 20 asphalt that have the potential to increase domestic 21 production and employment in both advanced and 22 commercially available processes.

23 "(d) Strategic Plan.—

24 "(1) IN GENERAL.—Not later than 180 days25 after the establishment of the program under sub-

1	section (b), the Secretary shall develop a 5-year stra-
2	tegic plan identifying research, development, dem-
3	onstration, and commercial application goals for
4	such program. The Secretary shall submit such plan
5	to the Committee on Science, Space, and Technology
6	of the House of Representatives and the Committee
7	on Energy and Natural Resources of the Senate.
8	"(2) CONTENTS.—The strategic plan under
9	paragraph (1) shall—
10	"(A) identify programs at the Department
11	related to the advanced production of low-emis-
12	sions cement, concrete, and asphalt that sup-
13	port the research, development, demonstration,
14	and commercial application activities described
15	in this section, and the demonstration projects
16	under subsection (f);
17	"(B) establish technological and pro-
18	grammatic goals to achieve the requirements
19	specified in subsection (c); and
20	"(C) include timelines for the accomplish-
21	ment of such goals developed under the plan.
22	"(3) UPDATES TO PLAN.—Not less than once
23	every two years, the Secretary shall submit to the
24	Committee on Science, Space, and Technology of the
25	House of Representatives and the Committee on En-

1	ergy and Natural Resources of the Senate an up-
2	dated version of the strategic plan under paragraph
3	(1).
4	"(e) Focus Areas.—In carrying out the program es-
5	tablished in subsection (c), the Secretary shall focus on
6	the following:
7	"(1) Carbon capture technologies for low-emis-
8	sions cement, concrete, and asphalt production proc-
9	esses, which may include the following:
10	"(A) Oxycombustion and chemical looping
11	technologies.
12	"(B) Precombustion technologies.
13	"(C) Post combustion technologies.
14	"(D) Direct carbon dioxide separation
15	technologies.
16	"(2) Materials, technologies, inputs, and proc-
17	esses that—
18	"(A) produce fewer greenhouse gas or di-
19	rectly related copollutant emissions during pro-
20	duction, use, and end use of cement, concrete,
21	and asphalt; or
22	"(B) provide quality, durability, resilience,
23	engineering, or other performance metrics equal
24	to or greater than commercially available prod-
25	ucts.

1	"(3) Medium- and high-temperature heat-gen-
2	eration technologies used for the advanced produc-
3	tion of low-emissions cement, concrete, and asphalt
4	which may include the following:
5	"(A) Alternative fuels.
6	"(B) Renewable heat-generation and stor-
7	age technology.
8	"(C) Electrification of heating processes.
9	"(D) Other clean heat-generation tech-
10	nologies and sources.
11	"(4) Technologies and practices that increase
12	the efficiency of energy use, natural resource con-
13	sumption, or material demand, which may include
14	the following:
15	"(A) Designing products that encourage
16	reuse, refurbishment, remanufacturing, and re-
17	cycling.
18	"(B) Minimizing waste, including waste
19	heat, from low-emissions cement, concrete, and
20	asphalt production processes, including through
21	the reuse of waste as a resource in other indus-
22	trial processes for mutual benefit.
23	"(C) Increasing the overall energy effi-
24	ciency of low-emissions cement, concrete, and

	10
1	asphalt production processes, including through
2	life cycle assessments.
3	"(5) Technologies and approaches to reduce
4	greenhouse gas or directly related copollutant emis-
5	sions from the advanced production of cement, con-
6	crete, and asphalt.
7	"(6) High-performance computing to develop
8	advanced materials and production processes that
9	may contribute to the focus areas described in para-
10	graphs (1) through (5) , including the following:
11	"(A) Modeling, simulation, and optimiza-
12	tion of the design of cost-effective and energy-
13	efficient products and processes.
14	"(B) The use of digital prototyping and
15	additive production to enhance product design.
16	"(7) Advanced sensor technologies and methods
17	to monitor and quantify the performance of low-
18	emissions cement, concrete, and asphalt materials at
19	scale and under a variety of conditions.
20	"(8) Technologies that can be retrofitted at ce-
21	ment, concrete, and asphalt plants that represent
22	the most common facility types in the United States
23	and in other countries, with consideration for field
24	validation of such retrofits.

1	"(9) Best practices for data standardization
2	and data sharing tools and technologies, in coordina-
3	tion with relevant Federal agencies.
4	"(10) Fundamental research in chemistry and
5	materials science to identify the following:
6	"(A) Novel materials and alternative do-
7	mestic feedstocks and processing operations for
8	the advanced production of low-emissions ce-
9	ment, concrete, and asphalt.
10	"(B) Improved understanding by eligible
11	entities of the mechanisms that determine the
12	performance and durability of low-emissions ce-
13	ment, concrete, and asphalt over time.
14	"(f) DEMONSTRATIONS.—
15	"(1) ESTABLISHMENT.—Not later than 180
16	days after the date of the enactment of this section,
17	the Secretary, in carrying out the program estab-
18	lished in subsection (b), and in collaboration with
19	the Secretary of Transportation, the Administrator
20	of General Services, industry partners, institutions
21	of higher education, and National Laboratories, shall
22	support demonstrations of advanced production of
23	low-emissions cement, concrete, and asphalt that
24	uses either—
25	"(A) a single technology or practice; or

1	"(B) a combination of multiple tech-
2	nologies or practices.
3	"(2) Selection requirements.—In carrying
4	out the demonstrations under paragraph (1), the
5	Secretary shall select eligible entities to carry out
6	demonstration projects and to the maximum extent
7	practicable—
8	"(A) encourage regional diversity among
9	eligible entities, including participation by enti-
10	ties located in rural areas;
11	"(B) encourage technological diversity
12	among eligible entities; and
13	"(C) ensure that specific projects se-
14	lected—
15	"(i) expand on the existing technology
16	demonstration programs of the Depart-
17	ment;
18	"(ii) are based on the extent of green-
19	house gas emissions reductions achieved;
20	and
21	"(iii) prioritize leveraging matching
22	funds from non-Federal sources.
23	"(3) Reports.—The Secretary shall submit to
24	the Committee on Science, Space, and Technology of

 Energy and Natural Resources of the Senate— "(Λ) not less frequently than once every two years for the duration of the demonstra- tions under paragraph (1), a report describing the performance of such demonstration; and "(B) if any such demonstration is termi- nated, an assessment of the success of, and education provided by, the measures carried out by such demonstration. "(4) TERMINATION.—The Secretary may termi- nate the demonstratives under paragraph (1) if the Secretary determines that sufficient low-emissions cement, concrete, and asphalt produced through ad- vanced production are commercially available domes- tically at a price comparable to the price of cement, concrete, and asphalt produced through traditional methods of production. "(g) TECHNICAL ASSISTANCE PROGRAM.— "(1) IN GENERAL.—The Secretary, in consulta- tion with the Secretary of Transportation, the Sec- retary of Commerce (acting through the Director of the National Institute of Standards and Tech- nology), the Administrator of General Services, the Administrator of the Environmental Protection 	1	the House of Representatives and the Committee on
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 19 "(g) TECHNICAL ASSISTANCE PROGRAM.— 20 "(1) IN GENERAL.—The Secretary, in consulta- 21 tion with the Secretary of Transportation, the Sec- 22 retary of Commerce (acting through the Director of 23 the National Institute of Standards and Tech- 24 nology), the Administrator of General Services, the 	17	concrete, and asphalt produced through traditional
 "(1) IN GENERAL.—The Secretary, in consulta- tion with the Secretary of Transportation, the Sec- retary of Commerce (acting through the Director of the National Institute of Standards and Tech- nology), the Administrator of General Services, the 	18	methods of production.
 tion with the Secretary of Transportation, the Sec- retary of Commerce (acting through the Director of the National Institute of Standards and Tech- nology), the Administrator of General Services, the 	19	"(g) Technical Assistance Program.—
 retary of Commerce (acting through the Director of the National Institute of Standards and Tech- nology), the Administrator of General Services, the 	20	"(1) IN GENERAL.—The Secretary, in consulta-
 the National Institute of Standards and Tech- nology), the Administrator of General Services, the 	21	tion with the Secretary of Transportation, the Sec-
24 nology), the Administrator of General Services, the	22	retary of Commerce (acting through the Director of
	23	the National Institute of Standards and Tech-
25 Administrator of the Environmental Protection	24	nology), the Administrator of General Services, the
	25	Administrator of the Environmental Protection

1	Agency, and appropriate representatives of relevant
2	standards development organizations, shall provide
3	technical assistance to eligible entities to carry out
4	an activity described in paragraph (2) to promote
5	the commercial application of technologies for the
6	production and use of low-emissions cement, con-
7	crete, and asphalt.
8	"(2) ACTIVITIES DESCRIBED.—An activity re-
9	ferred to in paragraph (1) is any of the following:
10	"(A) Efforts related to collecting data that
11	could be used in the updating of local codes,
12	specifications, and standards to engineering
13	performance-based standards.
14	"(B) A lifecycle assessment of the final
15	product.
16	"(C) An environmental impact comparison
17	between different cements, concretes, and as-
18	phalts.
19	"(D) A techno-economic assessment.
20	"(E) An environmental permitting or other
21	regulatory process.
22	"(F) An evaluation or testing activity.
23	"(G) Any other activity that promotes the
24	commercial application of technologies devel-
25	oped through the program under subsection (b).

1	"(3) Applications.—The Secretary shall seek
2	applications for technical assistance under this sub-
3	section—
4	"(A) on a competitive basis; and
5	"(B) on a periodic basis, but not less fre-
6	quently than once every 12 months.
7	"(4) REGIONAL CENTERS.—The Secretary may
8	designate or establish one or more regional centers
9	to provide technical assistance to eligible entities to
10	carry out the activity described in paragraph $(2)(A)$.
11	"(h) Additional Coordination.—
12	"(1) MANUFACTURING USA.—In carrying out
13	this section the Secretary shall consider—
14	"(A) leveraging the resources of relevant
15	existing Manufacturing USA Institutes de-
16	scribed in section 34(d) of the National Insti-
17	tute of Standards and Technology Act (15
18	U.S.C. 278s(d));
19	"(B) integrating program activities into a
20	relevant existing Manufacturing USA Institute;
21	or
22	"(C) awarding financial assistance, con-
23	sistent with section 34(e) of the National Insti-
24	tute of Standards and Technology Act (15
25	U.S.C. 278s(e)), to a person or group of per-

sons to assist the person or group of persons in
 planning, establishing, or supporting a Manu facturing U.S.A. institute focused on advanced
 production of low-emissions cement, concrete,
 and asphalt.

6 "(2) Other federal agencies.—In carrying 7 out this section, the Secretary shall coordinate with 8 other Federal agencies, including the Department of 9 Defense, the Department of Transportation, and the 10 National Institute of Standards and Technology, 11 that are carrying out research and development ini-12 tiatives to increase industrial competitiveness and 13 achieve measurable greenhouse gas or directly re-14 lated copollutant emissions reductions through the 15 advanced production of cement, concrete, and as-16 phalt.

17 "(i) SUNSET.—This section shall terminate seven18 years after the date of the enactment of this section.

"(j) RESEARCH SECURITY.—The activities authorized under this section shall be applied in a manner consistent with subtitle D of title VI of the Research and Development, Competition, and Innovation Act (enacted as
division B of Public Law 117–167 (42 U.S.C. 19231 et
seq.)).

"(k) RULE OF CONSTRUCTION.—Nothing in this sec tion may be construed to amend, alter, or affect the au thorities of the Secretary to define, establish, or enforce
 new environmental industry standards for, or related to,
 cement, concrete, or asphalt.".

6 (b) CLERICAL AMENDMENT.—The table of contents
7 in section 1(b) of the Infrastructure Investment and Jobs
8 Act is amended by inserting after the item relating to sec9 tion 40522 the following new item:

Passed the House of Representatives September 23, 2024.

Attest:

Clerk.

[&]quot;Sec. 40523. Advanced cement, concrete, and asphalt production research program.".

118TH CONGRESS H. R. 7685

AN ACT

To strengthen and enhance the competitiveness of American industry through the research and development of advanced technologies to improve the efficiency of cement, concrete, and asphalt production, and for other purposes.