

Concrete and Asphalt Innovation Act of 2025

Concrete is the world's most used building material. In aggregate, 18 billion tons of concrete are produced each year, accounting for eight percent of worldwide greenhouse gas emissions. Together, concrete and asphalt present a huge opportunity for decarbonization and advancing American competitiveness given all the innovation happening in the industry and the sheer ubiquity of the material across our built environment.

The Concrete and Asphalt Innovation Act of 2025 would direct federal resources to accelerate research, development, demonstration, and commercialization of technologies that deliver low-emission concrete and asphalt to the market. It achieves this with the following provisions:

- Creating a low-emissions cement, concrete, asphalt binder, and asphalt mixture research, development, and demonstration program at the Department of Energy aimed at achieving substantial reduction in embodied greenhouse gas emissions and increasing domestic production.
- Empowering the Secretary of Commerce to establish low-emissions concrete and asphalt Manufacturing USA Institutes.
- Providing performance-based, low-emissions transportation materials grants through the Federal Highway Administration to encourage States to improve emissions specifications on concrete and asphalt.
- Authorizing an Advance Purchase Commitment program at the Department of Transportation for state departments of transportation to procure low-emissions cement, concrete, asphalt binder, or asphalt mixture to jumpstart innovative producers with a “demand pull.”
- Forming an interagency task force including the Departments of Energy, Transportation, Defense, General Services Administration, and the National Institute of Standards and Technology, charged with driving innovation for improved durability and performance of low-emissions concrete and asphalt, and with ensuring the development of a trained workforce supporting production and use of these materials.

Endorsing Organizations: Biomason, Brimstone, Bipartisan Policy Center, Center for Climate and Energy Solutions, Clean Air Task Force, ClearPath Action, Natural Resources Defense Council, RMI, Sublime Systems, World Resources Institute.

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