

FACTSHEET

Recent Proposals to Enhance Federal Climate Innovation

Below, we call out some of the pieces of the progressive climate innovation agenda that have been captured in recent proposals from Congress and the Biden Administration, including the Energy Act of 2020 that passed in December. These proposals could co-exist and complement one another and should not be read as competitors. This table is not an exhaustive summary of the full contents of each proposal.

Innovation authorizations that address:	American Jobs Plan (proposed by the President; funding is for 8 years or less)	Energy Act of 2020 (enacted into law; authorized funding levels over 5 years)	Clean Economy Jobs and Innovation Act (2020) (passed the House; authorized funding levels over 5 years)	CLEAN Future Act (2021) (introduced in the House; authorized funding levels over 10 years)
<p>Expansion</p> <p>Expands the federal innovation apparatus to include the full suite of activities necessary to integrate new clean technologies into the energy system at scale.</p>	<p>RD&D:</p> <ul style="list-style-type: none"> • \$40B for research facilities and infrastructure • \$80B for science and energy R&D at the National Science Foundation and other agencies • \$35B for climate-focused innovation, including \$15B for large-scale demonstration projects • 15 clean hydrogen projects and 10 projects to capture carbon pollution at heavy industrial facilities 	<p>RD&D:</p> <ul style="list-style-type: none"> • \$35B for DOE innovation programs • Funding for demonstration projects for industrial decarbonization and energy storage • Update to the Loan Programs Office to support energy storage and industrial decarbonization technologies 	<p>RD&D:</p> <ul style="list-style-type: none"> • \$40B for DOE research, development, demonstration, and technical assistance programs 	<p>RD&D:</p> <ul style="list-style-type: none"> • Expansion of the Loan Programs Office Advanced Technology Vehicle Manufacturing Program to support technologies for the medium- and heavy-duty sectors

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Expansion

Expands the federal innovation apparatus to include the full suite of activities necessary to integrate new clean technologies into the energy system at scale.

DEPLOYMENT:

- \$174B in investments in electric vehicle manufacturing, supply chains, and infrastructure
- \$27 billion for a clean energy accelerator to mobilize investment in distributed energy technologies
- Long-term tax incentives

DEMAND-PULL AND STANDARDS:

- \$46B in federal procurement funding
- Federal clean electricity standard to achieve 100% clean electricity by 2035

DEPLOYMENT:

- Extension of tax credits to deploy clean energy and energy efficiency technologies
- Reauthorization of DOE's Weatherization Assistance Program for low-income energy efficiency
- Reauthorization of the Diesel Emissions Reduction program

DEMAND-PULL AND STANDARDS:

- Phasedown of hydrofluorocarbons (HFCs)

DEPLOYMENT:

- More than \$70B for investments in clean transportation technologies and infrastructure and energy efficiency in buildings
- \$20B for a clean energy accelerator
- Expands DOE technology commercialization programs

DEMAND-PULL AND STANDARDS:

- Updates the process and authorization for DOE to set model building energy codes and support subnational governments in adoption and compliance

DEPLOYMENT:

- More than \$7B for investments to modernize the electricity grid
- More than \$88B for investments in energy efficiency, decarbonization of the building stock, and support for local governments to advance clean energy and energy efficiency
- More than \$120B for investments in electric vehicle manufacturing and infrastructure and clean transportation strategies
- More than \$20B for investments in clean energy manufacturing and emissions reductions at industrial facilities

DEMAND-PULL AND STANDARDS:

- Updates the process and authorization for DOE to set model building energy codes and support subnational governments in adoption and compliance
 - Establishes a Buy Clean program to increase demand for low-emissions industrial products, and expanded procurement of clean vehicles
 - Establishes a labeling program to create a high-achievers market for industrial products with low embodied carbon emissions
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Emissions

Reduces the cost and improves the performance of technologies and strategies that can rapidly decarbonize the most polluting and hard-to-tackle areas of the economy.

- Increases DOE's industrial sector innovation work
- Increases transportation-focused deployment efforts
- Increases buildings sector deployment efforts
- Establishment of ARPA-C to fill in gaps in the innovation portfolio
- Establishment of a clean energy accelerator that would support distributed energy technologies

- Increases DOE's industrial sector innovation work

- Increases DOE's industrial sector innovation work
- Increases transportation-focused deployment efforts

- Establishment of an Assistant Secretary of Manufacturing and Industry to elevate DOE's industrial sector efforts
- Increases DOE's transportation-focused deployment efforts
- Increases buildings sector deployment efforts

Equity

Combats the historically unequal impacts of pollution, while increasing equitable access to new economic opportunity, improved public health, and resilience.

- Dedicated funds for historically Black colleges and universities and other minority-serving institutions
- Increases in R&D funding for land-grant universities
- \$31B for innovation funding for small businesses with a focus on communities of color and underserved communities
- Establishment of ARPA-C
- \$20B for at least ten regional innovation hubs and a Community Revitalization Fund

- Portions of the Environmental Justice for All Act, including additional EJ grant programs, training of federal employees, and establishment of an environmental justice mission across agencies
- \$1.25B for solar deployment in low-income communities

- Requirement that 40% of investments be used to support activities that directly benefit environmental justice communities
- \$200M for Office of Energy Equity
- Prevailing wage requirement for funded project and option for project labor agreements
- \$2.5B in authorized funding for solar deployment in low-income communities
- \$960M for electric vehicle charging infrastructure in disadvantaged communities
- \$15B for technical assistance, community outreach, and investments to improve climate resilience of the grid
- \$1.5B for tribal organizations to upgrade public facilities for energy efficiency, resilience, and grid benefits