CARBON PRICING PROPOSALS IN THE 118TH CONGRESS



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There are various market-based approaches to pricing carbon (e.g., carbon tax, cap and trade, clean energy standard). All of these approaches can reduce emissions cost-effectively while driving clean energy innovation. This factsheet compares three carbon tax proposals and one cap-and-invest proposal introduced in the 118th Congress (2023–2024).

Carbon pricing offers a cost-effective way to reduce greenhouse gas emissions. Twelve states are already pricing carbon, and a number of states are considering similar action. This factsheet summarizes and compares four federal carbon pricing proposals that have been introduced so far in the 118th Congress (2023–2024), highlighting similarities and differences. Three of these proposals would establish a carbon tax (or "carbon fee"), and one would establish a cap-and-trade program (or "cap-and-invest program"). They are:

- the Energy Innovation and Carbon Dividend Act of 2023 (H.R. 5744) introduced by Rep. Salud Carbajal (D-Calif.) on September 27, 2023
- the Modernizing America with Rebuilding to Kickstart the Economy of the Twenty-first Century with a Historic Infrastructure-Centered Expansion Act of 2023 (MARKET CHOICE Act, H.R. 6665) introduced by Reps. Brian Fitzpatrick (R-Pa.) and Salud Carbajal (D-Calif.) on December 7, 2023
- Climate Pollution Standard and Community Investment Act of 2023 (H.R. 9230) introduced by Rep. Paul Tonko (D-N.Y.) on July 30, 2024
- the America's Clean Future Fund Act (S. 5107) introduced by Sen. Dick Durbin (D-Ill.) on September 19, 2024

While each proposal would establish a price on carbon, they differ in emissions covered. The Fitzpatrick proposal (i.e., the MARKET CHOICE Act) would apply a tax to greenhouse gas emissions from fossil fuels and certain industrial products and processes, while the Carbajal proposal (i.e., the Energy Innovation and Carbon Dividend Act) would apply a tax on carbon dioxide equivalent emissions from fossil fuels and a reduced carbon tax. The Fitzpatrick proposal would also replace the gas and aviation fuel tax with a carbon tax.

Other differences include the starting level of the tax, how quickly it increases over time (see **Figure 1**), and how the revenue is used. The Carbajal proposal, for example, would establish a \$15 per metric ton carbon tax that rises \$10 annually and could rise \$15 annually if annual emission targets are not met. All of the revenues would be rebated back to the American people as a dividend.

The Fitzpatrick proposal would establish a \$35 per metric ton carbon tax that rises at 5 percent over inflation annually and could rise \$4 biennially if emission targets are not met. Revenues would primarily fund infrastructure.

The Durbin proposal would start at \$65 per metric ton and increase \$10 annually, which could rise \$15 to \$25 annually if emissions targets are not met for a given year. The proposal would establish a climate bank to foster innovation and investments in clean energy and climate resilience, provide transition assistance for impacted communities, provide rebates back to the American public, payments for agricultural- and land-based sequestration, and delay the carbon tax to 2026.

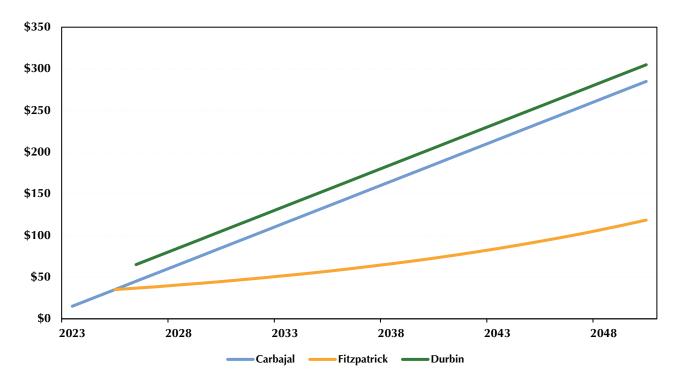


FIGURE 1: Nominal tax rate for carbon tax proposals (\$/metric ton)

The figure shows the escalation rate for the carbon tax proposals. It does not reflect any potential changes to the tax due to meeting or not meeting an emissions reduction target. This figure does not include the Tonko cap-and-invest proposal since the allowance price will be determined by auction.

The carbon pricing proposals include an emissions reduction target for covered emissions (see **Figure 2**). The Carbajal proposal has an emissions reduction target of 98 percent below 2005 levels by 2050. The Fitzpatrick proposal also has a cumulative emissions schedule from 2025 to 2035 that would reduce emissions about 46 percent below 2005 levels by 2035. The Durbin proposal has an emissions reduction target of 90 percent below 2018 levels by 2050 (about 91 percent below 2005 levels by 2050). The Whitehouse proposal has an emissions reduction target of 100 percent below 2005 levels by 2050.

The proposals also differ in the treatment of greenhouse gas regulations and state programs. The Fitzpatrick proposal would place a moratorium on most stationary source greenhouse gas regulations under the Clean Air Act. The Fitzpatrick proposal would place a 12-year moratorium of these regulations, which could be lifted in 2029 or 2033 if emissions reduction targets are not met. Under the proposal, if the moratorium is lifted, the Environmental Protection Agency (EPA) administrator would be required to issue regulations to bring greenhouse gas emissions from covered fuels to levels that are at or below emissions reduction targets. The Fitzpatrick proposal would also offer a declining annual credit to entities covered by both the federal tax and a state greenhouse gas program.

Both proposals include some provisions to ensure environmental integrity (i.e., provide greater certainty that emissions reduction targets will be met). For example, if the target is not met for a given period, the tax rate goes up or EPA greenhouse gas regulations under the Clean Air Act could come back into force.

The following table highlights key characteristics of each economy-wide proposal.

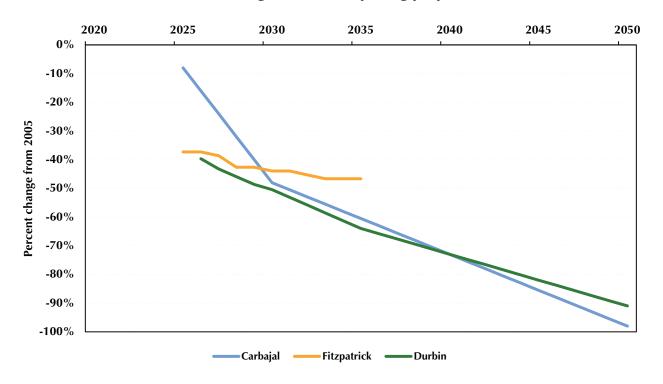


FIGURE 2: Emissions reduction target for carbon pricing proposals

The figure shows the emissions reduction targets relative to 2005 greenhouse gas emissions for three carbon pricing proposals.

BOX: Sector-specific carbon pricing proposals

Three sector-specific carbon pricing proposals have been introduced in this Congress. While an economywide carbon price provides the most efficient way to reduce emissions, in its absence, these sector-specific proposals apply similar market-based approaches to reduce sectoral emission.

One proposal would reduce carbon dioxide emissions from ocean shipping. In June 2023, Sens. Sheldon Whitehouse (D-R.I.), Alex Padilla (D-Calif.), and Peter Welch (D-Vt.) introduced the International Maritime Pollution Accountability Act of 2023 (S. 1920). This proposal would establish a fee on the lifecycle carbon dioxide emission from large cargo vessels and on the fuel burned on the inbound trip to the United States. Fees—\$150 per metric ton of carbon dioxide, \$6.30 per pound of nitrogen oxides, \$18 per pound of sulfur dioxide, and \$38.90 per pound for fine particulate matter (PM2.5)—would start in 2025 and increase five percent above inflation annually. The revenue from the fees would go toward modernizing the Jones Act fleet with low-carbon vessels, decarbonizing ports, and reducing pollution in port communities.

Two proposals would reduce carbon dioxide emission from private and luxury jet travel. In June 2023, Sens. Sheldon Whitehouse (D-R.I.), Edward Markey (D-Mass.), and Peter Welch (D-Vt.) introduced the Assessing International Requirements to Fuel Aviation's Impact Reduction Act of 2023 (S. 2599). Of relevance, this proposal would establish a surcharge on domestic flights on private jets based on carbon dioxide emissions. Starting in 2025, the surcharge is \$190 per ton of carbon dioxide, increasing ten percent above inflation annually. Revenue from the proposal would be used to invest in and decarbonize airport infrastructure. In July 2023, Sen. Edward Markey (D-Mass.) and Rep. Nydia Velazquez (D-N.Y.) introduced the Fueling Alternative Transportation with a Carbon Aviation Tax Act of 2023 (S. 2378 and H.R. 4760). This proposal would increase the excise fuel tax for private jets from \$0.22 to \$1.95 per gallon, adjusted annually for inflation. This is equivalent to a \$200 per metric ton of carbon dioxide emissions. Revenues from the proposal would support air monitoring and expand and improve public transportation. At least half of the revenues will go to environmental justice communities.

POLICY FEATURES	ENERGY INNOVATION And Carbon Dividend Act	MARKET CHOICE ACT	CLIMATE POLLUTION STANDARD AND COMMUNITY INVESTMENT ACT	AMERICA'S CLEAN FUTURE FUND ACT
Sponsor(s)	Rep. Carbajal (D-Calif.)	Reps. Fitzpatrick (R-Pa.)	Rep. Paul Tonko (D- N.Y.)	Sen. Durbin (D-III.)
Carbon Pricing Mechanism	Carbon Tax	Carbon Tax	Cap and Trade	Carbon Tax
Start Date	270 days after enact- ment	Jan. 1, 2025	Jan. 1, 2026	Program benefits would start upon enactment. Carbon fee would start on Jan. 1, 2026.
Regulating Authority	<i>,</i> .	U.S. Treasury Depart- ment in consultation with EPA	EPA	U.S. Treasury Depart- ment, in consultation with EPA

TABLE 1: Comparison of carbon pricing proposals

POLICY FEATURES	ENERGY INNOVATION And Carbon Dividend Act	MARKET CHOICE ACT	CLIMATE POLLUTION STANDARD AND COMMUNITY INVESTMENT ACT	AMERICA'S CLEAN FUTURE FUND ACT
Substances Covered	CO ₂ equivalent emis- sions from covered fuels: crude oil, natural gas, and coal.	CO ₂ equivalent emis- sions from fossil-fuel combustion and certain industrial products and processes.	$CO_{2'}$ CH_4 (to extent not regulated under the Methane Emissions Re- duction Program), N ₂ O, SF _{6'} HFC (to extent not regulated under Title VI or the American Innova- tion and Manufacturing (AIM) Act), PFC, NF ₃ , and any other GHG designated by the EPA administrator as having a 100-year GWP poten- tial greater than CO_2 .	CO ₂ -equivalent emis- sions from covered fuels (crude oil, natural gas, coal), and CO ₂ or CH ₄ emissions from the energy or industrial sectors (ex- cluding emissions from combustion or use of covered fuel).
Point of Coverage (i.e., Covered Entity)	Covered entities include: refinery, coal mine mouth, those entering pipeline qual- ity natural gas into the transmission system, and any importer of a covered fuels. Exemption for covered fuels used: on a farm for farming purposes and non-fossil fuel GHG emissions which occur on a farm, and by the armed services.	Covered fossil fuel enti- ties include: coal mine mouth or coal prepara- tion and processing plant, refineries, and natural gas processing plant or point of sale, and point at which im- ported fossil fuels enter the United States. Other covered entities include owner/operator of certain large indus- trial facilities (initial list of 20) or owner/operator of a facility that makes or imports certain prod- ucts (initial list of 8) and emits more than 25,000 metric tons of CO ₂ equivalent annually. The EPA can revise the list of source categories and producers.	Covered entities are electricity generators with at least 25 mega- watts of nameplate capacity, large station- ary sources emitting more than 25,000 tons of CO ₂ -equivalent and other specified sources, any geological seques- tration site, and natural gas local distribution companies that deliver more than 460 million cubic feet.	Covered entities include: refinery, coal mine mouth, those entering pipeline-qual- ity natural gas into the transmission system, any importer of a covered fuels or fuel products, and facilities emitting at least 25,000 tons of CO ₂ or CH ₄ in the preceding calendar year. Treasury secretary can add additional entities that transports, sells, or uses a covered fuel in a manner not covered by the fee.

POLICY FEATURES	ENERGY AND CA DIVIDEN		MARKET	CHOICE ACT	STANDA COMMU	E POLLUTION ARD AND JNITY MENT ACT		4'S CLEAN FUND ACT
Emission Targets and Timetables	The emission target is equal to the previous year's target minus the percentage listed in the table: Emissions Reduction Target (%		emissions from covered sources are greater than the specified emissions (million metric tons CO ₂ equivalent) below:		Economy-wide goal of net-zero GHG emis- sions no later than 2050 and seeks to achieve net-negative emissions thereafter. Quantity of allowance based on emission mile-		The carbon tax can be adjusted if cumulative emissions are greater than the cumulative emissions target. The cumulative emissions target is the sum of emission targets. The emission target is as	
	Year	of 2005 emissions)		Total	stones:	[<u>_</u> · ·]	specified	0
	2023– 2024	5% per year	Year 2025	Emissions 4,700	Year	Emissions reduction(% of 2005)		Applicable percentage of 2018 emis-
	2025– 2030	8% per year	2026 2027	9,400	2030	50%	Year	sions
	2030	2.5% per year	2027	18,300	2040	70%	2026	67%
	2050	2.570 per year	2029	22,600	2050	90%	2027	63%
	The proposal's emis- sions reduction target is 98% below 2005 levels by 2050.	osal's emis-	2030	26,800	Requires the aggre-	2028	60%	
		2031	31,000	gate quantity of GHG emissions from covered entities to decrease	2029	57%		
		2032	35,100		2030	55%		
	by 2030.		2033	39,100		2% of 2005	2031	52%
			2034	43,100		until reaching which point the	2032	49%
			203547,100The proposal's emission		aggregate quantity may	2033	46%	
		reduction target is about 46% below 2005 levels by 2035.	remain flat. If the administrator fails to establish annual quantity of allowances before the start of a compliance period, the quantity of allowances	2034	43%			
				2035	40%			
				2036– 2050	Reduce addi- tionally by 2% from preced- ing year.			
					would a decline 2005 ba The prop sions rec	utomatically by 3.5% of the seline annually. posal's emis- duction target is low 2005 levels	sions rec	oosal's emis- luction target is ow 2005 levels

POLICY FEATURES	ENERGY INNOVATION And Carbon Dividend Act	MARKET CHOICE ACT	CLIMATE POLLUTION STANDARD AND COMMUNITY INVESTMENT ACT	AMERICA'S CLEAN FUTURE FUND ACT
Price and Escalation Rate	Starting at \$15 per met- ric ton of CO ₂ equiva- lent in 2023. Increasing annually at \$10 per metric ton, and at \$15 per metric ton if emissions reduction target is not met in the previous year (adjusted for inflation). The carbon fee escala- tion rate will be \$0 for any year after emissions from covered fuels are 90% below 2005 levels. The carbon fee will be phased out once emis- sions from covered fuels are 90% below 2005 levels, and the monthly carbon dividend pay- ments to an adult has been less than \$20 for 3 consecutive years.	Starting at \$35 per met- ric ton of CO ₂ equiva- lent in 2025. Increasing annually at 5% above CPI, and starting in 2027, at an additional \$4 per metric ton biennially if cu- mulative emissions are greater than the emis- sions schedule. Any covered person that fails to pay a carbon tax for a given year will be subject to a penalty three time the applica- ble amount for that year.	Allowance price is determined by auction. The administrator is required to establish an annual quantity of al- lowances in accordance to meeting emission targets. The administrator is required to hold quar- terly auctions, limit how many permits a single participant can purchase at a single auction, sets a minimum price at \$15 in 2026 and increas- ing 5% over inflation, establish a cost contain- ment reserve (CCR), and establish an emissions containment reserve (ECR). CCR will be filled initially with one year's worth of allowances and may be refilled with unactioned allow- ances not placed in the CCR must be retired. The administrator must retire an unused initial allowance before adding an unauctioned allow- ance.	Starting at \$65 per met- ric ton of CO ₂ equiva- lent in 2026. Increasing annually at \$10 per metric ton. Fee is adjusted for infla- tion (rounded to the nearest whole dollar). If cumulative emission target is not met for the preceding year, then the tax can increase: • \$15 for years 2029–2033 • \$20 for years 2034–2043 • \$25 after 2043. Starting in 2028, a fee is placed on noncovered fuel emissions equal to the fee rate for a given year. The carbon tax escala- tion rate will be phased out once emissions from covered fuels are 90% below 2018 levels for three consecutive years.

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Price and Escalation Rate (cont.)			ECR will be filled annually with 10% of emission allow- ances established for the calendar year. The administrator must hold these allowances unless auction prices reach a certain threshold.	
			Allowances can be banked for later years. Covered entities are limited to holding al- lowances no more than 100% of their GHG emissions during the preceding compliance period.	
			A covered entity that fails to demonstrate compliance is liable to a penalty three times the clearing price in the last auction.	
Credit or Refund	Treasury secretary can issue payments to the amounts equivalent to the metric tons of CO_2 that is captured, sequestered, or utilized from combustion of cov- ered fuels in the United States.	Treasury secretary can issue credit or refund in the amounts equivalent to the metric tons of CO_2 that is captured and sequestered from com- bustion of fossil fuels or use as feedstock that has no associated emissions.	N/A	Treasury secretary, in consultation with EPA administrator and en- ergy secretary, can issue payments in the amount of the carbon fee for the utilization (excluding use for enhanced oil or natural gas recovery) or capture and secure stor- age of carbon dioxide or for direct air capture.
				Entities violating air quality regulations are not eligible from the payment.

POLICY FEATURES	ENERGY INNOVATION AND CARBON DIVIDEND ACT	MARKET CHOICE ACT	CLIMATE POLLUTION STANDARD AND COMMUNITY INVESTMENT ACT	AMERICA'S CLEAN FUTURE FUND ACT
Border Adjustment	Border adjustment on covered fuels starts at the same time as the carbon fee, and expands to include carbon-in- tensive products within years of enactment of this act. A carbon border fee will be imposed on imported covered fuels and on carbon-intensive goods. A carbon border fee could be adjusted if a foreign country has a price on carbon. A credit or refund (with- out interest) is issued to exporters of carbon- intensive goods. Revenues from the pro- gram may be used for administering the border adjustment and then for the Green Climate Fund. If the border adjust- ment is found to violate aspects of treaties that the United States is a party, then the Secretary of State can alter the border adjustment to bring it into compliance with international law. This fee would be suspended by a treaty or international agreement, or by a determina- tion that a country has implemented a climate policy at least equiva- lent to the U.S. program.	A border tax adjustment is placed on imported covered goods and a rebate of the tax on ex- ported covered goods. Covered goods are those from eligible in- dustrial sectors (manu- facturing sectors, or sectors or part of sectors that beneficiates or processes metal ores) or manufactured items for consumption (as deter- mined by the Secretary) that has a GHG intensity of at least 5% and a trade intensity of at least 15%.	Establishes an Interna- tional Reserve Allow- ance Program, which would require importers of covered goods to purchase allowances to cover each emissions from all relevant stages of production. The price for an international reserve allowance is the average of the last four auction clearing prices. Half the revenues gener- ated from the sale of international reserve allowances should be used to supplementing funding for a clean en- ergy rebate program, up to 10% of the revenue to administer this program, and any remaining funds should be divided equally for use of other funds within this Act.	A carbon border fee adjustment imposed on imported covered fuels and on carbon-intensive goods. The fee could be reduced if a foreign country has policies that have the same effect of reducing emissions as a carbon fee. A refund paid to export- ers of carbon-intensive goods.

POLICY FEATURES	ENERGY INNOVATION And Carbon Dividend Act	MARKET CHOICE ACT	CLIMATE POLLUTION STANDARD AND COMMUNITY INVESTMENT ACT	AMERICA'S CLEAN FUTURE FUND ACT
Use of Revenue	Revenues from the program will be used to provide a monthly divi- dend to individuals with a valid Social Security number or a taxpayer identification number and is a citizen or lawful resident of the United States. A carbon dividend payment is one pro-rata share for each adult and half a pro-rata share for those under 19 years old, with a limit of 2 children per household. The dividend would be included in determin- ing gross income for tax purposes. The carbon dividend amount will not be con- sidered income when determining eligibility for federal assistance programs.	 The bill creates a trust and would allocate three-quarters of the revenue from the pro- gram to the trust for the following: 70% for the Fed- eral Highway Trust Fund; 10% to states in the form of grants for low-income house- holds; 4% for flooding mitigation and ad- aptation infrastruc- ture projects; 3% for displaced energy workers; 2.5% for the Airport and Airway Trust Fund; 2.2% for carbon capture utilization and storage; 1.5% for weather- ization programs; 1.5% for Aban- doned Mine Recla- mation Fund; and The remaining revenues will be used for R&D and other purposes (e.g., Reforestation Trust Fund, support for carbon se- questration, and Leaking Underground Storage Trust Fund). 	Allocation of emis- sion allowances for: consumer benefit, EITE industries, protecting low-income households, state and Indian tribal government, local gov- ernments, hosting high- level nuclear waste, worker and commu- nity assistance, frontline communities, negative emission activities (in- cluding agricultural and land use practices), and energy innovation.	 From fiscal years 2027 to 2036, revenues from the program will be used: 75% of the fund will be used for a dividend and agriculture de- carbonization. It would provide a quarterly dividend to individuals with a valid Social Se- curity number or a taxpayer identifica- tion number and is a citizen or law- ful resident in the United States. The dividend amount will be phased out based on adjusted gross income. Up to 7% of the dividend could be used to provide transition assistance for agriculture, live- stock, and forestry sectors to prepare entry into green- house gas credit markets. 15% of the fund will be used for a Climate Change Fi- nance Corporation to finance clean energy and climate resilience activities.

POLICY FEATURES	ENERGY INNOVATION And Carbon Dividend Act	MARKET CHOICE ACT	CLIMATE POLLUTION STANDARD AND COMMUNITY INVESTMENT ACT	AMERICA'S CLEAN FUTURE FUND ACT
Use of Revenue (cont.)				 10% of the fund will be used for transition assistance for impacted com- munities. Initial funding for these programs will be appro- priated (e.g., fiscal years 2025 and 2026) and will be paid back over 18 years once the carbon fee goes into effect.
Treatment of Federal GHG Regulations	Not specified.	This bill will establish a rolling mortarium for most stationary source GHG regulations under the Clean Air Act upon enactment of this act that will expire on Janu- ary 1, 2037. The moratorium is lifted	Not specified.	Not specified.
		if emissions exceed the specified emissions lev- els for 2028 or 2032.		
Treatment of Existing State Programs	Does not preempt state GHG programs.	Starting in 2025, a cov- ered entity will receive a credit for payment(s) on GHG emissions made under state programs. The amount of the credit will start at 100% of the amount paid under the state program, and then decline 20% annually. No credits will be provided beyond the fifth year.	Not specified.	Not specified.

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Other Relevant Items	Ten years after enact- ment of this act, the National Academies of Science is required to prepare a report to review the carbon fee program's impacts and efficacy in meeting the emission reduction targets, and to make recommendations to reduce emissions in economic sectors where carbon emissions have not decreased. The Energy Secretary shall enter into an agree- ment with the National Academies of Science and the EPA Administra- tor to conduct a study and make recommenda- tions on the carbon fee impact on the use of biomass as an energy source and the resulting impact on carbon sinks and biodiversity.	Extends the 45Q tax credit by 2 years. Modi- fies 48A tax credit for advanced coal projects. Would establish a bipartisan National Climate Commission to prepare a report to Congress with analysis and recommendations for reducing greenhouse gas emissions.	N/A	Would require the Na- tional Academies of Sci- ence to conduct a study every five years and make recommendations for meeting emission reduction goals. Would require Council on Environmental Qual- ity to establish a nature- based carbon sequestra- tion target, and develop strategies for meeting that target and protect- ing those ecosystems.



The Center for Climate and Energy Solutions (C2ES) is an independent, nonpartisan, nonprofit organization working to forge practical solutions to climate change. We advance strong policy and action to reduce greenhouse gas emissions, promote clean energy, and strengthen resilience to climate impacts.

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