| 116TH CONGRESS 1ST SESSION | S. |
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To establish a cost of greenhouse gases for carbon dioxide, methane, and nitrous oxide to be used by Federal agencies, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. Bennet (for himself, Mr. Whitehouse, Mr. Van Hollen, Ms. Harris, Mr. Cardin, Mrs. Feinstein, Mr. Merkley, Mr. Wyden, Ms. Smith, Mr. Carper, Mrs. Gillibrand, Ms. Hirono, Ms. Klobuchar, Mr. Schatz, Mr. Markey, Mr. Heinrich, and Ms. Cortez Masto) introduced the following bill; which was read twice and referred to the Committee on

A BILL

To establish a cost of greenhouse gases for carbon dioxide, methane, and nitrous oxide to be used by Federal agencies, 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,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "Carbon Pollution
- 5 Transparency Act".
- 6 SEC. 2. FINDINGS.
- 7 Congress finds that—

| 1 | (1) sound economic and policy analyses require |
|----|---|
| 2 | that the economic benefits of reducing climate |
| 3 | change be considered together with the costs of poli- |
| 4 | cies and measures to reduce greenhouse gas emis- |
| 5 | sions; |
| 6 | (2) climate change, if not addressed, is pro- |
| 7 | jected to inflict substantial damage on the economy |
| 8 | and people of the United States; |
| 9 | (3) according to the Congressional Budget Of- |
| 10 | fice, the Government Accountability Office, and the |
| 11 | Office of Management and Budget, the impacts of |
| 12 | climate change are— |
| 13 | (A) costing United States taxpayers bil- |
| 14 | lions of dollars annually; and |
| 15 | (B) putting pressure on the Federal budg- |
| 16 | et; |
| 17 | (4) the expenditures by the Federal Govern- |
| 18 | ment resulting from the effects of climate change |
| 19 | are projected to increase, and reducing greenhouse |
| 20 | gas emissions presents an opportunity to minimize |
| 21 | those expenditures; |
| 22 | (5) between calendar years 2008 and 2015, the |
| 23 | United States reduced carbon pollution from the en- |
| 24 | ergy sector by nearly 10 percent, while the economy |
| 25 | grew more than 10 percent; |

| 1 | (6) more than 1,200 companies are taking the |
|----|---|
| 2 | cost of climate change into consideration in business |
| 3 | decisions; |
| 4 | (7) estimates of the costs of greenhouse gases |
| 5 | provide a method and measure, grounded in sci- |
| 6 | entific and economic research, for monetizing— |
| 7 | (A) the costs of greenhouse gas emissions; |
| 8 | and |
| 9 | (B) the benefits of reducing greenhouse |
| 10 | gas emissions; |
| 11 | (8) the National Academies of Sciences, Engi- |
| 12 | neering, and Medicine has provided detailed rec- |
| 13 | ommendations for improving the estimate of the |
| 14 | costs of greenhouse gases for the purpose of regu- |
| 15 | latory analysis; |
| 16 | (9) the reduction of greenhouse gas emissions |
| 17 | by other countries benefits the United States by re- |
| 18 | ducing climate risks to the United States, and the |
| 19 | reduction of greenhouse gas emissions by the United |
| 20 | States benefits other countries; |
| 21 | (10) in light of the global nature of the problem |
| 22 | of greenhouse gas emissions, the interests of the |
| 23 | United States would be maximized if the United |
| 24 | States were to use a calculation method of the cost |
| 25 | of climate pollution that reflects global damages; |
| | |

| 1 | (11) due to the nature of climate change risks, |
|----|---|
| 2 | the returns on mitigation may pay off in periods |
| 3 | that would otherwise involve substantial losses; |
| 4 | (12) economic theory and evidence suggests |
| 5 | that, for actions with intergenerational consequences |
| 6 | such as the consequences of climate change, a dis- |
| 7 | count rate approximately equal to or less than the |
| 8 | long-term yield on the debt of the Treasury of the |
| 9 | United States may be appropriate; and |
| 10 | (13) it is imperative that the academic commu- |
| 11 | nity continue research on the cost of greenhouse |
| 12 | gases. |
| 13 | SEC. 3. DEFINITIONS. |
| 14 | In this Act: |
| 15 | (1) CALCULATION METHOD.—The term "cal- |
| 16 | culation method" means the method by which the |
| 17 | costs of greenhouse gases are calculated in accord- |
| 18 | ance with subsections (a), (b), and (c) of section 4, |
| 19 | respectively. |
| 20 | (2) COMMITTEE.—The term "Committee" |
| 21 | means the Costs of Greenhouse Gases Scientific Re- |
| 22 | view Committee established under section 7(a). |
| 23 | (3) Costs of greenhouse gases.— |
| 24 | (A) In general.—The term "costs of |
| 25 | greenhouse gases" means the monetized present |

| 1 | discounted values, in dollars, of the current and |
|----|---|
| 2 | future net costs to society that result from— |
| 3 | (i) 1 ton of emissions of a specific |
| 4 | greenhouse gas in a specific year, includ- |
| 5 | ing, but not limited to, damage relating |
| 6 | to— |
| 7 | (I) a change in net agricultural |
| 8 | productivity; |
| 9 | (II) energy use; |
| 10 | (III) human health; |
| 11 | (IV) property damage from in- |
| 12 | creased flood risk and sea level rise; |
| 13 | and |
| 14 | (V) to the maximum extent prac- |
| 15 | ticable, the value of the effect on eco- |
| 16 | system services due to climate change; |
| 17 | and |
| 18 | (ii) the monetized present discounted |
| 19 | values of the current and future net bene- |
| 20 | fits to society from a 1-ton reduction of |
| 21 | emissions of a specific greenhouse gas in a |
| 22 | specific year, including a reduction in any |
| 23 | damage described in clause (i). |
| 24 | (B) Inclusions.—The term "costs of |
| 25 | greenhouse gases" includes— |

| 1 | (i) the cost of carbon dioxide; |
|-----------------------------------|--|
| 2 | (ii) the cost of methane; |
| 3 | (iii) the cost of nitrous oxide; and |
| 4 | (iv) the cost of any other greenhouse |
| 5 | gas estimated by the Working Group. |
| 6 | (4) Working Group.—The term "Working |
| 7 | Group" means the Interagency Working Group on |
| 8 | the Costs of Greenhouse Gases established under |
| 9 | section 5(a). |
| | SEC. 4. COST OF CARBON DIOXIDE, COST OF METHANE, |
| 10 | SEC. 4. COST OF CARDON DIOXIDE, COST OF METHANE, |
| 10 | AND COST OF NITROUS OXIDE. |
| 11 | |
| | AND COST OF NITROUS OXIDE. |
| 11 12 13 | AND COST OF NITROUS OXIDE. (a) COST OF CARBON DIOXIDE.—In developing any |
| 11 12 | AND COST OF NITROUS OXIDE. (a) COST OF CARBON DIOXIDE.—In developing any rulemaking that requires a regulatory impact analysis, |
| 11 12 13 | AND COST OF NITROUS OXIDE. (a) COST OF CARBON DIOXIDE.—In developing any rulemaking that requires a regulatory impact analysis, making any substantial procurement decision for which |
| 111 112 113 114 115 | AND COST OF NITROUS OXIDE. (a) COST OF CARBON DIOXIDE.—In developing any rulemaking that requires a regulatory impact analysis, making any substantial procurement decision for which the cost of carbon dioxide is not applied before the date |
| 111 112 113 114 115 | AND COST OF NITROUS OXIDE. (a) COST OF CARBON DIOXIDE.—In developing any rulemaking that requires a regulatory impact analysis, making any substantial procurement decision for which the cost of carbon dioxide is not applied before the date on which a revised version of the costs of greenhouse gases |
| 111 12 13 14 15 16 | AND COST OF CARBON DIOXIDE.—In developing any rulemaking that requires a regulatory impact analysis, making any substantial procurement decision for which the cost of carbon dioxide is not applied before the date on which a revised version of the costs of greenhouse gases is finalized, the head of any Federal agency shall consider |

Cost of Carbon Dioxide, 2010 Through 2050 (in 2007 Dollars per Metric Ton of Carbon Dioxide), Discount Rate and Statistic

| Year | 5 Percent Average | 3 Percent Average | 2.5 Percent Average | High Impact (95th Percentile at 3 Percent Discount Rate) |
|------|----------------------|----------------------|---------------------|--|
| 2010 | \$10 | \$31 | \$50 | \$86 |

Cost of Carbon Dioxide, 2010 Through 2050 (in 2007 Dollars per Metric Ton of Carbon Dioxide), Discount Rate and Statistic—Continued

| Year | 5 Percent Average | 3 Percent Average | 2.5 Percent Average | High Impact (95th Percentile at 3 Percent Discount Rate) |
|------|----------------------|----------------------|---------------------|--|
| 2011 | \$11 | \$32 | \$51 | \$90 |
| 2012 | \$11 | \$ 33 | \$53 | \$93 |
| 2013 | \$11 | \$34 | \$54 | \$97 |
| 2014 | \$11 | \$35 | \$55 | \$101 |
| 2015 | \$11 | \$36 | \$56 | \$105 |
| 2016 | \$11 | \$38 | \$57 | \$108 |
| 2017 | \$11 | \$39 | \$59 | \$112 |
| 2018 | \$12 | \$40 | \$60 | \$116 |
| 2019 | \$12 | \$41 | \$61 | \$120 |
| 2020 | \$12 | \$42 | \$62 | \$123 |
| 2021 | \$12 | \$42 | \$63 | \$126 |
| 2022 | \$13 | \$43 | \$64 | \$129 |
| 2023 | \$13 | \$44 | \$65 | \$132 |
| 2024 | \$13 | \$45 | \$66 | \$135 |
| 2025 | \$14 | \$46 | \$68 | \$138 |
| 2026 | \$14 | \$47 | \$69 | \$141 |
| 2027 | \$15 | \$48 | \$70 | \$143 |
| 2028 | \$15 | \$49 | \$71 | \$146 |
| 2029 | \$15 | \$49 | \$72 | \$149 |
| 2030 | \$16 | \$50 | \$73 | \$152 |
| 2031 | \$16 | \$51 | \$74 | \$155 |
| 2032 | \$17 | \$52 | \$75 | \$158 |
| 2033 | \$17 | \$53 | \$76 | \$161 |

Cost of Carbon Dioxide, 2010 Through 2050 (in 2007 Dollars per Metric Ton of Carbon Dioxide), Discount Rate and Statistic—Continued

| Year | 5 Percent Average | 3 Percent Average | 2.5 Percent Average | High Impact (95th Percentile at 3 Percent Discount Rate) |
|------|----------------------|----------------------|---------------------|--|
| 2034 | \$18 | \$54 | \$77 | \$164 |
| 2035 | \$18 | \$55 | \$78 | \$168 |
| 2036 | \$19 | \$56 | \$79 | \$171 |
| 2037 | \$19 | \$57 | \$81 | \$174 |
| 2038 | \$20 | \$58 | \$82 | \$177 |
| 2039 | \$20 | \$59 | \$83 | \$180 |
| 2040 | \$21 | \$60 | \$84 | \$183 |
| 2041 | \$21 | \$61 | \$85 | \$186 |
| 2042 | \$22 | \$61 | \$86 | \$189 |
| 2043 | \$22 | \$62 | \$87 | \$192 |
| 2044 | \$23 | \$63 | \$88 | \$194 |
| 2045 | \$23 | \$64 | \$89 | \$197 |
| 2046 | \$24 | \$65 | \$90 | \$200 |
| 2047 | \$24 | \$66 | \$92 | \$203 |
| 2048 | \$25 | \$67 | \$93 | \$206 |
| 2049 | \$25 | \$68 | \$94 | \$209 |
| 2050 | \$26 | \$69 | \$95 | \$212 |

- 1 (b) Cost of Methane.—In developing any rule-
- 2 making that requires a regulatory impact analysis, making
- 3 any substantial procurement decision for which the cost
- 4 of methane is not applied before the date on which a re-
- 5 vised version of the costs of greenhouse gases is finalized,

- 1 the head of any Federal agency shall consider and docu-
- 2 ment the cost of methane in accordance with the amounts
- 3 specified in the following table:

Cost of Methane, 2010 Through 2050 (in 2007 Dollars per Metric Ton of Methane), Discount Rate and Statistic

| Year | 5 Percent Average | 3 Percent Average | 2.5 Percent Average | High Impact (95th Percentile at 3 Percent Discount Rate) |
|------|----------------------|----------------------|---------------------|--|
| 2010 | \$370 | \$870 | \$1,200 | \$2,400 |
| 2011 | \$380 | \$910 | \$1,200 | \$2,500 |
| 2012 | \$400 | \$940 | \$1,300 | \$2,600 |
| 2013 | \$420 | \$970 | \$1,300 | \$2,700 |
| 2014 | \$440 | \$1,000 | \$1,300 | \$2,700 |
| 2015 | \$450 | \$1,000 | \$1,400 | \$2,800 |
| 2016 | \$470 | \$1,100 | \$1,400 | \$2,900 |
| 2017 | \$490 | \$1,100 | \$1,500 | \$3,000 |
| 2018 | \$510 | \$1,100 | \$1,500 | \$3,000 |
| 2019 | \$520 | \$1,200 | \$1,500 | \$3,100 |
| 2020 | \$540 | \$1,200 | \$1,600 | \$3,200 |
| 2021 | \$560 | \$1,200 | \$1,600 | \$3,300 |
| 2022 | \$590 | \$1,300 | \$1,700 | \$3,400 |
| 2023 | \$610 | \$1,300 | \$1,700 | \$3,500 |
| 2024 | \$630 | \$1,400 | \$1,800 | \$3,600 |
| 2025 | \$650 | \$1,400 | \$1,800 | \$3,700 |
| 2026 | \$670 | \$1,400 | \$1,900 | \$3,800 |
| 2027 | \$700 | \$1,500 | \$1,900 | \$3,900 |
| 2028 | \$720 | \$1,500 | \$2,000 | \$4,000 |

Cost of Methane, 2010 Through 2050 (in 2007 Dollars per Metric Ton of Methane), Discount Rate and Statistic—Continued

| Year | 5 Percent Average | 3 Percent Average | 2.5 Percent Average | High Impact (95th Percentile at 3 Percent Discount Rate) |
|------|----------------------|----------------------|---------------------|--|
| 2029 | \$740 | \$1,600 | \$2,000 | \$4,100 |
| 2030 | \$760 | \$1,600 | \$2,000 | \$4,200 |
| 2031 | \$790 | \$1,600 | \$2,100 | \$4,300 |
| 2032 | \$820 | \$1,700 | \$2,100 | \$4,500 |
| 2033 | \$850 | \$1,700 | \$2,200 | \$4,600 |
| 2034 | \$880 | \$1,800 | \$2,200 | \$4,700 |
| 2035 | \$900 | \$1,800 | \$2,300 | \$4,900 |
| 2036 | \$930 | \$1,900 | \$2,400 | \$5,000 |
| 2037 | \$960 | \$1,900 | \$2,400 | \$5,100 |
| 2038 | \$990 | \$2,000 | \$2,500 | \$5,200 |
| 2039 | \$1,000 | \$2,000 | \$2,500 | \$5,400 |
| 2040 | \$1,000 | \$2,000 | \$2,600 | \$5,500 |
| 2041 | \$1,100 | \$2,100 | \$2,600 | \$5,600 |
| 2042 | \$1,100 | \$2,100 | \$2,700 | \$5,700 |
| 2043 | \$1,100 | \$2,200 | \$2,700 | \$5,800 |
| 2044 | \$1,200 | \$2,200 | \$2,800 | \$5,900 |
| 2045 | \$1,200 | \$2,300 | \$2,800 | \$6,100 |
| 2046 | \$1,200 | \$2,300 | \$2,900 | \$6,200 |
| 2047 | \$1,300 | \$2,400 | \$2,900 | \$6,300 |
| 2048 | \$1,300 | \$2,400 | \$3,000 | \$6,400 |
| 2049 | \$1,300 | \$2,500 | \$3,000 | \$6,500 |
| 2050 | \$1,300 | \$2,500 | \$3,100 | \$6,700 |

- 1 (c) Cost of Nitrous Oxide.—In developing any
- 2 rulemaking that requires a regulatory impact analysis,
- 3 making any substantial procurement decision for which
- 4 the cost of nitrous oxide is not applied before the date
- 5 on which a revised version of the costs of greenhouse gases
- 6 is finalized, the head of any Federal agency shall consider
- 7 and document the cost of nitrous oxide in accordance with
- 8 the amounts specified in the following table:

Cost of Nitrous Oxide, 2010 Through 2050 (in 2007 Dollars per Metric Ton of Nitrous Oxide), Discount Rate and Statistic

| Year | 5 Percent Average | 3 Percent Average | 2.5 Percent Average | High Impact (95th Percentile at 3 Percent Discount Rate) |
|------|----------------------|----------------------|---------------------|--|
| 2010 | \$3,400 | \$12,000 | \$18,000 | \$31,000 |
| 2011 | \$3,500 | \$12,000 | \$18,000 | \$32,000 |
| 2012 | \$3,700 | \$12,000 | \$19,000 | \$33,000 |
| 2013 | \$3,800 | \$13,000 | \$19,000 | \$34,000 |
| 2014 | \$3,900 | \$13,000 | \$20,000 | \$34,000 |
| 2015 | \$4,000 | \$13,000 | \$20,000 | \$35,000 |
| 2016 | \$4,200 | \$14,000 | \$20,000 | \$36,000 |
| 2017 | \$4,300 | \$14,000 | \$21,000 | \$37,000 |
| 2018 | \$4,400 | \$14,000 | \$21,000 | \$38,000 |
| 2019 | \$4,600 | \$15,000 | \$22,000 | \$38,000 |
| 2020 | \$4,700 | \$15,000 | \$22,000 | \$39,000 |
| 2021 | \$4,900 | \$15,000 | \$23,000 | \$40,000 |
| 2022 | \$5,000 | \$16,000 | \$23,000 | \$41,000 |
| 2023 | \$5,200 | \$16,000 | \$23,000 | \$42,000 |

Cost of Nitrous Oxide, 2010 Through 2050 (in 2007 Dollars per Metric Ton of Nitrous Oxide), Discount Rate and Statistic—Continued

| Year | 5 Percent Average | 3 Percent Average | 2.5 Percent Average | High Impact (95th Percentile at 3 Percent Discount Rate) |
|------|----------------------|----------------------|---------------------|--|
| 2024 | \$5,400 | \$16,000 | \$24,000 | \$43,000 |
| 2025 | \$5,500 | \$17,000 | \$24,000 | \$44,000 |
| 2026 | \$5,700 | \$17,000 | \$25,000 | \$45,000 |
| 2027 | \$5,900 | \$17,000 | \$25,000 | \$46,000 |
| 2028 | \$6,000 | \$18,000 | \$26,000 | \$47,000 |
| 2029 | \$6,200 | \$18,000 | \$26,000 | \$48,000 |
| 2030 | \$6,300 | \$19,000 | \$27,000 | \$49,000 |
| 2031 | \$6,500 | \$19,000 | \$27,000 | \$50,000 |
| 2032 | \$6,800 | \$19,000 | \$28,000 | \$51,000 |
| 2033 | \$7,000 | \$20,000 | \$28,000 | \$52,000 |
| 2034 | \$7,200 | \$20,000 | \$29,000 | \$54,000 |
| 2035 | \$7,400 | \$21,000 | \$29,000 | \$55,000 |
| 2036 | \$7,600 | \$21,000 | \$30,000 | \$56,000 |
| 2037 | \$7,800 | \$21,000 | \$30,000 | \$57,000 |
| 2038 | \$8,000 | \$22,000 | \$31,000 | \$58,000 |
| 2039 | \$8,200 | \$22,000 | \$31,000 | \$59,000 |
| 2040 | \$8,400 | \$23,000 | \$32,000 | \$60,000 |
| 2041 | \$8,600 | \$23,000 | \$32,000 | \$61,000 |
| 2042 | \$8,800 | \$23,000 | \$33,000 | \$62,000 |
| 2043 | \$9,100 | \$24,000 | \$33,000 | \$64,000 |
| 2044 | \$9,300 | \$24,000 | \$34,000 | \$65,000 |
| 2045 | \$9,500 | \$25,000 | \$34,000 | \$66,000 |
| 2046 | \$9,800 | \$25,000 | \$35,000 | \$67,000 |

Cost of Nitrous Oxide, 2010 Through 2050 (in 2007 Dollars per Metric Ton of Nitrous Oxide), Discount Rate and Statistic—Continued

| Year | 5 Percent Average | 3 Percent Average | 2.5 Percent Average | High Impact (95th Percentile at 3 Percent Discount Rate) |
|------|----------------------|----------------------|---------------------|--|
| 2047 | \$10,000 | \$26,000 | \$35,000 | \$68,000 |
| 2048 | \$10,000 | \$26,000 | \$36,000 | \$69,000 |
| 2049 | \$10,000 | \$26,000 | \$36,000 | \$71,000 |
| 2050 | \$11,000 | \$27,000 | \$37,000 | \$72,000 |

- 1 (d) Adjustment for Inflation.—The head of a
- 2 Federal agency may adjust the costs described in the ta-
- 3 bles contained in subsections (a) through (c) for inflation.

4 SEC. 5. INTERAGENCY WORKING GROUP ON THE COSTS OF

- 5 GREENHOUSE GASES.
- 6 (a) Establishment.—The Director of the Office of
- 7 Management and Budget, the Director of the Office of
- 8 Science and Technology Policy, and the Chair of the Coun-
- 9 cil of Economic Advisers shall establish an interagency
- 10 working group, to be known as the "Interagency Working
- 11 Group on the Costs of Greenhouse Gases" to carry out
- 12 the calculation method revision evaluation described in
- 13 section 6.
- 14 (b) Membership.—The Working Group shall consist
- 15 of members from—
- 16 (1) the Council of Economic Advisers;

| 1 | (2) the Office of Science and Technology Policy; |
|----|--|
| 2 | (3) the National Security Council; |
| 3 | (4) the National Economic Council; |
| 4 | (5) the Council on Environmental Quality; |
| 5 | (6) the Department of Agriculture; |
| 6 | (7) the Department of Commerce; |
| 7 | (8) the Department of Energy; |
| 8 | (9) the Department of the Interior; |
| 9 | (10) the Department of Transportation; |
| 10 | (11) the Department of the Treasury; |
| 11 | (12) the Department of Health and Human |
| 12 | Services; |
| 13 | (13) the Environmental Protection Agency; |
| 14 | (14) the National Oceanic and Atmospheric Ad- |
| 15 | ministration; |
| 16 | (15) the Federal Energy Regulatory Commis- |
| 17 | sion; |
| 18 | (16) the United States Global Change Research |
| 19 | Program; and |
| 20 | (17) the Corps of Engineers. |
| 21 | SEC. 6. CALCULATION METHOD REVISION. |
| 22 | (a) REVISION EVALUATION.— |
| 23 | (1) IN GENERAL.—Not later than 5 years after |
| 24 | the date of enactment of this Act, and not less fre- |
| 25 | quently than once every 5 years thereafter, the |

| 1 | Working Group shall carry out a revision evaluation |
|----|--|
| 2 | for the cost of carbon dioxide, cost of methane, and |
| 3 | cost of nitrous oxide to determine whether a revision |
| 4 | of the calculation method of the cost of carbon diox- |
| 5 | ide, cost of methane, or cost of nitrous oxide is nec- |
| 6 | essary. |
| 7 | (2) Considerations.—In carrying out a revi- |
| 8 | sion evaluation under paragraph (1) or a revision |
| 9 | under subsection (b), the Working Group shall— |
| 10 | (A) consider— |
| 11 | (i) the findings of the National Acad- |
| 12 | emies of Sciences, Engineering, and Medi- |
| 13 | cine relating to approaches to estimating |
| 14 | the costs of greenhouse gases; |
| 15 | (ii) the findings of the Committee |
| 16 | under section $7(a)(3)$; |
| 17 | (iii) advancements in scientific and |
| 18 | economic research relating to the impacts |
| 19 | of climate change and the estimation of the |
| 20 | costs of greenhouse gases; |
| 21 | (iv) new domestic and international |
| 22 | findings; |
| 23 | (v) the qualitative costs to society as |
| 24 | a result of the categories of damage de- |

| 1 | scribed in section $3(3)(A)$ that cannot be |
|----|---|
| 2 | monetized; and |
| 3 | (vi) all harm caused by greenhouse |
| 4 | gas emissions; |
| 5 | (B) assess any proposed revision of the cal- |
| 6 | culation method with respect to— |
| 7 | (i) consistency with the state of sci- |
| 8 | entific knowledge, as reflected by current, |
| 9 | peer-reviewed literature; and |
| 10 | (ii) the adequacy with which the pro- |
| 11 | posed calculation method identifies and |
| 12 | represents key uncertainties and sensitivi- |
| 13 | ties; |
| 14 | (C) evaluate the harm caused by green- |
| 15 | house gas emissions for the period beginning on |
| 16 | the date on which the applicable revision eval- |
| 17 | uation commences and ending on a date in the |
| 18 | future that would allow estimation of the vast |
| 19 | majority of discounted climate damages; |
| 20 | (D) apply 1 or more discount rates, which |
| 21 | shall— |
| 22 | (i) account for the intergenerational |
| 23 | nature of the harm caused by climate |
| 24 | change; and |

| 1 | (ii) be consistent with the interest |
|----|--|
| 2 | rate of consumption used by Federal agen- |
| 3 | cies to reflect climate risk; |
| 4 | (E) include values that account for global |
| 5 | damages from greenhouse gas emissions; |
| 6 | (F) document the calculation method and |
| 7 | present results in a manner adequate for the |
| 8 | scientific community to understand and assess |
| 9 | the calculation method; and |
| 10 | (G) make available to researchers the |
| 11 | model code for review, use, and modification. |
| 12 | (b) Revision.— |
| 13 | (1) CALCULATION METHOD.—If the Working |
| 14 | Group makes a determination under subsection |
| 15 | (a)(1) that revision of the calculation method is nec- |
| 16 | essary, the Working Group shall draft a proposed re- |
| 17 | vision of the calculation method. |
| 18 | (2) Public notification and comment pe- |
| 19 | RIOD.—Any proposed revision of the calculation |
| 20 | method shall be published in the Federal Register |
| 21 | for a period of public comment of not fewer than 90 |
| 22 | days and include consultation with industry groups. |
| 23 | (3) Effect of revisions by working |
| 24 | GROUP.—Any revised calculation method of the cost |
| 25 | of carbon dioxide, the cost of methane, or the cost |

| 1 | of nitrous oxide developed by the Working Group |
|----|--|
| 2 | under paragraph (1) and published under paragraph |
| 3 | (2) shall supersede the applicable discount rate value |
| 4 | of the cost of carbon dioxide, the cost of methane |
| 5 | or the cost of nitrous oxide under section 4. |
| 6 | SEC. 7. COSTS OF GREENHOUSE GASES SCIENTIFIC RE |
| 7 | VIEW COMMITTEE. |
| 8 | (a) Establishment.— |
| 9 | (1) In general.—Not later than January 1 |
| 10 | 2021, and not less frequently than once every 5 |
| 11 | years thereafter, the Director of the Office of Man- |
| 12 | agement and Budget, in consultation with the Direc- |
| 13 | tor of the Office of Science and Technology Policy |
| 14 | and the Chair of the Council of Economic Advisers |
| 15 | shall establish a committee, to be known as the |
| 16 | "Costs of Greenhouse Gases Scientific Review Com- |
| 17 | mittee". |
| 18 | (2) Membership.—The membership of the |
| 19 | Committee shall consist of not fewer than 10 mem- |
| 20 | bers, selected by the presidents of the National |
| 21 | Academies of Sciences, Engineering, and Medicine |
| 22 | who shall represent scientific fields relevant to the |
| 23 | estimation of the costs of greenhouse gases, includ- |
| 24 | ing— |
| 25 | (A) climate science; |

| 1 | (B) climate economics; and |
|----|---|
| 2 | (C) decision analysis. |
| 3 | (3) Duties.—The Committee shall publish a |
| 4 | report in which the Committee shall— |
| 5 | (A) make a recommendation to the Work- |
| 6 | ing Group regarding whether a revision of the |
| 7 | calculation method is necessary; |
| 8 | (B) if the Committee determines that a re- |
| 9 | vision is necessary, recommend scientific data |
| 10 | and models to be used by the Working Group |
| 11 | in the revision of the calculation method; |
| 12 | (C) provide scientific advice to the Work- |
| 13 | ing Group on the revision; and |
| 14 | (D) provide guidance to the U.S. Global |
| 15 | Change Research Program with respect to the |
| 16 | research necessary to advance the estimation of |
| 17 | the costs of greenhouse gases. |
| 18 | (b) TERMINATION.—On the completion of the revi- |
| 19 | sion evaluation for which the Committee is established, the |
| 20 | Committee shall terminate. |
| 21 | (c) Authorization of Appropriations.—There |
| 22 | are authorized to be appropriated such sums as are nec- |
| 23 | essary to administer the Committee. |