|     | TH CONGRESS 1ST SESSION  S.   |
|-----|---|
| То  | amend the Securities Exchange Act of 1934 to require issuers to disclose certain activities relating to climate change, and for other purposes.         |
|     | IN THE SENATE OF THE UNITED STATES  |
| Ms. | Warren introduced the following bill; which was read twice and referred to the Committee on   |
| То  | A BILL  amend the Securities Exchange Act of 1934 to require issuers to disclose certain activities relating to climate change, 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 "Climate Risk Disclo-  |
| 5   | sure Act of 2019".  |
| 6   | SEC. 2. DEFINITIONS.  |
| 7   | In this Act—  |
| 8   | (1) the terms "appropriate climate principals",   |

"climate change", "covered issuer", "physical risks",

and "transition risks" have the meanings given

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| 1  | those terms in subsection (s) of section 13 of the Se- |
|----|--|
| 2  | curities Exchange Act of 1934 (15 U.S.C. 78m), as      |
| 3  | added by section 5;                                    |
| 4  | (2) the term "appropriate congressional com-           |
| 5  | mittees" means—  |
| 6  | (A) the Committee on Banking, Housing,                 |
| 7  | and Urban Affairs of the Senate; and                   |
| 8  | (B) the Committee on Financial Services                |
| 9  | of the House of Representatives;                       |
| 10 | (3) the term "baseline scenario" means a wide-         |
| 11 | ly-recognized analysis scenario in which levels of     |
| 12 | greenhouse gas emissions, as of the date on which      |
| 13 | the analysis is performed, continue to grow, result-   |
| 14 | ing in—  |
| 15 | (A) an increase in the global average tem-             |
| 16 | perature of 1.5 degrees Celsius or more above          |
| 17 | pre-industrial levels; and                             |
| 18 | (B) the realization of physical risks relat-           |
| 19 | ing to global climate change;                          |
| 20 | (4) the term "carbon dioxide equivalent" means         |
| 21 | the number of metric tons of carbon dioxide emis-      |
| 22 | sions with the same global warming potential as 1      |
| 23 | metric ton of another greenhouse gas, as determined    |
| 24 | under table A-1 of subpart A of part 98 of title 40,   |
|    |  |

| 1  | Code of Federal Regulations, as in effect on the date |
|----|---|
| 2  | of enactment of this Act;                             |
| 3  | (5) the term "commercial development of fossi         |
| 4  | fuels" includes—                                      |
| 5  | (A) exploration, extraction, processing, ex-          |
| 6  | porting, transporting, and any other significant      |
| 7  | action with respect to oil, natural gas, coal, or     |
| 8  | any byproduct thereof; and                            |
| 9  | (B) acquiring a license for any activity de-          |
| 10 | scribed in subparagraph (A);                          |
| 11 | (6) the term "Commission" means the Securi-           |
| 12 | ties and Exchange Commission;                         |
| 13 | (7) the term "direct and indirect greenhouse          |
| 14 | gas emissions" includes, with respect to a covered    |
| 15 | issuer—   |
| 16 | (A) all direct greenhouse gas emissions re-           |
| 17 | leased by the covered issuer;                         |
| 18 | (B) all indirect greenhouse gas emissions             |
| 19 | with respect to electricity, heat, or steam pur-      |
| 20 | chased by the covered issuer;                         |
| 21 | (C) significant indirect emissions, other             |
| 22 | than the emissions described in subparagraph          |
| 23 | (B), that occur in the value chain of the covered     |
| 24 | issuer; and   |

| 1  | (D) all indirect greenhouse gas emissions             |
|----|---|
| 2  | that are attributable to assets owned or man-         |
| 3  | aged, including assets that are partially owned       |
| 4  | or managed, by the covered issuer;                    |
| 5  | (8) the term "fossil fuel reserves" means all         |
| 6  | producing assets, proved reserves, unproved re-       |
| 7  | sources, and any other ownership stake in sources of  |
| 8  | fossil fuels;   |
| 9  | (9) the term "greenhouse gas"—                        |
| 10 | (A) means carbon dioxide                              |
| 11 | hydrofluorocarbons, methane, nitrous oxide            |
| 12 | perfluorocarbons, sulfur hexafluoride, nitrogen       |
| 13 | triflouride, and chlorofluorocarbons; and             |
| 14 | (B) includes any other anthropogenically-             |
| 15 | emitted gas or particulate that the Adminis-          |
| 16 | trator of the Environmental Protection Agency         |
| 17 | determines, after notice and comment, to con-         |
| 18 | tribute to climate change;                            |
| 19 | (10) the term "greenhouse gas emissions"              |
| 20 | means the emissions of greenhouse gas, expressed in   |
| 21 | terms of metric tons of carbon dioxide equivalent;    |
| 22 | (11) the term "social cost of carbon" means the       |
| 23 | monetized present value, discounted at a 3 percent    |
| 24 | or lower discount rate, in dollars, per metric ton of |
| 25 | carbon dioxide (or carbon dioxide equivalent), of the |
|    |   |

| 1  | net global costs over 300 years caused by the emis-   |
|----|---|
| 2  | sion of carbon dioxide (or carbon dioxide equivalent, |
| 3  | as applicable) that result from—                      |
| 4  | (A) changes in net agricultural produc-               |
| 5  | tivity;   |
| 6  | (B) decreases in capital and labor produc-            |
| 7  | tivity;   |
| 8  | (C) effects on human health;                          |
| 9  | (D) property damage from increased sea                |
| 10 | level rise, flooding, wildfires, and frequency and    |
| 11 | severity of extreme weather events;                   |
| 12 | (E) the value of ecosystem services; and              |
| 13 | (F) any other type of economic, social, po-           |
| 14 | litical, or natural disruption;                       |
| 15 | (12) the term "value chain"—                          |
| 16 | (A) means the total lifecycle of a product            |
| 17 | or service, both before and after production of       |
| 18 | the product or service, as applicable; and            |
| 19 | (B) may include the sourcing of materials,            |
| 20 | production, and disposal with respect to the          |
| 21 | product or service described in subparagraph          |
| 22 | (A);  |
| 23 | (13) the term "well below 1.5 degrees scenario"       |
| 24 | means a widely-recognized, publicly-available anal-   |
| 25 | ysis scenario in which human interventions to com-    |

| 1  | bat global climate change are likely to prevent the   |
|----|---|
| 2  | global average temperature from reaching 1.5 de-      |
| 3  | grees Celsius above pre-industrial levels; and        |
| 4  | (14) the term "1.5 degree scenario" means $\epsilon$  |
| 5  | widely recognized, publicly available analysis sce-   |
| 6  | nario in which human interventions to combat global   |
| 7  | climate change are likely to prevent the global aver- |
| 8  | age temperature from reaching 1.5 degrees Celsius     |
| 9  | above pre-industrial levels.                          |
| 10 | SEC. 3. SENSE OF CONGRESS.                            |
| 11 | It is the sense of Congress that—                     |
| 12 | (1) climate change poses a significant and in-        |
| 13 | creasing threat to the growth and stability of the    |
| 14 | economy of the United States;                         |
| 15 | (2) many sectors of the economy of the United         |
| 16 | States and many businesses in the United States are   |
| 17 | exposed to multiple channels of climate-related risk  |
| 18 | which may include exposure to—                        |
| 19 | (A) the physical impacts of climate change            |
| 20 | including the rise of the average global tem-         |
| 21 | perature, accelerating sea-level rise                 |
| 22 | desertification, ocean acidification, intensifica-    |
| 23 | tion of storms, increase in heavy precipitation       |
| 24 | more frequent and intense temperature ex-             |

| 1  | tremes, more severe droughts, and longer wild-         |
|----|--|
| 2  | fire seasons;  |
| 3  | (B) the economic disruptions and security              |
| 4  | threats that result from the physical impacts          |
| 5  | described in subparagraph (A), including con-          |
| 6  | flicts over scarce resources, conditions condu-        |
| 7  | cive to violent extremism, the spread of infec-        |
| 8  | tious diseases, and forced migration; and              |
| 9  | (C) the transition impacts that result as              |
| 10 | the global economy transitions to a clean and          |
| 11 | renewable energy, low-emissions economy, in-           |
| 12 | cluding financial impacts as fossil fuel assets        |
| 13 | risk becoming stranded and it becomes uneco-           |
| 14 | nomic for companies to develop fossil fuel assets      |
| 15 | as policymakers act to limit the worst impacts         |
| 16 | of climate change by keeping the rise in average       |
| 17 | global temperature to 1.5 degrees Celsius above        |
| 18 | pre-industrial levels;                                 |
| 19 | (3) assessing the potential impact of climate-re-      |
| 20 | lated risks on national and international financial    |
| 21 | systems is an urgent concern;                          |
| 22 | (4) companies have a duty to disclose financial        |
| 23 | risks that climate change presents to their investors, |
| 24 | lenders, and insurers;                                 |

| 1  | (5) the Commission has a duty to promote a            |
|----|---|
| 2  | risk-informed securities market that is worthy of the |
| 3  | trust of the public as families invest for their fu-  |
| 4  | tures;  |
| 5  | (6) investors, lenders, and insurers are increas-     |
| 6  | ingly demanding climate risk information that is      |
| 7  | consistent, comparable, reliable, and clear;          |
| 8  | (7) including standardized, material climate          |
| 9  | change risk and opportunity disclosure that is useful |
| 10 | for decision makers in annual reports to the Com-     |
| 11 | mission will increase transparency with respect to    |
| 12 | risk accumulation and exposure in financial markets   |
| 13 | (8) requiring companies to disclose climate-re-       |
| 14 | lated risk exposure and risk management strategies    |
| 15 | will encourage a smoother transition to a clean and   |
| 16 | renewable energy, low-emissions economy and guide     |
| 17 | capital allocation to mitigate, and adapt to, the ef- |
| 18 | fects of climate change and limit damages associated  |
| 19 | with climate-related events and disasters; and        |
| 20 | (9) a critical component in fighting climate          |
| 21 | change is a transparent accounting of the risks that  |
| 22 | climate change presents and the implications of con-  |
| 23 | tinued inaction with respect to climate change.       |
| 24 | SEC. 4. FINDINGS.                                     |
| 25 | Congress finds that—                                  |

| 1  | (1) short-, medium-, and long-term financial          |
|----|---|
| 2  | and economic risks and opportunities relating to cli- |
| 3  | mate change, and the national and global reduction    |
| 4  | of greenhouse gas emissions, constitute information   |
| 5  | that issuers—   |
| 6  | (A) may reasonably expect to affect share-            |
| 7  | holder decision making; and                           |
| 8  | (B) should regularly identify, evaluate, and          |
| 9  | disclose; and   |
| 10 | (2) the disclosure of information described in        |
| 11 | paragraph (1) should—                                 |
| 12 | (A) identify, and evaluate—                           |
| 13 | (i) material physical and transition                  |
| 14 | risks posed by climate change; and                    |
| 15 | (ii) the potential financial impact of                |
| 16 | risks described in clause (i);                        |
| 17 | (B) detail any implications that the risks            |
| 18 | described in subparagraph (A)(i) have on cor-         |
| 19 | porate strategy;                                      |
| 20 | (C) detail any board-level oversight of ma-           |
| 21 | terial climate-related risks and opportunities;       |
| 22 | (D) allow for intra- and cross-industry               |
| 23 | comparison, to the extent practicable, of cli-        |
| 24 | mate-related risk exposure through the inclu-         |
| 25 | sion of standardized industry-specific and sec-       |
|    |   |

| 1  | tor-specific disclosure metrics, as identified by                 |
|----|---|
| 2  | the Commission, in consultation with the appro-                   |
| 3  | priate climate principals;  |
| 4  | (E) allow for tracking of performance over                        |
| 5  | time with respect to mitigating climate risk ex-                  |
| 6  | posure; and   |
| 7  | (F) incorporate a price on greenhouse gas                         |
| 8  | emissions in financial analyses that reflects, at                 |
| 9  | minimum, the social cost of carbon that is at-                    |
| 10 | tributable to issuers.  |
| 11 | SEC. 5. DISCLOSURES RELATING TO CLIMATE CHANGE.                   |
| 12 | (a) In General.—Section 13 of the Securities Ex-                  |
| 13 | change Act of 1934 (15 U.S.C. $78\mathrm{m}$ ) is amended by add- |
| 14 | ing at the end the following:                                     |
| 15 | "(s) Disclosures Relating to Climate                              |
| 16 | Change.—  |
| 17 | "(1) Definitions.—In this subsection—                             |
| 18 | "(A) the term 'appropriate climate prin-                          |
| 19 | cipals' means—  |
| 20 | "(i) the Administrator of the Environ-                            |
| 21 | mental Protection Agency;   |
| 22 | "(ii) the Secretary of Energy;                                    |
| 23 | "(iii) the Administrator of the Na-                               |
| 24 | tional Oceanic and Atmospheric Adminis-                           |
| 25 | tration;  |

| 1  | "(iv) the Director of the Office of               |
|----|---|
| 2  | Management and Budget; and                        |
| 3  | "(v) the head of any other Federal                |
| 4  | agency determined appropriate by the              |
| 5  | Commission;                                       |
| 6  | "(B) the term 'climate change' means a            |
| 7  | change of climate that is—                        |
| 8  | "(i) attributed directly or indirectly to         |
| 9  | human activity that alters the composition        |
| 10 | of the global atmosphere; and                     |
| 11 | "(ii) in addition to natural climate              |
| 12 | variability observed over comparable time         |
| 13 | periods;  |
| 14 | "(C) the term 'covered issuer' means an           |
| 15 | issuer that is required to file an annual report  |
| 16 | under subsection (a) or section 15(d);            |
| 17 | "(D) the term 'physical risks' means finan-       |
| 18 | cial risks to long-lived fixed assets, locations, |
| 19 | operations, or value chains that result from ex-  |
| 20 | posure to physical climate-related effects, in-   |
| 21 | cluding—  |
| 22 | "(i) increased average global tempera-            |
| 23 | tures and increased frequency of tempera-         |
| 24 | ture extremes;                                    |

| 1  | "(ii) increased severity and frequency          |
|----|---|
| 2  | of extreme weather events;                      |
| 3  | "(iii) increased flooding;                      |
| 4  | "(iv) sea level rise;                           |
| 5  | "(v) ocean acidification;                       |
| 6  | "(vi) increased frequency of wildfires;         |
| 7  | "(vii) decreased arability of farmland;         |
| 8  | "(viii) decreased availability of fresh         |
| 9  | water; and                                      |
| 10 | "(ix) any other financial risks to long-        |
| 11 | lived fixed assets, locations, operations, or   |
| 12 | value chains determined appropriate by the      |
| 13 | Commission, in consultation with appro-         |
| 14 | priate climate principals;                      |
| 15 | "(E) the term 'transition risks' means fi-      |
| 16 | nancial risks that are attributable to climate  |
| 17 | change mitigation and adaptation, including ef- |
| 18 | forts to reduce greenhouse gas emissions and    |
| 19 | strengthen resilience to the impacts of climate |
| 20 | change, including—                              |
| 21 | "(i) costs relating to—                         |
| 22 | "(I) international treaties and                 |
| 23 | agreements;                                     |
| 24 | "(II) Federal, State, and local                 |
| 25 | policy;   |

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| 1  | "(III) new technologies;                             |
|----|--|
| 2  | "(IV) changing markets;                              |
| 3  | "(V) reputational impacts rel-                       |
| 4  | evant to changing consumer behavior;                 |
| 5  | and  |
| 6  | "(VI) litigation; and                                |
| 7  | "(ii) assets that may lose value or be-              |
| 8  | come stranded due to any of the costs de-            |
| 9  | scribed in subclauses (I) through (VI) of            |
| 10 | clause (i);  |
| 11 | "(2) DISCLOSURE.—Each covered issuer, in any         |
| 12 | annual report filed by the covered issuer under sub- |
| 13 | section (a) or section 15(d), shall, in accordance   |
| 14 | with any rules issued by the Commission pursuant     |
| 15 | to the Climate Risk Disclosure Act of 2019, include  |
| 16 | in each such report information regarding—           |
| 17 | "(A) the identification of, the evaluation of        |
| 18 | potential financial impacts of, and any risk         |
| 19 | management strategies relating to—                   |
| 20 | "(i) physical risks posed to the cov-                |
| 21 | ered issuer by climate change; and                   |
| 22 | "(ii) transition risks posed to the cov-             |
| 23 | ered issuer by climate change;                       |
| 24 | "(B) a description of any established cor-           |
| 25 | porate governance processes and structures to        |

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| 1  | identify, assess, and manage climate-related                  |
|----|---|
| 2  | risks;  |
| 3  | "(C) a description of specific actions that                   |
| 4  | the covered issuer is taking to mitigate identi-              |
| 5  | fied risks;   |
| 6  | "(D) a description of the resilience of the                   |
| 7  | strategy of the covered issuer for addressing cli-            |
| 8  | mate risks, taking into account different cli-                |
| 9  | mate scenarios; and   |
| 10 | "(E) a description of how climate risk is                     |
| 11 | incorporated into the overall risk management                 |
| 12 | strategy of the covered issuer.                               |
| 13 | "(3) Rule of construction.—Nothing in                         |
| 14 | paragraph (2) may be construed as precluding a cov-           |
| 15 | ered issuer from including, in an annual report sub-          |
| 16 | mitted under subsection (a) or section 15(d), any in-         |
| 17 | formation not explicitly referenced in that para-             |
| 18 | graph.".  |
| 19 | SEC. 6. RULEMAKING.   |
| 20 | (a) CLIMATE RISK DISCLOSURE RULES.—Not later                  |
| 21 | than 2 years after the date of enactment of this Act, the     |
| 22 | Commission, in consultation with the appropriate climate      |
| 23 | principals, shall issue rules with respect to the information |
| 24 | that a covered issuer is required to disclose pursuant to     |
| 25 | subsection (s) of section 13 of the Securities Exchange       |

| 1  | Act of 1934 (15 U.S.C. 78m), as added by section 5,     |
|----|---|
| 2  | which shall—  |
| 3  | (1) establish, in consultation with the appro-          |
| 4  | priate climate principals, climate-related risk disclo- |
| 5  | sure guidance, which shall—                             |
| 6  | (A) be, to the extent practicable, special-             |
| 7  | ized for industries within specific sectors of the      |
| 8  | economy, which shall include—                           |
| 9  | (i) the sectors of finance, insurance,                  |
| 10 | transportation, electric power, mining, and             |
| 11 | non-renewable energy; and                               |
| 12 | (ii) any other sector determined ap-                    |
| 13 | propriate by the Commission, in consulta-               |
| 14 | tion with the appropriate climate prin-                 |
| 15 | cipals;   |
| 16 | (B) include reporting standards for esti-               |
| 17 | mating and disclosing direct and indirect green-        |
| 18 | house gas emissions by a covered issuer, and            |
| 19 | any affiliates of the covered issuer, which             |
| 20 | shall—  |
| 21 | (i) separate, to the extent practicable,                |
| 22 | the total emissions of each specified green-            |
| 23 | house gas by the covered issuer; and                    |
|    |   |

| 1  | (ii) include greenhouse gas emissions        |
|----|--|
| 2  | by the covered issuer during the period      |
| 3  | covered by the disclosure;                   |
| 4  | (C) include reporting standards for dis-     |
| 5  | closing, with respect to a covered issuer—   |
| 6  | (i) the total amount of fossil fuel-re-      |
| 7  | lated assets owned or managed by the cov-    |
| 8  | ered issuer; and                             |
| 9  | (ii) the percentage of fossil fuel-re-       |
| 10 | lated assets as a percentage of total assets |
| 11 | owned or managed by the covered issuer;      |
| 12 | (D) establish a minimum social cost of car-  |
| 13 | bon, which—                                  |
| 14 | (i) shall be considered a minimum            |
| 15 | price with respect to costs associated with  |
| 16 | carbon emissions;                            |
| 17 | (ii) a covered issuer shall use in pre-      |
| 18 | paring climate-related disclosure state-     |
| 19 | ments; and                                   |
| 20 | (iii) the Commission shall make pub-         |
| 21 | licly available, including all assumptions   |
| 22 | and methods used in the calculations;        |
| 23 | (E) not preclude a covered issuer from       |
| 24 | using and disclosing, as compared with the   |

| 1  | price established under subparagraph (D), a        |
|----|--|
| 2  | higher price of greenhouse gas emissions;          |
| 3  | (F) specify requirements for, and the dis-         |
| 4  | closure of, input parameters, assumptions, and     |
| 5  | analytical choices to be used in climate scenario  |
| 6  | analyses required under paragraph (2)(A), in-      |
| 7  | cluding—   |
| 8  | (i) present value discount rates;                  |
| 9  | (ii) time frames to consider, including            |
| 10 | 5, 10, and 20-year time frames; and                |
| 11 | (iii) the minimum pricing of green-                |
| 12 | house gas emissions, as established under          |
| 13 | subparagraph (D) and subject to subpara-           |
| 14 | graph (E); and                                     |
| 15 | (G) include, after consultation with the           |
| 16 | Administrator of the Environmental Protection      |
| 17 | Agency, the Secretary of Energy, the Secretary     |
| 18 | of the Interior, the Secretary of Agriculture, the |
| 19 | Secretary of Transportation, the Chair of the      |
| 20 | Council on Environmental Quality, and the Di-      |
| 21 | rector of the Office of Science and Technology     |
| 22 | Policy documentation standards and guidance        |
| 23 | with respect to the information required under     |
| 24 | paragraph (2)(C);                                  |

| 1  | (2) require that a covered issuer, with respect       |
|----|---|
| 2  | to a disclosure required under subsection (s) of sec- |
| 3  | tion 13 of the Securities Exchange Act of 1934 (15    |
| 4  | U.S.C. 78m), as added by section 5—                   |
| 5  | (A) incorporate into the disclosure—                  |
| 6  | (i) quantitative analysis to support                  |
| 7  | any qualitative statement made by the cov-            |
| 8  | ered issuer;  |
| 9  | (ii) the guidance established under                   |
| 10 | paragraph (1);  |
| 11 | (iii) industry-specific metrics that                  |
| 12 | comply with the requirements under para-              |
| 13 | graph (1)(A);   |
| 14 | (iv) specific risk management actions                 |
| 15 | that the covered issuer is taking to address          |
| 16 | identified risks;                                     |
| 17 | (v) a discussion of the short-, me-                   |
| 18 | dium-, and long-term resilience of any risk           |
| 19 | management strategy, and the evolution of             |
| 20 | applicable risk metrics, of the covered               |
| 21 | issuer under each scenario described in               |
| 22 | paragraph (1)(B);                                     |
| 23 | (vi) the total cost of carbon attrib-                 |
| 24 | utable to the direct and indirect green-              |
| 25 | house gas emissions of the covered issuer,            |

| 1  | using, at minimum, the social cost of car-     |
|----|--|
| 2  | bon; and                                       |
| 3  | (vii) any other information, or use any        |
| 4  | climate-related or greenhouse gas emis-        |
| 5  | sions metric, that the Commission, in con-     |
| 6  | sultation with the appropriate climate prin-   |
| 7  | cipals, determines is—                         |
| 8  | (viii) necessary;                              |
| 9  | (ix) appropriate to safeguard the pub-         |
| 10 | lic interest; or                               |
| 11 | (x) directed at ensuring that investors        |
| 12 | are informed in accordance with the find-      |
| 13 | ings described in section 4;                   |
| 14 | (B) consider, when preparing any quali-        |
| 15 | tative or quantitative risk analysis statement |
| 16 | contained in the disclosure—                   |
| 17 | (i) a baseline scenario that includes          |
| 18 | physical impacts of climate change;            |
| 19 | (ii) a well below 1.5 degrees scenario;        |
| 20 | and  |
| 21 | (iii) any additional climate analysis          |
| 22 | scenario considered appropriate by the         |
| 23 | Commission, in consultation with the ap-       |
| 24 | propriate climate principals; and              |

| 1  | (C) if the covered issuer engages in the        |
|----|---|
| 2  | commercial development of fossil fuels, include |
| 3  | in the disclosure—                              |
| 4  | (i) an estimate of the total and a              |
| 5  | disaggregated amount of direct and indi-        |
| 6  | rect greenhouse gas emissions of the cov-       |
| 7  | ered issuer that are attributable to—           |
| 8  | (I) combustion;                                 |
| 9  | (II) flared hydrocarbons;                       |
| 10 | (III) process emissions;                        |
| 11 | (IV) directly vented emissions;                 |
| 12 | (V) fugitive emissions or leaks;                |
| 13 | and   |
| 14 | (VI) land use changes;                          |
| 15 | (ii) a description of—                          |
| 16 | (I) the sensitivity of fossil fuel re-          |
| 17 | serves levels to future price projection        |
| 18 | scenarios that incorporate the social           |
| 19 | cost of carbon into hydrocarbon pric-           |
| 20 | ing;  |
| 21 | (II) the percentage of the re-                  |
| 22 | serves of the covered issuer that will          |
| 23 | be developed under the scenarios es-            |
| 24 | tablished in subparagraph (B), as well          |
| 25 | as a forecast for the development               |

| 1  | prospects of each reserve under the     |
|----|---|
| 2  | scenarios established in subparagraph   |
| 3  | (B);                                    |
| 4  | (III) the potential amount of di-       |
| 5  | rect and indirect greenhouse gas emis-  |
| 6  | sions that are embedded in proved       |
| 7  | and probable hydrocarbon reserves,      |
| 8  | with each such calculation presented    |
| 9  | as a total and in subdivided categories |
| 10 | by the type of reserve;                 |
| 11 | (IV) the methodology of the cov-        |
| 12 | ered issuer for detecting and miti-     |
| 13 | gating fugitive methane emissions,      |
| 14 | which shall include—                    |
| 15 | (aa) the frequency with                 |
| 16 | which applicable assets of the          |
| 17 | covered issuer are observed for         |
| 18 | methane leaks;                          |
| 19 | (bb) the processes and tech-            |
| 20 | nology that the covered issuer          |
| 21 | uses to detect methane leaks;           |
| 22 | (cc) the percentage of assets           |
| 23 | of the covered issuer that the          |
| 24 | covered issuer inspects under           |
| 25 | that methodology; and                   |

| 1  | (dd) quantitative and time-               |
|----|---|
| 2  | bound reduction goals of the cov-         |
| 3  | ered issuer with respect to meth-         |
| 4  | ane leaks;                                |
| 5  | (V) the amount of water that the          |
| 6  | covered issuer withdraws from fresh-      |
| 7  | water sources for use and consump-        |
| 8  | tion in operations of the covered         |
| 9  | issuer; and                               |
| 10 | (VI) the percentage of the water          |
| 11 | described in subclause (V) that comes     |
| 12 | from regions of water stress or that      |
| 13 | face wastewater management chal-          |
| 14 | lenges; and                               |
| 15 | (iii) any other information that the      |
| 16 | Commission, in consultation with the ap-  |
| 17 | propriate climate principals and the Ad-  |
| 18 | ministrator of the Environmental Protec-  |
| 19 | tion Agency, the Secretary of Energy, the |
| 20 | Secretary of the Interior, and the Sec-   |
| 21 | retary of Agriculture determines is—      |
| 22 | (I) necessary;                            |
| 23 | (II) appropriate to safeguard the         |
| 24 | public interest; or                       |

| 1  | (III) directed at ensuring that in-                          |
|----|--|
| 2  | vestors are informed in accordance                           |
| 3  | with the findings described in section                       |
| 4  | 4; and   |
| 5  | (3) establish how and where the required disclo-             |
| 6  | sures shall be addressed in the annual financial fil-        |
| 7  | ing of a covered issuer.                                     |
| 8  | (b) FORMATTING.—The Commission shall—                        |
| 9  | (1) require covered issuers to disclose informa-             |
| 10 | tion in an interactive data format; and                      |
| 11 | (2) develop standards for the format described               |
| 12 | in paragraph (1), which shall include electronic tags        |
| 13 | for information that the Commission determines is—           |
| 14 | (A) necessary;   |
| 15 | (B) appropriate to safeguard the public in-                  |
| 16 | terest; or   |
| 17 | (C) directed at ensuring that investors are                  |
| 18 | informed in accordance with the findings de-                 |
| 19 | scribed in section 4.  |
| 20 | (c) Periodic Update of Rules.—The Commission                 |
| 21 | shall periodically update the rules issued under this sec-   |
| 22 | tion to ensure that the rules further the findings described |
| 23 | in section $4(2)$ .  |
|    |  |

| 1 | SEC 7 | COMPILATION OF INFORMATION DISCLOSED | ` |
|---|-------|--------------------------------------|---|
|   | SH. 1 | COMPLIATION OF INFORMATION DISCLOSE. |   |

- 2 The Commission shall, to the maximum extent prac-
- 3 ticable—
- 4 (1) make a compilation of the information dis-
- 5 closed by issuers pursuant to subsection (s) of sec-
- 6 tion 13 of the Securities Exchange Act of 1934 (15
- 7 U.S.C. 78m), as added by section 5, publicly avail-
- 8 able on the website of the Commission; and
- 9 (2) update the compilation described in para-
- graph (1) not less frequently than once each year.
- 11 SEC. 8. BACKSTOP.
- 12 If, 2 years after the date of enactment of this Act,
- 13 the Commission has not issued rules pursuant to section
- 14 6, and until those rules are issued, a covered issuer shall
- 15 be deemed in compliance with subsection (s) of section 13
- 16 of the Securities Exchange Act of 1934 (15 U.S.C. 78m),
- 17 as added by section 5, if disclosures set forth in the annual
- 18 report of the covered issuer satisfy the recommendations
- 19 of the Task Force on Climate-related Financial Disclo-
- 20 sures of the Financial Stability Board as reported in June
- 21 2017, or any successor report, and as supplemented or ad-
- 22 justed by such rules, guidance, or other comments from
- 23 the Commission.
- 24 SEC. 9. REPORTS.
- 25 (a) SECURITIES AND EXCHANGE COMMISSION.—The
- 26 Commission shall—

| 1  | (1) conduct an annual assessment regarding the                |
|----|---|
| 2  | compliance of covered issuers with the requirements           |
| 3  | of subsection (s) of section 13 of the Securities Ex-         |
| 4  | change Act of 1934 (15 U.S.C. 78m), as added by               |
| 5  | section 5;  |
| 6  | (2) submit to the appropriate congressional                   |
| 7  | committees a report that contains the results of each         |
| 8  | assessment conducted under paragraph (1); and                 |
| 9  | (3) make each report submitted under para-                    |
| 10 | graph (2) accessible to the public.                           |
| 11 | (b) GOVERNMENT ACCOUNTABILITY OFFICE.—The                     |
| 12 | Comptroller General of the United States shall periodically   |
| 13 | evaluate, and report to the appropriate congressional com-    |
| 14 | mittees on, the effectiveness of the Commission in carrying   |
| 15 | out and enforcing subsection (s) of section 13 of the Secu-   |
| 16 | rities Exchange Act of 1934 (15 U.S.C. 78m), as added         |
| 17 | by section 5.   |
| 18 | SEC. 10. SEVERABILITY.  |
| 19 | If any provision of this Act, an amendment made by            |
| 20 | this Act, or the application of this Act (or an amendment     |
| 21 | made by this Act) to any person or circumstance is held       |
| 22 | to be invalid, that holding shall have no effect with respect |
| 23 | to—   |
| 24 | (1) the remainder of this Act; and                            |

| 1 | (2) the application of the provision or amend-   |
|---|--|
| 2 | ment, as applicable, to any other person or cir- |

3 cumstance.

## 4 SEC. 11. AUTHORIZATION OF APPROPRIATIONS.

- 5 There are authorized to be appropriated to the Com-
- 6 mission such sums as may be necessary to carry out this
- 7 Act.