

Welcome to the  
Climate &  
Resilience  
(EX) Task  
Force:  
Climate  
Disclosure  
Workstream<sub>3</sub>

OUR MEETING WILL BEGIN SHORTLY

NAIC Confidential

- ✓ All audio will be muted upon entry
- ✓ Prior to speaking, unmute both **Webex** and your **cell phone**
- ✓ If you have joined by phone, to mute and unmute your line, press\*6
- ✓ Enter with video on or off (your choice)
- ✓ Use the “Chat” feature for questions, comments or assistance from moderators
- ✓ For any technical challenges please contact the NAIC Technical Support Team at [MeetingTechHelp@naic.org](mailto:MeetingTechHelp@naic.org) or 866-874-4905
- ✓ The meeting is being recorded
- ✓ Task Force members, please post in Chat that you are present

Date: 5/11/21

*Virtual Meeting*

**CLIMATE AND RESILIENCY (EX) TASK FORCE  
CLIMATE RISK DISCLOSURE WORKSTREAM**

**Wednesday, May 12, 2021**

**2:00 – 3:15 p.m. ET / 1:00 – 2:15 p.m. CT / 12:00 – 1:15 p.m. MT / 11:00 a.m. – 12:15 p.m. PT**

**ROLL CALL**

Andrew R. Stolfi, Vice Chair	Oregon	Yue (Nina) Chen	New York
Mike Peterson	California	Elizabeth Kelleher Dwyer	Rhode Island
George Bradner	Connecticut	David Combs	Tennessee
Peter Brickwedde	Minnesota	Mike Kreidler	Washington

NAIC Support Staff: Anne Obersteadt/Jennifer Gardner

**AGENDA**

1. Hear a Presentation from NAIC Consumer Representatives on Climate Disclosures Attachments A-B  
—*Birny Birnbaum (Center for Economic Justice—CEJ)*  
—*David Arkush (Public Citizen)*
2. Discuss Suggestions Received on *Questions to Determine Objectives of NAIC Climate Disclosures* Attachment C  
—*Commissioner Andrew R. Stolfi (OR)*
3. Discuss Administering the *Questions to Determine Objectives of NAIC Climate Disclosures*  
—*Commissioner Andrew R. Stolfi (OR)*
4. Discuss Any Other Matters—*Commissioner Andrew R. Stolfi (OR)*

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# Hear a Presentation from NAIC Consumer Representatives on Climate Disclosures

- Birny Birnbaum (CEJ)*
- David Arkush (Public Citizen)*



**Improving the NAIC's Insurer Climate Risk Disclosure  
NAIC Climate Risk and Resiliency Task Force**

**May 12, 2021**

Birny Birnbaum  
Center for Economic Justice

# The Center for Economic Justice

CEJ is a non-profit consumer advocacy organization dedicated to representing the interests of low-income and minority consumers as a class on economic justice issues. Most of our work is before administrative agencies on insurance, financial services and utility issues.

On the Web: [www.cej-online.org](http://www.cej-online.org)

# About Birny Birnbaum

Birny Birnbaum is the Director of the Center for Economic Justice, a non-profit organization whose mission is to advocate on behalf of low-income consumers on issues of availability, affordability, accessibility of basic goods and services, such as utilities, credit and insurance.

Birny, an economist and former insurance regulator, has worked on climate-related issues at the NAIC from the first discussions of the Climate Risk Disclosure. Since 1991, he has worked to improve the role of insurance in promoting loss mitigation and resiliency for individuals, businesses and communities.

He has served for many years as a designated Consumer Representative at the National Association of Insurance Commissioners and is a member of the U.S. Department of Treasury's Federal Advisory Committee on Insurance, where he co-chairs the subcommittee on insurance availability. Birny is also a member of the U.S. Federal Reserve Board's Insurance Policy Advisory Committee.

Birny served as Associate Commissioner for Policy and Research and the Chief Economist at the Texas Department of Insurance. Birny was educated at Bowdoin College and the Massachusetts Institute of Technology. He holds Master's Degrees from MIT in Management and in Urban Planning with concentrations in finance and applied economics. He holds the AMCM certification.

## Why CEJ Works on Insurance Issues

### ***Insurance Products Are Financial Security Tools Essential for Individual and Community Economic Development:***

CEJ works to ensure ***fair access*** and ***fair treatment*** for insurance consumers, particularly for low- and moderate-income consumers.

### ***Insurance is the Primary Institution to Promote Loss Prevention and Mitigation, Resiliency and Sustainability:***

CEJ works to ensure insurance institutions maximize their role in efforts to reduce loss of life and property from catastrophic events and to ***promote resiliency and sustainability*** of individuals, businesses and communities.

# NAIC Climate Risk Disclosure Focused on Financial Condition

The NAIC Climate Risk Disclosure and other climate risk disclosures, such as the TCFD, focus on the financial implications of climate on the reporting companies and are targeted for use by investors, investment analysts and financial regulators. There is opportunity for improvement and convergence towards a single framework for climate-related financial disclosures. Our colleagues' presentation identifies some of the principles and opportunities for such improvement.



## Current CRD Gap: Consumer-Facing Information

Our comments focus on a major gap in the current NAIC CRD (and other climate risk disclosure frameworks) that is unique to the insurance industry – namely, the lack of disclosures related to insurance company’s offerings in the face of a changing climate. This is information to be used by consumers to better assess which insurer they want to do business with because of confidence the insurer will remain the market for the consumer. These types of disclosures are also important and necessary for policymakers to craft public policy as insurers prepare to leave certain markets or dramatically modify product offerings and price.

## Added Questions to Assist Consumers and Policymakers

- What models or type of modeling do you utilize for assessing the impact of climate change on the products you are willing to offer and on your business strategy?
- What are the key assumptions regarding the magnitude of climate change you utilize in your climate modeling?
- Over the past five years, what changes affecting the availability and affordability of your products and coverage in the markets you serve – in terms of geography, types of insurance, perils insured and rate change – have you made as a result of climate change impacts?

- Based on your current assessment of climate risk, what impacts do you currently anticipate on the availability and affordability of products and coverage in the markets you serve – in terms of geography, types of insurance, perils insured and rate change – as a result of climate change?
- If (provide metric for climate impact, e.g. 1.5 degree temperature rise), what impacts do you anticipate on the availability and affordability or products and coverage in the market you serve – in terms of geography, types of insurance, perils insured and rate change?
- Based on your current assessment of climate risk, what actions are you taking to be able continue serving the markets you currently serve for the next 10 years?
- Have you developed or are you planning to develop new products to address insurance needs related to climate change?

While some questions and answers must be qualitative, it is important to include quantitative measures of climate impact against which the insurers can describe their response.

We also suggest that identification of specific geographic areas at a state and county level with the associated insured perils and insurer response is needed and we consider those to be quantitative responses.

Another area for quantitative question and response is for anticipated price / rate change. For example, when and where does the insurer anticipate rate changes of 15%, 30%, 50% and 100% due to climate risk?

## Who Should Report?

All insurers should report the insurance-specific climate disclosures we suggest for three reasons.

First, active consideration of insurer business response to climate risk is simply good corporate governance.

Second, consideration and disclosure of anticipated responses to climate risk enables policymakers to better work with insurers to craft partnerships for resilience and mitigation to promote availability and affordability.

Third, any insurance consumer should be able to assess their insurer's approach to and planned responses to climate risk. All insurers should report because the impacts of climate change impact every type of peril insured throughout the country.



"NASA Satellites See California Wildfires from Space" by NASA Goddard Photo and Video is licensed under [CC BY 2.0](https://creativecommons.org/licenses/by/2.0/)

# NAIC CONSUMER ADVOCATE PRESENTATION

David Arkush  
5/12/2021



215 Pennsylvania Avenue, SE • Washington, D.C. 20003 • 202/546-4996 • [www.citizen.org](http://www.citizen.org)

# Agenda

- Introduction
- The full costs of climate change
- Insurance & climate change
- Why disclosure?
- Framework for thinking about disclosure
- What to disclose

# Climate change is killing people...

- More frequent heat waves
- More destructive hurricanes
- New illnesses
- Severe droughts disrupting agriculture
- Migration, violence and war



## Effects of climate change today

Annual deaths in the hundreds of thousands

Property damage in the billions, if not trillions



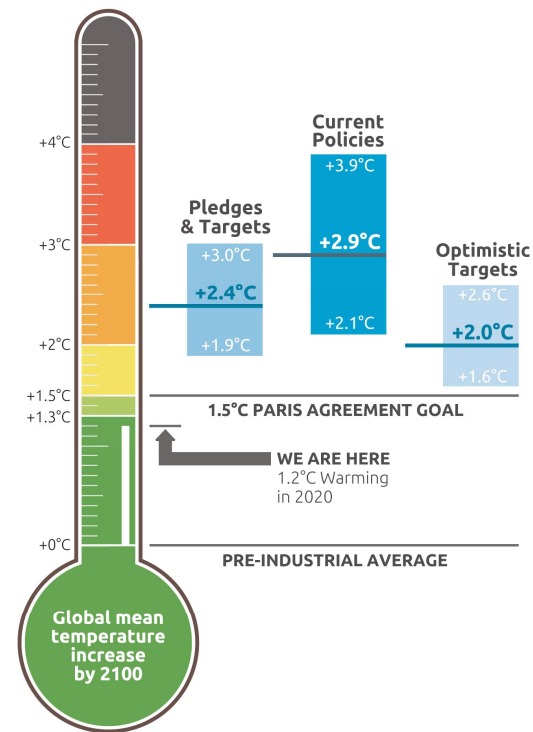
# ...And it's only going to get worse

We've only experienced 1°C of warming so far

Staying below 2°C will require a higher level of government investment than WWII, and the effects may still render the tropics uninhabitable

3°C of warming by 2100 is so catastrophic, it could end civilization as we know it

There's a 1 in 6 chance that warming reaches or exceeds **4°C**, a level that most humans may not survive



CAT warming projections  
**Global temperature increase by 2100**

May 2021 Update

One clear message for insurers: stop contributing to climate change!

# Insurers will leave governments and consumers holding the bag

Current plan is to manage climate risk by raising prices or withdrawing coverage

Some discussing federal bailouts or backstops for climate-related damage

A recipe for managed retreat, not long-term success

California wildfires and National Flood Insurance program show the future

***“The idea that insurance companies will take premiums to protect you and then invest them in the very things that are causing those ills is really beyond comprehension”***

-- Daniel Schreiber, CEO of Lemonade

The only solution is to stop contribution to the problem by insuring and investing in fossil fuels

# Disclosure is the first step to meet consumer needs on climate



Moving fast shows that regulators **take climate change seriously**



Gives consumers a chance to **choose insurers based on climate policies**, not just climate PR



Gives fiduciaries, regulators and consumer representatives the information they need to **accurately price assets and allocate capital**

# Good disclosure framework shows climate exposure and how an insurer manages the risk

## Standardized

- Requires disclosure of specific information
- Based on well-defined methodology
- Allows meaningful comparison across insurers

## Comprehensive

- Requires disclosure of all relevant information about climate impacts
- At minimum, includes management approach to climate risk, GHG emissions for all scopes, projected future emissions and forward looking financial metrics

## Transparent

- Data and methods used are publicly available
- Provided in machine readable format

# What should be disclosed?

## Fossil fuel investments

All investments in fossil fuel related entities

- High risk of becoming stranded assets in a low-carbon transition and threatening insurer solvency
- Transparency about risk
- Supports consumer choice

## Fossil fuel underwriting

All fossil fuel related entities that the insurer underwrites or otherwise insures and total premium from those projects

- Rising litigation risk, reputational risk and potential for massive liabilities, threatening solvency
- Supports consumer choice

# Key takeaways

- Stopping climate contribution by insurers would be better than just disclosing it
- But disclosure still matters, and it can be done quickly
- Disclosure should be
  - Standardized
  - Comprehensive
  - Transparent
- Disclosure should include
  - Information relevant to supervision, like risk-management processes
  - Emissions of all scopes
  - Projected future emissions vs. science based targets
  - Exposure to transition and physical risks across a set of standardized scenario
  - Fossil fuel cover and investments

# ABOUT PUBLIC CITIZEN

Public Citizen is a national non-profit organization with more than 500,000 members and supporters. We represent consumer interests through lobbying, litigation, administrative advocacy, research, and public education on a broad range of issues including consumer rights in the marketplace, product safety, financial regulation, worker safety, safe and affordable health care, campaign finance reform and government ethics, fair trade, climate change, and corporate and government accountability.

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# Q&A

# Discuss Implementation of Revision Suggestions Received on *Questions to Determine Objectives of NAIC Climate Disclosures*

—*Commissioner Andrew R. Stolfi (OR)*

## Revision Suggestions Received on Questions to Determine Objectives of the NAIC Climate Disclosures

Question	Revision Suggested	Submitter	Response	Resolution
<p>1) Who is the audience and what do they wish to glean from the results?</p> <p>a) What qualitative and quantitative metrics do they need?</p>	Does the purpose of the Climate Disclosure differ from those of other existing mandatory disclosures such as, but not limited to: a. Financial exams, b. ORSA, c. Corporate Governance Annual Disclosure (CGAD ), d. Enterprise Risk Reports, e. RBC Reports, f. Operational Risk, g. Other reg. disclosures required for publicly traded companies	NAMIC	a. Fin. exams are only every 5 years and shared at state level; b. Not all are subject to ORSA and it's not public; c. CGAD is confidential and not specific to climate risks; d. Format, length, and detail addressing risks vary substantially; e. NAIC RBC is confidential and is focused on solvency surveillance; f. Operational Risk is not a specific report; g. Not all insurers are publicly traded	No revision to questions recommended.
	Add to establish what regulatory purpose the survey serves: Who is the audience and what do they wish to glean from the results? a. Solvency Regulation?; b. Risk Evaluation?; c. Both? or d. Other?	NAMIC	Propose incorporating into the existing question	Add the red? 1) Who is the audience and what do they wish to glean from the results (solvency regulation, risk evaluation, etc.)?
	For those companies already providing robust responses to the NAIC survey, what information not already being provided would be useful?	AAA	Propose adding this revised	Add the red? 1c) What information not already being provided in the survey would be useful?
	What can be done to make responses from the disclosures more useful for analysis by regulators and others, and more likely to provide information on best practices to other companies?	AAA	Covered by 1b	No revision to questions recommended.

## Revision Suggestions Received on Questions to Determine Objectives of the NAIC Climate Disclosures

Question	Revision Suggested	Submitter	Response	Resolution
<p><b>b) How should the information in the survey be formatted to be useful?</b></p>	<p>1) What do U.S. insurance regulators want and need for solvency regulation? What other objectives are state regulators seeking to advance?</p> <p>2) Are there multiple audiences?</p> <p>3) If non-insurance regulatory audiences are intended, what information do regulators want to provide to them?</p> <p>4) Do the audiences (regulator v. others) need the same or different information?</p> <p>5) Are there existing regulatory tools that can provide the necessary information for some or all of the intended purposes and audiences?</p>	RAA	<p>Mostly already covered in the existing questions or have been addressed within the above response to NAMIC.</p> <p>Could consider revisions to make clear there could be more than one audience.</p>	<p>Add the red?</p> <p>1) Who is(are) the audience(s) and what do they wish to glean from the results?</p>
	<p>Are the disclosures and the processes supporting them helpful to the companies in making decisions that are relevant and material to their businesses?</p>	APCIA	<p>This is a question best posed to the companies filling out the survey. May also be addressed as a response to 1a indicating companies are an audience and that filling out the survey can drive change or invoke thought regarding risk management processes.</p>	<p>No revision to questions recommended.</p>
<p><b>2) Who should report?</b></p> <p><b>a) What is the threshold?</b></p> <p><b>b) Should it be compulsory?</b></p> <p><b>c) What states are participating?</b></p>	<p>Who within a company is responsible for filling out the disclosure (or specific questions), and how does that affect the nature of the information supplied?</p>	AAA	<p>Consider adding that to the survey itself.</p> <p>Objective Question two is meant to address what legal entity level should report. Propose 2c be deleted to reduce confusion as 2, 2a and 2b are sufficient to determine this.</p>	<p>Delete the red?</p> <p><del>e) What states are participating?</del></p>

## Revision Suggestions Received on Questions to Determine Objectives of the NAIC Climate Disclosures

Question	Revision Suggested	Submitter	Response	Resolution
<p><b>3) What report framework should be used?</b>  <b>a) TCFD?</b>  <b>b) NAIC Climate Disclosure Survey?</b>  <b>c) Another framework (such as CDP)?</b>  <b>d) Some combination?</b></p>	<p>1) Should reporting frameworks required by international group supervisors be accepted?                  2) Should the recommendations provide for flexibility as reporting formats change?                  3) To what extent can existing regulatory tools, including ORSA, address and collect some or all of the disclosure sought?</p>	<p>RAA</p>	<p>The concepts of 1 and 2 are already included in the current question and, as worded, appear to be better suited as a response to the existing questions. Three has been addressed in earlier responses.</p>	<p>No revision to questions recommended.</p>
	<p>Is there a demonstrated regulatory need to make any changes to the current survey and option to report using the TCFD framework?</p>	<p>APCIA</p>	<p>Several entities have analyzed the results of the survey and determined that company responses often fall short of providing useful information. As the TCFD becomes more widely used, it is pertinent for state insurance regulators to revisit their disclosures for needed improvements.</p>	<p>No revision to questions recommended.</p>
<p><b>4) How should the questions be designed?</b>  <b>a) Multiple choice?</b>  <b>b) Open-ended?</b></p>	<p>What motivates a company to take actions to mitigate climate risk and how can this be better understood via the survey questions or disclosure prompts?</p>	<p>AAA</p>	<p>Consider adding to the survey itself and/or make part of any supporting guidance material.</p>	<p>No revision to questions recommended.</p>
	<p>1) "b. Open-ended?" If not a narrative response, should be a separate question.                  2) Assuming that a choice is made to have readily comparable survey questions, will there be a narrative component?                  3) If there is a narrative component, should insurers be able to respond by referencing an attached or linked disclosure? (like TCFD is accepted now.)</p>	<p>RAA</p>	<p>One is N/A as it is a <i>response</i> to the question. Two is a question that will be determined based on the responses to the questions, but not appropriate to be asked as a question in this context.                   Consider adding three slightly revised.</p>	<p>Add the red?  <b>4d) Should insurers be able to respond to narrative responses by referencing an attachment or linked disclosure (such as TCFD)?</b></p>

## Revision Suggestions Received on Questions to Determine Objectives of the NAIC Climate Disclosures

Question	Revision Suggested	Submitter	Response	Resolution
<b>c) Close-ended (rating scale, dropdown, ranking, etc.)?</b>	In view of existing voluntary and mandatory reporting is there a regulatory need for more or different reporting? If there is a regulatory need, what is it and what is the most effective and least burdensome way to obtain information that reflects different sizes and business models?	APCIA	Regulatory need is covered by question 1) Who is the audience and what do they wish to glean from the results?  Consider revisions to address obtaining info in least burdensome way.	Add the red?  4e) Should questions be tailored to size of company or logic added to meet companies where they are?
	How will the principle of proportionality be implemented with regard to new disclosures?	APCIA	The proposed addition of 4e addresses this.	
<b>5) When should the information be reported and what is the effective date of the changes?</b>	1) Given decade of NAIC Disclosure Survey, reframe to: Given the experience with the Insurer Climate Risk Disclosure Survey, what would be the best content and format for climate disclosures going forward, and how shall a transition from the current survey to that successor be managed? 2) What transitional arrangements would maximize responsiveness and minimize disruption for participating companies?	AAA	Content and format from one is covered in 1a) What qualitative and quantitative metrics do they need?; 1b) How should the information in the survey be formatted to be useful?; 3) What report framework should be used? and 4) How should the questions be designed?  Consider revising existing question to incorporate transition point.	Consider revising to: 5) How should a transition from the current survey to a successor be managed?
	What are reasonable timeframes for reporting and how long should companies have from the point where a question is decided to be included and the deadline for reporting on it?	APCIA	Consider adding two sub-set questions to specifically address effective date of changes and timing.	Add red? 5a) What should be the effective date of the changes? 5b) What should be the timing of information reported?

## Revision Suggestions Received on Questions to Determine Objectives of the NAIC Climate Disclosures

Question	Revision Suggested	Submitter	Response	Resolution
<p>6) Where should climate disclosures be reported?  a) Continue to make it available through California's website?  b) Build an NAIC repository?  c) Directed to the domestic state?</p>	<p>1) With the regulator of the ultimate insurance entity in the holding company? Groupwide supervisor?  2) Can and should existing regulatory tools and filings be utilized?</p>	<p>RAA</p>	<p>One is covered in 6c. Two has been addressed in previous responses.</p>	<p>No revision to questions recommended.</p>
<p>7) How should the results be made available?  a) Only to regulators?  b) Publicly available (as it is today)?</p>	<p>c) With the regulator of the ultimate insurance entity in the holding company? Groupwide supervisor?  d) Can and should existing regulatory tools and filings be utilized?</p>	<p>RAA</p>	<p>C is covered in 6c. D has been addressed in previous responses.</p>	<p>No revision to questions recommended.</p>
	<p>c) Should some information be confidential or capable of being declared confidential? If so, what are the options for separating the disclosure information?  d) Are there existing regulatory tools that be used in conjunction with or in lieu of certain climate disclosure questions?</p>	<p>RAA</p>	<p>D has been addressed in previous responses.  Consider adding c.</p>	<p>Add red?  c) Combination of public and regulator-only? If so, how should the disclosure information be separated?</p>
	<p>How will confidentiality of any additional mandatory disclosures be maintained?</p>	<p>APCIA</p>	<p>Current question and above revision suggestion already addresses this.</p>	<p>No revision to questions recommended.</p>

## Revision Suggestions Received on Questions to Determine Objectives of the NAIC Climate Disclosures

Question	Revision Suggested	Submitter	Response	Resolution
<p><b>8) New Question Proposed</b></p>	<p>What might be done to encourage small and mid-size companies in all P/C and life lines of business, and health insurance companies of all sizes, to participate and to participate robustly in whatever disclosure regime is established? What can be done to encourage companies providing minimal responses to the current survey to provide more robust responses?</p>	<p>AAA</p>	<p>Propose adding these slightly revised. Question 9 addresses encouraging participation through additional supports (like documentation).</p>	<p>Consider adding: <b>8. What can be done to help companies recognize climate related risks and how they should be disclosed.</b></p>
<p><b>9) New Question Proposed</b></p>	<p>How can the NAIC best assist companies who are beginning their journey with regard to considering and reporting on longer term climate risk issues, such as transition risks?</p>	<p>APCIA</p>	<p>Propose adding this slightly revised.</p>	<p>Consider adding: <b>9. What support is necessary to assist companies in filling out the survey?</b></p>



# *Discuss Administering the Questions to Determine Objectives of NAIC Climate Disclosures*

*—Commissioner Andrew R. Stolfi (OR)*

*Any Other Matters*

*—Commissioner Andrew R. Stolfi (OR)*

**AMENDMENT IN THE NATURE OF A SUBSTITUTE  
TO H.R. 2570  
OFFERED BY MR. CASTEN OF ILLINOIS**

**[Amendment to the Climate Risk Disclosure Act of 2021]**

Strike all after the enacting clause and insert the following:

**1 SECTION 1. SHORT TITLE.**

2       This Act may be cited as the “Climate Risk Dislo-  
3 sure Act of 2021”.

**4 SEC. 2. SENSE OF CONGRESS.**

5       It is the sense of Congress that—

6           (1) climate change poses a significant and in-  
7 creasing threat to the growth and stability of the  
8 economy of the United States;

9           (2) many sectors of the economy of the United  
10 States and many American businesses are exposed  
11 to climate-related risk, which may include exposure  
12 to—

13           (A) the physical impacts of climate change,  
14 including the rise of the average global tem-  
15 perature, accelerating sea-level rise,  
16 desertification, ocean acidification, intensifica-  
17 tion of storms, increase in heavy precipitation,

1 more frequent and intense temperature ex-  
2 tremes, more severe droughts, and longer wild-  
3 fire seasons;

4 (B) the economic disruptions and security  
5 threats that result from the physical impacts  
6 described in subparagraph (A) including con-  
7 flicts over scarce resources, conditions condu-  
8 cive to violent extremism, the spread of infec-  
9 tious diseases, and forced migration;

10 (C) the transition impacts that result as  
11 the global economy transitions to a clean and  
12 renewable energy, low-emissions economy, in-  
13 cluding financial impacts as climate change fos-  
14 sil fuel assets becoming stranded and it be-  
15 comes uneconomic for companies to develop fos-  
16 sil fuel assets as policymakers act to limit the  
17 worst impacts of climate change by keeping the  
18 rise in average global temperature to 1.5 de-  
19 grees Celsius above pre-industrial levels; and

20 (D) actions by Federal, State, Tribal, and  
21 local governments to limit the worst effects of  
22 climate change by enacting policies that keep  
23 the global average surface temperature rise to  
24 1.5 degrees Celsius above pre-industrial levels;

1           (3) assessing the potential impact of climate-re-  
2           lated risks on national and international financial  
3           systems is an urgent concern;

4           (4) companies have a duty to disclose financial  
5           risks that climate change presents to their investors,  
6           lenders, and insurers;

7           (5) the Securities and Exchange Commission  
8           has a duty to promote a risk-informed securities  
9           market that is worthy of the trust of the public as  
10          families invest for their futures;

11          (6) investors, lenders, and insurers are increas-  
12          ingly demanding climate risk information that is  
13          consistent, comparable, reliable, and clear;

14          (7) including standardized, material climate  
15          change risk and opportunity disclosure that is useful  
16          for decision makers in annual reports to the Com-  
17          mission will increase transparency with respect to  
18          risk accumulation and exposure in financial markets;

19          (8) requiring companies to disclose climate-re-  
20          lated risk exposure and risk management strategies  
21          will encourage a smoother transition to a clean and  
22          renewable energy, low-emissions economy and guide  
23          capital allocation to mitigate, and adapt to, the ef-  
24          fects of climate change and limit damages associated  
25          with climate-related events and disasters; and

1           (9) a critical component in fighting climate  
2           change is a transparent accounting of the risks that  
3           climate change presents and the implications of con-  
4           tinued inaction with respect to climate change.

5 **SEC. 3. DISCLOSURES RELATING TO CLIMATE CHANGE.**

6           Section 13 of the Securities Exchange Act of 1934  
7           (15 U.S.C. 78m) is amended by adding at the end the  
8           following:

9           “(s) DISCLOSURES RELATING TO CLIMATE  
10          CHANGE.—

11           “(1) DEFINITIONS.—In this subsection:

12           “(A) 1.5 DEGREE SCENARIO.—The term  
13           ‘1.5 degree scenario’ means a scenario that  
14           aligns with greenhouse gas emissions pathways  
15           that aim to limit global warming to 1.5 degrees  
16           Celsius above pre-industrial levels.

17           “(B) APPROPRIATE CLIMATE PRIN-  
18           CIPALS.—The term ‘appropriate climate prin-  
19           cipals’ means—

20           “(i) the Administrator of the Environ-  
21           mental Protection Agency;

22           “(ii) the Administrator of the Na-  
23           tional Oceanic and Atmospheric Adminis-  
24           tration;

1 “(iii) the Director of the Office of  
2 Management and Budget;

3 “(iv) the Secretary of the Interior;

4 “(v) the Secretary of Energy; and

5 “(vi) the head of any other Federal  
6 agency, as determined appropriate by the  
7 Commission.

8 “(C) BASELINE SCENARIO.—The term  
9 ‘baseline scenario’ means a widely-recognized  
10 analysis scenario in which levels of greenhouse  
11 gas emissions, as of the date on which the anal-  
12 ysis is performed, continue to grow, resulting in  
13 an increase in the global average temperature  
14 of 1.5 degrees Celsius or more above pre-indus-  
15 trial levels.

16 “(D) CARBON DIOXIDE EQUIVALENT.—  
17 The term ‘carbon dioxide equivalent’ means the  
18 number of metric tons of carbon dioxide emis-  
19 sions with the same global warming potential as  
20 one metric ton of another greenhouse gas, as  
21 determined under table A–1 of subpart A of  
22 part 98 of title 40, Code of Federal Regula-  
23 tions, as in effect on the date of enactment of  
24 this subsection.

1           “(E) CLIMATE CHANGE.—The term ‘cli-  
2           mate change’ means a change of climate that  
3           is—

4                   “(i) attributed directly or indirectly to  
5                   human activity that alters the composition  
6                   of the global atmosphere; and

7                   “(ii) in addition to natural climate  
8                   variability observed over comparable time  
9                   periods.

10           “(F) COMMERCIAL DEVELOPMENT OF FOS-  
11           SIL FUELS.—The term ‘commercial develop-  
12           ment of fossil fuels’ includes—

13                   “(i) exploration, extraction, proc-  
14                   essing, exporting, transporting, refining,  
15                   and any other significant action with re-  
16                   spect to oil, natural gas, coal, or any by-  
17                   product thereof or any other solid or liquid  
18                   hydrocarbons that are commercially pro-  
19                   duced; and

20                   “(ii) acquiring a license for any activ-  
21                   ity described in clause (i).

22           “(G) COVERED ISSUER.—The term ‘cov-  
23           ered issuer’ means an issuer that is required to  
24           file an annual report under subsection (a) or  
25           section 15(d).



1           “(H) DIRECT AND INDIRECT GREENHOUSE  
2 GAS EMISSIONS.—The term ‘direct and indirect  
3 greenhouse gas emissions’ includes, with respect  
4 to a covered issuer—

5           “(i) all direct greenhouse gas emis-  
6 sions released by the covered issuer;

7           “(ii) all indirect greenhouse gas emis-  
8 sions with respect to electricity, heat, or  
9 steam purchased by the covered issuer;

10           “(iii) significant indirect emissions,  
11 other than the emissions described in  
12 clause (ii), emitted in the value chain of  
13 the covered issuer; and

14           “(iv) all indirect greenhouse gas emis-  
15 sions that are attributable to assets owned  
16 or managed, including assets that are par-  
17 tially owned or managed, by the covered  
18 issuer.

19           “(I) FOSSIL FUEL RESERVES.—The term  
20 ‘fossil fuel reserves’ has the meaning given the  
21 term ‘reserves’ under the final rule of the Com-  
22 mission titled ‘Modernization of Oil and Gas  
23 Reporting’ (74 Fed. Reg. 2158; published Jan-  
24 uary 14, 2009).

1           “(J) GREENHOUSE GAS.—The term  
2           ‘greenhouse gas’—

3           “(i) means carbon dioxide,  
4           hydrofluorocarbons, methane, nitrous  
5           oxide, perfluorocarbons, sulfur  
6           hexafluoride, nitrogen trifluoride, and  
7           chlorofluorocarbons;

8           “(ii) includes any other  
9           anthropogenically-emitted gas that the Ad-  
10          ministrators of the Environmental Protec-  
11          tion Agency determines, after notice and  
12          comment, to contribute to climate change;  
13          and

14          “(iii) includes any other  
15          anthropogenically-emitted gas that the  
16          Intergovernmental Panel on Climate  
17          Change determines to contribute to climate  
18          change.

19          “(K) GREENHOUSE GAS EMISSIONS.—The  
20          term ‘greenhouse gas emissions’ means the  
21          emissions of greenhouse gas, expressed in terms  
22          of metric tons of carbon dioxide equivalent.

23          “(L) PHYSICAL RISKS.—The term ‘phys-  
24          ical risks’ means financial risks to long-lived  
25          fixed assets, locations, operations, or value

1 chains that result from exposure to physical cli-  
2 mate-related effects, including—

3 “(i) increased average global tempera-  
4 tures and increased frequency of tempera-  
5 ture extremes;

6 “(ii) increased severity and frequency  
7 of extreme weather events;

8 “(iii) increased flooding;

9 “(iv) sea level rise;

10 “(v) ocean acidification;

11 “(vi) increased frequency of wildfires;

12 “(vii) decreased arability of farmland;

13 “(viii) decreased availability of fresh  
14 water; and

15 “(ix) any other financial risks to long-  
16 lived fixed assets, locations, operations, or  
17 value chains determined appropriate by the  
18 Commission, in consultation with appro-  
19 priate climate principals.

20 “(M) SOCIAL COST OF CARBON.—The term  
21 ‘social cost of carbon’ means the social cost of  
22 carbon, as described in the technical support  
23 document entitled ‘Technical Support Docu-  
24 ment: Technical Update of the Social Cost of  
25 Carbon for Regulatory Impact Analysis Under

1 Executive Order 12866’, published by the Inter-  
2 agency Working Group on Social Cost of Green-  
3 house Gases, United States Government, in Au-  
4 gust 2016 or any successor or substantially re-  
5 lated estimate of the monetized damages associ-  
6 ated with an incremental increase in carbon di-  
7 oxide emissions in a given year.

8 “(N) TRANSITION RISKS.—The term ‘tran-  
9 sition risks’ means financial risks that are at-  
10 tributable to climate change mitigation and ad-  
11 aptation, including efforts to reduce greenhouse  
12 gas emissions and strengthen resilience to the  
13 impacts of climate change, including—

14 “(i) costs relating to—

15 “(I) international treaties and  
16 agreements;

17 “(II) Federal, State, and local  
18 policy;

19 “(III) new technologies;

20 “(IV) changing markets;

21 “(V) reputational impacts rel-  
22 evant to changing consumer behavior;  
23 and

24 “(VI) litigation; and

1           “(ii) assets that may lose value or be-  
2           come stranded due to any of the costs de-  
3           scribed in subclauses (I) through (VI) of  
4           clause (i).

5           “(O) VALUE CHAIN.—The term ‘value  
6           chain’—

7           “(i) means the total lifecycle of a  
8           product or service, both before and after  
9           production of the product or service, as ap-  
10          plicable; and

11          “(ii) may include the sourcing of ma-  
12          terials, production, transportation, and dis-  
13          posal with respect to the product or service  
14          described in clause (i).

15          “(2) FINDINGS.—Congress finds that—

16          “(A) short-, medium-, and long-term finan-  
17          cial and economic risks and opportunities relat-  
18          ing to climate change, and the national and  
19          global reduction of greenhouse gas emissions,  
20          constitute information that issuers—

21          “(i) may reasonably expect to affect  
22          shareholder decision making; and

23          “(ii) should regularly identify, evalu-  
24          ate, and disclose; and

1                   “(B) the disclosure of information de-  
2                   scribed in subparagraph (A) should—

3                   “(i) identify, and evaluate—

4                   “(I) material physical and transi-  
5                   tion risks posed by climate change;  
6                   and

7                   “(II) the potential financial im-  
8                   pact of such risks;

9                   “(ii) detail any implications such risks  
10                  have on corporate strategy;

11                  “(iii) detail any board-level oversight  
12                  of material climate related risks and op-  
13                  portunities;

14                  “(iv) allow for intra- and cross-indus-  
15                  try comparison, to the extent practicable,  
16                  of climate-related risk exposure through  
17                  the inclusion of standardized industry-spe-  
18                  cific and sector-specific disclosure metrics,  
19                  as identified by the Commission, in con-  
20                  sultation with the appropriate climate prin-  
21                  cipals;

22                  “(v) allow for tracking of performance  
23                  over time with respect to mitigating cli-  
24                  mate risk exposure; and

1                   “(vi) incorporate a price on green-  
2                   house gas emissions in financial analyses  
3                   that reflects, at minimum, the social cost  
4                   of carbon that is attributable to issuers.

5                   “(3) DISCLOSURE.—Each covered issuer, in any  
6                   annual report filed by the covered issuer under sub-  
7                   section (a) or section 15(d), shall, in accordance  
8                   with any rules issued by the Commission pursuant  
9                   to this subsection, include in each such report infor-  
10                  mation regarding—

11                  “(A) the identification of, the evaluation of  
12                  potential financial impacts of, and any risk-  
13                  management strategies relating to—

14                  “(i) physical risks posed to the cov-  
15                  ered issuer by climate change; and

16                  “(ii) transition risks posed to the cov-  
17                  ered issuer by climate change;

18                  “(B) a description of any established cor-  
19                  porate governance processes and structures to  
20                  identify, assess, and manage climate-related  
21                  risks;

22                  “(C) a description of specific actions that  
23                  the covered issuer is taking to mitigate identi-  
24                  fied risks;

1           “(D) a description of the resilience of any  
2           strategy the covered issuer has for addressing  
3           climate risks when differing climate scenarios  
4           are taken into consideration; and

5           “(E) a description of how climate risk is  
6           incorporated into the overall risk management  
7           strategy of the covered issuer.

8           “(4) RULE OF CONSTRUCTION.—Nothing in  
9           paragraph (3) may be construed as precluding a cov-  
10          ered issuer from including, in an annual report sub-  
11          mitted under subsection (a) or section 15(d), any in-  
12          formation not explicitly referenced in such para-  
13          graph.

14          “(5) RULEMAKING.—The Commission, in con-  
15          sultation with the appropriate climate principals,  
16          shall, not later than 2 years after the date of the en-  
17          actment of this subsection, issue rules with respect  
18          to the information that a covered issuer is required  
19          to disclose pursuant to this subsection and such  
20          rules shall—

21                 “(A) establish climate-related risk disclo-  
22                 sure rules, which shall—

23                         “(i) be, to the extent practicable, spe-  
24                         cialized for industries within specific sec-  
25                         tors of the economy, which shall include—



1                   “(I) the sectors of finance, insur-  
2                   ance, transportation, electric power,  
3                   mining, and non-renewable energy;  
4                   and

5                   “(II) any other sector determined  
6                   appropriate by the Commission, in  
7                   consultation with the appropriate cli-  
8                   mate principals;

9                   “(ii) include reporting standards for  
10                  estimating and disclosing direct and indi-  
11                  rect greenhouse gas emissions by a covered  
12                  issuer, and any affiliates of the covered  
13                  issuer, which shall—

14                  “(I) disaggregate, to the extent  
15                  practicable, total emissions of each  
16                  specified greenhouse gas by the cov-  
17                  ered issuer; and

18                  “(II) include greenhouse gas  
19                  emissions by the covered issuer during  
20                  the period covered by the disclosure;

21                  “(iii) include reporting standards for  
22                  disclosing, with respect to a covered  
23                  issuer—

1                   “(I) the total amount of fossil  
2                   fuel-related assets owned or managed  
3                   by the covered issuer; and

4                   “(II) the percentage of fossil  
5                   fuel-related assets as a percentage of  
6                   total assets owned or managed by the  
7                   covered issuer;

8                   “(iv) specify requirements for, and the  
9                   disclosure of, input parameters, assump-  
10                  tions, and analytical choices to be used in  
11                  climate scenario analyses required under  
12                  subparagraph (B)(i), including—

13                  “(I) present value discount rates;  
14                  and

15                  “(II) time frames to consider, in-  
16                  cluding 5, 10, and 20 year time  
17                  frames; and

18                  “(v) include reporting standards and  
19                  guidance with respect to the information  
20                  required under subparagraph (B)(iii);

21                  “(B) require that a covered issuer, with re-  
22                  spect to a disclosure required under this sub-  
23                  section—

24                  “(i) incorporate into such disclosure—

1                   “(I) quantitative analysis to sup-  
2 port any qualitative statement made  
3 by the covered issuer;

4                   “(II) the rules established under  
5 subparagraph (A);

6                   “(III) industry-specific metrics  
7 that comply with the requirements  
8 under subparagraph (A)(i);

9                   “(IV) specific risk management  
10 actions that the covered issuer is tak-  
11 ing to address identified risks;

12                   “(V) a discussion of the short-,  
13 medium-, and long-term resilience of  
14 any risk management strategy, and  
15 the evolution of applicable risk  
16 metrics, of the covered issuer under  
17 each scenario described in clause (ii);  
18 and

19                   “(VI) the total cost attributable  
20 to the direct and indirect greenhouse  
21 gas emissions of the covered issuer,  
22 using, at minimum, the social cost of  
23 carbon;

1 “(ii) consider, when preparing any  
2 qualitative or quantitative risk analysis  
3 statement contained in the disclosure—

4 “(I) a baseline scenario that in-  
5 cludes physical impacts of climate  
6 change;

7 “(II) a 1.5 degrees scenario; and

8 “(III) any additional climate  
9 analysis scenario considered appro-  
10 priate by the Commission, in consulta-  
11 tion with the appropriate climate prin-  
12 cipals;

13 “(iii) if the covered issuer engages in  
14 the commercial development of fossil fuels,  
15 include in the disclosure—

16 “(I) an estimate of the total and  
17 a disaggregated amount of direct and  
18 indirect greenhouse gas emissions of  
19 the covered issuer that are attrib-  
20 utable to—

21 “(aa) combustion;

22 “(bb) flared hydrocarbons;

23 “(cc) process emissions;

24 “(dd) directly vented emis-  
25 sions;

1                   “(ee) fugitive emissions or  
2                   leaks; and  
3                   “(ff) land use changes;  
4                   “(II) a description of—  
5                   “(aa) the sensitivity of fossil  
6                   fuel reserve levels to future price  
7                   projection scenarios that incor-  
8                   porate the social cost of carbon;  
9                   “(bb) the percentage of the  
10                  reserves of the covered issuer  
11                  that will be developed under the  
12                  scenarios established in clause  
13                  (ii), as well as a forecast for the  
14                  development prospects of each re-  
15                  serve under the scenarios estab-  
16                  lished in clause (ii);  
17                  “(cc) the potential amount  
18                  of direct and indirect greenhouse  
19                  gas emissions that are embedded  
20                  in proved and probable reserves,  
21                  with each such calculation pre-  
22                  sented as a total and in sub-  
23                  divided categories by the type of  
24                  reserve;

1           “(dd) the methodology of  
2 the covered issuer for detecting  
3 and mitigating fugitive methane  
4 emissions, which shall include the  
5 frequency with which applicable  
6 assets of the covered issuer are  
7 observed for methane leaks, the  
8 processes and technology that the  
9 covered issuer uses to detect  
10 methane leaks, the percentage of  
11 assets of the covered issuer that  
12 the covered issuer inspects under  
13 that methodology, and quan-  
14 titative and time-bound reduction  
15 goals of the issuer with respect to  
16 methane leaks;

17           “(ee) the amount of water  
18 that the covered issuer withdraws  
19 from freshwater sources for use  
20 and consumption in operations of  
21 the covered issuer; and

22           “(ff) the percentage of the  
23 water described in item (ee) that  
24 comes from regions of water

1 stress or that face wastewater  
2 management challenges; and

3 “(III) any other information that  
4 the Commission determines is—

5 “(aa) necessary;

6 “(bb) appropriate to safe-  
7 guard the public interest; or

8 “(cc) directed at ensuring  
9 that investors are informed in ac-  
10 cordance with the findings de-  
11 scribed in paragraph (2);

12 “(C) with respect to a disclosure required  
13 under section 13(s) of the Securities Exchange  
14 Act of 1934, require that a covered issuer in-  
15 clude in such disclosure any other information,  
16 or use any climate-related or greenhouse gas  
17 emissions metric, that the Commission, in con-  
18 sultation with the appropriate climate prin-  
19 cipals, determines is—

20 “(i) necessary;

21 “(ii) appropriate to safeguard the  
22 public interest; or

23 “(iii) directed at ensuring that inves-  
24 tors are informed in accordance with the  
25 findings described in paragraph (2); and

1           “(D) with respect to a disclosure required  
2           under section 13(s) of the Securities Exchange  
3           Act of 1934, establish how and where the re-  
4           quired disclosures shall be addressed in the cov-  
5           ered issuer’s annual financial filing.

6           “(6) **FORMATTING.**—The Commission shall re-  
7           quire issuers to disclose information in an interactive  
8           data format and shall develop standards for such  
9           format, which shall include electronic tags for infor-  
10          mation that the Commission determines is—

11           “(A) necessary;

12           “(B) appropriate to safeguard the public  
13          interest; or

14           “(C) directed at ensuring that investors  
15          are informed in accordance with the findings  
16          described in paragraph (2).

17          “(7) **PERIODIC UPDATE OF RULES.**—The Com-  
18          mission shall periodically update the rules issued  
19          under this subsection.

20          “(8) **COMPILATION OF INFORMATION DIS-**  
21          **CLOSED.**—The Commission shall, to the maximum  
22          extent practicable make a compilation of the infor-  
23          mation disclosed by issuers under this subsection  
24          publicly available on the website of the Commission  
25          and update such compilation at least once each year.



1 “(9) REPORTS.—

2 “(A) REPORT TO CONGRESS.—The Com-  
3 mission shall—

4 “(i) conduct an annual assessment re-  
5 garding the compliance of covered issuers  
6 with the requirements of this subsection;

7 “(ii) submit to the appropriate con-  
8 gressional committees a report that con-  
9 tains the results of each assessment con-  
10 ducted under clause (i); and

11 “(iii) make each report submitted  
12 under clause (ii) accessible to the public.

13 “(B) GAO REPORT.—The Comptroller  
14 General of the United States shall periodically  
15 evaluate, and report to the appropriate congres-  
16 sional committees on, the effectiveness of the  
17 Commission in carrying out and enforcing this  
18 subsection.”.

19 **SEC. 4. BACKSTOP.**

20 If, 2 years after the date of the enactment of this  
21 Act, the Securities and Exchange Commission has not  
22 issued the rules required under section 13(s) of the Securi-  
23 ties Exchange Act of 1934, and until such rules are issued,  
24 a covered issuer (as defined in such section 13(s)) shall  
25 be deemed in compliance with such section 13(s) if dislo-

1 sures set forth in the annual report of such issuer satisfy  
2 the recommendations of the Task Force on Climate-re-  
3 lated Financial Disclosures of the Financial Stability  
4 Board as reported in June, 2017, or any successor report,  
5 and as supplemented or adjusted by such rules, guidance,  
6 or other comments from the Commission.

7 **SEC. 5. AUTHORIZATION OF APPROPRIATIONS.**

8       There are authorized to be appropriated to the Secu-  
9 rities and Exchange Commission such sums as may be  
10 necessary to carry out this Act and the amendments made  
11 by this Act.

