



Standard Guide for Financial Disclosures Attributed to Climate Change¹

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1. Scope

1.1 *Purpose*—The purpose of this guide is to provide a series of options or instructions consistent with good commercial and customary practice for *climate change*-related disclosures accompanying audited and unaudited financial statements. This guide encourages consistent and comprehensive disclosure of *financial impacts attributed to climate change*.

1.2 *Objective*—The objective of this guide is to determine the conditions warranting disclosure and the content of appropriate disclosure.

2. Referenced Documents

2.1 ASTM Standards:²

E2137 Guide for Estimating Monetary Costs and Liabilities for Environmental Matters

E2173 Guide for Disclosure of Environmental Liabilities

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *climate change*—any change in climate over time whether due to natural variability or as a result of human activity. (Definition from the Intergovernmental Panel on Climate Change.)

3.1.2 *financial impacts attributed to climate change*—material financial impacts on a company's performance, operations, assets, and liabilities attributed to climate change effects, including but not limited to real or expected risks of physical damage to facilities, regulatory costs and incentives, and shifts in the market for products and services.

3.1.2.1 *Discussion*—In this guide, the short form designations of 'financial impact' and 'impact' are also used to designate this specific concept.

3.1.3 *financial statement(s)*—include, but are not limited to, statements associated with shareholder reporting, periodic

reports, registration statements, loans, mergers, acquisitions, or divestitures. *Financial statements* may include statements outside of SEC filings.

3.1.4 *greenhouse gas*—includes carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride.

3.1.5 *materiality*—the significance of an item to users of a financial statement that considers all relevant and surrounding circumstances. A material item is one that its omission or misstatement is of such a magnitude in the surrounding circumstances that either the judgment of a reasonable person relying on the financial statement would have been changed or influenced by its inclusion or correction, or there is a substantial likelihood that the item, after assessing the inferences, and their significance, drawn from the given set of facts associated with the financial statement, would be viewed as significantly altering the information made available to the investor or shareholder. (For additional information on *materiality*, see Guide **E2173**.)

3.1.6 *reporting entity*—any business or public agency preparing a financial statement.

3.2 Acronyms and Other Abbreviations:

3.2.1 *FASB*—Financial Accounting Standards Board

3.2.2 *GAAP*—Generally Accepted Accounting Principles

3.2.3 *SEC*—Securities and Exchange Commission

4. Significance and Use

4.1 *Uses*—This guide is intended for use on a voluntary basis by a reporting entity that provides disclosure in its financial statements regarding *financial impacts attributed to climate change*. The degree and type of disclosure depends on the scope and objective of the financial statements. This guide is intended to apply to U.S. and international operations at the discretion of the reporting entity. The user should be aware that there may be contractual obligations, court decisions, or regulatory directives that may affect the flexibility in use of this guide. The user should also maintain an awareness of international regulations that may be relevant to disclosures, such as those of the International Accounting Standards Board and International Financial Reporting Standards.

4.2 Principle:

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

4.2.1 The following principles are an integral part of this guide and are intended to be referred to in resolving any ambiguity or dispute regarding the interpretation of financial disclosures regarding *financial impacts attributed to climate change*.

4.2.1.1 *Uncertainty Not Eliminated*—Although a *reporting entity*, as of the time when its financial statements are prepared, may have evaluated the existence and extent of financial impacts attributed to climate change, there remains uncertainty with regard to the final resolution of factual, scientific, technological, regulatory, legislative, and judicial matters, which could affect its financial impacts attributed to climate change. These uncertainties cannot be eliminated. While this standard recommends the development of reasonable scenarios or ranges to recognize and address uncertainties, it is unlikely that all *climate change* uncertainties will be foreseeable. However, it is likely that some *financial impacts attributed to climate change* are foreseeable and that alternatives, boundaries, or ranges of potential impacts can be assessed and quantified.

4.2.1.2 *Comparison with Subsequent Disclosures*—Subsequent disclosures that convey different information regarding the extent or magnitude of the *reporting entity's financial impacts attributed to climate change* should not be construed as indicating the initial disclosures were inappropriate. Disclosures shall be evaluated on the reasonableness of judgments and inquiries made at the time and under the circumstances in which they were made. Subsequent disclosures should not be considered valid standards to judge the appropriateness of any prior disclosure based on hindsight, new information, use of developing analytical techniques, or other factors. However, information on trends between disclosure years may be of value to a user of financial statements.

4.2.1.3 *Not Exhaustive*—Appropriate disclosure does not necessarily mean an exhaustive disclosure. There is a point at which the cost of obtaining information or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly preparation of financial statements and the ability of readers to understand the information contained therein. However, all relevant and reasonably ascertainable information should be used to determine the content of appropriate *financial impacts attributed to climate change*.

5. Determining Whether a Disclosure is Warranted

5.1 *Circumstances Associated with Financial Impacts Attributed to Climate Change*:

5.1.1 The following are examples of major circumstances that might give rise to *financial impacts attributed to climate change* that may be subject to disclosure:

5.1.1.1 Enforcement of laws or regulations regarding greenhouse gas emission levels (for example, caps, trade systems, emission taxes), investigations, controls, resource use, technology use, compliance, reporting, and other costs attributed to climate change. This includes predicted changes in federal, state, and local regulations that are anticipated to have a material effect upon the capital expenditures, earnings and competitive position of the company and its subsidiaries, as well as statutory and common law developments imposing liability for past emissions of greenhouse gases

5.1.1.2 Predicted changes/trends in resource costs or availability that may change a company's products, processes, and/or markets or services (including both positive and negative impacts).

5.1.1.3 Predicted changes in a company's assets due to *financial impacts attributed to climate change*, including but not limited to changes in weather, sea levels, disease and pest levels, drought and fires, and resource availability (for example, food, labor, energy, water).

5.1.1.4 Contractual assumption of risk or risk transfer agreements. The most familiar forms of risk transfer agreements are insurance contracts, hold harmless agreements, indemnity agreements, and similar terms within contracts for the transfer of property or liabilities.

5.1.1.5 Commencement of litigation or assertion of a claim or assessment by a party alleging legal liability related to *climate change* on the part of the *reporting entity*.

5.1.1.6 Information known by the *reporting entity* indicating that *financial impacts attributed to climate change* have been incurred or are likely to be incurred.

5.2 *Sources of Information*—This guide identifies standard sources that should be reviewed by a *reporting entity* to properly determine if conditions warrant disclosure. Such sources may include but are not limited to the following categories:

5.2.1 *Publicly Available Environmental Record Sources*—Any environmental record available from a government agency or commercial entity.

5.2.2 *Internal Reporting Entity Records*—The *reporting entity's* internal records regarding greenhouse gas emissions and *financial impacts attributed to climate change*.

5.2.3 Current and proposed foreign, national, state, and local environmental laws or rules related to *climate change*.

5.2.4 Publicly available and internal studies on benchmarking, modeling, trends, and forecasts.

5.3 *Estimation of Financial Impact Attributed to Climate Change*—Once a *reporting entity* has identified potential *financial impacts attributed to climate change*, it should determine whether these impacts (1) have a likelihood that is more than remote, (2) could have a severe impact that would disrupt the normal functioning of the entity or the entity's financial position, cash flows, or operations, and (3) are near-term, occurring during the next year. If these criteria apply, the *reporting entity* should estimate the likelihood, magnitude, and timing of potential impacts to the entity's financial position, including assets, liabilities, and income. (For additional guidance on estimating environmental costs and liabilities, see Guide E2137). Note that if the level of uncertainty or the time horizon of the financial impact is determined to be too great to allow meaningful estimation, disclosure may still be warranted as described below in Section 6.

NOTE 1—For longer-term *financial impacts attributed to climate change*, the company should, when possible, estimate the likelihood, magnitude, and timing of potential impacts.

5.4 *Estimation of Materiality*—The materiality of the *financial impacts attributed to climate change* should be evaluated in the aggregate to determine whether disclosure is warranted.