Draft Proposed Revisions to the Provisional Standards:

Summary of Changes

- Health Care
- Financials
- Technology & Communications
- Extractives & Minerals Processing
- Transportation
- Services
- Resource Transformation
- Food & Beverage
- Consumer Goods
- Renewable Resources & Alternative Energy
- Infrastructure

Prepared by the
Sustainability Accounting Standards Board®
## Contents

- **Introduction** .................................................................................................................................... 3
- **Health Care Sector** ........................................................................................................................ 4
- **Financials Sector** .......................................................................................................................... 18
- **Technology & Communications Sector** ...................................................................................... 52
- **Extractives & Minerals Processing Sector** .................................................................................... 65
- **Transportation Sector** .................................................................................................................. 85
- **Services Sector** .......................................................................................................................... 101
- **Resource Transformation Sector** ................................................................................................ 107
- **Food & Beverage Sector** ............................................................................................................ 123
- **Consumer Goods Sector** ............................................................................................................. 142
- **Renewable Resources & Alternative Energy Sector** ................................................................... 146
- **Infrastructure Sector** .................................................................................................................. 155
Introduction

The Summary of Changes document provides a listing of all proposed revisions to the provisional standards, organized by sector, that the SASB is considering for implementation in the codified standards. These proposed revisions to the provisional standards reflect consideration of public comments received between October 2, 2017 and January 31, 2018, stakeholder input from prior consultation, staff research and feedback from the Standards Board. The SASB staff and Standards Board have considered these comments and consultations in the context of the Rules of Procedure and Conceptual Framework.

All proposed revisions which reference the “2017 Technical Agenda”, consider a previously published Basis for Conclusion which may be found by referring to the Basis for Conclusions and Exposure Drafts released for public comment in October 2017.

The proposed revisions have been through multiple reviews by the board and staff, including a final board review of these revisions and the standards over the last month. The proposed revisions are meant to provide transparency as to the complete set of revisions up for board consideration. The official vote by the Standards Board in the next week will consider these revisions as well as discussions of board review comments from the last month, which will take place during the October 10 board meeting. Several weeks after the vote, the SASB will release a detailed rationale for each revision in the form of Basis for Conclusions (similar to the Exposure Draft Basis for Conclusions), along with 77 codified industry standards that will be ready for market use.

Note: The revision numbering system in this document is not sequential. Final standards documents will contain a sequential numbering system.
Health Care Sector

Biotechnology & Pharmaceuticals
Medical Equipment & Supplies
Health Care Delivery
Health Care Distributors
Managed Care
Drug Retailers

Prepared by the Sustainability Accounting Standards Board®
Revision HC-BP:01 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Activity Metrics

**2017 Technical Agenda Item #1-6 Description**

SASB is evaluating adding activity metrics to the Biotechnology & Pharmaceuticals industry standard.

**Summary of Change – Add Activity Metrics**

The SASB has added the following activity metrics to the Biotechnology & Pharmaceuticals industry standard:

- Number of patients treated
- Number of drugs (1) in portfolio and (2) in research and development (Phases 1-3)

Revision HC-BP:02 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Energy, Water & Waste Efficiency

**Summary of Change – Remove Disclosure Topic**

The SASB removed the Energy, Water & Waste Efficiency disclosure topic and the following associated metrics from the Biotechnology & Pharmaceuticals industry standard:

- Amount of waste (metric tons); percentage that is recycled, incinerated (including for energy recovery), and landfilled
- Overall Process Mass Intensity (PMI) and PMI broken down for water and organic solvents, where PMI = quantity of raw materials input (kg) / quantity of active pharmaceutical product (API) output (kg)
- Total annual energy consumed (gigajoules) and percentage renewable (e.g., wind, biomass, solar)
- Total water withdrawals and percentage in water-stressed regions – High or Extremely High Baseline Water Stress as defined by the WRI Water Risk Atlas; percentage of process water recycled
Revision HC-BP:03 – **Industry**: Biotechnology & Pharmaceuticals; **Topic Name**: Safety of Clinical Trial Participants

2017 Technical Agenda Item #1-2 Description
SASB is evaluating a revision of metrics HC0101-09 and HC0102-09\(^1\) to ensure the comparability of the metrics associated with the topic.

**Summary of Change – Revise Metric**
The SASB has revised provisional metrics HC0101-09 and HC0102-09 from:

Description of legal and regulatory fines and settlements associated with clinical trials in World Bank Low-income and Lower middle-income Countries (LICs and LMICs) and UN HDI Medium-High Development Countries (MHDCs) that are not captured by the World Bank's LIC or LMIC rankings

Dollar amount of fines and settlements and a description of corrective actions implemented in response to events

to the following:

Revision HC-BP:04 – **Industry**: Biotechnology & Pharmaceuticals; **Topic Name**: Safety of Clinical Trial Participants

**Summary of Change – Revise Metric**
The SASB revised provisional metric HC0101-08 from:

Number of FDA Clinical Investigator Inspections of investigators used for clinical trials during the past year that resulted in: (1) Voluntary Action Indicated (VAI) and (2) Official Action Indicated (OAI)

to the following:

Number of FDA Sponsor Inspections related to clinical trial management and pharmacovigilance that resulted in: (1) Voluntary Action Indicated (VAI) and (2) Official Action Indicated (OAI)

---

\(^1\) HC0101-09 / HC0102-09: Description of legal and regulatory fines and settlements associated with clinical trials in World Bank Low-income and Lower middle-income Countries (LICs and LMICs) and UN HDI Medium-High Development Countries (MHDCs) that are not captured by the World Bank's LIC or LMIC rankings. Dollar amount of fines and settlements and a description of corrective actions implemented in response to events.
Revision HC-BP:05 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Access to Medicines

**Summary of Change – Revise Metric**

The SASB revised provisional metric HC0101-01 from:

> Description of initiatives to promote access to health care products in priority countries as defined by the Access to Medicine Index.

...to the following:

> Description of actions and initiatives to promote access to health care products for priority diseases and in priority countries as defined by the Access to Medicine Index.

Revision HC-BP:06 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Access to Medicines

**Summary of Change – Revise Technical Protocol**

The SASB has revised the technical protocol associated with metric HC0101-01 to align it with the most current Access to Medicine methodology. The revised protocol removes specific mention of the year of publication of the methodology as well as page numbers to ensure that it does not become outdated with the biennial release of the Access to Medicine methodology.

Revision HC-BP:07 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Affordability & Fair Pricing

**Summary of Change – Revise Topic Name**

The SASB has renamed the provisional topic, Affordability & Fair Pricing to Affordability & Pricing.

Revision HC-BP:08 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Affordability & Fair Pricing

**2017 Technical Agenda Item #1-3 Description**

SASB is evaluating the revision of metrics HC0101-11 / HC0102-11\(^2\) to ensure the usefulness and alignment with current industry practices of the metrics associated with the topic.

---

\(^2\) HC0101-11 / HC0102-11: Ratio of weighted average rate of net price increases (for all products) to the annual increase in the U.S. Consumer Price Index.
Summary of Change – Revise Metrics

The SASB has revised metric HC0101-11 / HC0102-11 from:

Ratio of weighted average rate of net price increases (for all products) to the annual increase in the U.S. Consumer Price Index
to the following:

Percentage change in: (1) average list price and (2) average net price across U.S. product portfolio compared to previous year

Percentage change in: (1) list price and (2) net price of product with largest increase compared to previous year

Revision HC-BP:09 – Industry: Biotechnology & Pharmaceuticals; Topic Name: Drug Safety & Side Effects

2017 Technical Agenda Item #1-1 Description

SASB is evaluating the suitability of the topic name.

Summary of Change – Revise Topic Name

The SASB has renamed the provisional topic “Drug Safety & Side Effects to Drug Safety.

Revision HC-BP:10 – Industry: Biotechnology & Pharmaceuticals; Topic Name: Drug Safety & Side Effects

Summary of Change – Revise Metric

The SASB revised provisional metric HC0101-05 from:

List of products recalled
to the following:

Number of recalls issued, total units recalled
Revision HC-BP:11 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Ethical Marketing

2017 Technical Agenda Item #1-4 Description

SASB is evaluating a revision of metrics HC0101-12 and HC0102-12\(^3\) to ensure the comparability of the metrics associated with the topic.

**Summary of Change – Revise Metrics**

The SASB has revised metrics HC0101-12 and HC0102-12 from:

- Description of legal and regulatory fines and settlements associated with false marketing claims, including Federal Food, Drug, and Cosmetic Act violations for off-label marketing prosecuted under the False Claims Act
- Dollar amount of fines and settlements and a description of corrective actions implemented in response to events

...to the following:

- Total amount of monetary losses as a result of legal proceedings associated with false marketing claims

Revision HC-BP:12 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Employee Health & Safety

**Summary of Change – Remove Disclosure Topic**

The SASB removed the Employee Health & Safety disclosure topic and the associated metrics from the Biotechnology & Pharmaceuticals industry standard:

- Days Away, Restricted, or Transferred (DART) rate – (Number of recordable injuries and illnesses resulting in days away from work, restricted work activity, or job transfers / Hours Worked) * 200,000
- Laboratory-acquired infection (LAI) rate – LAIs per 1000 employees in human and animal diagnostic laboratories
- Total Injury Rate – (Number of recordable injuries and illnesses / Hours Worked) * 200,000

---

\(^3\) HC0101-12 / HC0102-12: Description of legal and regulatory fines and settlements associated with false marketing claims, including Federal Food, Drug, and Cosmetic Act violations for off-label marketing prosecuted under the False Claims Act. Dollar amount of fines and settlements and a description of corrective actions implemented in response to events.
Revision HC-BP:13 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Employee Recruitment, Development & Retention

**Summary of Change – Remove Metric:**

The SASB removed metric HC0101-15, ‘Training and development expenditures per full time employee by: (1) expenditures for industry or professional qualification and advanced industry education; (2) all other’ from the Employee, Recruitment, Development & Retention disclosure topic.

Revision HC-BP:14 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Manufacturing & Supply Chain Management

**Summary of Change – Revise Topic Name and Move Metric:**

The SASB moved metric HC0101-29, “Description of FDA enforcement actions taken in response to violations of current good manufacturing practices (cGMP), including: product deemed adulterated, form 483s, suggested recall (Class I, II, III), Warning Letters, Border Alerts, license suspension or revocation, product seizure, Consent Decrees, criminal prosecution. Description of corrective actions implemented in response to actions,” from the Manufacturing & Supply Chain Quality Management to the Drug Safety disclosure topic. Additionally, the SASB renamed the topic Manufacturing & Supply Chain Quality Management to Supply Chain Management.

Revision HC-BP:15 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Corruption & Bribery

**Summary of Change – Revise Topic Name:**

The SASB has renamed the provisional topic, Corruption & Bribery to Business Ethics.

Revision HC-BP:16 – **Industry:** Biotechnology & Pharmaceuticals; **Topic Name:** Corruption & Bribery

**2017 Technical Agenda Item #1-5 Description**

SASB is evaluating a revision of metrics HC0101-27 and HC0102-27[^4] to ensure the comparability of the metrics associated with the topic.

[^4]: HC0101-27 / HC0102-27 Description of legal and regulatory fines and settlements associated with bribery, corruption, or other unethical business practices, including violations of the Foreign Corrupt Practices Act and those associated with providing kickbacks to physicians. Dollar amount of fines and settlements and a description of corrective actions implemented in response to events.
Summary of Change – Revise Metrics

The SASB has revised provisional metrics HC0101-27 and HC0102-27 from:

Description of legal and regulatory fines and settlements associated with corruption or bribery, including Foreign Corrupt Practices Act and False Claims Act violations

Dollar amount of fines and settlements and a description of corrective actions implemented in response to events

to the following:

Total amount of monetary losses as a result of legal proceedings associated with corruption and bribery

Revision HC-MS:01 – Industry: Medical Equipment & Supplies; Topic Name: Activity Metric

2017 Technical Agenda Item #1-10 Description

SASB is evaluating adding activity metrics to the Medical Equipment & Supplies industry standard.

Summary of Change – Add Activity Metrics

The SASB has added the following activity metric to the Medical Equipment & Supplies industry standard: "Number of units sold by product category."

Revision HC-MS:02 – Industry: Medical Equipment & Supplies; Topic Name: Energy, Water & Waste Efficiency

2017 Technical Agenda Item #1-8 Description

SASB is evaluating the removal of the topic, including the corresponding metrics, based on the limited evidence that performance on the topic will significantly impact valuation.

Summary of Change – Remove Topic

The SASB removed the topic, Energy, Water & Waste Efficiency, from the Medical Equipment & Supplies industry standard, including its corresponding metrics:

- Total annual energy consumed (gigajoules) and percentage renewable (e.g., wind, biomass, solar)
- Total water withdrawals and percentage from water-stressed regions—High or Extremely High Baseline Water Stress as defined by the Water Risk Atlas; percentage of process water recycled
- Amount of waste (metric tons); percentage that is recycled, incinerated, and landfilled
Revision HC-MS:03 – **Industry:** Medical Equipment & Supplies; **Topic Name:** Affordability & Fair Pricing

**Summary of Change – Revise Topic Name:**

The SASB has renamed the provisional topic, Affordability & Fair Pricing to Affordability & Pricing.

Revision HC-MS:04 – **Industry:** Medical Equipment & Supplies; **Topic Name:** Product Safety

**Summary of Change – Revise Metric**

The SASB revised provisional metric HC0201-01 from:

- List of products recalled

to the following:

- Number of recalls issued, total units recalled

Revision HC-MS:05 – **Industry:** Medical Equipment & Supplies; **Topic Name:** Ethical Marketing

**2017 Technical Agenda Item #1-7 Description**

SASB is evaluating a revision of metric HC0201-04 to ensure the comparability of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised provisional metric HC0201-04 from:

- Description of legal and regulatory fines and settlements associated with false marketing claims, including Federal Food, Drug, and Cosmetic Act violations for off-label marketing prosecuted under the False Claims Act

and Dollar amount of fines and settlements and a description of corrective actions implemented in response to events

to the following:

- Total amount of monetary losses as a result of legal proceedings associated with false marketing claims

---

5 HC0201-04: Description of legal and regulatory fines and settlements associated with false marketing claims, including Federal Food, Drug, and Cosmetic Act violations for off-label marketing prosecuted under the False Claims Act. Dollar amount of fines and settlements and a description of corrective actions implemented in response to events.
Revision HC-MS:06 – **Industry**: Medical Equipment & Supplies; **Topic Name**: Manufacturing & Supply Chain Management

**Summary of Change – Revise Topic Name and Move Metric:**

The SASB moved metric “HC0201-15 Number and type of FDA enforcement actions taken in response to violations of current good manufacturing practices (cGMP) including: product deemed adulterated, form 483s, suggested recall (Class I, II, III), Warning Letters, Border Alerts, license suspension or revocation, product seizure, Consent Decrees, criminal prosecution” from the Manufacturing & Supply Chain Quality Management to the Product Safety disclosure topic. Additionally, the SASB renamed the Manufacturing & Supply Chain Quality Management topic to Supply Chain Management.

Revision HC-MS:07 – **Industry**: Medical Equipment & Supplies; **Topic Name**: Manufacturing & Supply Chain Management

**Summary of Change – Revise Metric**

The SASB revised provisional metric HC0201-01 from:

- Discussion of any existing or projected risks or constraints with obtaining raw materials (or components) within the supply chain, including those related to restricted/limited availability, political situations, local labor conditions, natural disasters, climate change, or regulations:

...to the following:

- Description of the management of risks associated with the use of critical materials

Revision HC-MS:08 – **Industry**: Medical Equipment & Supplies; **Topic Name**: Corruption & Bribery

**Summary of Change – Revise Topic Name:**

The SASB has renamed the provisional topic, Corruption & Bribery to Business Ethics.
Revision HC-MS:09 – **Industry:** Medical Equipment & Supplies; **Topic Name:** Corruption & Bribery

**2017 Technical Agenda Item #1-9 Description**

SASB is evaluating a revision of metric HC0201-13\(^6\) to ensure the comparability of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised provisional metric HC0201-13 from:

- Description of legal and regulatory fines and settlements associated with corruption or bribery, including Foreign Corrupt Practices Act and False Claims Act violations
- Dollar amount of fines and settlements and a description of corrective actions implemented in response to events

...to the following:

- Total amount of monetary losses as a result of legal proceedings associated with corruption and bribery

Revision HC-DI:01 – **Industry:** Health Care Distributors; **Topic Name:** Activity Metrics

**2017 Technical Agenda Item #1-21 Description**

SASB is evaluating adding activity metrics to the Health Care Distributors industry standard.

**Summary of Change – Add Activity Metrics**

The SASB added the following activity metrics to the Health Care Distributors industry standard:

- Number of pharmaceutical units sold by product category
- Number of medical devices sold by product category

---

\(^6\) HC0201-13: Description of legal and regulatory fines and settlements associated with corruption or bribery, including Foreign Corrupt Practices Act and False Claims Act violations. Dollar amount of fines and settlements and a description of corrective actions implemented in response to events.
Revision HC-DI:02 – **Industry:** Health Care Distributors; **Topic Name:** Fuel Efficiency

**Summary of Change – Revise Topic Name:**

The SASB has renamed the provisional topic, Fuel Efficiency to Fleet Fuel Management.

Revision HC-DI:03 – **Industry:** Health Care Distributors; **Topic Name:** Corruption & Bribery

**Summary of Change – Revise Topic Name:**

The SASB has renamed the provisional topic, Corruption & Bribery to Business Ethics.

Revision HC-DI:04 – **Industry:** Health Care Distributors; **Topic Name:** Corruption & Bribery

**2017 Technical Agenda Item #1-20 Description**

SASB is evaluating a revision of metric HC0302-11\(^7\) to ensure the comparability of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised provisional metric HC0302-11 from:

- Description of legal and regulatory fines and settlements associated with corruption or bribery, including Foreign Corrupt Practices Act and False Claims Act violations

- Dollar amount of fines and settlements and a description of corrective actions implemented in response to events

... to the following:

- Total amount of monetary losses as a result of legal proceedings associated with bribery, corruption, or other unethical business practices

---

\(^7\) HC0302-11: Description of legal and regulatory fines and settlements associated with corruption or bribery, including Foreign Corrupt Practices Act and False Claims Act violations. Dollar amount of fines and settlements and a description of corrective actions implemented in response to events.
Revision HC-MC:01 – **Industry:** Managed Care; **Topic Name:** Activity Metrics

**2017 Technical Agenda Item #1-23 Description**

SASB is evaluating adding activity metrics to the Managed Care industry standard.

**Summary of Change – Add Activity Metric**

The SASB added the following activity metric to the Managed Care industry standard: “Number of enrollees by plan type.”

Revision HC-MC:02 – **Industry:** Managed Care; **Topic Name:** Customer Privacy & Technology Standards

**2017 Technical Agenda Item #1-22 Description**

SASB is evaluating a revision of metric HC0303-13\(^8\) and HC0303-14\(^9\) to ensure the usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metrics**

The SASB revised metrics HC0303-13 and HC0303-14 from:

- Description of legal and regulatory fines and settlements related to HIPAA violations or The Health Information Technology for Economic and Clinical Health (HITECH) Act violations
- Dollar amount of fines and settlements and a description of corrective actions implemented in response to events
- Discussion of implementation of technology and management standards to maintain security, privacy, and availability of customer data. Number of breaches of customer data security, including the number of HIPPA-mandated breach notifications to the following, respectively:
  - Description of policies and practices to secure customers’ protected health information (PHI) records and other personally identifiable information (PII)

---

\(^8\) HC0303-13: Description of legal and regulatory fines and settlements related to Health Insurance Portability and Accountability Act of 1996 (HIPAA) Privacy and Security Rules violations or The Health Information Technology for Economic and Clinical Health (HITECH) Act violations. Dollar amount of fines and settlements and a description of corrective actions implemented in response to events.

\(^9\) HC0303-14: Discussion of implementation of technology and management standards to maintain security, privacy, and availability of customer data. Number of breaches of customer data security, including the number of HIPPA-mandated breach notifications.
Number of data breaches, percentage involving customers’ (1) personally identifiable information (PII) only and (2) protected health information (PHI), number of customers affected in each category

Total amount of monetary losses as a result of legal proceedings associated with data security and privacy

Revision HC-MC:03 – **Industry:** Managed Care; **Topic Name:** Pricing Transparency & Plan Literacy

**Summary of Change – Remove Disclosure Topic**

The SASB removed the Pricing Transparency & Plan Literacy disclosure topic and the associated metrics HC0303-11 and HC0303-12 from the Managed Care industry standard:

- Description of policies and practices related to clarity in pricing and coverage, including health care literacy programs.
- JD Power & Associates members’ rating on “Information and Communication.”

Revision HC-DR:01 – **Industry:** Drug Retailers; **Topic Name:** Patient Health Outcomes

**Summary of Change – Remove Metric**

The SASB removed metric HC0304-10 from the Patient Health Outcomes disclosure topic:

- Percentage of gender and racial/ethnic group representation for pharmacists
Financials Sector

Commercial Banks
Investment Banking & Brokerage
Asset Management & Custody Activities
Consumer Finance
Mortgage Finance
Security & Commodity Exchanges
Insurance

Prepared by the
Sustainability Accounting Standards Board®
Revision FN-CB:01 – **Industry:** Commercial Banks; **Topic Name:** Customer Privacy & Data Security

2017 Technical Agenda Item #2-4 Description

SASB is evaluating revisions to the topic, including the corresponding metrics FN0101-06 and FN0101-07, due to its potential to affect corporate value, relevance across the industry, and level of investor interest.

**Summary of Change – Revise Topic Name and Revise Metric**

The SASB renamed the provisional disclosure topic from Customer Privacy & Data Security to Data Security, while retaining existent metrics FN0101-06 “Number of data security breaches and percentage involving customers’ personally identifiable information” (separately revised in the Revision FN-CB:02) and FN0101-07 “Discussion of management approach to identifying and addressing vulnerabilities and threats to data security”, with minor changes to the technical protocols to improve their internal alignment with other SASB Standards.

Further, the SASB revised metric FN0101-07 to “Description of approach to identifying and addressing data security risks” and revised the associated technical protocol to include the alignment of company data security policies with existing legal and regulatory frameworks related to data security in the scope of disclosure. The SASB additionally revised the technical protocol to include a discussion of company policies related to the timeliness of the disclosure of data security breaches to affected parties.

Revision FN-CB:02 – **Industry:** Commercial Banks; **Topic Name:** Customer Privacy & Data Security

2017 Technical Agenda Item #2-5 Description

SASB is evaluating the revision of metric FN0101-06 to ensure the relevance and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised provisional metric FN0101-06 from “Number of data security breaches and percentage involving customers’ personally identifiable information” to “Number of data breaches, percentage involving personally identifiable information (PII), number of account holders affected.”

---

10 FN0101-06: Number of data security breaches and percentage involving customers’ personally identifiable information
11 FN0101-07: Discussion of management approach to identifying and addressing vulnerabilities and threats to data security
12 FN0101-06: Number of data security breaches and percentage involving customers’ personally identifiable information
Revision FN-CB:03 – **Industry**: Commercial Banks; **Topic Name**: Financial Inclusion & Capacity Building

2017 Technical Agenda Item #2-1 Description

SASB is evaluating the revision of metric FN0101-01 to ensure the relevance, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB removed metric:

FN0101-01: Percentage of new accounts held by first-time account holders

and added metric:

Number of no-cost retail checking accounts provided to previously unbanked or underbanked customers

Note: Accounts that have contingencies such as the presence of a direct deposit, the minimum amount of funds transferred to or from the account, etc., have been excluded from disclosure as they are not relevant to the scope of the topic.

Revision FN-CB:04 – **Industry**: Commercial Banks; **Topic Name**: Financial Inclusion & Capacity Building

2017 Technical Agenda Item #2-2 Description

SASB is evaluating the revision of metrics FN0101-02 and FN0101-04 to ensure the alignment, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metrics**

The SASB removed metrics:

FN0101-02: Percentage of total domestic loans for underserved and underbanked business segments

FN0101-04: Loan-to-deposit ratio for: (1) Overall domestic lending (2) Underserved and underbanked business segments

and added metric:

13 FN0101-01: Percentage of new accounts held by first-time account holders

14 FN0101-02: Percentage of total domestic loans for underserved and underbanked business segments

15 FN0101-04: Loan-to-deposit ratio for: (1) Overall domestic lending (2) Underserved and underbanked business segments
Revision FN-CB:05 – **Industry:** Commercial Banks; **Topic Name:** Financial Inclusion & Capacity Building

2017 Technical Agenda Item #2-3 Description
SASB is evaluating the revision of metric FN0101-05\(^{16}\) to ensure the alignment, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metric**
The SASB has removed metric:

FN0101-05: Loan default rates for: (1) Overall domestic lending (2) Underserved and underbanked business segments

and replaced it with metric:

(1) Number and (2) amount of past due and nonaccrual loans qualified to programs designed to promote small business and community development

Revision FN-CB:06 – **Industry:** Commercial Banks; **Topic Name:** Integration of Environmental, Social, and Governance Risk Factors in Credit Risk Analysis

2017 Technical Agenda Item #2-10 Description
SASB is evaluating the removal of metric FN0101-17\(^{17}\) to ensure the relevance and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Remove Metric**
The SASB removed provisional metric FN0101-17, “Amount and percentage of lending and project finance that employs: (1) Integration of ESG factors (2) Sustainability themed lending or finance (3) Screening (exclusionary, inclusionary, or benchmarked) (4) Impact or community lending or finance.”

\(^{16}\) FN0101-05: Loan default rates for: (1) Overall domestic lending (2) Underserved and underbanked business segments

\(^{17}\) FN0101-17: Amount and percentage of lending and project finance that employs: (1) Integration of ESG factors (2) Sustainability themed lending or finance (3) Screening (exclusionary, inclusionary, or benchmarked) (4) Impact or community lending or finance
Revision FN-CB:07 – Industry: Commercial Banks; Topic Name: Integration of Environmental, Social, and Governance Risk Factors in Credit Risk Analysis

2017 Technical Agenda Item #2-11 Description

SASB is evaluating the revision of metric FN0101-18\textsuperscript{18} to ensure the relevance and decision-usefulness of the metrics associated with the topic.

Summary of Change – Revise Metric

The SASB revised provisional metric FN0101-18 from “Total loans to companies in the following sectors/industries: Energy/Oil & Gas, Materials/Basic Materials, Industrials, and Utilities” to “Commercial and industrial credit exposure, by industry.”

Revision FN-CB:08 – Industry: Commercial Banks; Topic Name: Integration of Environmental, Social, and Governance Risk Factors in Credit Risk Analysis

Summary of Change – Revise Metrics

The SASB replaced metrics:

- FN0101-15: Discussion of how environmental, social and governance (ESG) factors are integrated into the lending process

- FN0101-16: Discussion of credit risk to the loan portfolio presented by climate change, natural resource constraints, human rights concerns, or other broad sustainability trends

with metric

Description of approach to incorporation of environmental, social, and governance (ESG) factors in credit analysis

\textsuperscript{18} FN0101-18: Total loans to companies in the following sectors/industries: Energy/Oil & Gas, Materials/Basic Materials, Industrials, and Utilities
Revision FN-CB:09 – **Industry:** Commercial Banks; **Topic Name:** Management of the Legal & Regulatory Environment

2017 Technical Agenda Item #2-6 Description

SASB is evaluating the revision of metric FN0101-08\(^{19}\) to ensure the relevance and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Add Metric and Revise Metric**

The SASB split metric:

\[
\text{FN0101-08: Amount of legal and regulatory fines and settlements associated with financial industry regulation and percentage that resulted from whistleblowing actions}
\]

into its quantitative and qualitative components:

\[
\begin{align*}
\text{Total amount of monetary losses as a result of legal proceedings associated with fraud, insider trading, anti-trust, anti-competitive behavior, market manipulation, malpractice, or other related financial industry laws or regulations} \\
\text{Description of whistleblower policies and procedures}
\end{align*}
\]

Revision FN-CB:10 – **Industry:** Commercial Banks; **Topic Name:** Management of the Legal & Regulatory Environment

2017 Technical Agenda Item #2-7 Description

SASB is evaluating the revision of metric FN0101-09\(^{20}\) to ensure the relevance, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Remove Metric**

The SASB removed metric FN0101-09, “Number of inquiries, complaints, or issues received by the legal and compliance office through an internal monitoring or reporting system, and percentage that were substantiated.”

---

\(^{19}\) FN0101-08: Amount of legal and regulatory fines and settlements associated with financial industry regulation and percentage that resulted from whistleblowing actions

\(^{20}\) FN0101-09: Number of inquiries, complaints, or issues received by the legal and compliance office through an internal monitoring or reporting system, and percentage that were substantiated
Revision FN-CB:11 – **Industry:** Commercial Banks; **Topic Name:** Management of the Legal & Regulatory Environment

**Summary of Change – Revise Topic Name**

The SASB revised the provisional topic name from Management of the Legal & Regulatory Environment to Business Ethics.

Revision FN-CB:12 – **Industry:** Commercial Banks; **Topic Name:** Systemic Risk Management

**2017 Technical Agenda Item #2-8 Description**

SASB is evaluating the revision of metric FN0101-10\(^{(21)}\) to ensure the decision-usefulness and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised metric:

FN0101-10: Results of stress tests under adverse economic scenarios, including the following measures (actual and projection): (1) Loan losses (2) Losses, revenue, and net income before taxes (3) Tier 1 common capital ratio (4) Tier 1 capital ratio (5) Total risk-based capital ratio (6) Tier 1 leverage ratio

to metric:

Description of approach to incorporation of results of mandatory and voluntary stress tests into capital adequacy planning, long-term corporate strategy, and other business activities

---

\(^{(21)}\) FN0101-10: Results of stress tests under adverse economic scenarios, including the following measures (actual and projection): (1) Loan losses (2) Losses, revenue, and net income before taxes (3) Tier 1 common capital ratio (4) Tier 1 capital ratio (5) Total risk-based capital ratio (6) Tier 1 leverage ratio
Revision FN-CB:13 – **Industry**: Commercial Banks; **Topic Name**: Systemic Risk Management

2017 Technical Agenda Item #2-9 Description
SASB is evaluating the revision of metrics FN0101-11,22 FN0101-12,23 FN0101-13,24 and FN0101-1425 to ensure the alignment, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

Summary of Change – Revise Metrics
The SASB removed the following provisional metrics:

- FN0101-11: Basel III Liquidity Coverage Ratio (LCR)
- FN0101-12: Net exposure to written credit derivatives
- FN0101-13: Level 3 assets: (1) total value and (2) percentage of total assets
- FN0101-14: Skewness and kurtosis of trading revenue

and replacing them with a new metric:

Global Systemically Important Bank (G-SIB) score, by category

Revision FN-CB:14 – **Industry**: Commercial Banks; **Topic Name**: Activity Metrics

2017 Technical Agenda Item #2-12 Description
The SASB proposes to include activity metrics for the Commercial Banks industry.

Summary of Change – Add Activity Metrics
The SASB added the following activity metrics:

1. Number and (2) value of checking and savings accounts by segment: (a) personal and (b) small business
2. Number and (2) value of loans by segment: (a) personal, (b) small business, and (c) corporate

Note: Mortgage loans as well as revolving credit loans would be excluded from the scope of disclosure as they are addressed in the Mortgage Finance and Consumer Finance industries.

---

22 FN0101-11: Basel III Liquidity Coverage Ratio (LCR)
23 FN0101-12: Net exposure to written credit derivatives
24 FN0101-13: Level 3 assets: (1) total value and (2) percentage of total assets
25 FN0101-14: Skewness and kurtosis of trading revenue
Revision FN-IB:01 – **Industry:** Investment Banking & Brokerage; **Topic Name:** Employee Inclusion

**2017 Technical Agenda Item #2-15 Description**

SASB is evaluating the revision of metric FN0102-06 to ensure the alignment, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metric and Revise Topic Name**

The SASB revised metric FN0102-06 from “Percentage of gender and racial/ethnic group representation for: (1) executives and (2) all others” to “Percentage of gender and racial/ethnic group representation for (1) executive management, (2) non-executive management, (3) professionals, and (4) all other employees.”

Note: For integrated banks, the guidance is to report employees of the investment banking segment. If the company is also involved in asset/wealth management, where the same metric is included, disclosure should include reporting by segment rather than aggregated at the corporate level.

Additionally, the SASB revised the topic name from Employee Inclusion to Employee Diversity & Inclusion to improve its representativeness of the associated metric and measured performance.

Revision FN-IB:02 – **Industry:** Investment Banking & Brokerage; **Topic Name:** Integration of Environmental, Social, and Governance Risk Factors in Advisory, Underwriting, and Brokerage Activities

**2017 Technical Agenda Item #2-22 Description**

SASB is evaluating the suitability of the topic name.

**Summary of Change – Revise Topic Name**

The SASB revised the provisional topic name Integration of Environmental, Social, and Governance Risk Factors in Advisory, Underwriting, and Brokerage Activities to Incorporation of Environmental, Social, and Governance Factors in Investment Banking & Brokerage Activities.

---

26 FN0102-06: Percentage of gender and racial/ethnic group representation for: (1) executives and (2) all others
Revision FN-IB:03 – **Industry**: Investment Banking & Brokerage; **Topic Name**: Integration of Environmental, Social and Governance Risk Factors in Advisory, Underwriting, and Brokerage Activities

**2017 Technical Agenda Item #2-23 Description**

SASB is evaluating the revision of metrics FN0102-16\(^{27}\) and FN0102-17\(^{28}\) to ensure the relevance, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metrics**

The SASB removed the following provisional metrics:

- FN0102-16: Amount of sustainability-focused services, activities, and products, broken down by: (1) origination, (2) market making, and (3) advisory and underwriting
- FN0102-17: Deal size of advisory and underwriting transactions for companies in the following sectors/industries: Energy/Oil & Gas, Materials/Basic Materials, Industrials, and Utilities

and added a new metric:

- Revenue from (1) underwriting, (2) advisory, and (3) securitization transactions incorporating integration of environmental, social, and governance (ESG) factors, by industry

Revision FN-IB:04 – **Industry**: Investment Banking & Brokerage; **Topic Name**: Integration of Environmental, Social, and Governance Risk Factors in Advisory, Underwriting, and Brokerage Activities

**2017 Technical Agenda Item #2-24 Description**

SASB is evaluating the addition of a metric to ensure the relevance and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Add Metric**

The SASB added a metric: “(1) Number and (2) total value of investments and loans incorporating integration of environmental, social, and governance (ESG) factors, by industry.”

---

\(^{27}\) FN0102-16: Amount of sustainability-focused services, activities, and products, broken down by: (1) origination, (2) market making, and (3) advisory and underwriting

\(^{28}\) FN0102-17: Deal size of advisory and underwriting transactions for companies in the following sectors/industries: Energy/Oil & Gas, Materials/Basic Materials, Industrials, and Utilities
Revision FN-IB:05 – **Industry**: Investment Banking & Brokerage; **Topic Name**: Integration of Environmental, Social and Governance Risk Factors in Advisory, Underwriting, and Brokerage Activities

**Summary of Change – Revise Metric**

The SASB revised metric FN0102-15, “Discussion of how environmental, social, and governance (ESG) factors are incorporated into core products and services” to “Description of approach to incorporation of Environmental, Social, and Governance (ESG) factors in investment banking and brokerage activities.”

Revision FN-IB:06 – **Industry**: Investment Banking & Brokerage; **Topic Name**: Management of the Legal & Regulatory Environment

**2017 Technical Agenda Item #2-16 Description**

SASB is evaluating the revision of metric FN0102-07 to ensure the relevance and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Add Metric and Revise Metric**

The SASB split metric:

-FN0102-07: Amount of legal and regulatory fines and settlements associated with financial industry regulation and percentage that resulted from whistleblowing actions

into its quantitative and qualitative components:

Total amount of monetary losses as a result of legal proceedings associated with fraud, insider trading, anti-trust, anti-competitive behavior, market manipulation, malpractice, or other related financial industry laws or regulations

with a new metric subsequently created to capture whistleblower policies:

Description of whistleblower policies and procedures

---

29 FN0102-07: Amount of legal and regulatory fines and settlements associated with financial industry regulation and percentage that resulted from whistleblowing actions
Revision FN-IB:07 – **Industry**: Investment Banking & Brokerage; **Topic Name**: Management of the Legal & Regulatory Environment

2017 Technical Agenda Item #2-17 Description

SASB is evaluating the revision of metric FN0102-08\(^{30}\) to ensure the relevance and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Remove Metric**

The SASB removed provisional metric FN0102-08, “Number of inquiries, complaints, or issues received by the legal and compliance office through an internal monitoring or reporting system, and percentage that were substantiated.”

Revision FN-IB:08 – **Industry**: Investment Banking & Brokerage; **Topic Name**: Management of the Legal & Regulatory Environment

2017 Technical Agenda Item #2-18 Description

SASB is evaluating the removal of metric FN0102-09\(^{31}\) to ensure the relevance and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Remove Metric**

The SASB removed provisional metric FN0102-09, “Number of conflicts of interest disclosed to clients, customers, and/or counterparties.”

Revision FN-IB:09 – **Industry**: Investment Banking & Brokerage; **Topic Name**: Management of the Legal & Regulatory Environment

**Summary of Change – Revise Topic Name**

The SASB revised the provisional topic name from Management of the Legal & Regulatory Environment to Business Ethics.

---

\(^{30}\) FN0102-08: Number of inquiries, complaints, or issues received by the legal and compliance office through an internal monitoring or reporting system, and percentage that were substantiated

\(^{31}\) FN0102-09: Number of conflicts of interest disclosed to clients, customers, and/or counterparties
Revision FN-IB:10 – *Industry*: Investment Banking & Brokerage; *Topic Name*: Professional Integrity

2017 Technical Agenda Item #2-19 Description

SASB is evaluating the addition of the topic, including corresponding metrics, based on investor interest and its potential to affect corporate value.

Summary of Change – Add Topic

The SASB added the disclosure topic Professional Integrity, including the corresponding metrics:

1. Number and (2) percentage of covered employees with record of investment-related investigations, consumer-initiated complaints, private civil litigations, or other regulatory proceedings
2. Number of mediation and arbitration cases associated with professional integrity and duty of care
3. Total amount of monetary losses as a result of legal proceedings associated with professional integrity and duty of care
4. Description of approach to assuring professional integrity and duty of care


2017 Technical Agenda Item #2-20 Description

SASB is evaluating the revision of metric FN0102-10 to ensure the decision-usefulness and cost-effectiveness of the metrics associated with the topic.

Summary of Change – Revise Metrics

The SASB revised metric:

**FN0102-10: Results of stress tests under adverse economic scenarios, including the following measures (actual and projection):**

1. Loan losses
2. Losses, revenue, and net income before taxes
3. Tier 1 common capital ratio
4. Tier 1 capital ratio
5. Total risk-based capital ratio
6. Tier 1 leverage ratio

**to metric:**

---

32 FN0102-10: Results of stress tests under adverse economic scenarios, including the following measures (actual and projection):
(1) Loan losses (2) Losses, revenue, and net income before taxes (3) Tier 1 common capital ratio (4) Tier 1 capital ratio (5) Total risk-based capital ratio (6) Tier 1 leverage ratio
Description of approach to incorporation of results of mandatory and voluntary stress tests into capital adequacy planning, long-term corporate strategy, and other business activities

Revision FN-IB:12 – Industry: Investment Banking & Brokerage; Topic Name: Systemic Risk Management

2017 Technical Agenda Item #2-21 Description
SASB is evaluating the revision of metrics FN0102-11,33 FN0102-12,34 FN0102-13,35 and FN0102-1436 to ensure the alignment, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

Summary of Change – Revise Metrics
The SASB removed the following provisional metrics:

FN0102-11: Basel III Liquidity Coverage Ratio (LCR)
FN0102-12: Net exposure to written credit derivatives
FN0102-13: Level 3 assets: (1) total value and (2) percentage of total assets
FN0102-14: Skewness and kurtosis of trading revenue

and replaced them with a new metric:

Global Systemically Important Bank (G-SiB) score, by category

Revision FN-IB:13 – Industry: Investment Banking & Brokerage; Topic Name: Employee Incentives & Risk Taking

2017 Technical Agenda Item #2-13 Description
SASB is evaluating the revision of metrics FN0102-01,37 FN0102-02,38 FN0102-0339, and FN0102-0440 to ensure the relevance, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

Summary of Change – Revise Metrics
The SASB removed the following provisional metrics:

FN0102-01: Discussion of variable compensation policies and practices
FN0102-03: Percentage of variable compensation that is equity for: (1) executives and (2) all others

---

33 FN0102-11: Basel III Liquidity Coverage Ratio (LCR)
34 FN0102-12: Net exposure to written credit derivatives
35 FN0102-13: Level 3 assets: (1) total value and (2) percentage of total assets
36 FN0102-14: Skewness and kurtosis of trading revenue
37 FN0102-01: Discussion of variable compensation policies and practices
38 FN0102-02: Percentage of total compensation that is variable for: (1) executives and (2) all others
39 FN0102-03: Percentage of variable compensation that is equity for: (1) executives and (2) all others
40 FN0102-04: Percentage of employee compensation which includes ex post adjustments for: (1) executives and (2) all others
The SASB also replaced the following provisional metrics:

- FN0102-02: Percentage of total compensation that is variable for: (1) executives and (2) all others
- FN0102-04: Percentage of employee compensation which includes ex post adjustments for: (1) executives and (2) all others

with the following metrics:

- Percentage of total remuneration that is variable for Material Risk Takers (MRTs)
- Percentage of variable remuneration of Material Risk Takers (MRTs) to which malus or clawback provisions were applied

Revision FN-IB:14 – **Industry:** Investment Banking & Brokerage; **Topic Name:** Employee Incentives & Risk Taking

### 2017 Technical Agenda Item #2-14 Description

SASB is evaluating the revision of metric FN0102-05 to ensure the relevance, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

### Summary of Change – Revise Metrics

The SASB revised provisional metric FN0102-05 from “Number of instances when risk limits were breached and number and percentage by response: (1) position reduced, (2) risk limit temporarily increased, (3) risk limit permanently increased, (4) other” to “Discussion of the company’s policies around supervision, control, and validation of traders’ pricing of Level 3 assets and liabilities.”

Note: The new metric additionally asks companies to discuss incentive-based compensation of employees responsible for pricing of Level 3 assets and liabilities.

Revision FN-IB:15 – **Industry:** Investment Banking & Brokerage; **Topic Name:** Activity Metrics

### 2017 Technical Agenda Item #2-25 Description

The SASB proposes to include activity metrics for the Investment Banking & Brokerage industry.

### Summary of Change – Add Activity Metrics

The SASB added the following activity metrics:

- (1) Number and (2) value of (a) underwriting, (b) advisory, and (c) securitization transactions
- (1) Number and (2) value of proprietary investments and loans by sector

---

41 FN0102-05: Number of instances when risk limits were breached and number and percentage by response: (1) position reduced, (2) risk limit temporarily increased, (3) risk limit permanently increased, (4) other
Revision FN-AC:01 – **Industry:** Asset Management & Custody Activities; **Topic Name:** Transparent Information & Fair Advice for Customers

**2017 Technical Agenda Item #2-28 Description**

SASB is evaluating the addition of a metric to ensure the relevance and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Add Metric**

The SASB added a new metric, “(1) Number and (2) percentage of covered employees with a record of investment-related investigations, consumer-initiated complaints, private civil litigations, or other regulatory proceedings.”

Revision FN-AC:02 – **Industry:** Asset Management & Custody Activities; **Topic Name:** Transparent Information & Fair Advice for Customers

**2017 Technical Agenda Item #2-29 Description**

SASB is evaluating the revision of metric FN0103-07 to ensure the relevance and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised provisional metric FN0103-07 to require the discussion of procedures and programs intended to provide adequate and transparent information to customers, including how representatives’ compensation structures are linked to sales of investment products and services.

Revision FN-AC:03 – **Industry:** Asset Management & Custody Activities; **Topic Name:** Employee Inclusion

**2017 Technical Agenda Item #2-27 Description**

SASB is evaluating the revision of metric FN0103-05 to ensure the decision-usefulness of the metrics associated with the topic.

---

42 FN0103-07: Description of procedure or programs to provide adequate, clear, and transparent information about products and services, including risks, suitability, and conflicts of interest

43 FN0103-05: Percentage of gender and racial/ethnic group representation for: (1) executives and (2) all others
Summary of Change – Revise Metric and Revise Topic Name

The SASB revised provisional metric FN0103-05 from “Percentage of gender and racial/ethnic group representation for: (1) executives and (2) all others” to “Percentage of gender and racial/ethnic group representation for (1) executive management, (2) non-executive management, (3) professionals, and (4) all other employees.”

Note: For integrated banks, the guidance would be to report employees of the asset management segment. If the company is also involved in asset/wealth management, where the same metric is included, disclosure should include reporting by segment, not aggregated at the corporate level.

Additionally, the SASB has revised the topic name from Employee Inclusion to Employee Diversity & Inclusion to improve its representativeness of the associated metric and measured performance.

Revision FN-AC:04 – Industry: Asset Management & Custody Activities; Topic Name: Integration of Environmental, Social, and Governance Risk Factors in Investment Management & Advisory

2017 Technical Agenda Item #2-34 Description

SASB is evaluating the revision of metric FN0103-1744 to ensure the decision-usefulness and cost-effectiveness of the metrics associated with the topic.

Summary of Change – Revise Metric

The SASB replaced metric:

FN0103-17: Percentage of total proxies voted, and number of proxy votes supporting environmental, social, and/or governance (ESG) shareholder proposals, including percentage resulting in company action

with metric:

Description of proxy voting and investee engagement policies and procedures

44 FN0103-17: Percentage of total proxies voted, and number of proxy votes supporting environmental, social, and/or governance (ESG) shareholder proposals, including percentage resulting in company action
Revision FN-AC:05 – **Industry**: Asset Management & Custody Activities; **Topic Name**: Integration of Environmental, Social, and Governance Risk Factors in Investment Management & Advisory

**2017 Technical Agenda Item #2-35 Description**

SASB is evaluating the removal of metric FN0103-18 to ensure the relevance and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Remove Metric**

The SASB removed metric FN0103-18, “Ratio of embedded carbon dioxide emissions of proved hydrocarbon reserves held by investees to total assets under management.”

Revision FN-AC:06 – **Industry**: Asset Management & Custody Activities; **Topic Name**: Integration of Environmental, Social, and Governance Risk Factors in Investment Management & Advisory

**Summary of Change – Revise Metric**

The SASB revised metric FN0103-15, “Discussion of how environmental, social, and governance (ESG) factors are integrated into investment analysis and decisions and of how this integration intersects with fiduciary duties” to “Description of approach to incorporation of environmental, social, and governance (ESG) factors in investment and/or wealth management processes and strategies.”

Revision FN-AC:07 – **Industry**: Asset Management & Custody Activities; **Topic Name**: Management of the Legal & Regulatory Environment

**2017 Technical Agenda Item #2-30 Description**

SASB is evaluating the revision of metric FN0103-08 to ensure the relevance and decision-usefulness of the metrics associated with the topic.

---

45 FN0103-18: Ratio of embedded carbon dioxide emissions of proved hydrocarbon reserves held by investees to total assets under management

46 FN0103-08: Amount of legal and regulatory fines and settlements associated with financial industry regulation and percentage that resulted from whistleblowing actions
Summary of Change – Add Metric and Revise Metric

The SASB split metric:

FN0103-08: Amount of legal and regulatory fines and settlements associated with financial industry regulation and percentage that resulted from whistleblowing actions

into its quantitative and qualitative components:

FN0103-08: Total amount of monetary losses as a result of legal proceedings associated with fraud, insider trading, anti-trust, anti-competitive behavior, market manipulation, malpractice, or other related financial industry laws or regulations

with a new metric subsequently created to capture whistleblower policies:

Description of the whistleblower policies and procedures

Revision FN-AC:08 – Industry: Asset Management & Custody Activities; Topic Name: Management of the Legal & Regulatory Environment

Summary of Change – Remove Metric

The SASB removed metric FN0103-09, “Number of inquiries, complaints, or issues received by the legal and compliance office through an internal monitoring or reporting system, and percentage that were substantiated.”

Revision FN-AC:09 – Industry: Asset Management & Custody Activities; Topic Name: Management of the Legal & Regulatory Environment

Summary of Change – Revise Topic Name

The SASB revised the provisional topic name from “Management of the Legal & Regulatory Environment” to “Business Ethics.”

---

FN0103-09: Number of inquiries, complaints, or issues received by the legal and compliance office through an internal monitoring or reporting system, and percentage that were substantiated
Revision FN-AC:10 – **Industry:** Asset Management & Custody Activities; **Topic Name:** Systemic Risk Management

**2017 Technical Agenda Item #2-32 Description**

SASB is evaluating the revision of metrics FN0103-10, FN0103-13,48 and FN0103-1450 to ensure the alignment, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metrics**

The SASB replaced the following provisional metrics:

- FN0103-10: (1) Registered and (2) unregistered assets under management
- FN0103-13: (1) Tier 1 common capital ratio (2) Tier 1 capital ratio (3) Total risk-based capital ratio (4) Tier 1 leverage ratio
- FN0103-14: Basel III Liquidity Coverage Ratio (LCR)

with the following new metrics:

- Percentage of open-end fund assets under management by category of liquidity classification
- Description of approach to incorporation of liquidity risk management programs into portfolio strategy and redemption risk management

Revision FN-AC:11 – **Industry:** Asset Management & Custody Activities; **Topic Name:** Systemic Risk Management

**2017 Technical Agenda Item #2-33 Description**

SASB is evaluating the revision of metric FN0103-1151 to ensure the alignment and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB replaced provisional metric FN0103-11, “Value of collateral received from securities lending and amount received from repurchase agreements involving clients’ assets” with “Total exposure to securities financing transactions.”

---

48 FN0103-10: (1) Registered and (2) unregistered assets under management
49 FN0103-13: (1) Tier 1 common capital ratio (2) Tier 1 capital ratio (3) Total risk-based capital ratio (4) Tier 1 leverage ratio
50 FN0103-14: Basel III Liquidity Coverage Ratio (LCR)
51 FN0103-11: Value of collateral received from securities lending and amount received from repurchase agreements involving clients’ assets
Revision FN-AC:12 – **Industry**: Asset Management & Custody Activities; **Topic Name**: Employee Incentives & Risk Taking

**2017 Technical Agenda Item #2-26 Description**

SASB is evaluating the removal of the topic, including the corresponding metrics FN0103-01, FN0103-02, FN0103-03, and FN0103-04 based on investor interest and its potential to affect corporate value.

**Summary of Change – Remove Topic and Metrics**

The SASB removed the topic Employee Incentives & Risk Taking, including the corresponding metrics:

- FN0103-01: Discussion of variable compensation policies and practices
- FN0103-02: Percentage of total compensation that is variable for: (1) executives and (2) all others
- FN0103-03: Percentage of variable compensation that is equity for: (1) executives and (2) all others
- FN0103-04: Percentage of employee compensation which includes ex-post adjustments for: (1) executives and (2) all others

Revision FN-AC:13 – **Industry**: Asset Management & Custody Activities; **Topic Name**: Activity Metrics

**2017 Technical Agenda Item #2-36 Description**

SASB proposes to include activity metrics for the Asset Management & Custody Activities industry.

**Summary of Change – Add Activity Metrics**

The SASB added the following activity metrics: “Total (1) registered and (2) unregistered assets under management (AUM)” and “Total assets under custody and supervision.”

---

52 FN0103-01: Discussion of variable compensation policies and practices
53 FN0103-02: Percentage of total compensation that is variable for: (1) executives and (2) all others
54 FN0103-03: Percentage of variable compensation that is equity for: (1) executives and (2) all others
55 FN0103-04: Percentage of employee compensation which includes ex-post adjustments for: (1) executives and (2) all others
Revision FN-CF:01 – **Industry:** Consumer Finance; **Topic Name:** Customer Privacy & Data Security

**2017 Technical Agenda Item #2-38 Description**

SASB is evaluating revisions to the topic, including the corresponding metrics FN0201-03, FN0201-04, and FN0201-05 due to its potential to affect corporate value, relevance across the industry, and interest among investors.

**Summary of Change – Revise Topic, Add and Revise Metrics**

The SASB split the provisional disclosure topic “Customer Privacy & Data Security” into two separate topics -- “Customer Privacy” and “Data Security.”

For the Customer Privacy topic, the SASB added two new metrics:

- Number of account holders whose information is used for secondary purposes
- Total amount of monetary losses as a result of legal proceedings associated with customer privacy

For the Data Security topic, the SASB revised the provisional metrics per the following:

- Provisional metric FN0201-03: “Number of data security breaches and percentage involving customers’ personally identifiable information” to “Number of data breaches, percentage involving personally identifiable information (PII), number of account holders affected”
- Provisional metric FN0201-04: “Amount of fraudulent transaction activity, percentage from: (1) card-not-present fraud and (2) card-present and other fraud” to “Card-related fraud losses from (1) card-not-present fraud and (2) card-present and other fraud”
- Provisional metric FN0201-05: “Description of data security and fraud prevention efforts related to new and emerging technologies and/or new and emerging threats” to “Description of approach to identifying and addressing data security risks”

---

56 FN0201-03: Number of data security breaches and percentage involving customers’ personally identifiable information
57 FN0201-04: Amount of fraudulent transaction activity, percentage from: (1) card-not-present fraud and (2) card-present and other fraud
58 FN0201-05: Description of data security and fraud prevention efforts related to new and emerging technologies and/or new and emerging threats
59 See Revision FN-CF:02 which discusses the revision of the Provisional metric FN0201-03: “Number of data security breaches and percentage involving customers’ personally identifiable information” to “Number of data breaches, percentage involving personally identifiable information (PII), number of account holders affected
Revision FN-CF:02 – **Industry**: Consumer Finance; **Topic Name**: Customer Privacy & Data Security

2017 Technical Agenda Item #2-39 Description
SASB is evaluating the revision of metric FN0201-03 to ensure the decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metric**
The SASB revised provisional metric FN0201-03 from “Number of data security breaches and percentage involving customers’ personally identifiable information” to “Number of data breaches, percentage involving personally identifiable information (PII), number of account holders affected.”

Revision FN-CF:03 – **Industry**: Consumer Finance; **Topic Name**: Financial Inclusion

2017 Technical Agenda Item #2-37 Description
SASB is evaluating the removal of the topic, including corresponding metrics, due to its potential to affect corporate value, relevance across the industry, and interest among investors.

**Summary of Change – Remove Topic and Metrics**
The SASB removed the provisional topic Financial Inclusion, along with its associated metrics:

- FN0201-01: Revenue from credit and debit products targeting unbanked and underbanked segments
- FN0201-02: Percentage of new accounts held by first-time credit card holders

Revision FN-CF:04 – **Industry**: Consumer Finance; **Topic Name**: Transparent Information & Fair Advice for Customers / Responsible Lending & Debt Prevention

2017 Technical Agenda Item #2-40 Description
SASB is evaluating revisions to the topics, including the corresponding metrics, due to their potential to affect corporate value, relevance across the industry, and interest among investors.

**Summary of Change – Revise Topic and Associated Metrics**
The SASB merged the topics Transparent Information & Fair Advice for Customers and Responsible Lending & Debt Prevention into a single disclosure topic called Selling Practices. The underlying metrics are listed below.

---

FN0201-03: Number of data security breaches and percentage involving customers’ personally identifiable information
Transparent Information & Fair Advice for Customers:

FN0201-06: Amount of legal and regulatory fines and settlements associated with disclosure, transparency, or marketing
FN0201-07: Payout ratio for add-on products

Responsible Lending & Debt Prevention:

FN0201-08: For customers with FICO scores above and below 640 (subprime): (1) average customer debt (2) average APR (3) mean and median age of accounts (4) average monthly full payment rate
FN0201-09: Percentage of applications accepted for applicants with FICO scores above and below 640 (subprime)
FN0201-10: Average annual fees per account for pre-paid transaction products

Within the new topic Selling Practices, the SASB revised several of the provisional metrics included in the topics being merged:

The SASB revised metric:

FN0201-06: Amount of legal and regulatory fines and settlements associated with disclosure, transparency, or marketing
to the following metric:

Total amount of monetary losses as a result of legal proceedings associated with selling and servicing of products

The SASB revised metric:

FN0201-08: For customers with FICO scores above and below 640 (subprime): (1) average customer debt (2) average APR (3) mean and median age of accounts (4) average monthly full payment rate
to the following metric:

(1) Average fees from add-on products, (2) average APR, (3) average age of accounts, (4) average number of trade lines, and (5) average annual fees for pre-paid products, for customers with FICO scores above and below 660

Additionally, the SASB revised metric:

FN0201-09: Percentage of applications accepted for applicants with FICO scores above and below 640 (subprime)
to the following metric:
Approval rate for (1) credit and (2) pre-paid products for applicants with FICO scores above and below 660

To capture performance on all the applicable aspects of the new Selling Practices topic, the SASB added two new metrics:

- Percentage of total remuneration for covered employees that is variable and linked to the amount of products and services sold
- (1) Number of complaints filed with the Consumer Financial Protection Bureau (CFPB), (2) percentage with monetary or non-monetary relief, (3) percentage disputed by consumer, (4) percentage resulted in investigation by the CFPB

Revision FN-CF:05 – **Industry:** Consumer Finance; **Topic Name:** Activity Metrics

2017 Technical Agenda Item #2-41 Description
SASB proposes to include activity metrics for the Consumer Finance industry.

Summary of Change – Add Activity Metrics
The SASB added the following activity metrics:

- Number of unique consumers with an active (1) credit card account and (2) pre-paid debit card account
- Number of (1) credit card accounts and (2) pre-paid debit card accounts

Revision FN-MF:01 – **Industry:** Mortgage Finance; **Topic Name:** Transparent Information & Fair Advice for Customers / Responsible Lending & Debt Prevention

2017 Technical Agenda Item #2-43 Description
SASB is evaluating revisions to the topics, including the corresponding metrics, due to their potential to affect corporate value, relevance across the industry, and interest among investors.

Summary of Change – Revise Topics and Associated Metrics
The SASB merged two topics, Transparent Information & Fair Advice for Customer and Responsible Lending & Debt Prevention, into a single disclosure topic called Lending Practices. The underlying metrics for each provisional disclosure topic are listed below.

Transparent Information & Fair Advice for Customers:

- FN0202-04: Description of variable compensation structure of loan originators
FN0202-05: Number and value of mortgages issued to minorities
FN0202-06: Number and value of mortgages provided to low or moderate-income individuals/families
FN0202-07: Amount of fines and settlements associated with violation of the mortgage industry provisions of Regulation Z (Truth in Lending Act) relating to communications to customers

Responsible Lending & Debt Prevention:

FN0202-08: Number and value of Qualified Mortgages (QMs), by minority status and income classification
FN0202-09: Number and value of mortgages of the following types: (1) Hybrid or Option ARM, (2) Prepayment Penalty, (3) Higher Rate; overall, by minority status, and by income classification
FN0202-10: Ratio of amount of first mortgage principal reduction to amount of foreclosed mortgages
FN0202-11: Number of (1) modifications, (2) foreclosures, (3) short sales or deeds in lieu of foreclosure, and (4) total mortgages
FN0202-12: Foreclosure rate by segment: subprime, non-subprime jumbo, non-subprime conventional, and nonconventional

Additionally, SASB executed the following changes to the metrics of the newly formed Lending Practices topic:

Revised metric FN0202-04 from “Description of variable compensation structure of loan originators” to “Description of remuneration structure of loan originators”
Revised metric FN0202-07 from “Amount of fines and settlements associated with violation of the mortgage industry provisions of Regulation Z (Truth in Lending Act) relating to communications to customers” to “Total amount of monetary losses as a result of legal proceedings associated with communications to customers or remuneration of loan originators”
Revised metric FN0202-09 from “Number and value of mortgages of the following types: (1) Hybrid or Option ARM, (2) Prepayment Penalty, (3) Higher Rate; overall, by minority status, and by income classification” to “(1) Number and (2) value of residential mortgages of the following types: (a) Hybrid or Option ARM, (b) Prepayment Penalty, (c) Higher Rate, (d) Total, by FICO scores above and below 660”
Revised metric FN0202-11 from “Number of (1) modifications, (2) foreclosures, (3) short sales or deeds in lieu of foreclosure, and (4) total mortgages” to “(1) Number and (2) value of (a) residential mortgage modifications, (b) foreclosures, and (c) short sales or deeds in lieu of foreclosure, by FICO scores above and below 660”
Removed metric FN0202-05: Number and value of mortgages issued to minorities
Removed metric FN0202-06: Number and value of mortgages provided to low or moderate-income individuals/families
Removed metric FN0202-08: Number and value of Qualified Mortgages (QMs), by minority status and income classification
Removed metric FN0202-10: Ratio of amount of first mortgage principal reduction to amount of foreclosed mortgages
Removed metric FN0202-12: Foreclosure rate by segment: subprime, non-subprime jumbo, non-subprime conventional, and nonconventional
Revision FN-MF:02 – **Industry:** Mortgage Finance; **Topic Name:** Discriminatory Lending

2017 Technical Agenda Item #2-44 Description

SASB is evaluating the addition of the topic, including corresponding metrics, based on investor interest and its potential to affect corporate value.

**Summary of Change – Add Topic and Metrics**

The SASB added a disclosure topic, Discriminatory Lending, including the following corresponding metrics:

1. Number, 2. value, and 3. weighted average Loan-to-Value (LTV) ratio of mortgages issued to (a) minority and (b) all other borrowers, by FICO scores above and below 660
2. Total amount of monetary losses as a result of legal proceedings associated with discriminatory mortgage lending
3. Description of policies and procedures for ensuring nondiscriminatory mortgage origination

The last metric is a modification of provisional metric FN0202-05, “Number and value of mortgages issued to minorities” included in the Transparent Information & Fair Advice for Customers disclosure topic (see Revision FN-MF:01).

Revision FN-MF:03 – **Industry:** Mortgage Finance; **Topic Name:** Environmental Risk to Mortgaged Properties

2017 Technical Agenda Item #2-42 Description

SASB is evaluating the revision of metric FN0202-0161 to ensure the relevance, applicability, and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised provisional metric FN0202-01 from “Number and value of mortgage loans in Federal Emergency Management Agency (FEMA) special flood hazard areas” to “(1) Number and (2) value of mortgage loans in 100-year flood zones.”

---

FN0202-01: Number and value of mortgage loans in Federal Emergency Management Agency (FEMA) special flood hazard areas
Revision FN-MF:04 – **Industry:** Mortgage Finance; **Topic Name:** Management of the Legal & Regulatory Environment

**2017 Technical Agenda Item #2-45 Description**

The SASB is evaluating the removal of the topic, including corresponding metrics, due to its potential to affect corporate value, relevance across the industry, and interest among investors.

**Summary of Change – Remove Topic and Metrics**

The SASB removed the topic Management of the Legal & Regulatory Environment and its associated metric FN0202-13, “Amount of fines and settlements associated with mortgage industry regulations.”

Revision FN-MF:05 – **Industry:** Mortgage Finance; **Topic Name:** Activity Metrics

**2017 Technical Agenda Item #2-46 Description**

SASB proposes to include activity metrics for the Mortgage Finance industry.

**Summary of Change – Add Activity Metrics**

The SASB added the following activity metrics:

- (1) Number and (2) value of mortgages originated by category: (a) residential and (b) commercial
- (1) Number and (2) value of mortgages purchased by category: (a) residential and (b) commercial

Revision FN-EX:01 – **Industry:** Security & Commodity Exchanges; **Topic Name:** Managing Business Continuity & Technology Risks

**2017 Technical Agenda Item #2-47 Description**

SASB is evaluating the revision of metric FN0203-09\(^6\) to ensure the decision-usefulness of the metrics associated with the topic.

---

\(^6\) FN0203-09: Number of data security breaches and percentage involving customers’ personally identifiable information
Summary of Change – Revise Metric
The SASB revised provisional metric FN0203-09 from “Number of data security breaches and percentage involving customers’ personally identifiable information” to “Number of data breaches, percentage involving personally identifiable information (PII), number of customers affected.”

Revision FN-EX:02 – Industry: Security & Commodity Exchanges; Topic Name: Activity Metrics

2017 Technical Agenda Item #2-48 Description
SASB proposes to include activity metrics for the Security & Commodity Exchanges industry.

Summary of Change – Add Activity Metrics
The SASB added the following activity metrics:
- Average daily number of trades executed, by product or asset class
- Average daily volume traded, by product or asset class

Revision FN-IN:01 – Industry: Insurance; Topic Name: Plan Performance

2017 Technical Agenda Item #2-53 Description
SASB is evaluating revisions to the topic, including the corresponding metrics, due to its potential to affect corporate value, relevance across the industry, and level of investor interest.

Summary of Change – Revise Topic and Remove Metric
The SASB revised the topic name from “Plan Performance” to “Transparent Information & Fair Advice for Customers.”

Further, the SASB removed provisional metric FN0301-10, “Average number of days from reported claim to settlement of claim,” and added a new metric, “Total amount of monetary losses as a result of legal proceedings associated with marketing and communication of insurance product-related information to new and returning customers.”

In addition, the SASB updated provisional metric FN0301-11, “Description of efforts to provide information to new and returning customers in a clear and conspicuous manner” to “Description of approach to informing customers about products in a clear and transparent manner” with minor technical protocol changes to improve its structure.
Revision FN-IN:02 – **Industry:** Insurance; **Topic Name:** Plan Performance

**Summary of Change – Revise Metric**

The SASB revised the technical protocol of metric FN0301-08 “Complaints-to-claims ratio” to clarify that the scope of disclosure excludes complaints where the company was found to be in compliance and no action was required.

Revision FN-IN:03 – **Industry:** Insurance; **Topic Name:** Integration of Environmental, Social, and Governance Risk Factors in Investment Management

**2017 Technical Agenda Item #2-55 Description**

SASB is evaluating the addition of a metric to ensure the relevance, alignment, and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Add Metric**

The SASB added the following metric, “Total invested assets, by industry and asset class.”

Revision FN-IN:04 – **Industry:** Insurance; **Topic Name:** Integration of Environmental, Social, and Governance Risk Factors in Investment Management

**Summary of Change – Revise Metrics**

The SASB replaced metrics:

- FN0301-16: Discussion of how environmental, social and governance (ESG) factors are integrated into the lending process
- FN0301-17: Discussion of credit risk to the loan portfolio presented by climate change, natural resource constraints, human rights concerns, or other broad sustainability trends

with the following:

- Description of approach to incorporation of Environmental, Social, and Governance (ESG) factors in investment management processes and strategies
Revision FN-IN:05 – **Industry:** Insurance; **Topic Name:** Policies Designed to Incentivize Responsible Behavior

**2017 Technical Agenda Item #2-52 Description**

SASB is evaluating the revision of metric FN0301-06\(^{63}\) to ensure the relevance and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised the technical protocol associated with metric FN0301-06, “Discussion of products or product features that incentivize health, safety, and/or environmentally responsible actions or behaviors,” by removing the note that asked companies to disclose how incentives to improve the climate resiliency and resource efficiency of properties or vehicles are considered in policy pricing.

Revision FN-IN:06 – **Industry:** Insurance; **Topic Name:** Environmental Risk Exposure

**2017 Technical Agenda Item #2-49 Description**

SASB is evaluating the revision of metric FN0301-01\(^{64}\) to ensure the relevance, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised provisional metric FN0301-01 from “Probable Maximum Loss (PML) of insured products from weather-related natural catastrophes, by insurance segment, type of event, and type of risk insured” to “Probable Maximum Loss (PML) of insured products from weather-related natural catastrophes.” In addition, the technical protocol was updated to include a breakdown by the probability of occurrence for 1-in-50, 1-in-100, and 1-in-250-year return periods, a breakdown by geographic region, a breakdown by net and gross of reinsurance, and a note requiring insurance companies to discuss how climate change–related impacts are integrated in catastrophe modeling, scenario analysis, and calculation of PML.

---

\(^{63}\) FN0301-06: Discussion of products or product features that incentivize health, safety, and/or environmentally responsible actions or behaviors

\(^{64}\) FN0301-01: Probable Maximum Loss (PML) of insured products from weather-related natural catastrophes, by insurance segment, type of event, and type of risk insured
Revision FN-IN:07 – **Industry: Insurance; Topic Name: Environmental Risk Exposure**

**2017 Technical Agenda Item #2-50 Description**

SASB is evaluating the revision of metrics FN0301-02 and FN0301-05 to ensure the alignment and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metric and Remove Metric**

The SASB revised provisional metric FN0301-02 from “Total annual losses attributable to insurance payouts from (1) modeled natural catastrophes and (2) non-modeled natural catastrophes” to “Total amount of monetary losses attributable to insurance payouts from (1) modeled natural catastrophes and (2) non-modeled natural catastrophes, by type of event and geographic segment (net and gross of reinsurance).”

Additionally, the SASB removed metric FN0301-05, “Percentage of policies in which weather-related natural catastrophe risks have been mitigated through reinsurance and/or alternative risk transfer.”

Revision FN-IN:08 – **Industry: Insurance; Topic Name: Environmental Risk Exposure**

**2017 Technical Agenda Item #2-51 Description**

SASB is evaluating the revision of metric FN0301-03 to ensure the relevance and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB added a bullet point to the technical protocol of metric FN0301-03, “Description of how environmental risks are integrated into: (1) The underwriting process for individual contracts; (2) The management of firm-level risks and capital adequacy,” to ask companies to provide disclosure of how incentives to improve the climate resiliency of properties or vehicles are considered in the pricing of policies. The SASB further revised the metric title to read “Description of approach to incorporation of environmental risks into (1) the underwriting process for individual contracts and (2) the management of firm-level risks and capital adequacy.”

Additionally, the SASB revised the technical protocol of the metric to incorporate the discussion of time horizons over which the company assesses its exposure to climate-related impacts.

---

65 FN0301-02: Total annual losses attributable to insurance payouts from (1) modeled natural catastrophes and (2) non-modeled natural catastrophes

66 FN0301-05: Percentage of policies in which weather-related natural catastrophe risks have been mitigated through reinsurance and/or alternative risk transfer

67 FN0301-03: Description of how environmental risks are integrated into: (1) The underwriting process for individual contracts (2) The management of firm-level risks and capital adequacy
Revision FN-IN:09 – **Industry:** Insurance; **Topic Name:** Environmental Risk Exposure

**Summary of Change – Remove Metric**
The SASB removed metric FN0301-04, “List of markets, regions, and/or events for which the registrant declines to voluntarily write coverage for weather-related natural catastrophe risks”

Revision FN-IN:10 – **Industry:** Insurance; **Topic Name:** Systemic Risk Management

**2017 Technical Agenda Item #2-54 Description**
SASB is evaluating the revision of metrics FN0301-12, 68 FN0301-13, 69 FN0301-14, 70 and FN0301-15 71 to ensure the alignment, decision-usefulness, and cost-effectiveness of the metrics associated with the topic.

**Summary of Change – Revise Metrics**
The SASB removed the following provisional metrics:

- FN0301-12: Non-policyholder liabilities
- FN0301-13: (1) Notional amount of CDS protection sold, (2) notional amount of debt securities insured for financial guarantee, and (3) risk-in-force covered by mortgage guarantee insurance
- FN0301-14: Value of collateral received from securities lending and amount received from repurchase agreements
- FN0301-15: Amount of life and annuity liabilities that can be surrendered upon request: (1) Within three months without penalty (2) With penalties lower than 20 percent

and replaced them with the following new metrics:

- Exposure to derivative instruments by category: (1) Total Potential Exposure to Non-centrally Cleared Derivatives, (2) Total Fair Value of Acceptable Collateral posted with the Central Clearinghouse, and (3) Total Potential Exposure to Centrally Cleared Derivatives
- Fair value of securities lending collateral assets
- Description of approach to managing capital- and liquidity-related risks associated with systemic non-insurance activities

---

68 FN0301-12: Non-policyholder liabilities
69 FN0301-13: (1) Notional amount of CDS protection sold, (2) notional amount of debt securities insured for financial guarantee, and (3) risk-in-force covered by mortgage guarantee insurance
70 FN0301-14: Value of collateral received from securities lending and amount received from repurchase agreements
71 FN0301-15: Amount of life and annuity liabilities that can be surrendered upon request: (1) Within three months without penalty (2) With penalties lower than 20 percent
Revision FN-IN:11 – **Industry:** Insurance; **Topic Name:** Activity Metrics

**2017 Technical Agenda Item #2-56 Description**

SASB proposes to include activity metrics for the Insurance industry.

**Summary of Change – Add Activity Metric**

The SASB added the following activity metric, “Number of policies in force by segment: (1) property and casualty, (2) life, and (3) assumed reinsurance.”
Technology & Communications Sector

Electronic Manufacturing Services & Original Design Manufacturing

Software & IT Services

Hardware

Semiconductors

Telecommunication Services

Internet Media & Services

Prepared by the Sustainability Accounting Standards Board®
Revision TC-ES:01 – **Industry:** Electronic Manufacturing Services & Original Design Manufacturing; **Topic Name:** Water & Waste Management in Manufacturing

**Summary of Change – Split Topic**

The SASB split the provisional disclosure topic Water & Waste Management in Manufacturing into two separate topics, Water Management and Waste Management.

The following metric is associated with the Water Management topic:

- TC-ES-140a.1 – Total water withdrawn, total water consumed, percentage in regions with High or Extremely High Baseline Water Stress\(^72\)

The following metric is associated with the Waste Management topic:

- TC-ES-150a.1 – Amount of hazardous waste from manufacturing, percentage recycled\(^73\)

Revision TC-ES:02 – **Industry:** Electronic Manufacturing Services & Original Design Manufacturing; **Topic Name:** Water & Waste Management in Manufacturing

**Summary of Change – Revise Metric**

The SASB revised provisional metric TC0101-01 from “Total water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress” to remove the component of the metric that measures water recycling, and replaced it with water consumption. The resulting metric is, “Total water withdrawn and total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress.”

Revision TC-ES:03 – **Industry:** Electronic Manufacturing Services & Original Design Manufacturing; **Topic Name:** Water & Waste Management in Manufacturing

**2017 Technical Agenda Item #3-1 Description**

SASB is evaluating the revision of the technical protocol for metric TC0101-02\(^74\) to align with international standards.

---

\(^72\) The provisional version of this metric was TC0101-01 – Total water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress. Please see Revision TC-ES:02 for updates to this metric.

\(^73\) The provisional version of this metric was TC0101-02 – Amount of hazardous waste from manufacturing, percentage recycled. Please see Revision TC-ES:03 for updates to this metric.

\(^74\) TC0101-02: Amount of hazardous waste from manufacturing, percentage recycled
Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol associated with provisional metric TC0101-02, “Amount of hazardous waste from manufacturing, percentage recycled”, to define hazardous waste and hazardous waste recycled per the regulations prevalent at the point of waste generation. The revised approach changed the requirement to classify all hazardous waste, regardless of where it is generated, according to the protocols of the U.S. Environmental Protection Agency’s (EPA) Resource Conservation and Recovery Act (RCRA). Additionally, the SASB included a disclosure requirement to report the hazardous waste regulations that were used to classify the company’s waste.

Revision TC-ES:04 – **Industry**: Electronic Manufacturing Services & Original Design Manufacturing; **Topic Name**: Fair Labor Practices

Summary of Change – Split Topic

The SASB split provisional disclosure topic Fair Labor Practices into two separate topics - Labor Practices and Labor Conditions - with the following metrics:

**Labor Practices**

- TC-ES-310a.1 – Number and total duration of work stoppages

**Labor Conditions**

- TC-ES-320a.1 – (1) Total recordable incident rate (TRIR) and (2) near miss frequency rate (NMFR) for (a) direct employees and (b) contract employees

- TC-ES-320a.2 – Percentage of (1) registrant’s facilities and (2) Tier 1 supplier facilities audited in the RBA Validated Audit Process (VAP) or equivalent, by (a) all facilities and (b) high-risk facilities

- TC-ES-320a.3 – Tier 1 suppliers’ (1) non-conformance rate with the RBA Validated Audit Process (VAP) or equivalent, and (2) associated corrective action rate for (a) priority non-conformances and (b) other non-conformances

---

75 The provisional version of this metric was TC0101-04 – Number and total duration of work stoppages.

76 The provisional version of this metric was TC0101-03 – (1) Total Recordable Injury Rate (TRIR) and (2) Near Miss Frequency Rate (NMFR) for (a) full time employees and (b) contract employees.

77 The provisional version of this metric was TC0101-05 – Percentage of (a) facilities and (b) suppliers facilities audited in the EICC Validated Audit Process (VAP) or to an equivalent social and environmental responsibility code of conduct. Please see Revision TC-ES:05 for revisions to this metric.

78 The provisional version of this metric was TC0101-06 – Social and environmental responsibility audit compliance for (a) registrant and (b) suppliers: (1) priority non-conformance rate and associated corrective action rate, and (2) other nonconformances rate and associated corrective action rate.
Revision TC-ES:05 – **Industry**: Electronic Manufacturing Services & Original Design Manufacturing; **Topic Name**: Fair Labor Practices

**Summary of Change – Revise Metric**

The SASB revised provisional metric TC0101-05, “Percentage of (a) facilities and (b) supplier’s facilities audited in the EICC Validated Audit Process (VAP) or to an equivalent social and environmental responsibility code of conduct,” to include explicit disclosure on high-risk facilities, as opposed to the provisional metric that did not distinguish between all facilities versus high-risk facilities. The resulting metric is, “Percentage of (1) registrant’s facilities and (2) Tier 1 supplier facilities audited in the RBA Validated Audit Process (VAP) or equivalent, by (a) all facilities and (b) high-risk facilities.”

Revision TC-ES:06 – **Industry**: Electronic Manufacturing Services & Original Design Manufacturing; **Topic Name**: Product Lifecycle Management

**Summary of Change – Revise Topic & Remove Metrics**

The SASB revised the scope of the Product Lifecycle Management topic to focus on the operational activities that companies in the industry have direct control over. Additionally, the SASB removed the following provisional metrics:

- TC0101-07 – Percentage of products by revenue that contain IEC 62474 declarable substances
- TC0101-08 – Percentage of eligible products by revenue meeting the requirements for EPEAT® certification or equivalent

Revision TC-ES:07 **Industry**: Electronic Manufacturing Services & Original Design Manufacturing; **Topic Name**: Supply Chain Management & Materials Sourcing

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic Supply Chain Management & Materials Sourcing to Materials Sourcing.
Revision TC-ES:08 – **Industry**: Electronic Manufacturing Services & Original Design Manufacturing; **Topic Name**: Supply Chain Management & Materials Sourcing

**Summary of Change – Revise Topic and Revise Metrics**

The SASB revised the scope of the Supply Chain Management & Materials Sourcing topic to improve the representation of potential financial impacts stemming from risks and opportunities related to resource scarcity. The SASB also removed two provisional metrics:

- TC0101-10 – Percentage of products by revenue that contain critical materials
- TC0101-11 – Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free

Additionally, the SASB removed conflict minerals as an explicit, required element of provisional metric TC0101-12, “Discussion of the management of risks associated with the use of critical materials and conflict minerals” and revised the technical protocol to require companies to identify which primary critical materials present risk to their operations.

Revision TC-SI:01 – **Industry**: Software & IT Services; **Topic Name**: Environmental Footprint of Hardware Infrastructure

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol associated with provisional metric TC0102-01 to ensure that regional measures of renewable energy—such as Guarantees of Origin (GOs), the EU equivalent of the United States’ Renewable Energy Certificates (REC) (both units of renewable energy credits)—are accounted for.

Revision TC-SI:02 – **Industry**: Software & IT Services; **Topic Name**: Environmental Footprint of Hardware Infrastructure

**Summary of Change – Revise Metric**

The SASB revised provisional metric TC0102-02 from “Total water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress” to remove the component of the metric that measures water recycling, and replace it with water consumption. The resulting metric is, “(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress.”

---

70 See Revision TC-ES-07 for the revised topic name.
80 TC0102-01 – Total energy consumed, percentage grid electricity, percentage renewable energy
Revision TC-SI:03 – **Industry**: Software & IT Services; **Topic Name**: Data Privacy & Freedom of Expression

**Summary of Change – Revise Metric**

The SASB revised metric TC0102-05 “Percentage of users whose customer information is collected for secondary purpose, percentage who have opted in,” to “Number of users whose information is used for secondary purposes.”

Revision TC-SI:04 – **Industry**: Software & IT Services; **Topic Name**: Data Privacy & Freedom of Expression

**Summary of Change – Revise Metric**

The SASB revised provisional metric TC0102-07 from “Number of government or law enforcement requests for customer information, percentage resulting in disclosure” to “(1) Number of law enforcement requests for user information, (2) number of users whose information was requested, (3) percentage resulting in disclosure.”

Revision TC-SI:05 – **Industry**: Software & IT Services; **Topic Name**: Data Security

**Summary of Change – Revise Metric**

The SASB revised provisional metric TC0102-09 from “Number of data security breaches and percentage involving customers’ personally identifiable information” to “Number of data security breaches, percentage involving personally identifiable information (PII), number of users affected.”

Revision TC-SI:06 – **Industry**: Software & IT Services; **Topic Name**: Data Security

**Summary of Change – Revise Metric**

The SASB revised provisional metric:

TC0102-10 Discussion of management approach to identifying and addressing data security risks
to the following metric:

Description of approach to identifying and addressing data security risks, including use of third-party cybersecurity standards

Revision TC-SI:07 – **Industry**: Software & IT Services; **Topic Name**: Recruiting & Managing a Global, Diverse & Skilled
Workforce

**Summary of Change – Revise Metric**

The SASB revised the technical protocol for provisional metric TC0102-13 “Percentage of gender and racial/ethnic group representation for: (1) executives and (2) all others” to “Percentage of gender and racial/ethnic group representation for: (1) executives (2) technical employees and (3) all others.” Further, the SASB updated the reporting guidance to require gender breakdown globally but racial/ethnic breakdown per the U.S. Equal Employment Opportunity Commission (EEOC)’s EEO-1 Job Classification Guide categories only in the United States. The technical protocol was revised to specify that companies should describe their policies for promoting inclusivity and fostering equitable employee representation across their global operations.

Revision TC-SI:08 – **Industry:** Software & IT Services; **Topic Name:** Intellectual Property Protection & Competitive Behavior

**Summary of Change – Remove Metric**

The SASB removed provisional metric TC0102-16 “Number of patent litigation cases, number successful, and number as patent holder.”

Revision TC-HW:01 – **Industry:** Hardware; **Topic Name:** Employee Inclusion

**Summary of Change – Revise Metric**

The SASB revised the technical protocol for the provisional metric TC0103-02 “Percentage of gender and racial/ethnic group representation for: (1) executives and (2) all others” to “Percentage of gender and racial/ethnic group representation for: (1) executives, (2) technical employees, and (3) all others.” SASB has updated the reporting guidance to require gender breakdown globally but racial/ethnic breakdown per the U.S. Equal Employment Opportunity Commission (EEOC)’s EEO-1 Job Classification Guide categories only in the United States. Additionally, the SASB revised the technical protocol to specify that companies should describe their policies for promoting inclusivity and fostering equitable employee representation across their global operations.

Revision TC-HW:02 – **Industry:** Hardware; **Topic Name:** Supply Chain Management & Materials Sourcing

**Summary of Change – Topic Split**

The SASB split the disclosure topic Supply Chain Management & Materials Sourcing into two separate topics, Supply Chain Management and Materials Sourcing, with the following metrics:

The following metrics are associated with the Supply Chain Management topic:
• TC-HW-430a.1 – Percentage of Tier 1 supplier facilities audited in the RBA Validated Audit Process (VAP) or equivalent, by (a) all facilities and (b) high-risk facilities\textsuperscript{81}

• TC-HW-430a.2 – Tier 1 suppliers’ (1) non-conformance rate with the RBA Validated Audit Process (VAP) or equivalent, and (2) associated corrective action rate for (a) priority non-conformances and (b) other non-conformances\textsuperscript{82}

The following metric is associated with the Materials Sourcing topic:

• TC-HW-440a.2 – Discussion of the management of risks associated with the use of critical materials\textsuperscript{83}

Revision TC-HW:03 \textbf{Industry:} Hardware; \textbf{Topic Name:} Supply Chain Management & Materials Sourcing

\textbf{Summary of Change – Revise Metric}

The SASB revised provisional metric TC0103-10, “Percentage of suppliers audited in the EICC Validated Audit Process (VAP) or to an equivalent social and environmental responsibility code of conduct,” to include explicit disclosure on high-risk facilities, as opposed to the provisional metric that did not distinguish between all facilities versus high-risk facilities. The resulting metric is, “Percentage of Tier 1 supplier facilities audited in the RBA Validated Audit Process (VAP) or equivalent, by (a) all facilities and (b) high-risk facilities.”

Revision TC-HW:04 – \textbf{Industry:} Hardware; \textbf{Topic Name:} Supply Chain Management & Materials Sourcing

\textbf{Summary of Change – Revise Topic and Remove Metrics}

The SASB revised the scope of the Materials Sourcing (see Revision TC-HW:02 for the associated topic split) to improve the representation of potential financial impacts stemming from risks and opportunities related to resource scarcity. As a result of this topic revision, the SASB also removed two provisional metrics:

• TC0103-07 – Percentage of products by revenue that contain critical materials and conflict minerals

• TC0103-08 – Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free

Additionally, the SASB removed conflict minerals as an explicit, required element of provisional metric TC0103-09, “Discussion of the management of risks associated with the use of critical materials and conflict minerals” and

\textsuperscript{81} The provisional version of this metric was TC0103-10 – Percentage of suppliers audited in the EICC Validated Audit Process (VAP) or to an equivalent social and environmental responsibility code of conduct. Please see Revision TC-HW:03 for an update to this metric.

\textsuperscript{82} The provisional version of this metric was TC0103-11 – Suppliers’ social and environmental responsibility audit compliance: (1) priority non-conformance rate and associated corrective action rate, and (2) other non-conformances rate and associated corrective action rate.

\textsuperscript{83} The provisional version of this metric was TC0103-08 – Discussion of the management of risks associated with the use of critical materials and conflict minerals. Please see Revision TC-HW:04 for an update to this metric.
revised the technical protocol to require companies to identify which primary critical materials present risk to their operations.

Revision TC-SC:01 – **Industry:** Semiconductors; **Topic Name:** Water & Waste Management

**Summary of Change – Split Topic**

The SASB split the provisional disclosure topic Water & Waste Management in Manufacturing into two separate topics, Water Management and Waste Management.

The following metric is associated with the Water Management topic:

- TC-SC-140a.1 – Total water withdrawn, total water consumed, percentage in regions with High or Extremely High Baseline Water Stress84

The following metric is associated with the Waste Management topic:

- TC-SC-150a.1 – Amount of hazardous waste from manufacturing, percentage recycled85

Revision TC-SC:02 – **Industry:** Semiconductors; **Topic Name:** Water & Waste Management

**Summary of Change – Revise Metric**

The SASB revised provisional metric TC0201-03 from “Total water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress” to remove the component of the metric that measures water recycling, and replace it with water consumption. The resulting metric is, “Total water withdrawn, total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress.”

Revision TC-SC:03 – **Industry:** Semiconductors; **Topic Name:** Water & Waste Management

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol associated with provisional metric TC0201-05, “Amount of hazardous waste from manufacturing, percentage recycled,” to define hazardous waste and hazardous waste recycled per the regulations prevalent at the point of waste generation. The revised approach changed the requirement to classify all hazardous waste, regardless of where it is generated, according to the protocols of the U.S. Environmental

---

84 The provisional version of this metric was TC0201-04 – Total water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress. Please see Revision TC-SC:02 for updates to this metric.

85 The provisional version of this metric was TC0201-05 – Amount of hazardous waste from manufacturing, percentage recycled. Please see Revision TC-SC:03 for updates to this metric.
Protection Agency’s (EPA) Resource Conservation and Recovery Act (RCRA). Additionally, the SASB included a disclosure requirement to report the hazardous waste regulations that were used to classify the company’s waste.

Revision TC-SC:04 – **Industry:** Semiconductors; **Topic Name:** Supply Chain Management & Materials Sourcing

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic from Supply Chain Management & Materials Sourcing to Materials Sourcing.

Revision TC-SC:05 – **Industry:** Semiconductors; **Topic Name:** Supply Chain Management & Materials Sourcing

**Summary of Change – Revise Topic and Remove Metrics**

The SASB revised the scope of the Supply Chain & Materials Sourcing to improve the representation of potential financial impacts stemming from risks and opportunities related to resource scarcity. As a result of this topic revision, the SASB also removed two provisional metrics:

- TC0201-11 – Percentage of products by revenue that contain critical materials
- TC0201-12 – Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free

Additionally, the SASB removed conflict minerals as an explicit, required element of provisional metric TC0103-09, “Discussion of the management of risks associated with the use of critical materials and conflict minerals” and revised the technical protocol to require companies to identify which primary critical materials present risk to their operations.

Revision TC-SC:06 – **Industry:** Semiconductors; **Topic Name:** Intellectual Property Protection & Competitive Behavior

**Summary of Change – Remove Metric**

The SASB removed metric TC0201-14 “Number of patent litigation cases, number successful, and number as patent holder.”

---

86 See Revision TC-SC:04 for the topic name change.
Revision TC-IM:01 – **Industry**: Internet Media & Services; **Topic Name**: Environmental Footprint of Hardware Operations

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol associated with provisional metric TC0401-01[87] to ensure that regional measures of renewable energy—such as Guarantees of Origin (GOs), the EU equivalent of the United States’ Renewable Energy Certificates (REC) (both units of renewable energy credits)—are accounted for.

Revision TC-IM:02 – **Industry**: Internet Media & Services; **Topic Name**: Environmental Footprint of Hardware Infrastructure

**Summary of Change – Revise Metric**

The SASB revised provisional metric TC0401-02 from “Total water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress” to remove the component of the metric that measures water recycling, and replace it with water consumption. The resulting metric is, “(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress.”

Revision TC-IM:03 – **Industry**: Internet Media & Services; **Topic Name**: Data Privacy, Advertising Standards & Freedom of Expression

**Summary of Change – Revise Metric**

The SASB revised metric TC0401-05 “Percentage of users whose customer information is collected for secondary purpose, percentage who have opted-in” to “Number of users whose information is used for secondary purposes.”

---

[87] The provisional version of this metric was TC0401-01 – Total energy consumed, percentage grid electricity, percentage renewable energy.
Revision TC-IM:04 – Industry: Internet Media & Services; Topic Name: Data Privacy, Advertising Standards & Freedom of Expression

Summary of Change – Revise Metric
The SASB revised provisional metric TC0401-07 from “Number of government or law enforcement requests for customer information, percentage resulting in disclosure” to “(1) Number of government or law enforcement requests for customer information, (2) number of records requested, (3) percentage resulting in disclosure.”

Revision TC-IM:05 – Industry: Internet Media & Services; Topic Name: Data Security

Summary of Change – Revise Metric
The SASB revised provisional metric TC0401-10 from “Number of data security breaches and percentage involving customers’ personally identifiable information” to “Number of data security breaches, percentage involving personally identifiable information (PII), number of users affected.”

Revision TC-IM:06 – Industry: Internet Media & Services; Topic Name: Data Security

Summary of Change – Revise Metric
The SASB revised provisional metric:

TC0401-11 Discussion of management approach to identifying and addressing data security risks
to the following metric:

Description of approach to identifying and addressing data security risks, including use of third-party cybersecurity standards

Revision TC-IM:07 – Industry: Internet Media & Services; Topic Name: Employee Recruitment, Inclusion & Performance

Summary of Change – Revise Metric
The SASB has revised the technical protocol for the provisional metric TC0401-14, “Percentage of gender and racial/ethnic group representation for: (1) executives and (2) all others” to “Percentage of gender and racial/ethnic group representation for: (1) executives (2) technical employees and (3) all others” Further, SASB has updated the reporting guidance to require gender breakdown globally but racial/ethnic breakdown per the U.S. Equal
Employment Opportunity Commission (EEOC)’s EEO-1 Job Classification Guide categories only in the United States. Additionally, the SASB revised the technical protocol to specify that companies should describe their policies for promoting inclusivity and fostering equitable employee representation across their global operations.

Revision TC-IM:08 – **Industry:** Internet Media & Services; **Topic Name:** Intellectual Property Protection & Competitive Behavior

**Summary of Change – Remove Metric**

The SASB removed metric TC0401-15 “Number of patent litigation cases, number successful, and number as patent holder.”
Extractives & Minerals Processing Sector

Oil & Gas - Exploration & Production
Oil & Gas - Midstream
Oil & Gas - Refining & Marketing
Oil & Gas - Services
Coal Operations
Iron & Steel Producers
Metals & Mining
Construction Materials

Prepared by the
Sustainability Accounting Standards Board®
Revision EM-EP:01 – **Industry**: Oil & Gas - Exploration & Production; **Topic Name**: Activity Metrics

**Summary of Change – Revise Metrics**

The SASB revised activity metric NR0101-A from “Wellhead production of (1) conventional oil, (2) unconventional oil, (3) conventional gas, and (4) unconventional gas” to “Production of (1) oil (2) natural gas (3) synthetic oil and (4) synthetic gas”

Revision EM-EP:02 – **Industry**: Oil & Gas - Exploration & Production; **Topic Name**: Greenhouse Gas Emissions

**2017 Technical Agenda Item #4-1 Description**

SASB is evaluating the revision of metric NR0101-01\(^8\) to ensure the usefulness and alignment with external standards of the metrics associated with the topic.

**Summary of Change – Revise Metrics**

The SASB revised metric NR0101-01 from “Gross global Scope 1 emissions, percentage covered under a regulatory program, percentage by hydrocarbon resource” to “Gross global Scope 1 emissions, percentage methane, and percentage covered under emissions-limiting regulations.”

Revision EM-EP:03 – **Industry**: Oil & Gas - Exploration & Production; **Topic Name**: Greenhouse Gas Emissions

**2017 Technical Agenda Item #4-2 Description**

SASB is evaluating the revision of the technical protocol associated with metric NR0101-02\(^8\) to ensure the metric offers a representative measurement of performance on the topic.

**Summary of Change – Revise Metrics**

The SASB revised metric NR0101-02 from, “Amount of gross global Scope 1 emissions from: (1) combustion, (2) flared hydrocarbons, (3) process emissions, (4) directly vented releases, and (5) fugitive emissions/leaks” to, “Amount of gross global Scope 1 emission from: (1) flared hydrocarbons, (2) other combustion, (3) process emissions, (4) other vented emissions, (5) fugitive emissions”

Revision EM-EP:04 – **Industry**: Oil & Gas – Exploration &

---

\(^8\) NR0101-01: Gross global Scope 1 emissions, percentage covered under a regulatory program, percentage by hydrocarbon resource

\(^8\) NR0101-02: Amount of gross global Scope 1 emissions from: (1) combustion, (2) flared hydrocarbons, (3) process emissions, (4) directly vented releases, (5) fugitive emissions/leaks
Production; **Topic Name:** Greenhouse Gas Emissions

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol associated with metric NR0101-03 to provide additional specificity with respect to company strategies to manage emissions.

Revision EM-EP:05 – **Industry:** Oil & Gas - Exploration & Production; **Topic Name:** Water Management

**Summary of Change – Revise Metrics**

The SASB revised metric NR0101-05 from “Total fresh water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress,” to “1) Total water withdrawn and (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress”

Revision EM-EP:06 – **Industry:** Oil & Gas – Exploration & Production; **Topic Name:** Water Management

**2017 Technical Agenda Item #4-3 Description**

SASB is evaluating the revision of the technical protocol associated with metric NR0101-08\(^{90}\) to improve the measurability.

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol associated with metric NR0101-08 to eliminate redundancy with respect to water sampling methodologies and further clarify the guidance related to water sampling requirements.

Revision EM-EP:07 – **Industry:** Oil & Gas - Exploration & Production; **Topic Name:** Biodiversity Impacts

**Summary of Change – Revise Metric**

The SASB revised metric NR0101-10 from “Number and aggregate volume of hydrocarbon spills, volume in Arctic, volume near shorelines with ESI rankings 8-10, volume recovered” to “Number and aggregate volume of hydrocarbon spills, volume in Arctic, volume impacting shorelines with ESI rankings 8-10, volume recovered.”

Revision EM-EP:08 – **Industry:** Oil & Gas - Exploration & Production; **Topic Name:** Biodiversity Impacts

---

\(^{90}\) NR0101-08: Percentage of hydraulic fracturing sites where ground or surface water quality deteriorated compared to a baseline
Summary of Change – Revise Metric

The SASB revised metric NR0101-11 from “(1) Proved and (2) probable reserves in or near sites with protected conservation status or endangered species habitat” to “Percentage of (1) proved and (2) probable reserves in or near sites with protected conservation status or endangered species habitat.”

Revision EM-EP:09 – Industry: Oil & Gas – Exploration & Production; Topic Name: Biodiversity Impacts

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol associated with metric NR0101-11 to clarify the scope of the metric with respect to transient migratory passage of endangered species.


2017 Technical Agenda Item #4-4 Description

SASB is evaluating the revision of the technical protocol associated with metric NR0101-13\(^{91}\) to improve the measurability.

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol for metric NR0101-13 to include a reference to the United Nations Declaration on the Rights of indigenous peoples and International Labour Organization (ILO) with respect to the identification of indigenous peoples.


Summary of Change – Revise Metrics

The SASB revised metric NR0101-12 from “(1) Proved and (2) probable reserves in or near areas of conflict” to “Percentage of (1) proved and (2) probable reserves in or near areas of conflict.” In addition, the SASB changed metric NR0101-13 from “(1) Proved and (2) probable reserves in or near indigenous land” to “Percentage of (1) proved and (2) probable reserves in or near indigenous land.”

Revision EM-EP:12 – Industry: Oil & Gas – Exploration &

\(^{91}\) NR0101-13: (1) Proved and (2) probable reserves in or near indigenous land
Production; **Topic Name:** Security, Human Rights, and the Rights of Indigenous Peoples

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol for metric NR0101-14 to include a discussion of company establishment of community agreements and project grievance mechanisms, where relevant. The SASB additionally revised the technical protocol to include a discussion of any region or country-specific variation in the application of human rights practices and procedures, as well as the extent to which such practices and procedures can be extended to business partners, including joint venture partners.

Revision EM-EP:13 – **Industry:** Oil & Gas – Exploration & Production; **Topic Name:** Health, Safety, and Emergency Management

**2017 Technical Agenda Item #4-5 Description**

SASB is evaluating the revision of metric NR0101-17\(^2\) associated with the topic to improve its usefulness and to align with external standards.

**Summary of Change – Revise Metrics**

The SASB revised metric NR0101-17 from “(1) Total Recordable Injury Rate (TRIR), (2) Fatality Rate, and (3) Near Miss Frequency Rate for (a) full-time employees, (b) contract employees, and (c) short-service employees,” to “(1) Total Recordable Incident Rate (TRIR), (2) Fatality Rate, (3) Near Miss Frequency Rate (NMFR), and (4) Average hours of Health, Safety, and Emergency Response Training for (a) full-time employees, (b) contract employees, and (c) short-service employees.”

Revision EM-EP:14 – **Industry:** Oil & Gas – Exploration & Production; **Topic Name:** Health, Safety, and Emergency Management

**2017 Technical Agenda Item #4-6 Description**

SASB is evaluating splitting the topic to improve the quality and clarity of the Standard.

**Summary of Change – Split Topic**

The SASB split the topic Health, Safety, and Emergency Management into Workforce Health and Safety, related to Human Capital and Critical Incident Risk Management, related to Leadership and Governance.

\(^2\) NR0101-17: (1) Total Recordable Injury Rate (TRIR), (2) Fatality Rate, and (3) Near Miss Frequency Rate for (a) full-time employees, (b) contract employees, and (c) short-service employees
For the Workforce Health & Safety topic, metric NR0101-19 was modified from, “Discussion of management systems used to integrate a culture of safety and emergency preparedness throughout the value chain and throughout the exploration and production lifecycle,” to “Discussion of management systems used to integrate a culture of safety throughout the exploration and production lifecycle.” Metric NR0101-18 was removed from this topic.

For the Critical Incident Risk Management topic, metric NR0101-18 was added and renumbered appropriately. A new metric was added describing, “Discussion of management systems used to identify and mitigate catastrophic and tail-end risks.”

Revision #EM-EP:15 – Industry: Oil & Gas – Exploration & Production; Topic Name: Reserves Valuation and Capital Expenditures

2017 Technical Agenda Item #4-8 Description

SASB is evaluating the revision of the technical protocol associated with metric NR0101-22 to improve the completeness and relevance.

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol associated with metric NR0101-22 to clarify the definition of the sensitivity analysis to be performed using the International Energy Agency’s (IEA) most recently published scenarios. In addition, the revised protocol provides the company with the opportunity to consider additional scenarios defined by the company if it chooses to disclose these supplemental scenarios.

Revision EM-EP:16 – Industry: Oil & Gas – Exploration & Production; Topic Name: Reserves Valuation and Capital Expenditures

2017 Technical Agenda Item #4-9 Description

SASB is evaluating the addition of a metric to improve the usefulness, representativeness, and completeness of the metrics associated with the topic.

Summary of Change – Add Metric

The SASB added a metric to the Reserves Valuation and Capital Expenditures topic, describing the “Amount invested in renewable energy, revenue generated by renewable energy sales.”

Revision EM-EP:18 – Industry: Oil & Gas - Exploration &

93 NR0101-22: Sensitivity of hydrocarbon reserve levels to future price projection scenarios that account for a price on carbon emissions
Production; **Topic Name:** Business Ethics & Payments Transparency

**Summary of Change – Revise Metrics**

The SASB revised metric NR0101-20 from “(1) Proved and (2) probable reserves in countries that have the 20 lowest rankings in Transparency International’s Corruption Perception Index” to “Percentage of (1) proved and (2) probable reserves in countries that have the 20 lowest rankings in Transparency International’s Corruption Perception Index”

Revision EM-EP:19 – **Industry:** Oil & Gas – Exploration & Production; **Topic Name:** Business Ethics & Payments Transparency

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol associated with metric NR0101-21 to clarify the scope of the metric with respect to management systems to prevent corruption and bribery as well as to include a discussion of applicable regulatory regimes a company may be subject to with respect to payment transparency requirements.

Revision EM-EP:20 – **Industry:** Oil & Gas – Exploration & Production; **Topic Name:** Business Ethics & Payments Transparency

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic Business Ethics & Payments Transparency to Business Ethics & Transparency.

Revision EM-EP:21 – **Industry:** Oil & Gas – Exploration & Production; **Topic Name:** Management of the Legal & Regulatory Environment

**2017 Technical Agenda Item #4-10 Description**

SASB is evaluating revisions to metrics NR0101-25\(^{94}\) and NR0101-26\(^{95}\) to improve the cost-effectiveness and materiality of the Standard.

---

\(^{94}\) NR0101-25: Amount of political campaign spending, lobbying expenditures, and contributions to tax-exempt groups including trade associations

\(^{95}\) NR0101-26: Five largest political, lobbying, or tax-exempt group expenditures
Summary of Change – Revise Metrics

The SASB replaced the two quantitative metrics associated with the Management of the Legal and Regulatory Environment topic:

- NR0101-25 – Amount of political campaign spending, lobbying expenditures, and contributions to tax-exempt groups including trade associations
- NR0101-26 – Five largest political, lobbying, or tax-exempt group expenditures

With the following qualitative metric:

Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry

The technical protocol of the revised metric describes the scope of the disclosure, including the risks and opportunities that may result from legislation or regulation related to environmental and social factors that are likely to be material based on industry-specific characteristics. The topic description was additionally revised to align with the scope of the revised metric.

Revision EM-MD:01 – Industry: Oil & Gas – Midstream; Topic Name: Greenhouse Gas & Other Air Emissions

2017 Technical Agenda Item #4-12 Description

SASB is evaluating splitting the topic to improve the quality and clarity of the standard.

Summary of Change – Split Topic

The SASB split the topic Greenhouse Gas & Other Air Emissions into Greenhouse Gas Emissions and Air Quality.

Metric NR0102-01, “Gross global Scope 1 emissions, percentage covered under a regulatory program” and NR0102-02, “Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets” are now associated with the GHG Emissions topic.

Metric NR0102-03, “Air emissions for the following pollutants: NOx (excluding N2O), SOx, volatile organic compounds (VOCs), and particulate matter (PM)” is now associated with the Air Quality topic.

Revision EM-MD:02 – Industry: Oil & Gas – Midstream; Topic Name: Greenhouse Gas & Other Air Emissions
2017 Technical Agenda Item #4-11 Description
SASB is evaluating the revision of metric NR0102-01 to ensure the decision-usefulness and alignment with other standards of the metrics associated with the topic.

Summary of Change – Revise Metrics
The SASB revised metric NR0102-01 from “Gross global Scope 1 emissions, percentage covered under a regulatory program,” to “Gross global Scope 1 emissions, percentage methane, and percentage covered under an emissions-limiting regulatory program.”

Revision EM-MD:03 – Industry: Oil & Gas – Midstream; Topic Name: Greenhouse Gas & Other Air Emissions

Summary of Change – Revise Technical Protocol
The SASB revised the technical protocol associated with metric NR0102-02 to provide additional guidance with respect to provide additional specificity with respect to company strategies to manage emissions.

Revision EM-MD:04 – Industry: Oil & Gas – Midstream; Topic Name: Ecological Impacts

Summary of Change – Revise Technical Protocol
The SASB revised the technical protocol associated with metric NR0102-04 to provide additional guidance with respect to reference to company management of risks related to the quantitative disclosures defined in metrics NR0102-05, NR0102-06, and NR0102-07.

Revision EM-MD:05 – Industry: Oil & Gas – Midstream; Topic Name: Operational Safety, Emergency Preparedness, and Response

2017 Technical Agenda Item #4-13 Description
SASB is evaluating the addition of a metric to ensure the usefulness, completeness, and representativeness of the metrics associated with the topic.

Summary of Change – Add Metric
The SASB added a metric to the Operational Safety, Emergency Preparedness, and Response topic describing, “Percentage of (1) natural gas and (2) hazardous liquid pipelines inspected.”

---

NR0102-01: Gross global Scope 1 emissions, percentage covered under a regulatory program.
Revision EM-RM:01 – **Industry:** Oil & Gas – Refining & Marketing; **Topic Name:** Water Management

**2017 Technical Agenda Item #4-14 Description**
SASB is evaluating revisions to the water quality metric NR0103-06 to improve its decision-usefulness.

**Summary of Change – Revise Technical Protocol**
The SASB revised the technical protocol for provisional metric NR0103-06, “Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations,” to limit the scope of incidents of non-compliance to exclusively those that result in a formal enforcement action.

Revision EM-RM:02 – **Industry:** Oil & Gas – Refining & Marketing; **Topic Name:** Hazardous Materials Management

**Summary of Change – Revise Technical Protocol**
The SASB revised the technical protocol for provisional metric NR0103-07, “Amount of hazardous waste from operations, percentage hazardous,” to allow companies to report hazardous waste and hazardous waste recycled where hazardous waste is defined by local regulation at the point of waste generation.

Revision EM-RM:03 – **Industry:** Oil & Gas – Refining & Marketing; **Topic Name:** Health, Safety, and Emergency Management

**Summary of Change – Revise Technical Protocol**
The SASB revised the technical protocol for provisional metric NR0103-09, “(1) Total Recordable Injury Rate (TRIR), (2) Fatality Rate, and (3) Near Miss Frequency Rate for (a) full-time employees and (b) contract employees,” to better define the terms “employee,” “contractor,” and “near miss.”

Revision EP-RM:04 – **Industry:** Oil & Gas – Refining & Marketing; **Topic Name:** Health, Safety, and Emergency Management

---

NR0103-06: Number of incidents of non-compliance with water quality permits, standards, and regulations
2017 Technical Agenda Item #4-15 Description

SASB is evaluating splitting the topic to improve the quality and clarity of the standard.

Summary of Change – Split Topic

The SASB split the provisional topic Health, Safety, and Emergency Management into Workforce Health & Safety, related to Human Capital; and Critical Incident Risk Management, related to Leadership and Governance.

For the Workforce Health & Safety topic, the existing, provisional metric NR0103-09, “(1) Total Recordable Incident Rate (TRIR), (2) Near Miss Frequency Rate (NMFR), and (3) Fatality Rate for: (a) full-time employees and (b) contract employees” will be retained and a Discussion and Analysis metric, “Discussion of management systems used to integrate a culture of safety,” were added.

The Critical Incident Risk Management topic includes provisional metrics NR0103-10 (to be renumbered) called “Process Safety Event (PSE) rates for Loss of Primary Containment (LOPC) of greater consequence (Tier 1) and lesser consequence (Tier 2),” NR0103-11 (to be renumbered) called “Challenges to Safety Systems indicator rate (Tier 3),” and NR0103-12 (to be renumbered) called “Discussion of measurement of Operating Discipline and Management System Performance through Tier 4 Indicators.”

Revision EP-RM:05 – **Industry:** Oil & Gas – Refining & Marketing; **Topic Name:** Management of the Legal & Regulatory Environment

2017 Technical Agenda Item #4-16 Description

SASB is evaluating the revisions to the metrics NR0103-16 and NR0103-17 to improve the cost-effectiveness and materiality of the standard.

Summary of Change – Revise Metrics

The SASB replaced the two quantitative provisional metrics associated with the Management of the Legal and Regulatory Environment topic:

NR0101-16 – Amount of political campaign spending, lobbying expenditures, and contributions to tax-exempt groups including trade associations
NR0101-17 – Five largest political, lobbying, or tax-exempt group expenditures

With the following qualitative metric:

Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry

---

96 NR0103-16: Amount of political campaign spending, lobbying expenditures, and contributions to tax-exempt groups including trade associations
99 NR0103-17: Five largest political, lobbying, or tax-exempt group expenditures
The technical protocol of the revised metric describes the scope of the disclosure, including the risks and opportunities that may result from legislation or regulation related to environmental and social factors, which are likely to be material based on industry-specific characteristics. The topic description was additionally revised to align with the scope of the revised metric.

of the standard, as the standard is more succinct and, thus, less costly to implement.

Revision EM-SV:01 – **Industry:** Oil & Gas – Services; **Topic Name:** Activity Metrics

**2017 Technical Agenda Item #4-17 Description**

SASB is evaluating the addition of an activity metric to facilitate normalization of SASB’s accounting metrics in a decision-useful, cost-effective manner.

**Summary of Change – Add Metric**

The SASB added an activity metric to the Oil & Gas – Services industry standard for the “Total number of hours worked by all employees.”

Revision EM-SV:02 – **Industry:** Oil & Gas – Services; **Topic Name:** Water Management

**2017 Technical Agenda Item #4-18 Description**

SASB is evaluating the revision of metric NR0104-04\(^{100}\) to ensure the representativeness and applicability of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised metric NR0104-04 from “Average volume of water used per volume of gas or oil extracted by (1) fresh water and (2) recycled water,” to “Total volume of fresh water handled in operations, percentage recycled.”

Revision EM-SV:03 – **Industry:** Oil & Gas – Services; **Topic Name:** Chemicals Management

**2017 Technical Agenda Item #4-19 Description**

SASB is evaluating the revision of metric NR0104-06\(^{101}\) to ensure the representativeness and applicability of the metrics associated with the topic.

\(^{100}\) NR0104-04: Average volume of water used per volume of gas or oil extracted by (1) fresh water and (2) recycled water

\(^{101}\) NR0104-06: Average amount of hydraulic fracturing fluid and proppant consumed per volume of gas or oil extracted
Summary of Change – Revise Metrics
The SASB revised metric NR0104-06 from “Average amount of hydraulic fracturing fluid and proppant consumed per volume of gas or oil extracted,” to “Total volume of hydraulic fracturing fluid used, percentage hazardous.”

Revision EM-SV:04 – Industry: Oil & Gas – Services; Topic Name: Chemicals Management

2017 Technical Agenda Item #4-20 Description
SASB is evaluating the removal of metric NR0104-07 to ensure the representativeness and applicability of the metrics associated with the topic.

Summary of Change – Remove Metric
The SASB removed metric NR0104-07, “Percentage of hydraulically fractured wells for which there is public disclosure of all fluid chemicals used.”

Revision EM-SV:05 – Industry: Oil & Gas – Services; Topic Name: Ecological Impact Management

2017 Technical Agenda Item #4-21 Description
SASB is evaluating the revision of the technical protocol associated with metric NR0104-09 to improve its measurability.

Summary of Change – Revise Technical Protocol
The SASB revised the technical protocol associated with metric NR0104-09, “Average disturbed acreage per (1) oil and (2) gas well site,” to improve its representativeness and completeness by limiting the disclosure scope to the disturbed acreage that is directly associated with the company’s scope of service.

Revision EM-SV:06 – Industry: Oil & Gas – Services; Topic Name: Health, Safety, and Emergency Management

2017 Technical Agenda Item #4-22 Description
SASB is evaluating the revision of metric NR0104-11 associated with the topic to improve its usefulness and to align with external standards.

Summary of Change – Revise Metrics
The SASB revised metric NR0104-11 from “(1) Total Recordable Injury Rate (TRIR), (2) Fatality Rate, (3) Near Miss Frequency Rate, and (4) Total Vehicle Incident Rate (TVIR) for (a) full-time employees, (b) contract employees, and

---

102 NR0104-07: Percentage of hydraulically fractured wells for which there is public disclosure of all fracturing fluid chemicals used
103 NR0104-09: Description of strategy or plans to address chemical-related risks, opportunities, and impacts
104 NR0104-11: Average disturbed acreage per (1) oil and (2) gas well site
(c) short-service employees,” to “(1) Total Recordable Incident Rate (TRIR), (2) Near Miss Frequency Rate (NMFR), (3) Fatality Rate, (4) Total Vehicle Incident Rate (TVIR), and (5) Average hours of Health, Safety, and Emergency Response Training for (a) full-time employees, (b) contract employees, and (c) short-service employees.”

Revision EM-SV:07 – **Industry**: Oil & Gas – Services; **Topic Name**: Health, Safety, and Emergency Management

**2017 Technical Agenda Item #4-23 Description**

SASB is evaluating splitting the topic to improve the quality and clarity of the standard.

**Summary of Change – Split Topic**

The SASB split the topic Health, Safety, and Emergency Management into Workforce Health & Safety related to Human Capital; and Critical Incident Risk Management, related to Leadership and Governance.

For the Workforce Health & Safety topic, metric NR0104-12 was revised from, “Discussion of management systems used to integrate a culture of safety and emergency preparedness throughout the value chain and project lifecycles,” to “Description of management systems used to integrate a culture of safety throughout the value chain and project lifecycles.”

The Critical Incident Risk Management topic will include a new discussion and analysis metric describing “Description of management systems used to identify and mitigate catastrophic and tail-end risks.”

Revision EM-SV:08– **Industry**: Oil & Gas – Services; **Topic Name**: Business Ethics and Payments Transparency

**2017 Technical Agenda Item #4-24 Description**

SASB is evaluating the addition of a metric based on the usefulness, completeness, distributiveness, and representativeness of the metrics associated with the topic.

**No Revision:**

Based upon additional research and the lack of a clear, quantifiable metric that would result in useful and distributive disclosures, no changes related to the provisional Standard related to Technical Agenda item 4-24 have been made at this time.

Revision EM-SV:09 – **Industry**: Oil & Gas – Services; **Topic Name**: Management of the Legal & Regulatory Environment
2017 Technical Agenda Item #4-25 Description

SASB is evaluating revisions to metrics NR0104-15\textsuperscript{105} and NR0104-16\textsuperscript{106} to improve the cost-effectiveness and materiality of the standard.

Summary of Change – Revise Metrics

The SASB replaced the two quantitative metrics associated with the Management of the Legal and Regulatory Environment topic:

NR0104-15 – Amount of political campaign spending, lobbying expenditures, and contributions to tax-exempt groups including trade associations

NR0104-16 – Five largest political, lobbying, or tax-exempt group expenditures

With the following qualitative metric:

Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry

The technical protocol of the revised metric describes the scope of the disclosure, including the risks and opportunities that may result from legislation or regulation related to environmental and social factors that are likely to be material based on industry-specific characteristics. The topic description was additionally revised to align with the scope of the revised metric.

Revision EM-CO:01 – Industry: Coal Operations; Topic Name: Greenhouse Gas Emissions

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol for metric NR0201-01, “Gross global Scope 1 emissions, percentage covered under a regulatory program,” to provide additional guidance regarding the types of emissions that companies should include when preparing their disclosure.

Revision EM-CO:02 – Industry: Coal Operations; Topic Name: Water Management

2017 Technical Agenda Item #4-26 Description

SASB is evaluating revisions to the water quality metric NR0201-04\textsuperscript{107} to improve its decision-usefulness.

\textsuperscript{105} NR0104-15: Amount of political campaign spending, lobbying expenditures, and contributions to tax-exempt groups including trade associations

\textsuperscript{106} NR0104-16: Five largest political, lobbying, or tax-exempt group expenditures

\textsuperscript{107} The provisional version of this metric was NR0201-04 – Number of incidents of non-compliance with water quality permits, standards, and regulations.
Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol for metric NR0201-04, “Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations,” to limit the scope of incidents of non-compliance to exclusively those that result in a formal enforcement action.

Revision EM-CO:03 – Industry: Coal Operations; Topic Name: Community Relations & Rights of Indigenous Peoples

Summary of Change – Split Topic

The SASB split the Community Relations & Rights of Indigenous Peoples into two separate topics, Community Relations and Rights of Indigenous Peoples.

The Community Relations topic retained metrics NR0101-10 “Number and duration of non-technical delays” as well as NR0101-09 “Discussion of process to manage risk and opportunities associated with community rights and interests.”

The Rights of Indigenous Peoples topic retained metric NR0201-11 “(1) Proven and (2) Probable reserves in or near indigenous lands.” In addition, a new discussion and analysis metric was added to the Rights of Indigenous Peoples topic, which states, “Discussion of engagement processes and due diligence practices with respect to the management of indigenous rights.”

Revision EM-CO:04 – Industry: Coal Operations; Topic Name: Workforce Health, Safety, and Well-Being

2017 Technical Agenda Item #4-27 Description

SASB is evaluating renaming the topic.

Summary of Change – Revise Topic Name

The SASB renamed the provisional topic Workforce Health, Safety, and Well-Being to Workforce Health & Safety.

Revision EM-CO:05 – Industry: Coal Operations; Topic Name: Reserves Valuation and Capital Expenditures

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol associated with metric NR0201-16108 to clarify the definition of the sensitivity analysis to be performed using the International Energy Agency’s (IEA) published scenarios. In addition,

108 The provisional version of this metric was NR0201-16 – Sensitivity of coal reserve levels to future price projection scenarios that account for a price on carbon emissions
the revised protocol provides the company the opportunity to consider additional scenarios defined by the company if it chooses to disclose these supplemental scenarios.

Revision EP-IS:01 – **Industry:** Iron & Steel Producers; **Topic Name:** Workforce Health, Safety, and Well-Being

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic Workforce Health, Safety, and Well-Being to Workforce Health & Safety.

Revision EM-MM:01 – **Industry:** Metals & Mining; **Topic Name:** Water Management

**2017 Technical Agenda Item #4-28 Description**

SASB is evaluating the revision of the technical protocol associated with metric NR0302-05\(^{109}\) to improve its completeness.

**Summary of Change – Revise Metric**

The SASB revised the provisional metric NR0302-05 from, “Total fresh water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress,” to, “TA04-28-01. (1) Total fresh water withdrawn, (2) total fresh water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress,” and additionally revised the technical protocol to include the disclosure of which facilities are located in areas of High or Extremely High water stress.

Revision EM-MM:02 – **Industry:** Metals & Mining; **Topic Name:** Water Management

**2017 Technical Agenda Item #4-29 Description**

SASB is evaluating revisions to the water quality metric NR0302-06\(^{110}\) to improve its decision-usefulness.

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol for metric NR0302-06, “Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations,” to limit the scope of incidents of non-compliance to exclusively those that result in a formal enforcement action.

Revision EM-MM:03 – **Industry:** Metals & Mining; **Topic Name:** Security, Human Rights, and the Rights of

---

\(^{109}\) The provisional version of this metric was NR0302-05 – Total fresh water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress.

\(^{110}\) The provisional version of this metric was NR0302-06 – Number of incidents of non-compliance with water quality permits, standards, and regulations
Indigenous Peoples

2017 Technical Agenda Item #4-30 Description

SSASB is evaluating the revision of the technical protocol associated with metric NR0302-16 to improve its measurability.

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol for provisional metric NR0302-16 to include a reference to the United Nations Declaration on the Rights of Indigenous Peoples and International Labour Organization (ILO) with respect to the identification of indigenous peoples.


Summary of Change – Revise Technical Protocol

The SASB modified the technical protocol for metric NR0302-17 to include the disclosure of company governance processes for issues related to the topic, as well as its policies and practices related to the establishment of community agreements and project grievance mechanisms, where applicable.

Revision EM-MM:05 – Industry: Metals & Mining; Topic Name: Community Relations

Summary of Change – Revise Technical Protocol

The SASB modified the technical protocol for provisional metric NR0302-13 to include “natural resource governance” as an example of a discussion topic that companies should consider when discussing country, regional, or community risks.

Revision EM-MM:06 – Industry: Metals & Mining; Topic Name: Community Relations

Summary of Change – Revise Technical Protocol

The SASB modified the technical protocol for metric NR0302-11 to clarify the definition of “non-technical delays.”

---

111 NR0302-16: (1) Proven and (2) probable reserves in or near indigenous land
112 The provisional version of this metric was NR0302-13 – Discussion of process to manage risks and opportunities associated with community rights and interests.
113 The provisional version of this metric is NR0302-11 – Percentage of mine sites where acid rock drainage is: (1) predicted to occur, (2) actively mitigated, and (3) under treatment or remediation.
Revision EM-MM:07 – **Industry:** Metals & Mining; **Topic Name:** Workforce Health, Safety, and Well-Being

**2017 Technical Agenda Item #4-31 Description**

SASB is evaluating the revision of metric NR0302-18\textsuperscript{114} associated with the topic to improve its usefulness and to align with external standards.

**Summary of Change – Revise Metrics**

The SASB revised metric NR0302-18 from “(1) MSHA All-Incidence Rate, (2) Fatality Rate, and (3) Near Miss Frequency Rate for (a) full-time employees and (b) contract employees” to “(1) MSHA All-Incidence Rate, (2) Fatality Rate, (3) Near Miss Frequency Rate (NMFR), and (4) Average hours of health, safety, and emergency response training for (a) full-time employees and (b) contract employees.”

In addition, the topic name shall be revised from, Workforce Health, Safety, and Well-Being to Workforce Health & Safety.

Revision EM-MM:08 – **Industry:** Metals & Mining – **Topic Name:** Business Ethics & Payments Transparency

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic Business Ethics & Payments Transparency to Business Ethics & Transparency.

Revision EM-MM:09 – **Industry:** Metals & Mining; **Topic Name:** Business Ethics & Payments Transparency

**2017 Technical Agenda Item #4-32 Description**

SASB is evaluating the addition of a provisional metric to ensure the usefulness, completeness, and representativeness of the metrics associated with the topic.

**No Revision:**

Based upon additional research and the lack of a clear, quantifiable metric that would result in useful and distributive disclosures, no changes related to the provisional Standard related to Technical Agenda item 4-34 have been made at this time.

\textsuperscript{114} The provisional version of this metric was NR0302-18 – (1) MSHA All-Incidence Rate, (2) Fatality Rate, and (3) Near Miss Frequency Rate for (a) full-time employees and (b) contract employees.
Revision EM-CM:01 – **Industry:** Construction Materials; **Topic Name:** Workforce Health, Safety, and Well-Being

2017 Technical Agenda Item #4-33 Description

SASB is evaluating the revision of a technical protocol associated with metric NR0401-10\(^{115}\) to improve its measurability.

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol of metric NR0401-10 to clearly define “silicosis.”

In addition, the topic name was revised from Workforce Health, Safety, and Well-Being to Workforce Health & Safety.

Revision EM-CM:02 – **Industry:** Construction Materials; **Topic Name:** Product Innovation

2017 Technical Agenda Item #4-34 Description

SASB is evaluating the revision of metric NR0401-11\(^{116}\) to improve its comparability.

**Summary of Change – Revise Metrics**

The SASB revised metric NR0401-11 from, “Percentage of products that can be used for credits in sustainable building design and construction certifications” to “Percentage of products that qualify for credits in sustainable building design and construction certifications.”

---

\(^{115}\) The provisional version of this metric was NR0401-10 – Number of reported cases of silicosis.

\(^{116}\) The provisional version of this metric was NR0401-11 – Percentage of products that can be used for credits in sustainable building design and construction certifications.
Transportation Sector

Automobiles
Auto Parts
Car Rental & Leasing
Airlines
Air Freight & Logistics
Marine Transportation
Cruise Lines
Rail Transportation
Road Transportation

Prepared by the

Sustainability Accounting Standards Board®
Revision TR-AU:01 – **Industry**: Automobiles; **Topic Name**: Labor Relations

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic from Labor Relations to Labor Practices.

Revision TR-AU:02 – **Industry**: Automobiles; **Topic Name**: Fuel Economy & Use-phase Emissions

**2017 Technical Agenda Item #5-2 Description**

The SASB is evaluating the addition of a metric to improve the usefulness and completeness of the metrics associated with the topic.

**Summary of Change – Add Metric**

The SASB added a qualitative metric, “Discussion of strategy to managing fleet fuel economy and emissions risks and opportunities,” to the Fuel Economy & Use-phase Emissions topic to address how companies are positioned to improve fuel economy and reduce emissions from passenger vehicles and light trucks.

Revision TR-AU:03 – **Industry**: Automobiles; **Topic Name**: Fuel Economy & Use-phase Emissions

**2017 Technical Agenda Item #5-1 Description**

The SASB is evaluating completeness, alignment, and clarity of metric TR0101-09.

**No Revision**

Based upon research, market input, and/or recommendations of the SASB, no changes related to Technical Agenda Item #5-1 were made to the provisional standard. Provisional metric TR0101-09 includes in its scope regional fuel economy standards for major automobile markets, with recommended disclosure according to the geographic segments a company currently reports in its financial reporting (i.e., determined by FASB Accounting Standards Codification Topic 280, Segment Reporting). Because regional fuel economy standards vary in approach (e.g., some regions use industry metrics that are based on fuel use per distance driven, while others are based on carbon emissions per distance driven), and because there is now significant market share for automobiles related to alternative fuel, hybrid, or non-fuel vehicles, it is challenging to develop a metric that is comparable for companies that operate in global markets and offer a variety of drive trains and engine types. The SASB recognizes that metrics that are not comparable at the corporate level are not decision-useful for investors.

Revision TR-AU:04 – **Industry**: Automobiles; **Topic Name**: 117 TR0101-09: Sales-weighted average passenger fleet fuel economy consumption or emissions by region

---

117 TR0101-09: Sales-weighted average passenger fleet fuel economy consumption or emissions by region
Labor Relations\textsuperscript{118}

**Summary of Change – Revise Metric**

The SASB revised provisional metric TR0101-07 from “Percentage of active workforce covered under collective-bargaining agreements, broken down by U.S. and foreign employees” to “Percentage of active workforce covered under collective bargaining agreements.”

**Revision TR-AU:05 – Industry: Automobiles; Topic Name: Materials Sourcing**

**2017 Technical Agenda Item #5-4 Description**

SASB is evaluating the revision of metrics TR0101-12\textsuperscript{119} and TR0101-13\textsuperscript{120} associated with the topic to improve cost-effectiveness and decision-usefulness.

**Summary of Change – Revise Topic Scope and Metrics**

The SASB revised the scope of the Materials Sourcing topic to focus on exposure to resource scarcity and supply constraints and removed two provisional metrics:

- TR0101-11 – Percentage of materials costs for items containing critical materials
- TR0101-12 – Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free

Further, the SASB removed conflict minerals from the required scope of disclosure in provisional metric TR0101-13, “Discussion of the management of risks associated with the use of critical materials and conflict minerals.” The SASB also added language to the technical protocol of TR0101-13 to direct companies to discuss their primary critical materials used and any related risks.

**Revision TR-AU:06 – Industry: Automobiles; Topic Name: Materials Sourcing**

**2017 Technical Agenda Item #5-3 Description**

The SASB is evaluating revisions to the topic, including the corresponding metrics, based on its potential to affect corporate value.

\textsuperscript{118} See Revision TR-AU:01 for a revision to the topic name.

\textsuperscript{119} TR0101-12: Percentage of tungsten tin tantalum and gold smelters and refiners within the supply chain that are verified conflict-free

\textsuperscript{120} TR0101-13: Discussion of the management of risks associated with the use of critical materials and conflict minerals
No Revision

Based upon research, market input, and/or recommendations of the SASB, no changes related to Technical Agenda Item #5-3 were made to the provisional standard.

Revision TR-AP:01 – Industry: Auto Parts; Topic Name: Materials Efficiency & Waste Management

Summary of Change – Revise Topic Name

The SASB renamed the provisional topic from Materials Efficiency & Waste Management to Waste Management.

Revision TR-AP:02 – Industry: Auto Parts; Topic Name: Materials Efficiency & Waste Management

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol for provisional metric TR0102-02, “Total amount of waste from manufacturing, percentage hazardous, percentage recycled,” to define hazardous waste and hazardous waste recycled per the relevant regulations at the point of waste generation. Previously, the standard required classification of all hazardous waste, regardless of where it is generated, according to the protocols of the U.S. Environmental Protection Agency (EPA)’s Resource Conservation and Recovery Act (RCRA). Additionally, the SASB added a disclosure requirement to report the hazardous waste regulations that are used to classify the company’s waste.

Revision TR-AP:03 – Industry: Auto Parts; Topic Name: Product Lifecycle Management

Summary of Change – Split Topic

The SASB split the provisional disclosure topic “Product Lifecycle Management” into two separate topics: “Design for Fuel Efficiency” and “Materials Efficiency.”

The following metrics are associated with the Design for Fuel Efficiency topic:

- TR-AP-410a.1 – Revenue from products designed to increase fuel efficiency and/or reduce emissions

The following metrics are associated with the Materials Efficiency topic:

- TR-AP-440b.1 – Percentage of products sold that are recyclable

---

121 See TR-AP:01 for a revision to the topic name.
122 The provisional version of this metric was TR0102-04 - Total addressable market and share of market for products aimed at improved fuel efficiency and/or reduced emissions. See Revision TR-AP:04.
123 The provisional version of this metric was TR0102-05 – Percentage of products sold that are recyclable or reusable.
• TR-AP-440b.2 – Percentage of input materials from recycled or remanufactured content

Revision TR-AP:04 – **Industry:** Auto Parts; **Topic Name:** Product Lifecycle Management

**2017 Technical Agenda Item #5-5 Description**

The SASB is evaluating the revision of metric TR0102-04 to improve the clarity and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised provisional metric TR0102-04 from “Total addressable market and share of market for products aimed at improved fuel efficiency and/or reduced emissions” to “Revenue from products designed to increase fuel efficiency and/or reduce emissions.” In addition, in the technical protocol the SASB changed the term “energy efficiency” to “fuel efficiency” and added “low rolling resistance new and retread tire technologies” to the list of examples of products that may increase fuel efficiency and/or reduce emissions.

Revision TR-AP:05 – **Industry:** Auto Parts; **Topic Name:** Materials Sourcing

**2017 Technical Agenda Item #5-8 Description**

SASB is evaluating the revision of metrics TR0102-09 and TR0102-10 associated with the topic to improve cost-effectiveness and decision-usefulness.

**Summary of Change – Revise Metrics**

The SASB revised the scope of the Materials Sourcing topic to focus on exposure to resource scarcity and supply constraints and removed two provisional metrics:

- TR0102-08 – Percentage of materials costs for items containing critical materials
- TR0102-09 – Percentage of tungsten, tin, tantalum, and gold smelters and refiners within the supply chain that are verified conflict-free

Further, the SASB removed conflict minerals from the required scope of disclosure in provisional metric TR0102-10, “Discussion of the management of risks associated with the use of critical materials and conflict minerals.”

---

124 The provisional version of this metric was TR0102-06 - Weight of products and materials recycled or remanufactured. See Revision TR-AP:07
125 See Revision TR-AP:03 for a split to this topic.
126 TR0102-04: Total addressable market and share of market for products aimed at improved fuel efficiency and/or reduced emissions
127 TR0102-09: Percentage of tungsten, tin, tantalum, and gold smelters and refiners within the supply chain that are verified conflict-free
128 TR0102-10: Discussion of the management of risks associated with the use of critical materials and conflict minerals
SASB also added language to the technical protocol of the metric to direct companies to discuss their primary critical materials used and any related risks.

Revision TR-AP:06 – **Industry**: Auto Parts; **Topic Name**: Materials Sourcing

**2017 Technical Agenda Item #5-7 Description**

The SASB is evaluating revisions to the topic, including the corresponding metrics, based on its potential to affect corporate value.

**No Revision**

Based upon research, market input, and/or recommendations of the SASB, no changes related to Technical Agenda Item #5-7 were made to the provisional standard.

Revision TR-AP:07 – **Industry**: Auto Parts; **Topic Name**: Product Lifecycle Management

**2017 Technical Agenda Item #5-6 Description**

SASB is evaluating the revision of metric TR0102-06 based on the verifiability of the data associated with the metric.

**Summary of Change – Revise Metric**

The SASB revised provisional metric TR0102-06 from “Weight of products and materials recycled or remanufactured” to “Percentage of input materials from recycled or remanufactured content.”

Revision TR-AP:08 – **Industry**: Auto Parts; **Topic Name**: Product Lifecycle Management

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol of provisional metric TR0102-05, “Percentage of products sold that are recyclable or reusable,” to recognize scrap tires that fulfill U.S. Environmental Protection Agency (EPA) criteria as reusable products within the scope of the metric.

Revision TR-AL:01 – **Industry**: Airlines; **Topic Name**: Environmental Footprint of Fuel Use

---

129 See Revision TR-AP:03 for a split to this topic.
130 TR0102-06: Weight of products and materials recycled or remanufactured
131 See Revision TR-AP:03 for a split to this topic.
Summary of Change – Revise Topic Name
The SASB renamed the provisional topic from Environmental Footprint of Fuel Use to Greenhouse Gas Emissions.

Revision TR-AL:02 – Industry: Airlines; Topic Name: Environmental Footprint of Fuel Use

Summary of Change – Revise Metric
The SASB revised provisional metric TR0201-03 from “Total fuel consumed, percentage renewable” to “(1) Total fuel consumed, (2) percentage alternative, (3) percentage sustainable.”

Revision TR-AL:03 – Industry: Airlines; Topic Name: Environmental Footprint of Fuel Use

2017 Technical Agenda Item #5-9 Description
The SASB is evaluating the removal of metric TR0201-04 based on the fact that it is already disclosed in financial filings.

Summary of Change – Remove Metric
The SASB removed provisional metric TR0201-04, “Notional amount of fuel hedged, by maturity date.”

Revision TR-AL:04 – Industry: Airlines; Topic Name: Environmental Footprint of Fuel Use

2017 Technical Agenda Item #5-10 Description
The SASB is evaluating the completeness of the metrics associated with the topic.

No Revision
Based upon research, market input, and/or recommendations of the SASB, no changes related to Technical Agenda Item #5-10 were made to the provisional standard. An updated fleet fuel use efficiency metric will be researched, vetted, and potentially proposed in the future after the publication of a new International Civil Aviation Organization (ICAO) carbon standard.

Revision TR-AL:05 – Industry: Airlines; Topic Name: Customer Welfare

132 See Revision TR-AL:01 for a revision to the topic name.
133 See Revision TR-AL:01 for a revision to the topic name.
134 TR0201-04: Notional amount of fuel hedged, by maturity date
135 See Revision TR-AL:01 for a revision to the topic name.
2017 Technical Agenda Item #5-11 Description
The SASB is evaluating the addition of a topic and a corresponding metric based upon materiality.

Summary of Change – Retract Proposal to Add Topic
The SASB has not added the disclosure topic, Customer Welfare, which was considered as a potential new topic in the 2017/18 Industry Exposure Draft Standard.

Revision TR-AL:06 – Industry: Airlines; Topic Name: Labor Relations

Summary of Change – Revise Topic Name
The SASB renamed the provisional topic from Labor Relations to Labor Practices.

Supporting Rationale
The provisional disclosure topic addresses the management of, and communication around, issues such as worker pay and working conditions. Such practices generate actual and/or potential financial impacts, often related to a company’s reputation and risks such as conflicts with workers that could lead to strikes that slow or shut down operations. The revised topic name enables a clearer distinction concerning the sustainability angle of this topic, which is centered on labor practices such as wages, working conditions, and freedom of association.

Revision TR-AL:07 – Industry: Airlines; Topic Name: Labor Relations ¹³⁶

Summary of Change – Revise Metric
The SASB revised provisional metric TR0201-05 from “Percentage of active workforce covered under collective bargaining agreements, broken down by U.S. and foreign employees” to “Percentage of active workforce covered under collective bargaining agreements.”

Revision TR-AF:01 – Industry: Air Freight & Logistics; Topic Name: Environmental Footprint of Fuel Use

Summary of Change – Split Topic
The SASB split the provisional disclosure topic Environmental Footprint of Fuel Use into two separate topics: Greenhouse Gas Emissions and Air Quality.

The following metrics are associated with the Greenhouse Gas Emissions topic:

¹³⁶ See Revision TR-AL:06 for a revision to the topic name.
• TR-AF-110a.1 – Gross global Scope 1 emissions\(^{137}\)

• TR-AF-110a.2 – Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets\(^{138}\)

• TR-AF-110a.3 – Fuel consumed, by (1) road transport, percentage (a) natural gas and (b) renewable, and (2) air transport, percentage (a) alternative and (b) sustainable\(^{139}\)

The following metric is associated with the Air Quality topic:

• TR-AF-120a.1 – Air emissions of the following pollutants: NO\(_x\) (excluding N\(_2\)O), SO\(_x\), and particulate matter (PM\(_{10}\))\(^{140}\)

Revision TR-AF:02 – **Industry:** Air Freight & Logistics; **Topic Name:** Environmental Footprint of Fuel Use\(^{141}\)

**Summary of Change – Revise Metric**

The SASB revised provisional metric TR0202-03 from “Total fuel consumed, percentage renewable for (1) road transport and (2) air transport” to " Fuel consumed, by (1) road transport, percentage (a) natural gas and (b) renewable, and (2) air transport, percentage (a) alternative and (b) sustainable."*

Revision TR-AF:03 – **Industry:** Air Freight & Logistics; **Topic Name:** Environmental Footprint of Fuel Use\(^{142}\)

2017 Technical Agenda Item #5-13 Description

The SASB is evaluating the completeness of the metrics associated with the topic.

**No Revision**

Based upon research, market input, and/or recommendations of the SASB, no changes related to Technical Agenda Item #5-13 were made to the provisional standard. An updated fleet fuel use efficiency metric will be researched, vetted, and potentially proposed in the future after the publication of the new International Civil Aviation Organization carbon standard.

---

\(^{137}\) The provisional version of this metric was TR0202-01 – Gross global Scope 1 emissions.

\(^{138}\) The provisional version of this metric was TR20202-02 – Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets.

\(^{139}\) The provisional version of this metric was TR0202-03 – Total fuel consumed, percentage renewable for (1) road transportation and (2) air transport. See Revision TR-AF:02.

\(^{140}\) The provisional version of this metric was TR0202-04 – Air emissions for the following pollutants: NO\(_x\), SO\(_x\), and particulate matter (PM).

\(^{141}\) See Revision TR-AF:01 for a split of this topic.

\(^{142}\) See Revision TR-AF:01 for a split of this topic.

2017 Technical Agenda Item #5-12 Description
SASB is evaluating the suitability of the topic name.

Summary of Change – Revise Topic Name
The SASB renamed the provisional topic from Fair Labor Practices to Labor Practices.

Revision TR-AF:05 – Industry: Air Freight & Logistics; Topic Name: Fair Labor Practices

Summary of Change – Revise Technical Protocol
The SASB revised the technical protocol associated with TR0202-05 to clarify that the definition of independent contractors is based on the U.S. Internal Revenue Service (IRS) “20-Factor test,” or regional equivalent. While the technical protocol of the provisional metric states that U.S. IRS guidance defines independent contractors (or local laws), it does not specify the relevant U.S. IRS guidance. In addition, the SASB clarified the potential application of regionally equivalent laws.

Revision TR-AF:06 – Industry: Air Freight & Logistics; Topic Name: Accidents & Safety Management

Summary of Change – Split Topic
The SASB split the provisional disclosure topic Accidents & Safety Management into two separate topics: Employee Health & Safety and Accident & Safety Management.

The following metrics are associated with the Employee Health & Safety topic:

- TR-AF-320a.1 – (1) Total recordable incident rate (TRIR) and (2) fatality rate for (a) direct employees and (b) contract employees

The following metrics are associated with the Accident & Safety Management topic:

- TR-AF-540a.1 – Description of implementation and outcomes of a Safety Management System

---

143 See Revision TR-AF:04 for a revision to the topic name.
144 TR0202-05: Percentage of drivers who are classified as independent contractors
145 The provisional version of this metric was TR0202-10 – (1) Total recordable injury rate (TRIR) and (2) fatality rate for (a) full-time employees and (b) contract employees.
146 The provisional version of this metric was TR0202-07 – Description of implementation and outcomes of Safety Management System.
• TR-AF-540a.1 – Number of aviation accidents\footnote{The provisional version of this metric was TR0202-08 – Number of aviation accidents.}

• TR-AF-540a.1 – Number of road accidents and incidents\footnote{The provisional version of this metric was TR0202-09 – Number of road accidents and incidents.}

• TR-AF-540a.1 – Safety Measurement System BASIC percentiles for: (1) Unsafe Driving, (2) Hours-of-Service Compliance, (3) Driver Fitness, (4) Controlled Substances/Alcohol, (5) Vehicle Maintenance, and (6) Hazardous Materials Compliance\footnote{The provisional version of this metric was TR0202-11 – Safety Measurement System BASIC percentiles for: (1) Unsafe Driving, (2) Hours-of-Service Compliance, (3) Driver Fitness, (4) Controlled Substances/Alcohol, (5) Vehicle Maintenance, and (6) Hazardous Materials Compliance.}

Revision TR-MT:01 – \textbf{Industry:} Marine Transportation; \textbf{Topic Name:} Environmental Footprint of Fuel Use

\textbf{Summary of Change – Split Topic}

The SASB split the provisional disclosure topic Environmental Footprint of Fuel Use into two separate topics: Greenhouse Gas Emissions and Air Quality.

The following metrics are associated with the Greenhouse Gas Emissions topic:

• TR-MT-110a.1 – Gross global Scope 1 emissions\footnote{The provisional version of this metric was TR0301-01 – Gross global Scope 1 emissions.}

• TR-MT-110a.2 – Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets\footnote{The provisional version of this metric was TR0301-02 – Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets.}

• TR-MT-110a.3 – Total fuel consumed, percentage renewable\footnote{The provisional version of this metric was TR0301-03 – Total fuel consumed, percentage renewable.}

• TR-MT-110a.4 – Average Energy Efficiency Design Index (EEDI) for new ships\footnote{The provisional version of this metric was TR0301-05 – Energy Efficiency Design Index (EEDI) for new ships.}

The following metrics are associated with the Air Quality topic:

• TR-MT-120a.1 – Air emissions of the following pollutants: NO\textsubscript{x} (excluding N\textsubscript{2}O), SO\textsubscript{x}, and particulate matter (PM\textsubscript{10})\footnote{The provisional version of this metric was TR0301-04 – Air emissions for the following pollutants: NO\textsubscript{x}, SO\textsubscript{x}, and particulate matter (PM).}

Revision TR-MT:02 – \textbf{Industry:} Marine Transportation;
Topic Name: Accidents & Safety Management

Summary of Change – Split Topic

The SASB split the provisional disclosure topic Accidents & Safety Management into two separate topics: Employee Health & Safety and Accident & Safety Management.

The following metrics are associated with the Employee Health & Safety topic:

- TR-MT-320a.1 – Lost time incident rate (LTIR)\(^{155}\)

The following metrics are associated with the Accident & Safety Management topic:

- TR-MT-540a.1 – Number of marine casualties, percentage classified as very serious marine casualties\(^ {156}\)
- TR-MT-540a.2 – Number of Conditions of Class or Recommendations\(^ {157}\)
- TR-MT-540a.3 – Number of port state control (1) deficiencies and (2) detentions\(^ {158}\)

Revision TR-MT:03 – Industry: Marine Transportation; Topic Name: Accidents & Safety Management\(^ {159}\)

Summary of Change – Revise Metric

The SASB revised provisional metric TR0301-11 from “Number of serious marine incidents” to “Number of marine casualties, percentage classified as very serious.” In addition, the SASB revised the technical protocol to replace definitions from the U.S. Code of Federal Regulations 46 CFR 4.03-2 with definitions from the United Nations International Maritime Organization (IMO)’s Code of International Standards and Recommended Practices for a Safety Investigation into a Marine Casualty or Marine Incident (also known as the “Casualty Investigation Code”).

Revision TR-CL:01 – Industry: Cruise Lines; Topic Name: Fuel Use & Air Emissions

Summary of Change – Split Topic

The SASB split the provisional disclosure topic Fuel Use & Air Emissions into two separate topics: Greenhouse Gas Emissions and Air Quality.

The following metrics are associated with the Greenhouse Gas Emissions topic:

---

\(^{155}\) The provisional version of this metric was TR0301-12 – Lost time injury rate.

\(^{156}\) The provisional version of this metric was TR0301-11 – Number of serious marine incidents.

\(^{157}\) The provisional version of this metric was TR0301-13 – Number of Conditions of Class or Recommendations.

\(^{158}\) The provisional version of this metric was TR0301-14 – Number of port state control (1) deficiencies and (2) detentions.

\(^{159}\) See Revision TR-MT:02 for a split to this topic.
• TR-CL-110a.1 – Gross global Scope 1 emissions\textsuperscript{160}

• TR-CL-110a.2 – Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets\textsuperscript{161}

• TR-CL-110a.3 – (1) Total energy consumed, (2) percentage heavy fuel oil, (3) percentage onshore power supply (OPS), and (3) percentage renewable\textsuperscript{162}

• TR-CL-110a.4 – Average Energy Efficiency Design Index (EEDI) for new ships\textsuperscript{163}

The following metrics are associated with the Air Quality topic:

• TR-CL-120a.1 – Air emissions of the following pollutants: (1) NO\textsubscript{x} (excluding N\textsubscript{2}O), (2) SO\textsubscript{x}, and (3) particulate matter (PM\textsubscript{10})\textsuperscript{164}

Revision TR-CL:02 – \textbf{Industry:} Cruise Lines; \textbf{Topic Name:} Fair Labor Practices

2017 Technical Agenda Item #5-14 Description

SASB is evaluating the suitability of the topic name.

Summary of Change – Revise Topic Name

The SASB renamed the provisional topic Fair Labor Practices to Labor Practices.

Revision TR-CL:03 – \textbf{Industry:} Cruise Lines; \textbf{Topic Name:} Shipboard Health & Safety Management

Summary of Change – Split Topic

The SASB split the provisional disclosure topic Shipboard Health & Safety Management into two separate topics: Customer Health & Safety and Employee Health & Safety.

The following metrics are associated with the Employee Health & Safety topic:

• TR-CL-320a.1 – Seafarer lost time incident rate (LTIR)\textsuperscript{165}

\textsuperscript{160} The provisional version of this metric was SV0205-01 – Gross global Scope 1 emissions.
\textsuperscript{161} The provisional version of this metric was SV0205-02 – Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets.
\textsuperscript{162} The provisional version of this metric was SV0205-03 – Total energy consumed, percentage from: (1) heavy fuel oil, (2) Onshore Power Supply (OPS), and (3) renewables.
\textsuperscript{163} The provisional version of this metric was SV0205-04 – Average Energy Efficiency Design Index (EEDI) for new ships.
\textsuperscript{164} The provisional version of this metric was SV0205-05 – Air emissions for the following pollutants: NO\textsubscript{x}, SO\textsubscript{x}, and particulate matter (PM).
\textsuperscript{165} The provisional version of this metric was SV0205-13 – Seafarer lost time injury rate.
The following metrics are associated with the Customer Health & Safety topic:

- TR-CL-250a.1 – Number of alleged crime incidents involving passengers or employees

- TR-CL-250a.2 – Fleet average CDC Vessel Sanitation Program inspection score, percentage of inspections failed

- TR-CL-250a.3 – Number of (1) serious injuries per million passengers and (2) voyages with a gastrointestinal illness count exceeding 2%

Revision TR-CL:04 – **Industry:** Cruise Lines; **Topic Name:** Accident Management

**Summary of Change – Revise Metric**

The SASB revised provisional metric SV0205-20 from "Number of accidents and incidents" to "Number of marine casualties, percentage classified as very serious marine casualties." In addition, the SASB revised the technical protocol to replace definitions from the U.S. Code of Federal Regulations 46 CFR 4.03-2 with definitions from the United Nations International Maritime Organization (IMO)’s Code of International Standards and Recommended Practices for a Safety Investigation into a Marine Casualty or Marine Incident (also known as the "Casualty Investigation Code").

Revision TR-RA:01 – **Industry:** Rail Transportation; **Topic Name:** Environmental Footprint of Fuel Use

**Summary of Change – Split Topic**

The SASB split the provisional disclosure topic Environmental Footprint of Fuel Use into two separate topics: Greenhouse Gas Emissions and Air Quality.

The following metrics are associated with the Greenhouse Gas Emissions topic:

- TR-RA-110a.1 – Gross global Scope 1 emissions

- TR-RA-110a.2 – Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets

---

166 The provisional version of this metric was SV0205-10 – Number of alleged crime incidents involving passengers or employees.

167 The provisional version of this metric was SV0205-11 – Fleet average CDC Vessel Sanitation Program inspection score, percentage of inspections failed.

168 The provisional version of this metric was SV0205-12 – Number of (1) serious injuries per million customers and (2) voyages with a gastrointestinal illness count exceeding 2%.

169 The provisional version of this metric was TR0401-01 – Gross global Scope 1 emissions.

170 The provisional version of this metric was TR0401-02 – Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets.
• TR-RA-110a.3 – Total fuel consumed, percentage renewable

The following metrics are associated with the Air Emissions topic:

• TR-RA-120a.1 – Air emissions of the following pollutants: NOx (excluding N2O) and particulate matter (PM10)

Revision TR-RA:02 – **Industry:** Rail Transportation; **Topic Name:** Accidents & Safety Management

**Summary of Change – Split Topic**

The SASB split the provisional disclosure topic Accidents & Safety Management into two separate topics: Employee Health & Safety and Accident & Safety Management.

The following metrics are associated with the Employee Health & Safety topic:

• TR-RA-320a.1 – (1) Total recordable incident rate (TRIR), (2) fatality rate, and (3) near miss frequency rate (NMFR)

The following metrics are associated with the Accident & Safety Management topic:

• TR-RA-540a.1 – Number of accidents and incidents

• TR-RA-540a.2 – Number of: (1) accident releases and (2) non-accident releases (NARs)

• TR-RA-540a.3 – Number of Federal Rail Administration (FRA) Recommended Violation Defects

• TR-RA-540a.4 – Frequency of internal railway integrity inspections

Revision TR-RO:01 – **Industry:** Road Transportation; **Topic Name:** Environmental Footprint of Fuel Use

---

171 The provisional version of this metric was TR0401-03 – Total fuel consumed, percentage renewable.
172 The provisional version of this metric was TR0401-04 – Air emissions for the following pollutants: NOx, SOx, and particulate matter (PM).
173 The provisional version of this metric was TR0401-07 – (1) Total recordable injury rate, (2) fatality rate, and (3) near miss frequency rate.
174 The provisional version of this metric was TR0401-06 – Number of accidents and incidents.
175 The provisional version of this metric was TR0401-08 – Number of (1) accident releases and (2) non-accident releases (NARs).
176 The provisional version of this metric was TR0401-09 – Number of Federal Rail Administration (FRA) Recommended Violation Defects.
177 The provisional version of this metric was TR0401-10 – Frequency of internal railway integrity inspections.
Summary of Change – Split Topic
The SASB split the provisional disclosure topic Environmental Footprint of Fuel Use into two separate topics: Greenhouse Gas Emissions and Air Quality.

The following metrics are associated with the Greenhouse Gas Emission topic:

- TR-RO-110a.1 – Gross global Scope 1 emissions
- TR-RO-110a.2 – Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets
- TR-RO-110a.3 – Total fuel consumed, percentage natural gas, percentage renewable

The following metrics are associated with the Air Quality topic:

- TR-RO-120a.1 – Air emissions of the following pollutants: NOx (excluding N2O), SOx, and particulate matter (PM10)

Revision TR-RO:02 – Industry: Road Transportation; Topic Name: Environmental Footprint of Fuel Use

Summary of Change – Revise Metric
The SASB revised provisional metric TR0402-03 from “Total fuel consumed, percentage renewable” to “Total fuel consumed, percentage natural gas, percentage renewable.”

Revision TR-RO:03 – Industry: Road Transportation; Topic Name: Accidents & Safety Management

Summary of Change – Move Metric
The SASB moved provisional metric TR0402-08, “(1) Total recordable injury rate and (2) fatality rate for (a) full-time employees and (b) contract employees,” from the Accidents & Safety Management disclosure topic to the Driver Working Conditions topic.

178 The provisional version of this metric was TR0402-01 – Gross global Scope 1 emissions.
179 The provisional version of this metric was TR0402-02 – Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets.
180 The provisional version of this metric was TR0402-03 – Total fuel consumed, percentage renewable.
181 The provisional version of this metric was TR0402-04 – Air emissions for the following pollutants: NOx, SOx, and particulate matter (PM).
182 See Revision TR-RO:01 for a split to this topic.
<table>
<thead>
<tr>
<th>SERVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
</tr>
<tr>
<td>Professional &amp; Commercial Services</td>
</tr>
<tr>
<td>Hotels &amp; Lodging</td>
</tr>
<tr>
<td>Casinos &amp; Gaming</td>
</tr>
<tr>
<td>Leisure Facilities</td>
</tr>
<tr>
<td>Advertising &amp; Marketing</td>
</tr>
<tr>
<td>Media &amp; Entertainment</td>
</tr>
</tbody>
</table>

Prepared by the

Sustainability Accounting Standards Board®
Revision SV-ED:01 – **Industry**: Education; **Topic Name**: Data Security

2017 Technical Agenda Item #6-1 Description

SASB is evaluating the addition of a topic, including corresponding metrics, based on its potential to affect corporate value, and relevance across the industry.

Summary of Change – Add Topic and Metrics

The SASB added the disclosure topic Data Security to the standard, along with the following, corresponding metrics:

- Description of approach to identifying and addressing data security risks
- Description of policies and practices relating to collection, usage, and retention of student information
- Number of data breaches, percentage involving students’ personally identifiable information (PII), number of students affected

Revision SV-PS:01 – **Industry**: Professional & Commercial Services; **Topic Name**: Professional Integrity

2017 Technical Agenda Item #6-2 Description

SASB is evaluating the revision of the technical protocol for metric SV0102-02 to improve clarity.

Summary of Change – Revise Metric

The SASB revised provisional metric SV0102-02 from “Amount of legal and regulatory fines and settlements associated with professional integrity or duty of care” to “Total amount of monetary losses as a result of legal proceedings associated with professional integrity” and updated the technical protocol to clarify what is included in the scope of the metric.

---

183 Note – Disclosure shall include a description of corrective actions implemented in response to data breaches.
184 SV0102-02: Amount of legal and regulatory fines and settlements associated with professional integrity or duty of care
185 Note to SV0102-02 – The entity shall briefly describe the nature, context, and any corrective actions taken as a result of the monetary losses.
Revision SV-PS:02 – **Industry:** Professional & Commercial Services; **Topic Name:** Data Security

**2017 Technical Agenda Item #6-3 Description**
SASB is evaluating the revision of metric SV0102-05\(^\text{186}\) to improve comparability and completeness.

**Summary of Change – Revise Metric**
The SASB revised provisional metric SV0102-05 from “Number of data security breaches and percentage involving customers’ confidential business information or personally identifiable information,” to “Number of data breaches, percentage involving confidential business information (CBI) or personally identifiable information (PII), number of customers affected.”

Revision SV-PS:03 – **Industry:** Professional & Commercial Services; **Topic Name:** Workforce Diversity & Engagement

**Summary of Change – Revise Technical Protocol**
The SASB revised the technical protocol for provisional metric SV0102-06, “Percentage of gender and racial/ethnic group representation for (1) executives and (2) all others,” to require gender breakdown globally but racial/ethnic breakdown per the U.S. Equal Employment Opportunity Commission (EEOC)’s EEO-1 Job Classification Guide categories only in the United States. Additionally, the SASB revised the technical protocol to specify that companies shall describe their policies for promoting inclusivity and fostering equitable employee representation across their global operations.

Revision SV-HL:01 – **Industry:** Hotels & Lodging; **Topic Name:** Energy & Water Management

**2017 Technical Agenda Item #6-4 Description**
SASB is evaluating revisions to the topic and its associated metrics based on its materiality and actionability by companies.

**Summary of Change – Split Topic**
The SASB split the provisional disclosure topic Energy & Water Management into two separate topics: Energy Management and Water Management.

The following metric is associated with the Energy Management topic:

- SV0201-01 – Total energy consumed, percentage grid electricity, percentage renewable

\(^{186}\) SV0102-05: Number of data security breaches and percentage involving customers’ confidential business information or personally identifiable information
The following metric is associated with the Water Management topic:

- SV0201-02 – (1) Total water withdrawn and (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress^{187}

Revision SV-HL:02 – Industry: Hotels & Lodging; Topic Name: Energy & Water Management^{188}

Summary of Change – Revise Metric

The SASB revised provisional metric SV0201-02 from “Total water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress” to “(1) Total water withdrawn and (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress.”

Revision SV-HT:03 – Industry: Hotels & Lodging; Topic Name: Ecosystem Protection & Climate Adaptation

2017 Technical Agenda Item #6-5 Description

SASB is evaluating revisions to the topic and its associated metrics based on its materiality and actionability by companies.

Summary of Change – Split Topic

The SASB split the provisional disclosure topic Ecosystem Protection & Climate Adaptation into two separate topics: Ecological Impacts and Climate Change Adaptation.

The following metrics are associated with the Ecological Impacts topic:

- SV0201-04 – Number of lodging facilities located in or near areas of protected conservation status or endangered species habitat
- SV0201-05 – Description of environmental management policies and practices to preserve ecosystem services

The following metric is associated with the Climate Change Adaptation topic:

- SV0201-03 – Number of lodging facilities located in 100-year flood zones^{189}

---

^{187} The provisional version of the metric was SV0201-02 – Total water withdrawn, percentage recycled, percentage in regions with High or Extremely High Baseline Water Stress. Please see Revision SV-HL:02.
^{188} See Revision SV-HL:04 for the revised topic name.
^{189} The provisional version of the metric was SV0201-03 – Number of lodging facilities located in FEMA Special Flood Hazard Areas or foreign equivalent.
Revision SV-HL:04 – **Industry:** Hotels & Lodging; **Topic Name:** Fair Labor Practices

**2017 Technical Agenda Item #6-7 Description**
SASB is evaluating the suitability of the topic name.

**Summary of Change – Revise Topic Name**
The SASB renamed the provisional disclosure topic from Fair Labor Practices to Labor Practices.

Revision SV-HL:05 – **Industry:** Hotels & Lodging; **Topic Name:** Fair Labor Practices

**2017 Technical Agenda Item #6-6 Description**
SASB is evaluating the revision of metric SV0201-08 based on the representativeness and usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metric**
The SASB revised provisional metric SV0201-08 from “Average hourly wage for hotel employees, by region; percentage of hotel employees earning minimum wage,” to “(1) Average hourly wage and (2) percentage of lodging facility employees earning minimum wage, by region.”

Revision SV-HT:06 – **Industry:** Hotels & Lodging; **Topic Name:** Fair Labor Practices

**2017 Technical Agenda Item #6-8 Description**
SASB is evaluating the revision of metric SV0201-07 based on the completeness of the metrics associated with the topic; and is evaluating the addition of a metric based on the usefulness of the metrics associated with the topic.

**Summary of Change – Add Metric and Revise Metric**
The SASB added a new metric to the Fair Labor Practices topic, “Description of policies and programs to prevent worker harassment.”

---

190 See Revision SV-HL:04 for the revised topic name.
191 SV0201-08: Average hourly wage for hotel employees, by region; percentage of hotel employees earning minimum wage
192 See Revision SV-HL:04 for the revised topic name.
193 SV0201-07: Amount of legal and regulatory fines and settlements associated with labor law violations
194 See Revision SV-HL:04 for the revised topic name.
Resource Transformation Sector

Chemicals
Aerospace & Defense
Electrical & Electronic Equipment
Industrial Machinery & Goods
Containers & Packaging

Prepared by the
Sustainability Accounting Standards Board®
Revision RT-CH:01 – **Industry**: Chemicals; **Topic Name**: Greenhouse Gas Emissions

**Summary of Change – Revise Technical Protocol:**

The SASB revised the technical protocol to clarify aspects of the World Resources Institute (WRI) Greenhouse Gas (GHG) guidance related to the calculation and reporting of GHG emissions.

Revision RT-CH:02 – **Industry**: Chemicals; **Topic Name**: Air Quality

**2017 Technical Agenda Item #7-1 Description**

SASB is evaluating the removal of metric RT0101-04\(^{195}\) to improve the cost-effectiveness of the standard.

**Summary of Change – Remove Metric**

SASB removed metric RT0101-04, “Number of production facilities in or near areas of dense population.”

Revision RT-CH:03 – **Industry**: Chemicals; **Topic Name**: Energy & Feedstock Management

**2017 Technical Agenda Item #7-2 Description**

SASB is evaluating the removal of metric RT0101-06\(^{196}\) to improve the cost-effectiveness of the standard.

**Summary of Change – Remove Metric**

The SASB removed metric RT0101-06, “Percentage of raw materials from renewable resources.”

Revision RT-CH:04 – **Industry**: Chemicals; **Topic Name**: Energy & Feedstock Management

**2017 Technical Agenda Item #7-3 Description**

SASB is evaluating revisions to metric RT0101-05\(^{197}\) to improve the decision-usefulness and completeness of the metrics associated with the topic.

**Summary of Change – Revise Metrics:**

The SASB revised provisional metric RT0101-05, “Total energy consumed, percentage grid electricity, percentage renewable,” to add a new metric component that enables companies to disclose their share of self-generated

---

\(^{195}\) RT0101-04. Number of production facilities in or near areas of dense population

\(^{196}\) RT0101-06. Percentage of raw materials from renewable resources

\(^{197}\) RT0101-05. Total energy consumed, percentage grid electricity, percentage renewable
energy, and a secondary technical protocol line that allows registrants to report the amount of energy sold to an electric utility or end-use customer.

Revision RT-CH:05 – **Industry**: Chemicals; **Topic Name**: Water Management

2017 Technical Agenda Item #7-4 Description

SASB is evaluating revisions to the water quality metric RT0101-08 to improve its decision-usefulness.

**Summary of Change – Revise Metric:**

The SASB revised metric RT0101-08, “Number of incidents of non-compliance with water quality permits, standards, and regulations,” to limit the scope to incidents of non-compliance to those that result in a formal enforcement action, as opposed to all types of incidents of non-compliance regardless of whether such incidents resulted in enforcement actions.

Revision RT-CH:06 – **Industry**: Chemicals; **Topic Name**: Water Management

**Summary of Change – Revise Metric:**

The SASB implemented the following revisions to the metrics associated with the Water Management disclosure topic:

- Removed the water recycling component of provisional metric RT0101-07 and replaced it with water consumed; as a result, the metric was revised from, “(1) Total water withdrawn, percentage in regions with High or Extremely High Baseline Water Stress and (2) percentage recycled water usage,” to 1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress”

- Added the following water management discussion and analysis metric, “Discussion of water management risks and discussion of strategies and practices to mitigate those risks.”

Revision RT-CH:07 – **Industry**: Chemicals; **Topic Name**: Hazardous Waste Management

2017 Technical Agenda Item #7-5 Description

SASB is evaluating the technical protocol associated with metric RT0101-09 to improve its cost-effectiveness and alignment with existing reporting frameworks.

---

198 RT0101-08: Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations
199 RT0101-09: Amount of hazardous waste, percentage recycled
Summary of Change – Revise Technical Protocol:
The SASB revised the technical protocol of provisional metric RT0101-09, “Amount of hazardous waste, percentage recycled,” to define hazardous waste and hazardous waste recycled per the regulations prevalent at the point of waste generation. The revised approach eliminates the requirement to classify all hazardous waste, regardless of where it is generated, according to the protocols of the U.S. EPA’s Resource Conservation and Recovery Act (RCRA). Additionally, the SASB included a new disclosure requirement to report the hazardous waste regulations that were used to classify the company’s waste.

Revision RT-CH:08 – Industry: Chemicals; Topic Name: Community Relations

2017 Technical Agenda Item #7-6 Description
SASB is evaluating the addition of a new topic and a new metric based on its relevance across the industry and the potential for performance on this topic to affect corporate value.

Summary of Change – Add Topic and Metric
The SASB added a topic, Community Relations, along with an associated metric, “Description of process to manage risks and opportunities associated with community interests.” The technical protocol of the metric provides guidance for companies to discuss the internal processes used to manage risks and opportunities related to economic, environmental, and social aspects of community relations.

Revision RT-CH:09 – Industry: Chemicals; Topic Name: Safety & Environmental Stewardship of Chemicals & Genetically Modified Organisms

2017 Technical Agenda Item #7-7 Description
SASB is evaluating splitting the topic to improve the quality and clarity of the standard.

Summary of Change – Split Topic
The SASB split the provisional disclosure topic Safety & Environmental Stewardship of Chemicals & Genetically Modified Organisms into two separate disclosure topics: Safety & Environmental Stewardship of Chemicals, and Genetically Modified Organisms.

The following metrics are associated with the Safety & Environmental Stewardship of Chemicals topic:

- RT-CH-410a.1 – Percentage of products that contain Globally Harmonized System of Classification and Labelling of Chemicals Category I and II hazardous substances, percentage that have undergone a hazard assessment
- RT-CH-410b.1 – Discussion of strategy to (1) manage chemicals of concern and (2) develop alternatives with reduced human and/or environmental impact
The following metric is associated with the Genetically Modified Organisms topic:

- RT-CH-410c.1 – Percentage of products by revenue that contain genetically modified organisms (GMOs)

Revision RT-CH:10 – **Industry**: Chemicals; **Topic Name**: Safety & Environmental Stewardship of Chemicals & Genetically Modified Organisms

**Summary of Change – Revise Metric:**

The SASB replaced the provisional quantitative metrics RT0101-10 and RT0101-11\(^{200}\) with a new metric, “Percentage of products that contain Globally Harmonized System of Classification and Labelling of Chemicals Category I and II hazardous substances, percentage that have undergone a hazard assessment.”

Revision RT-CH:11 – **Industry**: Chemicals; **Topic Name**: Safety & Environmental Stewardship of Chemicals & Genetically Modified Organisms

**Summary of Change – Revise Technical Protocol:**

The SASB revised the technical protocol associated with metric RT0101-12 to more effectively communicate a company’s management approach to chemical safety and stewardship, including revisions to disclosure elements related to processes used to characterize chemical risks and gather product safety and environmental impact data.

Revision RT-CH:12 – **Industry**: Chemicals; **Topic Name**: Political Spending

**2017 Technical Agenda Item #7-8 Description**

SASB removed this topic based on a lack of evidence that performance on this topic has the potential to significantly affect corporate value.

**Summary of Change – Remove Topic**

The SASB removed the Political Spending topic and the two associated quantitative metrics\(^ {201}\) based on a lack of evidence that the topic has the potential to significantly affect corporate value or operating performance.

---

200 RT0101-10, “Percentage of products that contain Registration, Evaluation, Authorization and Restriction of Chemical (REACH) substances of very high concern (SVHC);” RT0101-11 “Percentage of products that contain Class I World Health Organization (WHO) Acute Toxicity Hazard Categories pesticides”

201 RT0101-13: Amount of political campaign spending, lobbying expenditures, and contributions to tax-exempt groups including trade organizations; RT0101-14: Five largest political, lobbying, or tax-exempt group expenditures
Revision RT-CH:13 – **Industry**: Chemicals; **Topic Name**: Management of the Legal & Regulatory Environment

2017 Technical Agenda Item #7-9 Description

SASB is evaluating the potential for a new topic and associated metrics, based on the potential to affect corporate value. SASB will evaluate metrics RT0101-15\(^2\) and RT0101-16\(^3\) for relevance.

**Summary of Change – Add Topic and Metric**

SASB added the following topic, Management of the Legal & Regulatory Environment topic, with an associated qualitative metric: “Discussion of positions on the regulatory environment related to environmental and social factors, and description of efforts to manage risks and opportunities presented.”

Revision RT-CH:14 – **Industry**: Chemicals; **Topic Name**: Health, Safety, and Emergency Management

2017 Technical Agenda Item #7-10 Description

SASB is evaluating the removal of metric RT0101-19\(^4\) to improve the cost-effectiveness of the standard.

**Summary of Change – Remove Metric:**

SASB removed metric RT0101-19, “Challenges to the Safety Systems indicator rate (Tier 3).”

Revision RT-CH:15 – **Industry**: Chemicals; **Topic Name**: Health, Safety, and Emergency Management

**Summary of Change – Topic Split:**

The SASB staff split the provisional disclosure topic “Health, Safety, and Emergency Management” into two separate topics - “Workforce Health & Safety” and “Operational Safety, Emergency Preparedness, and Response” – with the following associated metrics:

**Workforce Health & Safety**

- RT0101-20 (1) Total recordable incident rate (TRIR) and (2) fatality rate for all employees
- RT0101-21 Description of efforts to assess, monitor, and reduce exposure of employees and contract workers to long-term (chronic) health risks

---

\(^2\) RT0101-15: Amount of political campaign spending, lobbying expenditures, and contributions to tax-exempt groups, including trade associations

\(^3\) RT0101-16: Five largest political, lobbying, or tax-exempt group expenditures

\(^4\) RT0101-19: Challenges to the Safety Systems indicator rate (Tier 3)
Operational Safety, Emergency Preparedness, and Response

RT0101-17 Process Safety Incidents Count (PSIC), Process Safety Total Incident Rate (PSTIR), and Process Safety Incident Severity Rate (PSISR)

RT0101-18 Number of transport incidents

Revision RT-AE:01 – **Industry**: Aerospace & Defense; **Topic Name**: Hazardous Waste Management

**2017 Technical Agenda Item #7-11 Description**

SASB is evaluating the technical protocol associated with metric RT0201-02 to improve its cost-effectiveness and alignment with reporting frameworks.

**Summary of Change – Revise Technical Protocol:**

The SASB revised the technical protocol of metric RT0201-02, “Amount of hazardous waste, percentage recycled,” to define hazardous waste and hazardous waste recycled per the regulations applicable at the point of waste generation. The revised approach eliminates the requirement for companies to classify all hazardous waste, regardless of where it is generated, according to the protocols of the U.S. EPA’s Resource Conservation and Recovery Act (RCRA), per the provisional technical protocol. Additionally, the SASB included a new disclosure requirement to report the hazardous waste regulations that were used to classify the company’s waste.

Revision RT-AE:02 – **Industry**: Aerospace & Defense; **Topic Name**: Data Security

**Technical Agenda Item #7-12 Description**

SASB is evaluating the addition of a metric to ensure the completeness and usefulness of the metrics associated with the topic.

**Summary of Change – Revise Technical Protocol:**

SASB revised the provisional metric RT0201-05 - Discussion of approach to managing data security risks within (a) company operations and (b) products

---

205 RT0101-02: Amount of hazardous waste, percentage recycled
Revision RT-AE:03 – **Industry**: Aerospace & Defense; **Topic Name**: Product Safety

**Summary of Change – Revise Metric:**

The SASB revised the technical protocol language to expand the scope of the metric to include a discussion of recalls of products that occurred due to product safety concerns in addition to those that occurred due to product safety incidents.

Revision RT-AE:04 - **Industry**: Aerospace & Defense; **Topic Name**: Supply Chain Management & Materials Sourcing

**2017 Technical Agenda Item #7-13 Description**

SASB is evaluating splitting the topic to improve the quality and clarity of the standard.

**Summary of Change – Rename Topic**

The SASB (1) renamed the topic “Supply Chain Management & Materials Sourcing” to “Materials Sourcing,” and, (2) moved metric “RT0201-14 Number of counterfeit parts detected, percentage avoided” from the “Materials Sourcing” disclosure topic to the “Product Safety” disclosure topic. The “Materials Sourcing” topic included the following metrics:

- RT0201-14: Number of counterfeit parts detected, percentage avoided
- RT0201-15: Percentage of materials costs for items containing critical materials
- RT0201-16: Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free
- RT0201-17: Discussion of the management of risks associated with the use of critical materials and conflict minerals

Revision RT-AE:05 – **Industry**: Aerospace & Defense; **Topic Name**: Supply Chain Management & Materials Sourcing

**2017 Technical Agenda Item #7-14 Description**

SASB is evaluating the revision and/or removal of metrics RT0201-16 and RT0201-17 to improve the cost-effectiveness and decision-usefulness of the metrics associated with the topic.

---

206 Metrics RT0201-15, RT0201-16, and RT0201-17 were revised per Revision RT-AE:05.
207 RT0201-16: Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free
208 RT0201-17: Discussion of the management of risks associated with the use of critical materials and conflict minerals
Summary of Change – Revise Topic and Metrics

The SASB revised the scope of the Supply Chain Management & Materials Sourcing disclosure topic to improve the representation of potential financial impacts stemming from risks and opportunities related to resource scarcity. As a result of the topic revision, the SASB removed two provisional metrics:

- RT0201-16, “Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free”
- RT0201-15, “Percentage of materials costs for items containing critical materials.”

Additionally, the SASB removed the term “conflict minerals” from metric RT0201-17, “Discussion of the management of risks associated with the use of critical materials and conflict minerals” and revised the technical protocol to require companies to identify which primary critical materials present risk to their operations.

Revision RT-EE:01 – **Industry**: Electrical & Electronic Equipment; **Topic Name**: Hazardous Waste Management

Summary of Change – Revise Technical Protocol:

The SASB revised the technical protocol of metric RT0202-02, “Amount of hazardous waste, percentage recycled,” to define hazardous waste and hazardous waste recycled per the regulations prevalent at the point of waste generation. The revised approach changed the requirement to classify all hazardous waste, regardless of where it is generated, according to the protocols of the U.S. EPA's Resource Conservation and Recovery Act (RCRA). Additionally, the SASB included a new disclosure requirement to report the hazardous waste regulations that were used to classify the company’s waste.

Revision RT-EE:02 – **Industry**: Electrical & Electronic Equipment; **Topic Name**: Product Lifecycle Management & Innovation for Environmental Efficiency

2017 Technical Agenda Item #7-16 Description

SASB is evaluating the revision of metric RT0202-07\(^{209}\) to improve the representativeness and decision-usefulness of the metrics associated with the topic.

No Revision

The Technical Agenda proposal to revise the scope of metric RT0202-07 intended to remove a redundancy with the scope of metric RT0202-08, which includes the measurement revenues from electrical equipment that deliver energy efficiency gains to customers. However, further review of the provisional metrics found that there is no redundancy between the scope of the metrics that would require revision.

---

\(^{209}\) RT0202-07: Revenue from renewable energy-related and energy efficiency-related products
The percentage of eligible products by revenue that meet ENERGY STAR® criteria (RT0202-07) is a measure of the market (revenue) potential for products that enhance customer efficiency. Conversely, the revenue from renewable energy-related and energy efficiency-related products (RT0202-08) measures the current revenue from products that can enhance customer efficiency. The two metrics thus measure different market angles and are independently useful and complete, and provide fair representation of performance.

Revision RT-EE:03 - Industry: Electrical & Electronic Equipment; Topic Name: Product Lifecycle Management & Innovation for Environmental Efficiency

2017 Technical Agenda Item #7-15 Description
SASB is evaluating splitting the topic to improve the quality and clarity of the standard.

Summary of Change – Rename Topic
The SASB renamed the disclosure topic from Product Lifecycle Management & Innovation for Environmental Efficiency to Product Lifecycle Management.

Revision RT-EE:04 – Industry: Electrical & Electronic Equipment; Topic Name: Product Lifecycle Management & Innovation for Environmental Efficiency & Innovation for Environmental Efficiency

2017 Technical Agenda Item #7-17 Description
SASB is evaluating the removal of metric RT0202-09\(^\text{210}\) to improve the cost-effectiveness of the standard and the applicability of the metrics associated with the topic.

Summary of Change – Remove Metric
SASB removed provisional metric RT0202-09, “Total energy cost savings achieved through energy performance contracts.”

\(^{210}\) RT0202-09: Total energy cost savings achieved through energy performance contracts
Revision RT-EE:05 – **Industry**: Electrical & Electronic Equipment; **Topic Name**: Materials Sourcing

**2017 Technical Agenda Item #7-18 Description**

SASB is evaluating the revision and/or removal of metrics RT0202-14\(^{211}\) and RT0202-15\(^{212}\) to improve the cost-effectiveness and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Topic and Metrics**

The SASB revised the scope of the Materials Sourcing disclosure topic to improve the representation of potential financial impacts stemming from risks and opportunities related to resource scarcity. As a result of the topic revision, the SASB removed two provisional metrics:

- RT0202-14, “Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free”
- RT0202-13 “Percentage of materials costs for items containing critical materials.”

Additionally, the SASB removed the term “conflict minerals” from metric RT0201-15, “Discussion of the management of risks associated with the use of critical materials and conflict minerals” and revised the technical protocol to require companies to identify which primary critical materials present risk to their operations.

Revision RT-EE:06 – **Industry**: Electrical & Electronic Equipment; **Topic Name**: Business Ethics & Competitive Behavior

**Summary of Change – Revise Topic Name:**

The SASB revised the topic name from Business Ethics & Competitive Behavior to Business Ethics.

Revision RT-IG:01 – **Industry**: Industrial Machinery & Goods; **Topic Name**: Fuel Economy & Emissions in Use-phase

**2017 Technical Agenda Item #7-19 Description**

SASB is evaluating the revision of metric RT0203-06\(^{213}\) to improve its decision-usefulness.

---

\(211\) RT0202-14: Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free

\(212\) RT0202-15: Discussion of the management of risks associated with the use of critical materials and conflict minerals

\(213\) RT0203-06: Sales-weighted emissions of (a) NOx and (b) PM for: (1) marine diesel engines, (2) locomotive diesel engines, and (3) other non-road diesel engines
Summary of Change – Revise Metrics

The SASB revised provisional metric RT0203-06, “Sales-weighted emissions of (a) NO, and (b) PM for: (1) marine diesel engines, (2) locomotive diesel engines, and (3) other non-road diesel engines” by adding a fourth product category, “(4) on-road medium- and heavy-duty engines,” and including the following note to the metric requiring the disclosure of qualitative information of a company’s strategy and approach to address fuel economy and greenhouse gas emissions of products: “Discussion of strategies and approach to managing fleet fuel economy and emissions risks and opportunities.”

Revision RT-IG:02 – Industry: Industrial Machinery & Goods; Topic Name: Materials Sourcing

2017 Technical Agenda Item #7-20 Description

SASB is evaluating the revision and/or removal of metrics RT0203-09214 and RT0203-10215 to improve the cost-effectiveness and decision-usefulness of the metrics associated with the topic.

Summary of Change – Revise Topic: Materials Sourcing

The SASB revised the scope of the Materials Sourcing disclosure topic to improve the representation of potential financial impacts stemming from risks and opportunities related to resource scarcity. As a result of the topic revision, the SASB removed two provisional metrics:

- RT0203-09, “Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free”
- RT0203-08, “Percentage of materials costs for items containing critical materials.”

Additionally, the SASB removed the term “conflict minerals” from the provisional metric RT0203-10, “Discussion of the management of risks associated with the use of critical materials and conflict minerals” and revised the technical protocol to require companies to identify which primary critical materials present risk to their operations.

Revision RT-CP:01 – Industry: Containers & Packaging; Topic Name: Greenhouse Gas Emissions

Summary of Change – Revise Metric:

The SASB revised the technical protocol to clarify aspects of the World Resources Institute (WRI) Greenhouse Gas (GHG) guidance related to the calculation and reporting of GHG emissions.

---

214 RT0203-09: Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free
215 RT0203-10: Discussion of the management of risks associated with the use of critical materials and conflict minerals
Revision RT-CP:02 – **Industry**: Containers & Packaging; **Topic Name**: Air Quality

**2017 Technical Agenda Item #7-21 Description**

SASB is evaluating the revision of metric RT0204-03\(^{216}\) to improve its cost-effectiveness and alignment with existing regulations.

**Summary of Change – Revise Metric**

The SASB revised metric RT0204-03 from “Air emissions for the following pollutants: NO\(_x\) (excluding N\(_2\)O), SO\(_x\), particulate matter (PM), and volatile organic compounds (VOCs)” to allow companies within the paper products segment to report air emissions per existing industry practices. In addition, the technical protocol was revised such that, for paper-based packaging products, (1) SO\(_x\) emissions may be reported as SO\(_2\), and (2) VOC emissions may be reported as total carbon emissions. The technical protocol was revised to reflect these changes and provide guidance regarding associated definitions, scope, compilation, and presentation of the revised metric.

Revision RT-CP:03 – **Industry**: Containers & Packaging; **Topic Name**: Energy Management

**2017 Technical Agenda Item #7-22 Description**

SASB is evaluating revisions to metric RT0204-04\(^{217}\) to improve the decision-usefulness and completeness of the metrics associated with the topic.

**Summary of Change – Revise Technical Protocol**

SASB revised the technical protocol of the provisional metric RT0204-04, “Total energy consumed, percentage grid electricity, percentage renewable,” to add a new metric component that enables companies to disclose their share of self-generated energy, and a secondary technical protocol line that allows registrants to report the amount of energy sold to an electric utility or end-use customer.

Revision RT-CP:04 – **Industry**: Containers & Packaging; **Topic Name**: Water Management

**Summary of Change – Revise Metric:**

The SASB implemented the following revisions to the metrics associated with the Water Management disclosure topic:

- Removed the water recycling metric component of provisional metric RT0101-07 and replaced it with water consumed; as a result, the metric was revised from, “(1) Total water withdrawn, percentage in

\(^{216}\) RT0204-03: Air emissions for the following pollutants: NO\(_x\) (excluding N\(_2\)O), SO\(_x\), particulate matter (PM), and volatile organic compounds (VOCs)

\(^{217}\) RT0204-04: Total energy consumed, percentage grid electricity, percentage renewable
regions with High or Extremely High Baseline Water Stress and (2) percentage recycled water usage,” to “(1) Total water withdrawn and (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress.”

- Added the following water management discussion and analysis metric, “Discussion of water management risks and description of strategies and practices to mitigate those risks”.

Revision RT-CP:05 – **Industry**: Containers & Packaging; **Topic Name**: Water Management

**2017 Technical Agenda Item #7-23 Description**

SASB is evaluating revisions to the water quality metric RT0204-06 to improve its decision-usefulness.

**Summary of Change – Revise Metric:**

SASB revised metric RT0204-06, “Number of incidents of non-compliance with water quality permits, standards, and regulations,” to limit the scope to incidents that result in a formal enforcement action, as opposed to all incidents of non-compliance, regardless of whether such incidents resulted in enforcement actions.

Revision RT-CP:06 – **Industry**: Containers & Packaging; **Topic Name**: Waste Management

**2017 Technical Agenda Item #7-24 Description**

SASB is evaluating the technical protocol associated with metric RT0204-07 to improve its cost-effectiveness and alignment with existing reporting frameworks.

**Summary of Change – Revise Technical Protocol:**

The SASB revised the technical protocol of provisional metric RT0204-07, “Amount of hazardous waste, percentage recycled,” to define hazardous waste and hazardous waste recycled per the regulations prevalent at the point of waste generation. The revised approach changed the requirement to classify all hazardous waste, regardless of where it is generated, according to the protocols of the U.S. EPA’s Resource Conservation and Recovery Act (RCRA). Additionally, the SASB included a new disclosure requirement to report the hazardous waste regulations that were used to classify the company’s waste.

---

218 RT0204-06: Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations
219 RT0204-07: Amount of total waste from manufacturing, percentage hazardous, percentage recycled
Revision RT-CP:07 – **Industry**: Containers & Packaging; **Topic Name**: Product Lifecycle Management

**2017 Technical Agenda Item #7-25 Description**

SASB is evaluating the revision of metric RT0204-10\(^{220}\) to improve its decision-usefulness and representativeness.

**Summary of Change – Revise Metric:**

The SASB revised provisional metric RT0204-10 from “Percentage of raw materials from (1) recycled content (2) renewable resources” to “Percentage of raw materials from: (1) recycled content, (2) renewable resources, and (3) renewable and recycled content.”

Revision RT-CP:08 – **Industry**: Containers & Packaging; **Topic Name**: Product Lifecycle Management

**Summary of Change – Revise Technical Protocol:**

The SASB added the following line in the technical protocol of metric RT0204-10 to allow companies to report recycled wood fiber content per industry guidance:

“For paper-based products, companies may calculate the percentage recycled as the total product fiber weight (in metric tons) of raw materials from recycled content divided by the total fiber weight (in metric tons) of all raw materials for products.”

Revision RT-CP:09 - **Industry**: Containers & Packaging; **Topic Name**: Materials Sourcing

**2017 Technical Agenda Item #7-26 Description**

SASB is evaluating the revision of metric RT0204-13\(^{221}\) to improve the decision-usefulness and completeness of the metrics associated with the topic.

**Summary of Change – Revise Metric:**

The SASB revised the word “purchased” to “procured” in the provisional metric and technical protocol of RT0204-13, “Total wood fiber purchased, percentage from certified sources.”

---

\(^{220}\) RT0204-10: Percentage of raw materials from (1) recycled content (2) renewable resources

\(^{221}\) RT0204-13: Total wood fiber purchased, percentage from certified sources
Revision RT-CP:10 – **Industry**: Containers & Packaging;  
**Topic Name**: Materials Sourcing

**2017 Technical Agenda Item #7-27 Description**

SASB is evaluating the revision of the technical protocol associated with metric RT0204-13\(^{222}\) to improve its clarity.

**No Revision**

The proposed technical protocol revision in Technical Agenda item 7-27 is now addressed within Technical Agenda item 7-26, wherein the scope of metric RT0204-13 is revised by replacing the word “purchased” with the word “procured” in the metric and in the technical protocol.

Revision RT-CP:11 – **Industry**: Containers & Packaging;  
**Topic Name**: Materials Sourcing

**Summary of Change – Revise Topic Name:**

The SASB revised the topic name from “Materials Sourcing” to “Supply Chain Management”.

\(^{222}\) RT0204-13: Total wood fiber purchased, percentage from certified sources
Food & Beverage Sector

Agricultural Products
Meat, Poultry & Dairy
Processed Foods
Non-Alcoholic Beverages
Alcoholic Beverages
Tobacco
Food Retailers & Distributors
Restaurants

Prepared by the Sustainability Accounting Standards Board®
Revision FB-AG:01 to Revision FB-AG:08 – **Industry:** Agricultural Products; **Topic:** Industry Description and Various Topics

2017 Technical Agenda Item Descriptions

**Revision FB-AG:01:** SASB is evaluating the operations of companies within the Agricultural Products industry to improve the relevance and applicability of the topics and metrics.

**Revision FB-AG:02:** SASB is evaluating the removal of provisional metric CN0101-02\(^{223}\) to improve the cost-effectiveness of the standard and the applicability of the metrics associated with the topic.

**Revision FB-AG:03:** SASB is evaluating the suitability of the topic name.

**Revision FB-AG:04:** SASB is evaluating revisions to the topics, including corresponding provisional metrics CN0101-06\(^{224}\), CN0101-07\(^{225}\), and CN0101-10\(^{226}\), to improve the materiality of the standard, the relevance of the topics across the industry, and the applicability of the metrics.

**Revision FB-AG:05:** SASB is evaluating the removal of the topic, including corresponding provisional metrics CN0101-08\(^{227}\), CN0101-09\(^{228}\), CN0101-11\(^{229}\), and CN0101-12\(^{230}\) to improve the cost-effectiveness of the standard and the relevance of the topics across the industry.

**Revision FB-AG:06:** SASB is evaluating the suitability of the topic name.

**Revision FB-AG:07:** SASB is evaluating revisions to the topic, including corresponding provisional metrics CN0101-17\(^{231}\) and CN0101-19\(^{232}\) to improve the relevance of the topic across the industry, and the applicability of the metrics.

**Revision FB-AG:08** SASB is evaluating revisions to the topic, including corresponding provisional metrics CN0101-20\(^{233}\) and CN0101-21\(^{234}\) to improve the relevance of the topic across the industry, and the applicability of the metrics.

\(^{223}\) CN0101-02: Biogenic carbon dioxide (CO\(_2\)) emissions.

\(^{224}\) CN0101-06: (1) Total water withdrawn and (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress

\(^{225}\) CN0101-07: Discussion of water withdrawal risks and description of management strategies and practices to mitigate those risks

\(^{226}\) CN0101-10: Number of incidents of non-compliance with water-quality permits, standards, and regulations

\(^{227}\) CN0101-08: Description of strategies to manage land use and ecological impacts

\(^{228}\) CN0101-09: (1) Volume of wastewater reused and (2) volume of wastewater discharged to the environment

\(^{229}\) CN0101-11: Amount of fertilizer consumption by: (1) nitrogen-based, (2) phosphate-based, and (3) potassium-based fertilizers

\(^{230}\) CN0101-12: Amount of pesticide consumption by hazard level

\(^{231}\) CN0101-17: Percentage of farms and facilities certified for fair labor practices

\(^{232}\) CN0101-19: Description of efforts to assess, monitor, and reduce exposure of direct, seasonal, and migrant employees to pesticides

\(^{233}\) CN0101-20: Amount of crop losses, percentage offset through financial mechanisms

\(^{234}\) CN0101-21: Average crop yield and five-year standard deviation per major crop type by major operating region
Summary of Change – Revise Industry Scope, and Related Topics and Metrics

The SASB revised the scope of the Agricultural Products industry, including the industry description, to better reflect the actual operations of companies in the industry (Revision FB-AG:01). More specifically, while the provisional standard included on-farm operations within the industry scope, companies in the industry do not generally own or directly control farming operations. As a result, the industry scope (as defined in the “Industry Description” in the provisional standard) is narrowed by removing the reference to “growing” agricultural products and instead, focusing on the variety of activities that better reflect actual industry operations, including the processing, trading, distributing, and storage of agricultural products.

This revised industry scope (Revision FB-AG:01) establishes the rationale for multiple, related revisions to several disclosure topics and the corresponding metrics, as summarized below:

**Topic: Greenhouse Gas Emissions**
- Revision FB-AG:02: Removed provisional metric CN0101-02, “Biogenic carbon dioxide (CO₂) emissions.”

**Topic: Water Withdrawal**
- Revision FB-AG:03: Renamed topic to Water Management.
- Revision FB-AG:04: Revised provisional topic scope to remove on-farm water withdrawals, as well as to include an aspect of water management related to wastewater.
- Revision FB-AG:04: Revised provisional metric CN0101-07 from “Discussion of risks associated with water withdrawal and description of strategies and practices to mitigate those risks” to “Description of water management risks and discussion of strategies and practices to mitigate those risks.”

**Topic: Land Use & Ecological Impacts**
- Revision FB-AG:04: Moved provisional metric CN0101-10, “Number of incidents of non-compliance with water-quality permits, standards, and regulations,” from the provisional topic, Land Use & Ecological Impacts, to the revised topic, Water Management.
- Revision FB-AG:05: Removed the provisional topic and the following corresponding provisional metrics (which constitute all metrics associated with the topic, except CN0101-10, which is proposed to be moved to a different topic, as per Revision FB-AG:04):
  - CN0101-08: Description of strategies to manage land use and ecological impacts
- CN0101-09: (1) Volume of wastewater reused and (2) volume of wastewater discharged to the environment
- CN0101-11: Amount of fertilizer consumption by: (1) nitrogen-based, (2) phosphate-based, and (3) potassium-based fertilizers
- CN0101-12: Amount of pesticide consumption by hazard level

**Topic: Fair Labor Practices & Workforce Health & Safety**

- Revision FB-AG:06: Renamed topic to Workforce Health & Safety
- Revision FB-AG:07: Removed the following provisional metrics:
  - CN0101-17: Percentage of farms and facilities certified for fair labor practices
  - CN0101-19: Description of efforts to assess, monitor, and reduce exposure of direct, seasonal, and migrant employees to pesticides

**Topic: Climate Change Impacts on Crop Yields**

- Revision FB-AG:08: Removed the provisional topic, Climate Change Impacts on Crop Yields, and the following corresponding provisional metrics:
  - CN0101-20: Amount of crop losses, percentage offset through financial mechanisms
  - CN0101-21: Average crop yield and five-year standard deviation per major crop type by major operating region
- Revision FB-AG:08: Moved provisional metric CN0101-22, “Identification of principal crops and discussion of risks and opportunities presented by climate change,” from the provisional topic, Climate Change Impacts on Crop Yields, to the topic, Ingredient Sourcing.


**Summary of Change – Rename Topic and Move Metric**

Revision FB:AG-10 – **Industry:** Agricultural Products; **Topic Name:** Water Withdrawal

2017 Technical Agenda Item #8-5 Description

SASB is evaluating revisions to the water quality metric CN0101-10\(^{235}\) to improve its decision-usefulness.

**Summary of Change – Revise Technical Protocol**

The SASB revised the provisional metric CN0101-10, “Number of incidents of non-compliance with water-quality and/or quantity permits, standards, and regulations,” to limit the scope of incidents of non-compliance to exclusively those that result in a formal enforcement action.

Revision FB-AG:11 – **Industry:** Agricultural Products; **Topic Name:** Food Safety & Health Concerns

2017 Technical Agenda Item #8-7 Description

SASB is evaluating splitting the topic to improve the quality and clarity of the standard.

**Summary of Change – Split Topic**

The SASB split the provisional disclosure topic “Food Safety & Health Concerns” into two separate topics: “Food Safety” and “GMO Management”.

The following metrics are associated with the Food Safety topic:

- CN0101-13 – Global Food Safety Initiative (GFSI) audit conformance: (1) major non-conformance rate and associated corrective action rate and (2) minor non-conformance rate and associated corrective action rate
- CN0101-14 – Percentage of agricultural products sourced from suppliers certified to a GFSI scheme
- CN0101-15 – Number of recalls issued, total amount of food product recalled

The following metric is associated with the GMO Management topic:

- CN0101-16 – Description of strategies to manage the use of genetically modified organisms (GMOs)

Revision FB-AG:12 – **Industry:** Agricultural Products; **Topic Name:** Environmental & Social Impacts of the Ingredient Supply Chains

---

\(^{235}\) CN0101-10: Number of incidents of non-compliance with water-quality permits, standards, and regulations
Summary of Change – Split Topic

The SASB split the provisional disclosure topic Environmental & Social Impacts of the Ingredient Supply Chains into two separate topics: Environmental & Social Impacts of Ingredient Supply Chain and Ingredient Sourcing.

The following metrics are associated with the Environmental & Social Impacts of Ingredient Supply Chain topic:

- FB-AG-430a.1 – Description of management strategy for environmental and social risks arising from contract growing and commodity sourcing
- FB-AG-430a.2 – Percentage of agricultural raw materials that are certified to a third-party environmental and/or social standard
- FB-AG-430a.3 – Suppliers’ social and environmental responsibility audit conformance: (1) major non-conformance rate and associated corrective action rate and (2) minor non-conformance rate and associated corrective action rate\(^{236}\)

The following metrics are associated with the Ingredient Sourcing topic:

- FB-AG-440a.1 – Identification of principal crops and discussion of risks and opportunities presented by climate change\(^{237}\)
- FB-AG-440a.2 – Percentage of agricultural raw materials sourced from regions with High or Extremely High Baseline Water Stress

Revision FB-AG:13 – Industry: Agricultural Products; Topic Name: Environmental & Social Impacts of Ingredient Supply Chains

2017 Technical Agenda Item #8-11 Description

SASB is evaluating the addition of a metric to improve the usefulness, representativeness, and completeness of the metrics associated with the topic, as well as to increase alignment with existing industry standards.

Summary of Change – Add Metric

The SASB added the following metric to the Environmental & Social Impacts of Ingredient Supply Chains\(^ {238}\) provisional topic: “Suppliers’ social and environmental responsibility audit (1) non-conformance rate and (2) associated corrective action rate for (a) major and (b) minor non-conformances.”

Revision FB-AG:14 – Industry: Agricultural Products; Topic

\(^{236}\) See Revision FB-AG:13, which adds this metric to the industry standard.

\(^{237}\) See Revision FB-AG:08, which moves this metric from the Climate Change Impacts on Crop Yields provisional topic.

\(^{238}\) See Revision FB-AG:12, which splits the provisional disclosure topic “Environmental & Social Impacts of the Ingredient Supply Chains” into two separate topics, “Environmental & Social Impacts of Ingredient Supply Chain” and “Ingredient Sourcing.”
Name: Environmental & Social Impacts of Ingredient Supply Chains

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol to the provisional metric CN0101-24 “Discussion of strategy to manage environmental and social risks arising from contract growing and commodity sourcing” to explicitly address environmental and labor risks related to agrochemical usage.

Specifically, provisional metric CN0101-24 was revised from:

For environmental risks, relevant strategies to discuss include the diversification of suppliers, supplier training programs on environmental best management practices, expenditures on R&D for alternative and substitute crops, and audits or certifications of suppliers’ environmental practices.

For social risks, relevant strategies to discuss include supplier training programs on agrochemical application, engagement with suppliers on labor and human rights issues, maintenance of a supply chain code of conduct, and audits or certifications of suppliers’ social practices.

to (additions underlined)

For environmental risks, relevant strategies to discuss include the diversification of suppliers, supplier training programs on environmental best management practices including implementation of agricultural management practice systems (MPS) including for fertilizer use, integrated pest management (IPM), and/or efforts to address deforestation, expenditures on R&D for alternative and substitute crops, and audits or certifications of suppliers’ environmental practices.

For social risks, relevant strategies to discuss include supplier training programs on agrochemical application, engagement with suppliers on labor and human rights issues and workforce health and safety issues such as exposure to pesticide, maintenance of a supply chain code of conduct, and audits or certifications of suppliers’ social practices.

Revision FB-AG:15 – Industry: Agricultural Products; Topic Name: Management of the Legal & Regulatory Environment

2017 Technical Agenda Item #8-12 Description

SASB is evaluating revisions to the topic, including the corresponding metric CN0101-26, to improve the cost-effectiveness and materiality of the standard.

239 CN0101-26: Discussion of positions on the regulatory and political environment related to environmental and social factors and description of efforts to manage risks and opportunities presented
Summary of Change – Remove Topic and Metric

The SASB removed the provisional topic Management of Legal & Regulatory Environment from the standard, along with the corresponding provisional metric CN0101-26: “Discussion of positions on the regulatory and political environment related to environmental and social factors and description of efforts to manage risks and opportunities presented.”

Revision FB-MP:01 and FB-MP:02 – Industry: Meat, Poultry & Dairy; Topic Name: Water Withdrawal (and Land Use & Ecological Impacts for Revision FB-MP:02)

2017 Technical Agenda Item Descriptions

#8-13: SASB is evaluating the suitability of the topic name.

#8-14: SASB is evaluating revisions to the topics, including corresponding metrics CN0102-05, CN0102-06, and CN0102-07, to improve the materiality of the standard, the relevance of the topics across the industry, and the applicability of the metrics.

Summary of Change – Revise Topic and Metrics

The SASB implemented the following changes related to the topic in the provisional standard, Water Withdrawal, including its corresponding metrics, which will also affect the topic, Land Use & Ecological Impacts, and a corresponding metric:

Revision FB-MP:01: Renamed the provisional topic Water Withdrawal to Water Management.

Revision FB-MP:02:

- Expanded the scope of the topic, Water Withdrawal (renamed, as described above) to more holistically include water management, including aspects related to the management of wastewater.

- Moved metric CN0102-06, “Number of incidents of non-compliance with water-quality permits, standards, and regulations,” from the Land Use & Ecological Impacts topic to the Water Withdrawal topic (renamed, as described above).

- Consolidated the provisional metric CN0102-05, “Discussion of risks associated with water withdrawal and description of strategies and practices to mitigate those risks,”

---

240 CN0102-05: Discussion of risks associated with water withdrawal and description of strategies and practices to mitigate those risks
241 CN0102-06: Number of incidents of non-compliance with water-quality permits, standards, and regulations
242 CN0102-07: Discussion of risks associated with water discharges and description of strategies and practices to mitigate those risks
associated with the provisional Water Withdrawal topic, with the provisional metric CN0102-07, “Discussion of risks associated with water discharges and description of strategies and practices to mitigate those risks,” associated with the Land Use & Ecological Impacts topic, into the following metric to be associated with the Water Withdrawal topic (renamed, as described above), “Discussion of water management risks and description of strategies and practices to mitigate those risks.”

Revision FB-MP:03 – **Industry:** Meat, Poultry & Dairy; **Topic Name:** Land Use & Ecological Impacts

**2017 Technical Agenda Item #8-15 Description**

SASB revised the water quality metric CN0102-06\(^{243}\) to improve its decision-usefulness.

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol for metric CN0102-06, “Number of incidents of non-compliance with water quality permits, standards, and regulations,” to limit the scope of incidents of non-compliance to exclusively those that result in a formal enforcement action.

Revision FB-MP:04 – **Industry:** Meat, Poultry & Dairy; **Topic Name:** Land Use & Ecological Impacts

**2017 Technical Agenda Item #8-16 Description**

SASB is evaluating the revision of metrics CN0102-08\(^{244}\), CN0102-09\(^{245}\), and CN0102-10\(^{246}\) to improve the applicability and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Metrics**

SASB updated the technical protocols for metrics CN0102-08, CN0102-09, and CN0102-10 within the Land Use & Ecological Impacts topic to expand their scope to include operations outsourced to third parties.

Revision FB-MP:05 – **Industry:** Meat, Poultry & Dairy; **Topic Name:** Antibiotic Use in Animal Production

---

\(^{243}\) CN0102-06: Number of incidents of non-compliance with water-quality permits, standards, and regulations
\(^{244}\) CN0102-08: Amount of animal litter and manure generated, percentage managed according to a nutrient management plan
\(^{245}\) CN0102-09: Percentage of pasture and grazing land managed to NRCS Conservation Plan criteria
\(^{246}\) CN0102-10: Animal protein production from concentrated animal feeding operations (CAFO)
Summary of Change – Revise Metric

The SASB revised provisional metric CN0102-17 “Percentage of animal production that receives (1) medically important antibiotics and (2) nontherapeutic antibiotics” to “Percentage of animal production that receives (1) medically important antibiotics and (2) not medically important antibiotics, by animal type.”

Revision FB-MP:06 – **Industry:** Meat, Poultry & Dairy; **Topic Name:** Environmental & Social Impacts of the Animal Supply Chain

Summary of Change – Revise Topics and Metrics

The SASB implemented the following changes related to the provisional topics, Environmental & Social Impacts of Animal Supply Chains and Environmental Risks in Animal Feed Supply Chains, and their associated metrics:

- Renamed the provisional topic Environmental Risks in Animal Feed Supply Chains to Animal & Feed Sourcing.

- Moved provisional metrics CN0102-22, “Percentage of contract producers in regions with High or Extremely High Baseline Water Stress” and CN0102-24, “Discussion of strategy to manage opportunities and risks to livestock supply presented by climate change” from the topic, Environmental & Social Impacts of Animal Supply Chains to the renamed topic, Animal & Feed Sourcing.

- Merged the provisional metrics CN0102-24, “Discussion of strategy to manage opportunities and risks to livestock supply presented by climate change” and CN0102-26, “Discussion of strategy to manage opportunities and risks to feed sourcing presented by climate change” into a single metric in the renamed Animal & Feed Sourcing topic.

Revision FB-PF:01 – **Industry:** Processed Foods; **Topic Name:** Energy & Fleet Fuel Management

Summary of Change – Revise Topic and Remove Metric

The SASB revised the provisional disclosure topic Energy & Fleet Fuel Management to eliminate the aspect of fleet fuel management and therefore exclusively focus on energy management. As a result, provisional metric, CN0103-02, “Fleet fuel consumed, percentage renewable,” has been removed. Furthermore, the topic has been renamed to Energy Management.

Revision FB-PF:02 – **Industry:** Processed Foods; **Topic Name:** Water Management
2017 Technical Agenda Item #8-19 Description
SASB is evaluating revisions to the water quality metric CN0103-04\(^{247}\) to improve its decision-usefulness.

Summary of Change – Revise Technical Protocol
The SASB revised the technical protocol for metric CN0103-04, “Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations,” to limit the scope of incidents of non-compliance to exclusively those that result in a formal enforcement action.

Revision FB-PF:03 – **Industry:** Processed Foods; **Topic Name:** Health & Nutrition

Summary of Change – Revise Metric
The SASB revised provisional metric CN0103-10 from “Description of the process to identify and manage products and ingredients of concern and emerging dietary preferences” to “Discussion of the process to identify and manage products and ingredients related to nutritional and health concerns among consumers.”

Revision FB-PF:04 – **Industry:** Processed Foods; **Topic Name:** Health & Nutrition

2017 Technical Agenda Item #8-17 Description
SASB is evaluating the removal of metric CN0103-11\(^{248}\) to improve the cost-effectiveness and applicability of the metrics associated with the topic.

Summary of Change – Remove Metric
The SASB removed metric CN0103-11, “Revenue from products that meet Smart Snacks in School criteria or foreign equivalent.”

Revision FB-PF:05 – **Industry:** Processed Foods; **Topic Name:** Product Labeling & Marketing

2017 Technical Agenda Item #8-18 Description
SASB is evaluating the revision of metric CN0103-13\(^{249}\) to improve its representativeness.

Description of Change – Revise Metric
The SASB revised the provisional metric CN0103-13 from “Number of child advertising impressions made, percentage promoting products meeting the Children’s Food and Beverage Initiative (CFBAI) Uniform Nutrition

\(^{247}\) CN0103-04: Number of incidents of non-compliance with water-quality permits, standards, and regulations

\(^{248}\) CN0103-11: Revenue from products that meet Smart Snacks in School criteria or foreign equivalent.

\(^{249}\) CN0103-13: Number of child advertising impressions made, products meeting the Children’s Food and Beverage Initiative Uniform Nutrition Criteria.
Criteria” to “Percentage of advertising impressions (1) made on children and (2) made on children promoting products that meet dietary guidelines."

Revision FB-PF:06 – **Industry:** Processed Foods; **Topic Name:** Environmental & Social Impacts of the Ingredient Supply Chains

**Summary of Change – Split Topic**

The SASB split the provisional disclosure topic Environmental & Social Impacts of the Ingredient Supply Chains into two separate topics: Environmental & Social Impacts of Ingredient Supply Chain and Ingredient Sourcing.

The following metrics are associated with the Environmental & Social Impacts of Ingredient Supply Chain topic:

- FB-PF:430a.1 – Percentage of food ingredients sourced that are certified to third-party environmental and/or social standards, and percentages by standard
- FB-PF:430a.2 – Suppliers’ social and environmental responsibility audit (1) major non-conformance rate and (2) associated corrective action rate for (a) major and (b) minor non-conformances

The following metrics are associated with the Ingredient Sourcing topic:

- FB-PF:440a.1 – Percentage of food ingredients sourced from regions with High or Extremely High Baseline Water Stress
- FB-PF:440a.2 – List of priority food ingredients and discussion of sourcing risks due to environmental and social considerations

Revision FB-NB:01– **Industry:** Non-Alcoholic Beverages; **Topic Name:** Energy & Fleet Fuel Management

**Summary of Change – Split Topic**


The following metric is associated with the Greenhouse Gas Emissions topic:

  FB-NB-110a.1 – Fleet fuel consumed, percentage renewable

The following metrics are associated with the Energy Management topic:

  FB-NB-130a.1 – Operational energy consumed, percentage grid electricity, percentage renewable
Revision FB-NB:02 – **Industry:** Non-Alcoholic Beverages;  
**Topic Name:** Health & Nutrition

**Description of Change – Revise Metric**

The SASB revised provisional metric CN0201-06 from “Description of the process to identify and manage products and ingredients of concern and emerging dietary preferences” to “Discussion of the process to identify and manage products and ingredients of concern and emerging dietary preferences.”

Revision FB-NB:03 – **Industry:** Non-Alcoholic Beverages;  
**Topic Name:** Product Labeling & Marketing

**2017 Technical Agenda Item #8-20 Description**

SASB is evaluating the revision of metric CN0201-07\(^{250}\) to improve its representativeness.

**Description of Change – Revise Metrics**

The SASB revised provisional metric CN0201-07 from “Number of child advertising impressions made, percentage promoting products meeting the Children’s Food and Beverage Initiative (CFBAI) Uniform Nutrition Criteria” to “Percentage of advertising impressions (1) made on children and (2) made on children promoting products that meet dietary guidelines.”

Revision FB-NB:04 – **Industry:** Non-Alcoholic Beverages;  
**Topic Name:** Environmental & Social Impacts of the Ingredient Supply Chains

**Summary of Change – Split Topic**

The SASB split the provisional disclosure topic Environmental & Social Impacts of the Ingredient Supply Chains into two separate topics: Environmental & Social Impacts of Ingredient Supply Chain and Ingredient Sourcing.

The following metrics are associated with the Environmental & Social Impacts of Ingredient Supply Chain topic:

- FB-NB-430a.1 – Suppliers’ social and environmental responsibility audit (1) non-conformance rate and (2) associated corrective action rate for (a) major and (b) minor non-conformances

The following metrics are associated with the Ingredient Sourcing topic:

- FB-NB-440a.1 – Percentage of beverage ingredients sourced from regions with High or Extremely High

---

\(^{250}\) CN0201-07: Number of child advertising impressions made, percentage promoting products meeting the Children’s Food and Beverage Initiative (CFBAI) Uniform Nutrition Criteria.
Baseline Water Stress

- FB-NB-440a.2 – List of priority beverage ingredients and discussion of sourcing risks due to environmental and social considerations

Revision FB-AB:01 – **Industry:** Alcoholic Beverages; **Topic Name:** Responsible Drinking & Marketing

**2017 Technical Agenda Item #8-21 Description**

SASB is evaluating the revision of metric CN0202-04\(^{251}\) to improve its representativeness.

**Summary of Change – Revise Metric**

The SASB revised provisional metric CN0202-04 from “Number of advertising impressions, percentage made on individuals above the legal drinking age” to “Percentage of total advertising impressions made on individuals above the legal drinking age.”

Revision FB-AB:02 – **Industry:** Alcoholic Beverages; **Topic Name:** Responsible Drinking & Marketing

**2017 Technical Agenda Item #8-22 Description**

SASB is evaluating the technical protocol associated with metric CN0202-05\(^{252}\) to improve its completeness and relevance.

**Summary of Change – Revise Metric**

SASB revised the provisional metric CN0202-05, “Notices of violations received for non-conformance with industry and regulatory marketing and/or labeling codes” to “Number of incidents of non-compliance with industry or regulatory labeling and/or marketing codes.”

Revision FB-AB:03 – **Industry:** Alcoholic Beverages; **Topic Name:** Management of Environmental & Social Impacts of the Ingredient Supply Chain

**Summary of Change – Split Topic**

The SASB split the provisional disclosure topic Environmental & Social Impacts of Ingredient Supply Chains into two separate topics: Environmental & Social Impacts of Ingredient Supply Chain and Ingredient Sourcing.

The following metrics are associated with the Environmental & Social Impacts of Ingredient Supply Chain topic:

---

\(^{251}\) CN0202-04: Number of advertising impressions, percentage made on individuals above the legal drinking age

\(^{252}\) CN0202-05: Notices of violations received for non-conformance with industry and regulatory marketing and/or labeling codes
• FB-AB.430a.1 – Suppliers’ social and environmental responsibility audit (1) non-conformance rate and (2) associated corrective action rate for (a) major and (b) minor non-conformances

The following metrics are associated with the Ingredient Sourcing topic:

• FB-AB.440a.1 – Percentage of beverage ingredients sourced from regions with High or Extremely High Baseline Water Stress

• FB-AB.440a.2 – List of priority beverage ingredients and discussion of sourcing risks due to environmental and social considerations

Revision FB-TB:01 – **Industry:** Tobacco; **Topic Name:** Activity Metric

**2017 Technical Agenda Item #8-23 Description**

SASB is evaluating the revision of activity metric CN0302-A\(^{253}\) to improve its alignment with existing industry metrics.

**Summary of Change – Revise Metric**

The SASB revised provisional activity metric CN0302-A from “Cigarette sales volume” to “Combustible tobacco product sales volume: (1) cigarette, (2) cigar, and (3) other smoked tobacco products”\(^{254}\) and provisional activity metric CN0302-B from “Smokeless tobacco sales volume” to “Non-combustible product sales volume: (1) traditional smokeless tobacco, (2) non-tobacco nicotine products, (3) heated tobacco products, and (4) nicotine replacement therapy products.”\(^{255}\)

Revision FB-TB:02 – **Industry:** Tobacco; **Topic Name:** Public Health

**2017 Technical Agenda Item #8-25 Description**

SASB is evaluating the revision of provisional metric CN0301-01\(^{256}\) to improve its representativeness and applicability.

---

\(^{253}\) CN0302-A: Cigarette sales volume

\(^{254}\) Note to FB-TB-000.A—Cigar sales volume includes product sales of cigars, cigarillos, and little cigars. Other smoked tobacco includes products sold by the registrant such as pipe tobacco, loose leaf tobacco, bidis, and kreteks or clove cigarettes. Unit of measure shall be by number of sticks in millions, except for pipe tobacco and loose leaf tobacco, which shall be by weight in metric tons.

\(^{255}\) Note to FB-TB-000.B—Traditional smokeless tobacco sales volume includes product sales of chewing tobacco, snuff, and dissolvable products, and shall be disclosed by number of cans or packs in millions. Non-tobacco nicotine products include e-vapor and e-cigarette devices and associated refill products and pharmaceutical nicotine-replacement therapy products (e.g., gums, lozenges, and patches). Heated tobacco products include devices and associated refill products. Nicotine-replacement therapy products shall be disclosed in number of packs in millions and e-cigarette, e-vapor, and heated tobacco products shall be disclosed in number of devices sold and the number of refill products sold in millions.

\(^{256}\) CN0301-01: Revenue from (1) smokeless tobacco products, (2) non-tobacco nicotine-delivery products, and (3) other “tobacco harm-reduction” products
Summary of Change – Revise Metric

The SASB revised provisional metric CN0301-01 from “Revenue from (1) smokeless tobacco products, (2) non-tobacco nicotine-delivery products, and (3) other ‘tobacco harm-reduction’ products” to “Revenue from (1) non-tobacco nicotine products and (2) heated tobacco products, by (a) gross revenue and (b) revenue net of excise taxes,” with an additional clarification that sales should be reported gross and net of excise taxes.

Revision FB-TB:03 – Industry: Tobacco; Topic Name: Marketing Practices

2017 Technical Agenda Item #8-24 Description

SASB is evaluating the revision of metrics CN0301-04\textsuperscript{257} and CN0301-05\textsuperscript{258} to improve the cost-effectiveness, representativeness, and applicability of the metrics associated with the topic.

Summary of Change – Revise Metrics

The SASB consolidated the provisional metrics CN0301-04 and CN0301-05 in the provisional industry standard and revising the resulting metric to focus on companies’ positions on the World Health Organization Framework Convention on Tobacco Control (WHO FCTC) and relevant corporate marketing policies, as opposed to specific alignment with the WHO FCTC.

More specifically, the SASB consolidated the following provisional metrics:

- CN0301-04: Description of alignment of tobacco advertising, promotion, and sponsorship (TAPS) activities with Article 13 of the World Health Organization Framework Convention on Tobacco Control (WHO FCTC)

- CN0301-05: Description of alignment of tobacco labeling and packaging practices with Article 11 of the World Health Organization Framework Convention on Tobacco Control (WHO FCTC)

into the following metric:

- FB-TB-270a.2: Description of the company’s marketing policy and discussion of relevant positions on Articles 11 and 13 of the World Health Organization Framework Convention on Tobacco Control (WHO FCTC)

Revision FB-FR:01– Industry: Food Retailers & Distributors; Topic Name: Energy & Fleet Fuel Management

\textsuperscript{257} CN0301-04: Description of alignment of tobacco advertising, promotion, and sponsorship (TAPS) activities with Article 13 of the World Health Organization Framework Convention on Tobacco Control (WHO FCTC)

\textsuperscript{258} CN0301-05: Description of alignment of tobacco labeling and packaging practices with Article 11 of the World Health Organization Framework Convention on Tobacco Control (WHO FCTC)
Summary of Change – Split Topic

The following metric is associated with the Greenhouse Gas Emissions topic:

CN0401-05 – Fleet fuel consumed, percentage renewable

The following metrics are associated with the Energy Management topic:

CN0401-04 – Operational energy consumed, percentage grid electricity, percentage renewable

Revision FB-FR:02 – Industry: Food Retailers & Distributors; Topic Name: Food Waste Management

Summary of Change – Revise Technical Protocol
SASB revised the provisional metric CN0401-06 “Amount of food waste generated, percentage diverted from the waste stream” to clarify the distinction between food waste and unsaleable food.

Revision FB-FR:03 – Industry: Food Retailers & Distributors; Topic Name: Product Health & Nutrition

Description of Change – Revise Metric
The SASB revised provisional metric CN0401-12 from “Description of the process to identify and manage products and ingredients of concern and emerging dietary preferences” to “Description of the process to identify and manage products and ingredients related to nutritional and health concerns among consumers.”

Revision FB-FR:04– Industry: Food Retailers & Distributors; Topic Name: Fair Labor Practices

Summary of Change – Revise Topic Name
The SASB renamed the provisional topic from Fair Labor Practices to Labor Practices.

Revision FB-FR:05– Industry: Food Retailers & Distributors; Topic Name: Management of Environmental & Social Impacts in the Supply Chain

Summary of Change – Revise Technical Protocols
The SASB revised the technical protocols associated with metric provisional metric CN0401-20, “Discussion of strategy to manage environmental and social risks within the supply chain” to expand disclosure on animal welfare
and antibiotics usage in the animal supply chain. Accordingly, the note to the provisional metric CN0401-22, “(1) Percentage of eggs sold from cage-free sources and (2) percentage of pork sold from gestation-crate-free sources” on animal welfare standards and policies was removed.

Revision FB-RN:01 – **Industry:** Restaurants; **Topic Name:**
Energy & Water Management

**Summary of Change – Split Topic**
The SASB split the provisional disclosure topic Energy & Water Management into two separate topics: Energy management and Water Management.

The following metric is associated with the Energy Management topic:

FB-RN.130a.1 – Total energy consumed, percentage grid electricity, percentage renewable

The following metric is associated with the Water Management topic:

FB-RN.140a.1 – Total water withdrawn, percentage in regions with High or Extremely High Baseline Water Stress

Revision FB-RN:02 – **Industry:** Restaurants; **Topic Name:**
Food & Packaging Waste Management

**Summary of Change – Revise Technical Protocol**
SASB revised the technical protocol for provisional metric SV0203-05 “Amount of waste, percentage food waste, percentage diverted” to define inedible parts as a component of food waste, remove cooking oil as a component of food waste, and clarify the scope of food donations.

Revision FB-RN:03 – **Industry:** Restaurants; **Topic Name:**
Fair Labor Practices

**Summary of Change – Revise Topic Name**
The SASB renamed the provisional topic from Fair Labor Practices to Labor Practices.

Revision FB-RN:04 – **Industry:** Restaurants; **Topic Name:**
Fair Labor Practices

Summary of Change – Remove Metric
The SASB removed metric SV0203-14, “Amount of tax credit received for hiring through enterprise zone programs.”

Revision FB-RN:05 – Industry: Restaurants; Topic Name: Supply Chain Management & Food Sourcing

Summary of Change – Revise Technical Protocols
The SASB revised the technical protocols associated with metric SV0203-17, “Discussion of strategy to manage environmental and social risks within supply chain” to expand disclosure on animal welfare and antibiotics usage in the animal supply chain. Accordingly, the note to metric SV0203-16, “(1) Percentage of eggs purchased from cage-free sources and (2) percentage of pork purchased from gestation crate-free sources”, which is related to animal welfare standards and policies, was removed.
Consumer Goods Sector

Apparel, Accessories & Footwear
Appliance Manufacturing
Household & Personal Products
Building Products & Furnishings
Toys & Sporting Goods
Multiline and Specialty Retailers & Distributors
E-Commerce

Prepared by the
Sustainability Accounting Standards Board®
Revision CG-MR:01 – **Industry:** Multiline and Specialty Retailers & Distributors; **Topic Name:** Fair Labor Practices

**2017 Technical Agenda Item #9-5 Description**

SASB is evaluating the suitability of the topic name.

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic Fair Labor Practices to Labor Practices.

Revision CG-MR:02 – **Industry:** Multiline and Specialty Retailers & Distributors; **Topic Name:** Workforce Diversity & Inclusion

**2017 Technical Agenda Item #9-6 Description**

SASB is evaluating the revision of metric CN0403-04\(^{261}\) to improve its cost-effectiveness and applicability.

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol for provisional metric CN0403-04, “Percentage of gender and racial/ethnic group representation for (1) management and (2) all other employees,” to require gender breakdown globally but racial/ethnic breakdown only in the United States. Additionally, the SASB revised the technical protocol to specify that companies shall describe their policies for promoting inclusivity and fostering equitable employee representation across their global operations.

Revision CG-EC:01 – **Industry:** E-Commerce; **Topic Name:** Energy & Water Footprint of Hardware Infrastructure

**2017 Technical Agenda Item #9-8 Description**

SASB is evaluating the suitability of the topic name.

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic Energy & Water Footprint of Hardware Infrastructure to Hardware Infrastructure Energy & Water Management.

\(^{261}\) CN0403-04: Percentage of gender and racial/ethnic group representation for (1) management and (2) all other employees
Revision CG-EC:02 – **Industry:** E-Commerce; **Topic Name:** Logistics & Packaging Efficiency

**Summary of Change – Revise Topic Name**

The SASB revised the provisional topic name from Logistics & Packaging Efficiency to Product Packaging & Distribution.

Revision CG-AA:01 – **Industry:** Apparel, Accessories & Footwear; **Topic Name:** Raw Material Sourcing & Innovation

**2017 Technical Agenda Item #9-2 Description**

SASB is evaluating the suitability of the topic name.

**Summary of Change – Revise Topic Name**

The SASB revised the provisional topic name from Raw Materials Sourcing & Innovation to Raw Materials Sourcing.

Revision CG-AA:02 – **Industry:** Apparel, Accessories & Footwear; **Topic Name:** Raw Material Sourcing & Innovation

**2017 Technical Agenda Item #9-1 Description**

The SASB is evaluating the revision of metric CN0501-03\(^2\) to improve its cost-effectiveness and the alignment with existing industry frameworks.

**Summary of Change – Revise Metric**

The SASB revised provisional metric CN0501-03 from “Top five raw materials used in products, by weight” to “Discussion of environmental and social risks associated with sourcing priority raw materials.”

---

\(^2\) CN0501-03: Top five raw materials used in products, by weight
Revision CG-AA:03 – **Industry:** Apparel, Accessories & Footwear; **Topic Name:** Labor Conditions in the Supply Chain

**2017 Technical Agenda Item #9-3 Description**

SASB is evaluating the revision of metric CN0501-06\(^{263}\) to improve its completeness and representativeness.

**Summary of Change – Revise Technical Protocol**

The SASB added a note to provisional metric CN0501-06, “Priority non-conformance rate and associated corrective action rate for suppliers’ labor code of conduct audits,” to provide context regarding a registrant’s supply chain auditing practices.

Revision CG-AM:01 – **Industry:** Appliance Manufacturing; **Topic Name:** Product Safety

**2017 Technical Agenda Item #9-4 Description**

SASB is evaluating the addition of a new metric to improve the completeness, representativeness, and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Add Metric**

The SASB added a new metric, “Discussion of process to identify and manage safety risks associated with the use of its products.”

Revision CG-BF:01 – **Industry:** Building Products & Furnishings; **Topic Name:** Wood Sourcing

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic Wood Sourcing to Wood Supply Chain Management.

---

\(^{263}\) CN0501-06: Priority non-conformance rate and associated corrective action rate for suppliers’ labor code of conduct audits
Renewable Resources & Alternative Energy Sector

Biofuels
Solar Technology & Project Developers
Wind Technology & Project Developers
Fuel Cells & Industrial Batteries
Forestry Management
Pulp & Paper Products

Prepared by the
Sustainability Accounting Standards Board®
RR-BI:01 – **Industry**: Biofuels; **Topic Name**: Water Management in Manufacturing

**2017 Technical Agenda Item #10-2 Description**

SASB is evaluating revisions to the water quality metric RR0101-05\(^{264}\) to improve its decision-usefulness.

**Summary of Change – Revise Metric**

The SASB revised the scope of the metric RR0101-05, “Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations,” to incidents that result in a formal enforcement action, as opposed to all types of incidents of non-compliance regardless of whether such incidents resulted in enforcement actions.

RR-BI:02 – **Industry**: Biofuels; **Topic Name**: Product Formulation & Impacts on Food Markets

**2017 Technical Agenda Item #10-1 Description**

SASB is evaluating the removal of the topic, including the corresponding metrics RR0101-06\(^{265}\) and RR0101-07\(^{266}\) to improve the cost-effectiveness and relevance of the standard.

**Summary of Change – Remove Topic and Metrics**

The SASB removed the provisional topic Product Formulation & Impacts on Food Markets and the following corresponding metrics:

- RR0101-06: Top five feedstocks used for biofuels production, by weight.
- RR0101-07: Percentage of feedstock grown in food-insecure countries.

RR-BI:03 – **Industry**: Biofuels; **Topic Name**: Management of the Legal & Regulatory Environment

**2017 Technical Agenda Item #10-3 Description**

SASB is evaluating revisions to the topic, including the corresponding metric RR0101-10\(^{267}\), to improve the cost-effectiveness and materiality of the standard.

---

\(^{264}\) RT0101-05: Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations

\(^{265}\) RR0101-06: Top five feedstocks used for biofuels production, by weight

\(^{266}\) RR0101-07: Percentage of feedstock grown in food-insecure countries

\(^{267}\) RR0101-10: Discussion of positions on the regulatory and political environment related to environmental and social factors and description of efforts to manage risks and opportunities presented
Summary of Change – Revise Metric

SASB revised metric RR0101-10, “Discussion of positions on the regulatory and political environment related to environmental and social factors and description of efforts to manage risks and opportunities presented,” by eliminating references to political influence to improve the cost-effectiveness and materiality of the standard.

RR-ST:01 – Industry: Solar Technology & Project Developers; Topic Name: Activity Metrics

Summary of Change – Revise Metric

The SASB removed the activity metric RR0102-A, “Total capacity of photovoltaic (PV) solar modules sold.”


Summary of Change – Revise Topic Name

The SASB revised the name of the topic from Hazardous Materials Management to Hazardous Waste Management.


Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol of provisional metric RT0101-09, “Amount of hazardous waste, percentage recycled,” to define hazardous waste and hazardous waste recycled per the regulations prevalent at the point of waste generation. The revised approach will revise the requirement to classify all hazardous waste, regardless of where it is generated, according to the protocols of the U.S. EPA’s Resource Conservation and Recovery Act (RCRA). Additionally, the SASB included a disclosure requirement to report the hazardous waste regulations that were used to classify the company’s waste.

RR-ST:04 – Industry: Solar Technology & Project Developers; Topic Name: Community & Ecological Impacts of Project Development

Summary of Change – Revise Topic Name

The SASB revised the name of the disclosure topic Community & Ecological Impacts of Project Development to Ecological Impacts of Project Development.
RR-ST:05 – **Industry**: Solar Technology & Project Developers; **Topic Name**: Community & Ecological Impacts of Project Development\(^{268}\)

**Summary of Change – Revise Metric**

The SASB replaced the existing metric, RR0102-07 “Project development asset impairments associated with community or ecological impacts” with the following metric: “Number and duration of project delays related to ecological impacts.”

RR-ST:06 – **Industry**: Solar Technology & Project Developers; **Topic Name**: Management of Energy Infrastructure Integration & Related Regulations

**Summary of Change – Remove Metric**

The SASB removed the metric “Average price of solar energy (1) photovoltaic (PV) modules and (2) completed utility-scale systems.”

RR-ST:07 – **Industry**: Solar Technology & Project Developers; **Topic Name**: Management of Energy Infrastructure Integration & Related Regulations

**2017 Technical Agenda Item #10-4 Description**

SASB is evaluating revisions to the topic, including the corresponding metric RR0102-09\(^{269}\), to improve the cost-effectiveness and materiality of the standard.

**Summary of Change – Revise Metrics**

SASB revised RR0102-10, “Discussion of risks and opportunities associated with energy policy and its impact on the integration of solar energy into existing energy infrastructure” to remove the requirement to disclose political and lobbying expenditures.

---

\(^{268}\) See Revision RR-ST:04 for the revised topic name.

\(^{269}\) RR0102-09: Description of risks associated with integration of solar energy into existing energy infrastructure and discussion of efforts to manage those risks
RR-ST:08 – **Industry**: Solar Technology & Project Developers; **Topic Name**: Product Lifecycle Environmental Impacts

**Summary of Change – Revise Topic Name**

The SASB renamed the topic from Product Lifecycle Environmental Impacts to Product End-of-life Management.

RR-ST:09 – **Industry**: Solar Technology & Project Developers; **Topic Name**: Product Lifecycle Environmental Impacts

**Summary of Change – Revise Metrics**

The SASB revised the metrics associated with the topic Product Lifecycle Environmental Impacts in accordance with the following:

- Replaced the metric RR0102-13 “Discussion of approach to manage use, reclamation, and disposal of hazardous materials” with “Description of approach and strategies to designing products for high-value recycling.”
- Added the metric “Percentage of products containing IEC 62474 declarable substances, arsenic compounds, antimony compounds, and beryllium compounds.”

RR-ST:10 – **Industry**: Solar Technology & Project Developers; **Topic Name**: Materials Sourcing

**2017 Technical Agenda Item #10-5 Description**

SASB is evaluating revisions to the topic, including the corresponding metrics RR0102-14 and RR0102-15, to improve the cost-effectiveness and materiality of the standard.

**Summary of Change – Revise Topic and Metrics**

The SASB revised the scope of the Materials Sourcing disclosure topic to improve its representation of potential financial impacts stemming from risks and opportunities related to resource scarcity and supply constraints. As a result of the topic revision, the SASB removed one provisional metric:

- RR0102-14 – Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free; and RR0102-15: Discussion of the management of risks associated with the use of conflict minerals.

---

270 See Revision RR-ST:04 for the revised topic name.
271 RR0102-14: Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free; and RR0102-15: Discussion of the management of risks associated with the use of conflict minerals.
Additionally, the SASB removed the term “conflict minerals” from provisional metric RR0102-15, “Discussion of the management of risks associated with the use of critical materials and conflict minerals,” and further revised the technical protocol to recommend that companies disclose the primary critical materials used, risk(s) to their operations from the use of the critical materials, and strategies to mitigate those risk(s).

RR-WT:01 – Industry: Wind Technology & Project Developers; Topic Name: Design to Mitigate Community & Ecological Impacts

Summary of Change – Revise Topic Name

The SASB revised the provisional topic name from “Design to Mitigate Community & Ecological Impacts” to “Ecological Impacts of Project Development.”

RR-WT:02 – Industry: Wind Technology & Project Developers; Topic Name: Materials Sourcing

2017 Technical Agenda Item #10-6 Description

SASB is evaluating the revision and/or removal of metrics RR0103-09272 and RR0103-10273 to improve the cost-effectiveness and decision-usefulness of the metrics associated with the topic.

Summary of Change – Revise Topic and Metrics

The SASB revised the scope of the Materials Sourcing disclosure topic to improve its representation of potential financial impacts stemming from risks and opportunities related to resource scarcity and supply constraints. As a result of the topic revision, the SASB removed two provisional metrics:

- RR0103-08 – Percentage of materials costs for items containing critical materials/Percentage of products by revenue that contain critical materials/etc.
- RR0103-09 – Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free

Additionally, the SASB removed the term “conflict minerals” from provisional metric RR0103-10, “Discussion of the management of risks associated with the use of critical materials and conflict minerals,” and further revised the technical protocol to recommend that companies disclose the primary critical materials used, risk(s) to their operations from the use of the critical materials, and strategies to mitigate those risk(s).

---

272 RR0103-09: Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free
273 RR0103-10: Discussion of the management of risks associated with the use of critical materials and conflict minerals
RR-FC:01 – **Industry**: Fuel Cells & Industrial Batteries; **Topic Name**: Product Efficiency

**2017 Technical Agenda Item #10-7 Description**

SASB is evaluating splitting the topic to improve the quality and clarity of the standard.

**No Proposed Change**

Based upon research and approval of the SASB Standards Board, no changes related to Technical Agenda item 10-7 are proposed to the provisional standard at this time.

RR-FC:02 – **Industry**: Fuel Cells & Industrial Batteries; **Topic Name**: Materials Sourcing

**2017 Technical Agenda Item #10-8 Description**

SASB is evaluating the revision and/or removal of metrics RR0104-13\(^{274}\) and RR0104-14\(^{275}\) to improve the cost-effectiveness and decision-usefulness of the metrics associated with the topic.

**Summary of Change – Revise Topic and Metrics**

The SASB revised the scope of the Materials Sourcing disclosure topic to improve its representation of potential financial impacts stemming from risks and opportunities related to resource scarcity and supply constraints. As a result of the topic revision, the SASB removed two provisional metrics:

- RR0104-12 – Percentage of materials costs for items containing critical materials/Percentage of products by revenue that contain critical materials/etc.
- RR0104-13 – Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free

Additionally, the SASB removed the term “conflict minerals” from provisional metric RR0104-14, “Discussion of the management of risks associated with the use of critical materials and conflict minerals,” and further revised the technical protocol to recommend that companies disclose the primary critical materials used, risk(s) to their operations from the use of the critical materials, and strategies to mitigate those risk(s).

---

\(^{274}\) RR0104-13: Percentage of tungsten, tin, tantalum, and gold smelters within the supply chain that are verified conflict-free

\(^{275}\) RR0104-14: Discussion of the management of risks associated with the use of critical materials and conflict minerals
RR-FM:01 – **Industry**: Forestry Management; **Topic Name**: Ecosystem Services & Impacts

**2017 Technical Agenda Item #10-9 Description**

SASB is evaluating the revision of the technical protocol associated with metric RR0201-02 to improve the relevance of the metric.

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol of provisional quantitative metric RR0201-02, “Area of forestland with protected conservation status,” and provisional quantitative metric RR0201-03, “Area of forestland in endangered species habitat” to clarify aspects of the technical protocol and to improve their relevance.

Specifically, the technical protocol associated with provisional metric RR0201-02 was revised to update references for areas of protected conservation status as well as to include public lands managed by the registrant within the scope of disclosure. The technical protocol associated with provisional metric RR0201-03 was revised to clarify the scope of disclosure with respect to the types of threatened or endangered species that should be included.

RR-FM:02 – **Industry**: Forestry Management; **Topic Name**: Ecosystem Services & Impacts

**Summary of Change – Revise Technical Protocol**

The SASB removed the following line from the technical protocol: “The company may choose to provide discussion around forestlands that are located in protected areas but present low risk to biodiversity or ecosystem services. The company may choose to provide similar discussion for forestlands located in areas with no official designation of high biodiversity value but that present high biodiversity or ecosystem services risks.”

RR-PP:01 – **Industry**: Pulp & Paper Products; **Topic Name**: Air Quality

**2017 Technical Agenda Item #10-10 Description**

SASB is evaluating the revision of metric RR0202-03 to improve its cost-effectiveness and alignment with existing regulations.

**Summary of Change – Revise Metric**

SASB revised metric RR0202-03 from “Air emissions for the following pollutants: NOx (excluding N2O), SOx, volatile organic compounds (VOCs), particulate matter (PM), and hazardous air pollutants (HAPS)” to “Air emissions for the...”

---

276 RR0201-02: Area of forestland with protected conservation status; RR0201-02: Area of forestland in endangered species habitat
277 RR0202-03: Air emissions for the following pollutants: NOx (excluding N2O), SOx, volatile organic compounds (VOCs), particulate matter (PM), and hazardous air pollutants (HAPS)
following pollutants: NOx (excluding N2O), SO2, volatile organic compounds (VOCs), total filterable particulate matter emissions, and hazardous air pollutants (HAPS).” The technical protocol has been updated to reflect these changes and provide guidance regarding associated definitions, scope, compilation, and presentation of the revised metric.

RR-PP:02 – **Industry**: Pulp & Paper Products; **Topic Name**: Energy Management

2017 Technical Agenda Item #10-11 Description

SASB is evaluating revisions to metric RR0202-04 to improve the decision-usefulness and completeness of the metrics associated with the topic.

**Summary of Change – Revise Metric**

The SASB revised metric RR0202-04 “Total energy consumed, (1) percentage grid electricity, (2) percentage from biomass, and (3) percentage from other renewables” to include a reporting category within the existing metric that asks companies to report the share of self-generated energy, and a secondary technical protocol line that allows companies to report the amount of energy sold to a customer or electric utility.

RR-PP:03 – **Industry**: Pulp & Paper Products; **Topic Name**: Greenhouse Gas Emissions

**Summary of Change – Revise Technical Protocol:**

The SASB revised the technical protocol to clarify aspects of the World Resources Institute (WRI) Greenhouse Gas (GHG) guidance related to the calculation and reporting of mobile and biogenic emissions.

RR-PP:04 – **Industry**: Pulp & Paper Products; **Topic Name**: Fiber Sourcing & Recovery

**Summary of Change – Revise Topic Name**

The SASB changed the provisional topic name from “Fiber Sourcing & Recovery” to “Supply Chain Management.”

---

278 RR0202-04: Total energy consumed, (1) percentage grid electricity, (2) percentage from biomass, and (3) percentage from other renewables
Infrastructure Sector

Electric Utilities & Power Generators
Gas Utilities & Distributors
Water Utilities & Services
Waste Management
Engineering & Construction Services
Home Builders
Real Estate
Real Estate Services

Prepared by the Sustainability Accounting Standards Board®

2017 Technical Agenda Item #11-1 Description

SASB is evaluating the addition of new metrics, to improve the completeness and decision-usefulness of the metrics associated with the topic, as well as the alignment with existing reporting frameworks and industry metrics.

Summary of Change – Add Metric

The SASB added a new metric, “Greenhouse gas emissions (GHG) associated with power deliveries.” As a result, an activity metric was also added to improve the usefulness of the new metric, “Total wholesale electricity purchased.”

Revision IF-EU:02 – Industry: Electric Utilities & Power Generators; Topic Name: Water Management

2017 Technical Agenda Item #11-2 Description

SASB is evaluating a revision to the water quality metric IF0101-06 to improve its decision-usefulness.

Summary of Change – Revise Technical Protocol

The SASB revised the technical protocol for provisional metric IF0101-06, “Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations,” to limit the scope of incidents of non-compliance to exclusively those that result in a formal enforcement action.

Revision IF-EU:03 – Industry: Electric Utilities & Power Generators; Topic Name: Community Impacts of Project Siting

2017 Technical Agenda Item #11-3 Description

SASB is evaluating the removal of the topic, including the corresponding metrics IF0101-10 and IF0101-11, to improve the cost-effectiveness and materiality of the standard.

---

279 IF0101-06: Number of incidents of non-compliance with water quality and/or quantity permits, standards, and regulations

280 IF0101-10: Number of projects requiring environmental or social modification, percentage of modifications resulting from formal public interventions or protests

281 IF0101-11: Discussion of community engagement processes to identify and mitigate concerns regarding project environmental and community impacts
Summary of Change – Remove Topic and Metrics
The SASB removed the provisional topic, Community Impacts of Project Siting, from the standard, along with the corresponding provisional metrics:

IF0101-10: Number of projects requiring environmental or social modification, percentage of modifications resulting from formal public interventions or protests
IF0101-11: Discussion of community engagement processes to identify and mitigate concerns regarding project environmental and community impacts

Revision IF-EU:04 – Industry: Electric Utilities & Power Generators; Topic Name: Energy Affordability

2017 Technical Agenda Item #11-4 Description
SASB is evaluating the addition of a new topic, including new metrics, based on the potential for performance on this topic to affect corporate value, and to improve the materiality and decision-usefulness of the standard.

Summary of Change – Add Topic and Metrics:
The SASB added the disclosure topic Energy Affordability, including the following corresponding metrics:

Average retail electric rate for (1) residential, (2) commercial, and (3) industrial customers

Typical monthly electric bill for residential customers for (1) 500 kWh and (2) 1,000 kWh of electricity delivered per month

Number of residential customer electric disconnections for non-payment, percentage reconnected within 30 days

Discussion of impact of external factors that impact the affordability of electricity, including the economic conditions of the service territory

Furthermore, the SASB revised one provisional activity metric and added a new activity metric:

Revised activity metric, IF0101-A, “Number of: (1) residential and (2) commercial customers served,” to incorporate a third customer category, industrial customers

Added new activity metric, “Total electricity delivered to: (1) residential, (2) commercial, (3) industrial, (4) all other retail customers, and (5) wholesale customers”

Revision IF-EU:05 – Industry: Electric Utilities & Power Generators; Topic Name: End-Use Efficiency & Demand
2017 Technical Agenda Item #11-5 Description
SASB is evaluating the addition of new metrics to improve the decision-usefulness and completeness of the metrics associated with the topic.

Summary of Change – Add Metric
The SASB added a new metric to the topic, End-Use Efficiency & Demand, “Percentage of electric utility revenues from rate structures that (1) are decoupled, and (2) contain a lost revenue adjustment mechanism (LRAM).”

Revision IF-EU:06 – Industry: Electric Utilities & Power Generators; Topic Name: Management of the Legal & Regulatory Environment

2017 Technical Agenda Item #11-6 Description
SASB is evaluating revisions to the topic, including suitability of the corresponding metrics IF0101-19, IF0101-20, and IF0101-21, to improve the cost-effectiveness and materiality of the standard.

Summary of Change – Remove Topic and Metrics
The SASB removed the provisional topic, Management of the Legal & Regulatory Environment, from the standard, along with the corresponding provisional metrics:

- IF0101-19: Discussion of policies and processes to identify and manage potential ethical violations resulting from interactions with utility commissions
- IF0101-20: Amount of legal and regulatory fines and settlements associated with allegations of violations resulting from interactions with utility commissions
- IF0101-21: Discussion of positions on the regulatory and political environment related to environmental and social factors and description of efforts to manage risks and opportunities presented

As a result of the above, the SASB also revised the provisional topic, Greenhouse Gas Emissions & Energy Resource Planning, to incorporate the element of engagement with regulators in the context of GHG emissions and energy resource planning. This resulted in a revision to provisional metric IF0101-02, “Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emission-reduction targets, and an analysis of performance against those targets,” to incorporate the element of compliance with emissions regulations, as well as strategies to attain such regulatory compliance, into the technical protocol.

---

282 IF0101-19: Discussion of policies and processes to identify and manage potential ethical violations resulting from interactions with utility commissions
283 IF0101-20: Amount of legal and regulatory fines and settlements associated with allegations of violations resulting from interactions with utility commissions
284 IF0101-21: Discussion of positions on the regulatory and political environment related to environmental and social factors and description of efforts to manage risks and opportunities presented
Revision IF-EU:07 – **Industry**: Electric Utilities & Power Generators; **Topic Name**: Grid Resiliency

**Summary of Change – Revise Metric**

The SASB revised provisional metric IF0101-17, “Number of incidents of non-compliance with North American Electric Reliability Corporation (NERC) Critical Infrastructure Protection [CIP] standards” to focus on compliance with cybersecurity regulations more broadly, as opposed to the NERC CIP standards exclusively. However, the NERC CIP standards have been explicitly incorporated in the technical protocol to clarify that, when they are applicable regulations to the entity, they are explicitly within the scope of the metric. Furthermore, the NERC CIP standards serve as guiding principles designed to establish the types of other cybersecurity regulations included within the scope of the metric. The revised metric is: “Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations.”

Revision IF-GU:01 – **Industry**: Gas Utilities & Distributors; **Topic Name**: Energy Affordability

**2017 Technical Agenda Item #11-8 Description**

SASB is evaluating the addition of a new topic, including new metrics, based on the potential for performance on this topic to affect corporate value, and to improve the materiality and decision-usefulness of the standard.

**Summary of Change – Add Topic and Metrics:**

The SASB added the disclosure topic, Energy Affordability, including the following, corresponding metrics:

- Average retail gas rate for (1) residential, (2) commercial, (3) industrial customers, and (4) transportation services only
- Typical monthly gas bill for residential customers for (1) 50 MMBtu and (2) 100 MMBtu of gas delivered per year
- Number of residential customer gas disconnections for non-payment, percentage re-connected within 30 days
- Discussion of impact of external factors on customer affordability of gas, including the economic conditions of the service territory

Furthermore, the SASB revised two activity metrics:

- Revised provisional activity metric, IF0102-A, from “Number of: (1) residential and (2) commercial customers served” to “Number of: (1) residential, (2) commercial, and (3) industrial customers served”
Revised provisional activity metric, IF0102-B, from “Amount of natural gas delivered, percentage delivered to: (1) residential customers, (2) commercial customers, (3) industrial customers, and (4) transferred to a third-party” to “Amount of natural gas delivered to: (1) residential, (2) commercial, (3) industrial customers, and (4) transferred to a third-party”

Revision IF-GU:02 – Industry: Gas Utilities & Distributors; Topic Name: End-Use Efficiency

2017 Technical Agenda Item #11-9 Description
SASB is evaluating the addition of new metrics to improve the decision-usefulness and completeness of the metrics associated with the topic.

Summary of Change – Add Metric:
The SASB added a new metric to the topic End-Use Efficiency: “Percentage of gas utility revenues from rate structures that (1) are decoupled or (2) contain a lost revenue adjustment mechanism (LRAM).”

Revision IF-GU:03 – Industry: Gas Utilities & Distributors; Topic Name: Operational Safety, Emergency Preparedness and Response

2017 Technical Agenda Item #11-7 Description
SASB is evaluating the addition of a new topic, including new metrics, based on the potential for performance on this topic to affect corporate value, and to improve the materiality and decision-usefulness of the standard.

Summary of Change – Revise Topic
The SASB revised the provisional disclosure topic, Operational Safety, Emergency Preparedness, and Response, to add the aspect of GHG emissions stemming from gas distribution infrastructure (and the resulting financial risks and opportunities), while continuing to focus on the management of safety risks stemming from gas distribution infrastructure. Furthermore, the topic was clarified to reflect that emergency preparedness is a strategy to manage the risks of such infrastructure, though not necessarily integral to the sustainability disclosure topic itself. The overall revision results in renaming the topic to Integrity of Gas Delivery Infrastructure, as well as making the following corresponding changes to the provisional metrics associated with the topic:

Removed provisional metric IF0102-03: “Average response time for gas emergencies”
Added new metric: “Percentage of gas (1) transmission and (2) distribution pipelines inspected”
Revised provisional metric IF0102-05 from “Discussion of management systems used to integrate a culture of safety and emergency preparedness throughout project lifecycles” to “Description of efforts to manage the integrity of gas delivery infrastructure, including risks related to safety and emissions”
Furthermore, the SASB revised provisional activity metric, IF0102-C, from “Length of distribution pipelines” to “Length of (1) transmission and (2) distribution pipelines.”

Revision IF-WU:01 – **Industry:** Water Utilities & Services; **Topic Name:** Distribution Network Resiliency

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol for provisional metric IF0103-12, “Water pipe replacement rate,” to include pipe rehabilitations and renewals within the scope of “pipe replacements,” as well as to explicitly exclude pipe repairs. Additionally, the wording of the metric has been clarified to include the term “water main” as opposed to “water pipe.” The resulting metric is, “Water main replacement rate.”

Revision IF-WU:02 – **Industry:** Water Utilities & Services; **Topic Name:** Effluent Quality Management

**2017 Technical Agenda Item #11-10 Description**

SASB is evaluating revisions to metric IF0103-02\(^{285}\) to improve its decision-usefulness.

**Summary of Change – Revise Technical Protocol**

The SASB revised the technical protocol for provisional metric IF0103-02, “Number of incidents of non-compliance with water effluent quality permits, standards, and regulations,” to limit the scope of incidents of non-compliance exclusively to those that result in a formal enforcement action.

Revision IF-WU:03 – **Industry:** Water Utilities & Services; **Topic Name:** Fair Pricing & Access

**2017 Technical Agenda Item #11-11 Description**

SASB is evaluating the suitability of the topic name.

**Summary of Change – Revise Topic Name**

The SASB renamed the provisional topic from “Fair Pricing & Access” to “Water Affordability & Access.”

Revision IF-WU:04 – **Industry:** Water Utilities & Services; **Topic Name:** Fair Pricing & Access

---

\(^{285}\) IF0103-02: Number of incidents of non-compliance with water effluent quality permits, standards, and regulations
2017 Technical Agenda Item #11-12 Description

SASB is evaluating revisions to the topic, including the corresponding metrics IF0103-09 and IF0103-10, to improve the materiality and decision-usefulness of the standard.

Summary of Change – Revise Metrics

The SASB removed the following provisional metrics:

IF0103-09: Number of formal customer complaints regarding pricing of and/or access to water received, percentage withdrawn

IF0103-10: Discussion of how considerations of fair pricing and access are integrated into determinations of rate structures

And replaced them with the following performance metrics:

Average retail water rate for: (1) residential, (2) commercial, and (3) industrial customers

Typical monthly water bill for residential customers for 10 Ccf of water delivered per month

Number of residential customer water disconnections for non-payment, percentage re-connected within 30 days

Discussion of impact of external factors on customer affordability of water, including the economic conditions of the service territory

Furthermore, the SASB revised two activity metrics, and added a new activity metric:

Revised activity metric, IF0103-A, “Number of (1) residential and (2) commercial customers served,” to incorporate a third customer category, industrial customers.

Revised activity metric, IF0103-B, “Volume of water delivered and percentage purchased from a third party” to “Total water delivered to (1) residential, (2) commercial, (3) industrial, and (4) all other customers”

Added new activity metric, “Total water sourced, percentage by source type”

Revision IF-WU:05 – Industry: Water Utilities & Services;
Topic Name: Drinking Water Quality

---

286 IF0103-09: Number of formal customer complaints regarding pricing of and/or access to water received, percentage withdrawn
287 IF0103-10: Discussion of how considerations of fair pricing and access are integrated into determinations of rate structures
Summary of Change – Revise Metric
The SASB revised the provisional metric IF0103-07, “Number of (1) acute health-based, (2) non-acute health-based, and (3) non-health-based drinking water violations,” to include non-compliance with locally applicable drinking water regulations.

Revision IF-WU:06 – Industry: Water Utilities & Services; Topic Name: Drinking Water Quality

Summary of Change – Revise Metric
The SASB revised the provisional metric IF0103-08, “Discussion of strategies to manage drinking water contaminants of emerging concern” to address the following:

- Limit the applicability of the technical protocol that requires speculative disclosure on “risks and/or opportunities associated with the potential for emerging contaminants to [be regulated],” in order to only apply to contaminants that have received a preliminary or positive regulatory determination or a health advisory notice.

- The technical protocol has been expanded to specify that locally applicable drinking water regulations, or proposed regulations, on contaminants of emerging concern are included within the scope of the metric.

Revision IF-WU:07 – Industry: Water Utilities & Services; Topic Name: End-Use Efficiency

2017 Technical Agenda Item #11-13 Description
SASB is evaluating the addition of new metrics to improve the decision-usefulness and completeness of the metrics associated with the topic.

Summary of Change – Add Metric
The SASB added a new metric to the topic, End-Use Efficiency: “Percentage of water utility revenues from rate structures that are designed to promote conservation and revenue resilience.”

Revision IF-WU:08 – Industry: Water Utilities & Services; Topic Name: Water Scarcity

Summary of Change – Revise Topic and Metrics
The SASB revised the disclosure topic, Water Scarcity, to more broadly address water supply resilience as opposed to water scarcity exclusively. As a result, the topic name was revised to Water Supply Resilience.

Furthermore, the technical protocol associated with provisional metric IF0103-06, “Discussion of strategies to manage risks associated with the quality and availability of water resources,” was revised to more comprehensively
incorporate water supply risks beyond water scarcity, as well as to explicitly require disclosure of the most significant risks to water supply.

Revision IF-WU:09 – Industry: Water Utilities & Services; Topic Name: Network Resilience & Impacts of Climate Change

Summary of Change – Revise Metric
The SASB revised provisional metric IF0103-15, “Volume of sanitary sewer overflows (SSO), percentage recovered” to “(1) Number and (2) volume of sanitary sewer overflows (SSO), (3) percentage of volume recovered.”

Revision IF-WU:10 – Industry: Water Utilities & Services; Topic Name: Network Resilience & Impacts of Climate Change

Summary of Change – Revise Metric
The SASB revised provisional metric IF0103-16, “(1) Number of service disruptions, (2) population affected, and (3) average duration” to:

- Remove the “average duration” component of the metric but specify that disruptions are to be disclosed by length of duration category: under 4 hours, between 4 and 12 hours, or 12 hours or more;
- Revise the metric component on “population affected” to “customers affected;” and
- Clarify the metric wording to communicate that only unplanned service disruptions are within the scope of the metric.

The resulting metric is: “(1) Number of unplanned service disruptions, and (2) customers affected, each by duration category.”

Revision IF-WU:11 – Industry: Water Utilities & Services; Topic Name: (Multiple Topics)

Summary of Change – Revise Activity Metrics
The SASB revised or clarified multiple components of the industry standard to specify the type of industry activity or activities that are applicable to each these components. As a result, multiple disclosure topics, accounting metrics, and activity metrics were revised or clarified by specifying whether water services, wastewater services, and/or stormwater services apply to the topic and/or metric scope. The actions executed are as follows:

1. Revised exposure draft activity metric TA11-12-A, “Number of (1) residential, (2) commercial, and (3) industrial customers served,” to breakout disclosure of each customer type by water service customers
versus wastewater service customers; furthermore, allow for additional customer types to be disclosed, as determined and defined by the entity.

2. Revised provisional activity metric IF0103-C, “Average volume of wastewater treated per day,” to separate disclosure by sanitary sewer, stormwater, and combined sewer, as follows: “Average volume of wastewater treated per day, by (1) sanitary sewer, (2) stormwater, and (3) combined sewer.”

3. Revised provisional activity metric IF0103-D, “Length of transportation and distribution lines,” to separate disclosure by pipe or line type, as follows: “Length of (1) water mains and (2) sewer pipe.”

4. Clarified topic, Distribution Network Efficiency, to specify that the topic is exclusively focused on water services.

5. Clarified topic, Network Resiliency & Impacts of Climate Change, to specify that the topic applies to both water services and wastewater services.

6. Clarified the following metrics to specify that the metrics apply to all industry activities, though disclosure may be broken out by the type of activity:

   a. Provisional metric IF0103-01, “Total energy consumed, percentage grid electricity, percentage renewable”
   
   b. Provisional metric IF0103-17, “Discussion of efforts to identify and manage risks and opportunities related to the impact of climate change on the distribution network.”

7. Clarified technical protocols of the following metrics to specify that the metrics exclusively apply to water services:

   a. Exposure draft metric TA11-12-01, “Average retail water rate for: (1) residential, (2) commercial, and (3) industrial customers”
   
   b. Exposure draft metric TA11-12-02, “Typical monthly water bill for residential customers”
   
   c. Exposure draft metric TA11-12-03, “Number of residential customer water disconnections for non-payment, percentage reconnected within 30 days”
   
   d. Exposure draft metric TA11-13-01, “Percentage of water utility revenues from rate structures that (1) are decoupled or (2) contain a lost revenue adjustment mechanism (LRAM)”
   
   e. Provisional metric IF0103-11, “Customer water savings from efficiency measures by market”
   
   f. Provisional metric IF0103-12, “Water pipe replacement rate”

---

288 See Revision 11-13 for a revision related to this metric.
Revision IF-WM:01 – **Industry:** Waste Management; **Topic Name:** Greenhouse Gas Emissions

**Summary of Change – Revise Metric**

The SASB revised provisional metric IF0201-03 from “Description of long-term and short-term strategy or plan to manage Scope 1 emissions, emission reduction targets, and an analysis of performance against those targets,” to add “lifecycle emissions” to the scope of the metric, as per the following: “Discussion of long-term and short-term strategy or plan to manage Scope 1 and lifecycle emissions, emission reduction targets, and an analysis of performance against those targets.”

Revision IF-WM:02 – **Industry:** Waste Management; **Topic Name:** Fleet Fuel Management

**Summary of Change – Revise Metric**

The SASB revised provisional metric TR0402-03 from “Total fuel consumed, percentage renewable” to “(1) Fleet fuel consumed, (2) percentage natural gas, (3) percentage renewable.”

Revision IF-WM:03 – **Industry:** Waste Management; **Topic Name:** Management of Leachate & Hazardous Waste

**2017 Technical Agenda Item #11-14 Description**

SASB is evaluating revisions to metric IF0201-11\(^{289}\) to improve its decision-usefulness.

**Summary of Change – Revise Metric**

The SASB revised provisional metric IF0201-11, “Number of incidents of non-compliance associated with environmental impacts,” to limit the scope of incidents of non-compliance to exclusively those that result in a formal enforcement action.

Revision IF-WM:04 – **Industry:** Waste Management; **Topic Name:** Labor Relations

---

\(^{289}\) IF0201-11: Number of incidents of non-compliance associated with environmental impacts
Summary of Change – Revise Topic Name
The SASB revised the provisional topic name from “Labor Relations” to “Labor Practices.”


Summary of Change – Revise Metric
The SASB revised provisional metric IF0201-18 “Percentage of customers receiving (1) recycling and (2) composting services, by customer type,” and IF0201-19 “Amount of material (1) recycled and (2) composted,” to exclude waste-to-energy from the scope of recycling. Additionally, provisional metric IF0201-19 was also revised to add waste-to-energy as a third category for disclosure.

Revision IF-EN:01 – Industry: Engineering & Construction Services; Topic Name: Business Ethics & Bidding Integrity

2017 Technical Agenda Item #11-15 Description
The SASB is evaluating the suitability of the topic name.

Summary of Change – Revise Topic Name
The SASB renamed the provisional topic, changing it from “Business Ethics & Bidding Integrity” to “Business Ethics.”