

C0. Introduction

C0.1

(C0.1) Give a general description and introduction to your organization.

Apple Inc. and its wholly-owned subsidiaries (hereinafter, collectively, Apple or the Company) designs, manufactures and markets smartphones, personal computers, tablets, wearables and accessories, and sells a variety of related services. The Company's products include iPhone®, iPad®, Mac®, Apple Watch®, AirPods®, AirPods Max™, Apple TV®, Beats® products, HomePod®, iPod touch® and other Apple-branded and third-party accessories. The Company operates various platforms, including the App Store®, that allow customers to discover and download applications and digital content, such as books, music, video, games and podcasts. Apple also offers digital content through subscription-based services, including Apple Arcade®, Apple Music®, Apple News+®, Apple TV+® and Apple Fitness+SM, and a variety of other services, including AppleCare®, iCloud®, Apple Card®, and Apple Pay®.

The Company's customers are primarily in the consumer, small and mid-sized business, education, enterprise and government markets. The Company sells its products and resells third-party products in most of its major markets directly to consumers, small and mid-sized businesses, and education, enterprise and government customers through its retail and online stores and its direct sales force. The Company also employs a variety of indirect distribution channels, such as third-party cellular network carriers, wholesalers, retailers and resellers. The Company's fiscal year is the 52 or 53-week period that ends on the last Saturday of September, with fiscal year 2021 beginning September 26, 2020 and ending on September 25, 2021.

Apple has provided responses in this Questionnaire upon the request of the CDP signatory investors. All such responses are provided solely on a non-reliance basis. Apple's responses may also contain forward-looking statements that involve risks and uncertainties. Forward-looking statements provide current expectations of future events based on certain assumptions and include any statement that does not directly relate to any historical or current fact. Forward-looking statements are not guarantees of future performance and the Company's actual results may differ significantly from the results discussed in the forward-looking statements. Factors that might cause such differences include, but are not limited to, those discussed in the "Risk Factors" section of the Company's most recently filed periodic reports on Form 10-K and Form 10-Q and subsequent filings with the U.S. Securities and Exchange Commission. Apple assumes no obligation to revise or update any information included in this Questionnaire.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Reporting year	September 26 2020	September 25 2021	No	<Not Applicable>

C0.3

(C0.3) Select the countries/areas in which you operate.

C0.4

(C0.4) Select the currency used for all financial information disclosed throughout your response.

USD

C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.

Operational control

C0.8

(C0.8) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization	Provide your unique identifier
Yes, a Ticker symbol	AAPL

C1. Governance

C1.1

(C1.1) Is there board-level oversight of climate-related issues within your organization?

Yes

C1.1a

(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.

Position of individual(s)	Please explain
Board-level committee	Apple's Board of Directors (Board) reviews and discusses updates on environmental matters with Apple's Vice President of Environment, Social, and Policy Initiatives, who is responsible for the development, review, and execution of plans designed to minimize Apple's impact on the environment. These reports include Apple's progress towards environmental and climate goals and the environmental impact of our products and operations. Apple's Board also regularly meets with management to exercise oversight and provide guidance on strategic objectives of importance to the Company. Apple's Audit and Finance Committee, one of the standing committees of Apple's Board of Directors, is responsible for reviewing and approving any offerings of the Company's debt securities, and taking all actions in furtherance of such transactions, including the appointment of a management pricing committee to determine and approve the specific timing, terms and conditions of any debt offerings. In November 2019, the management pricing committee appointed by the Audit and Finance Committee proceeded with a €2 billion (approximately \$2.2 billion) offering of two series of green bonds dedicated to global initiatives that address Apple's carbon footprint. On an annual basis, management reports to the Audit and Finance Committee on the allocation of Apple's green bond proceeds to eligible environmental projects as reflected in the Company's Annual Green Bond Impact Reports.

C1.1b

(C1.1b) Provide further details on the board's oversight of climate-related issues.

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Scope of board-level oversight	Please explain
Scheduled – some meetings	Reviewing and guiding strategy Reviewing and guiding risk management policies	<Not Applicable>	The Vice President of Environment, Policy, and Social Initiatives briefs Apple's Board on a range of social and environmental topics, including climate-related issues as a regularly scheduled agenda item. Regular communications from the VP ensure that the Board has insight into and oversight over the Company's risks, strategy, and initiatives relating to Apple's efforts to address climate change. These governance mechanisms ensure that climate risks, opportunities, and strategies reach the highest levels of governance within Apple for review and oversight.

C1.1d

(C1.1d) Does your organization have at least one board member with competence on climate-related issues?

	Board member(s) have competence on climate-related issues	Criteria used to assess competence of board member(s) on climate-related issues	Primary reason for no board-level competence on climate-related issues	Explain why your organization does not have at least one board member with competence on climate-related issues and any plans to address board-level competence in the future
Row 1	Yes	Apple assesses the competence of Board members on climate-related issues by evaluating their education, direct experience, and/or oversight responsibilities.	<Not Applicable>	<Not Applicable>

C1.2

(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.

Name of the position(s) and/or committee(s)	Reporting line	Responsibility	Coverage of responsibility	Frequency of reporting to the board on climate-related issues
Chief Sustainability Officer (CSO)	<Not Applicable>	Both assessing and managing climate-related risks and opportunities	<Not Applicable>	Annually

C1.2a

(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored (do not include the names of individuals).

Lisa Jackson is Apple's Vice President of Environment, Policy and Social Initiatives. Her responsibilities include those of a Chief Sustainability Officer and she reports directly to Apple's CEO, Tim Cook. Lisa Jackson, who previously was the Administrator of the U.S. Environmental Protection Agency from 2009 to 2013, oversees Apple's environmental program, including climate-related activities, as well as social initiatives and Apple's global Government Affairs team. Reporting directly to Apple's CEO, Tim Cook, Ms. Jackson is the most senior individual below the Board with direct oversight of climate-related activities.

In this capacity, Ms. Jackson briefs the Board on Apple's climate change strategy and progress, while also addressing a variety of other environment and social issues. These briefings are scheduled annually and as important matters arise. Ms. Jackson established a centralized environment team that works with senior leaders and their teams across Apple (such as Industrial Design, Product Design, Operations, Energy, and Hardware Engineering, among others) to set climate strategy, monitor progress, engage external stakeholders, including non-governmental organizations (NGOs), and policymakers, and communicate progress on environmental issues. Strategy is set by leveraging Apple's comprehensive carbon footprint (CCF), which is based on lifecycle carbon assessment (LCA) data that quantifies the lifecycle impacts of Apple's products, as well as facilities. The CCF identifies areas to focus Apple's emissions reduction efforts. Most recently, Apple, with the approval of Company leadership, announced an ambitious plan to reach net zero emissions for its entire CCF by 2030. This goal includes an emissions reduction target of 75 percent compared to 2015, with investment in carbon removal projects to address the remaining 25 percent of unavoidable emissions. In fiscal year 2021, our net carbon emissions decreased by 40 percent as compared to fiscal year 2015, marking steady progress toward our 2030 target. And we avoided more than 23 million metric tons of emissions in fiscal year 2021 through initiatives to use low-carbon materials, drive energy efficiency, and switch to clean energy—these initiatives have helped decouple business growth from emissions. Progress is tracked through annual comprehensive carbon footprint, including LCAs as well as by monitoring growth in renewable energy capacity at our own facilities and in our supply chain. Progress is communicated internally to employees and externally to our customers by engaging with communications teams, such as the Marketing Communications, Corporate Communications, and Employee Communications teams—in addition to direct engagement with policymakers and environmental stakeholders.

C1.3

(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	

C1.3a

(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).

Entitled to incentive	Type of incentive	Activity incentivized	Comment
Chief Sustainability Officer (CSO)	Monetary reward	Emissions reduction project Emissions reduction target	Lisa Jackson is Apple's Vice President of Environment, Policy and Social Initiatives. In this capacity, her responsibilities include those of a Chief Sustainability Officer for Apple, reporting directly to Apple's CEO, Tim Cook. She is expected to advance Apple's environmental and social initiatives. Her annual performance review and compensation components, including restricted stock units and annual salary adjustments, are tied to Apple's success in these areas, including work to minimize Apple's contribution to climate change.
Corporate executive team	Monetary reward	Emissions reduction project	Beginning in 2021, the Compensation Committee incorporated the ESG Modifier into the annual cash incentive program. The ESG Modifier is based on a holistic evaluation by the Compensation Committee of key accomplishments and actions taken during the year to advance our Apple's values: accessibility, education, environment, inclusion and diversity, privacy, and supplier responsibility, and key community initiatives. The Compensation Committee may choose to apply the ESG Modifier to adjust the payout amounts upwards or downwards by up to 10% or determine not to make any adjustments. The Compensation Committee will not apply the ESG Modifier to increase an annual cash incentive payout above the overall cap of 200% of the total target payout opportunity under the program. The Compensation Committee chose Apple values and key community initiatives as the basis for the ESG Modifier because they represent long-standing, business-relevant environmental, social, and governance principles that reflect Apple's commitment to promoting values-driven leadership.
Facilities manager	Monetary reward	Energy reduction project	Our Data Center, Environment and Energy teams drive the efficiency and sustainability of Apple's facilities, including designing green buildings and increasing energy efficiency at new and existing facilities. As part of Apple's broader goal of reaching carbon neutrality by 2030, Apple aims to maintain 100 percent renewable energy at its facilities. Implementing this falls on facilities managers, and their performance directly influences their monetary compensation.
All employees	Non-monetary reward	Please select	All employees at Apple are expected to uphold the values of the Company in their work and everyday activities. Apple's CEO Tim Cook has openly stated that the company must leave the world better than we found it. Accordingly, Apple employees are expected to create products that benefit people as well as the environment. Significant achievements toward environmental goals that include using recycled or renewable materials, less packaging and reducing emissions from our facilities and supply chain are recognized in Apple's annual environmental report, internal companywide communications, and individual performance reviews.
Procurement manager	Monetary reward	Environmental criteria included in purchases Supply chain engagement	Apple has a procurement team dedicated to the consideration of environmental criteria in purchasing decisions. These criteria include supplier commitments and progress toward using 100 percent renewable energy for Apple production, as well as the procurement of recycled or renewable materials for use in the production of Apple products. Both of these actions have the potential to significantly reduce the carbon footprint of Apple products. Factors in determining monetary rewards for employees include performance and progress toward meeting their environmental procurement goals.
Environment/Sustainability manager	Monetary reward	Emissions reduction project Energy reduction project	Environmental managers across a number of teams within Apple manage programs that are necessary to meet Apple's 2030 carbon neutrality goal. The performance of these individuals and the successful implementation of these carbon reduction programs directly influence their monetary compensation.

C2. Risks and opportunities

C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?

Yes

C2.1a

(C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	1	For environmental and climate-related initiatives, we consider short-term horizon to be between 0 to 1 year, medium-term between 1 to 10 years, and long term to be greater than 10 years. These timeframes help us best plan for risks and opportunities relating to climate change.
Medium-term	1	10	For environmental and climate-related initiatives, we consider medium-term horizon to be between 1 to 10 years.
Long-term	10	30	For example, some of Apple's power purchase agreements are 25 -30 years.

C2.1b

(C2.1b) How does your organization define substantive financial or strategic impact on your business?

In determining a "substantive financial or strategic impact", Apple considers whether the impact would be "material", where "material" means that there is a substantial likelihood that a reasonable investor would attach importance to it in determining whether to buy or sell shares. We consider the impact of climate change to be a potential risk that could make it difficult or impossible for the Company to manufacture and deliver products, create delays and inefficiencies in the Company's supply and manufacturing chain, and result in slowdowns and outages to the Company's service offerings. Apple strongly believes it has a responsibility to reduce its impact on climate change and consider climate change in how it plans for the future.

Apple identifies the potential size and scope of climate risks and opportunities relative to other business risks and opportunities, considering the proportion of business units affected, the significance of those business units, and redundancies we've already built into our business to minimize impacts. Since 2020, Apple has been carbon neutral for corporate operations, and has also announced a goal of becoming carbon neutral for the entire product lifecycle by 2030. To help meet this goal, we are leveraging Apple's USD\$2.2 billion green bond issued in November 2019.

C2.2

(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.

Value chain stage(s) covered

Direct operations
Upstream
Downstream

Risk management process

A specific climate-related risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Climate-related risks and opportunities for Apple are identified and assessed on an ongoing basis (more than once a year frequently than every 6 months), as part of Apple's broader climate strategy (also known as a specific climate-related risk management process). As mentioned in C2.1b, Apple strongly believes it has a responsibility to reduce its impact on climate change regardless of the financial materiality of climate impacts. Apple recently announced has a goal of becoming carbon neutral for its operations as well as the entire product lifecycle by 2030. This presents a tremendous opportunity for Apple to continue to demonstrate meaningful leadership on climate. To reach this goal, Apple has adopted a broad climate strategy that was developed by a cross-functional working group of teams across the company that meets multiple times each year to discuss risks and opportunities. For regulatory transition risks that could occur within Apple's direct operations, as well as upstream and downstream value chain, for example, Apple has global governmental affairs and environmental teams that work cross-functionally to monitor climate-related policies (like those relating to carbon pricing or renewable energy) at different stages of development and that could therefore occur over the short-, medium, and long-term. The significance of these policies is determined by their alignment to our strategic climate goals, such as whether a policy would enable or prevent market access to renewable energy. When teams consider that a proposed policy or regulation could affect our strategic goals and priorities, the proposed policy or regulation is escalated within the Company. Apple continually identifies potential policy or regulatory changes that raise concerns relating to advancing our climate strategy and prompt Apple to advocate accordingly. For policies relating to energy, Apple has a full-time energy policy advisor who tracks and advises environmental, product and operations teams across Apple on risks and opportunities from proposed or recently enacted energy-related policies at the national and state level in regions where Apple has operations. These teams work together to assess if energy policy changes will: (i) interfere with our market access to robust renewable energy options or to well-priced electric power, or (ii) create a financial impact by increasing/decreasing the cost of renewables or the tariff rate for electricity. To assess the significance of the impacts, we weigh Apple's exposure to the significance of the policy. Any action taken in response to energy policy changes is coordinated through the Vice President of Environment, Policy and Social Initiatives. Climate-related physical risks that could occur within Apple's direct operations, as well as upstream and downstream value chain over the short-, medium-, and long-term are identified and assessed at an asset level on an ongoing basis. For example, we regularly conduct water risk analyses to understand facilities that are vulnerable to existing as well as future climate-related water stress. Tools like the World Wildlife Fund (WWF) Risk Filter and the World Resources Institute (WRI) Water Risk Atlas provide us detailed profiles of geographically specific water use and water-related risks that inform our local strategy. We evaluate the risk based on the size and significance of our operations as well as the magnitude of water stress — then prioritize our actions accordingly. And we take action according to the type and significance — with material risks escalated within the company. Where we have facilities located in areas of high water stress, we seek to minimize use of freshwater through rainwater capture, onsite wastewater recycling, or use of third-party-provided recycled water. Additionally, we invest further in building out alternative water sources for our non-potable needs.

C2.2a

(C2.2a) Which risk types are considered in your organization's climate-related risk assessments?

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	We consider existing regulation and climate policies, as well as areas where regulations are lacking, when assessing climate-related risks for the Company, as both can impact Apple. For regulatory risks, Apple has a global governmental affairs and environmental teams monitor existing climate-related policies (such as those relating to carbon pricing or renewable energy) at different stages of implementation. The significance of these policies is determined based on their alignment to our strategic climate goals—for example, whether a renewable energy policy would enable or prevent market access to renewable energy. For example, in fiscal year 2017, Apple joined other tech companies in signing a statement backing the renewable energy policies that the U.S. Administration had taken steps to reverse: "We believe that strong clean energy and climate policies, like the Clean Power Plan, can make renewable energy supplies more robust and address the serious threat of climate change while also supporting American competitiveness, innovation, and job growth." The U.S. Administration's action to reverse clean energy policy posed a risk to all organizations exposed to the negative impacts of climate change. Our response to this action was elevated within our risk assessment process and involved coordination between our governmental affairs and environmental teams. The fact that Apple signed on to a formal statement with other companies demonstrates how significant risks with respect to current climate-related policies are elevated within the Company.
Emerging regulation	Relevant, always included	We consider emerging regulation, such as regulation that enables investments in renewable energy, as critical to our climate strategy, and therefore both monitor and support emerging regulation in this area. Apple's global governmental affairs and environment teams monitor emerging climate-related policies at different stages of development. The significance of these policies is determined based on their alignment to our strategic climate goals—for example, whether a renewable energy policy would enable or prevent market access to renewable energy. For example, in January 2018, Apple filed comments to the Federal Energy Regulatory Commission (FERC), urging it not to finalize a rule that would subsidize fossil fuels, which would limit the ability of renewables to compete in the electricity market. FERC chose not to finalize that rule. Identifying relevant emerging regulations early in the process is important to advancing Apple's climate-related goals, and opposing emerging regulations that make achieving such goals more difficult, such as where regulations may limit the financial competitiveness of renewable energy, is equally important.
Technology	Relevant, always included	Technology creates both risks and opportunities in a number of ways. Apple is a technology company that delivers products to our customers. These products have a carbon footprint, which we calculate through a carbon life cycle assessment (LCA) process. This carbon footprint, if not otherwise addressed, would constitute a risk to Apple, as it represents scope 3 emissions that Apple takes responsibility for as part of its comprehensive carbon footprint. Having committed to carbon neutrality by 2030, failure to address product-related emissions could represent a reputational risk to Apple. Product-related emissions also represent an opportunity for Apple to demonstrate leadership and drive down emissions. In particular, we leverage the LCA data in order to identify opportunities to reduce emissions associated with our products throughout their lifecycle. For example, aluminum makes up a large portion of our manufacturing carbon footprint, as it's a key material in many of Apple's products, and, for more than 130 years, it's been produced through a carbon-intensive process. Through a partnership with aluminum manufacturers Alcoa Corporation and Rio Tinto Aluminum, announced in May 2018, that's changing. The joint venture between Alcoa and Rio Tinto will commercialize patented technology that eliminates direct greenhouse gas emissions from the traditional smelting process, a key step in aluminum production. Apple believes that this is a revolutionary advancement in the manufacturing of one of the world's most widely used metals. In December 2019, we announced that Apple had bought the first ever commercial batch of direct carbon-free aluminum, which is currently being used in the development of the 16-inch MacBook Pro.
Legal	Relevant, sometimes included	We consider legal risks as part of our climate strategy in so much as climate-related regulatory risks have a legal component, in terms of compliance as well as risk of litigation. Such legal risks are monitored by our environmental, governmental affairs, and legal teams. For example, the EU has in effect a directive requiring, in management reports for certain legal entities, non-financial disclosures addressing environmental matters (including climate change), social and employee matters, human rights, and bribery and corruption. This directive applies to Apple because of our subsidiary operations in various EU member states. Regulation and policies like the non-financial reporting directive in the EU represent a compliance risk and a potential for reputational effects or litigation for non-compliance.
Market	Relevant, always included	We assess and consider market risks as part of our climate strategy by identifying challenges to deploying renewable energy within our operational footprint and in our supply chain. The robustness of a renewable energy market is an essential element to implementing renewable energy solutions. In countries where the local market conditions create a challenging environment to implement renewable energy solutions, we work with local government and other stakeholders to promote active, market-driven renewable energy projects. Challenging markets include ones with limited renewable energy availability, a lack of established renewable energy markets, or changes in policy to subsidize fossil fuels. These challenges are addressed through our assessment process—first identified by environmental or governmental affairs teams, who then bring proposals for addressing the challenges to our VP of Environment, Policy and Social Initiatives, as needed. Following the assessment process and proposal determination, we then take action, with the ultimate goal of advancing renewable energy and our ability to access it. For example, in January 2018, Apple filed comments to the Federal Energy Regulatory Commission, urging it not to finalize a rule that would subsidize fossil fuels, and, consequently, limit the ability of renewables to compete in the electricity market. FERC chose not to finalize that rule.
Reputation	Relevant, always included	How our customers and stakeholders perceive Apple's performance on climate-related issues could affect the demand for the Company's products. For example, a lack of action on climate change may result in customers opting to purchase electronics from companies that are demonstrating stronger leadership on climate change. We assess this risk by regularly conducting surveys to monitor customer perceptions. To manage this risk, we plan to continue to aggressively reduce emissions and communicate Apple's emissions reduction activities—including our most recent announcement to be carbon neutral by 2030. Apple also monitors the perceptions of respected NGOs and media. For example, in its most recently published Guide to Greener Electronics, Greenpeace rated Apple as one of the top scoring companies. And in a review of the new 13-inch MacBook Air with Retina Display, The Guardian described it as "one of the most sustainable laptops you can buy" and noted that "what makes the MacBook Air stand apart is its use of recycled material, including 100% recycled aluminum in the casing, 100% recycled tin in the solder of its logic board and at least 35% recycled plastic used in multiple components."
Acute physical	Relevant, always included	Acute physical impacts of climate change have the potential to interrupt Apple's operations. In fiscal year 2017, for example, Hurricane Harvey displaced Apple employees located in and around Houston, Texas and caused us to close several stores in the Houston area. We responded to this crisis by helping our employees secure temporary housing, donating \$5 million to the Hand in Hand relief effort, and creating a simple mechanism for our customers to donate to hurricane recovery efforts through iTunes. While these events did not substantially affect Apple financially, these kinds of acute physical risks are regularly assessed through Apple's risk assessment and planning processes described in our response to question C2.3a to understand and mitigate any potential financial impact. Teams across Apple are involved in assessing the impact of these acute physical risks, including Apple's Travel team, global Giving team, and Facilities and Operations teams. Urgent risks are escalated through Apple's Vice President of Environment, Policy and Social Initiatives, Lisa Jackson. An example of changes made directly into the planning process to account for heightened acute physical risks include the consideration of 200- to 500-year flood events / floodplains in planning for facilities, using best available data, beyond the typical 100-year flood events.
Chronic physical	Relevant, always included	We assess and respond to chronic physical impacts of climate change on our facilities. Northern California, for example, where our headquarters is located, has been subject to drought from time to time. This drought increases potential regulatory risk of water limits on Apple facilities and a perception risk if the local community believes Apple is not taking sufficient action to reduce water use. Most importantly, we believe it to be Apple's responsibility to contribute to the wellbeing of its local community by being as water efficient as possible. We consider these risks on an ongoing basis by monitoring water use and regional demands on municipal water systems. Broader drought risk persists and as such we are implementing landscape water reduction activities and using recycled water at our headquarters in Santa Clara Valley, California. In addition to drought-related landscape concerns, there are also potential increased costs from adapting to water availability in a changing climate. For example, near our data center in Prineville, Oregon, we partnered with the city to invest in a 180-million-gallon aquifer storage and recovery system that holds water throughout the year for use in peak demand months. This system uses natural underground spaces for cost-effective storage, helping mitigate seasonal impacts and future climate-related risks of water shortages.

C2.3

(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.3a

(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical	Other, please specify (Increased severity and frequency of extreme weather events such as cyclones and floods)
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Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Changes in the severity and frequency of extreme weather events strain the infrastructure systems (e.g., power, water, transportation, and communication) supporting our supply chain and our direct operations, as well as the human resources needed to maintain normal production capacity and services to our customers. Effects from severe weather events could cause a temporary disruption in production or the availability of component parts or finished products, in the availability of a data center that supports Apple services, or in the availability or productivity of our workforce. These effects could ultimately impact our net sales, which in fiscal year 2021, totaled \$365,817. For example, in 2017, Hurricane Harvey caused record flooding beyond that for which impacted regions of Texas, in the United States, were prepared. Hence the region suffered significant damage to infrastructure with a significant impact on residents' lives. Though direct Apple facilities were not significantly impacted by the hurricane, many Apple employees' homes were damaged. This indirectly impacted the Company as employees had to relocate and recover. The likelihood of rain-heavy storms like Harvey in areas not typically exposed to such extreme weather increases due to climate change. Because Apple facilities and facilities within its supply chain are located across the world, our geographic exposure to changing extreme weather events is high. Disruptions to these facilities and services due to changes in precipitation patterns or extreme weather events such as flooding, hurricanes, etc. could impact Apple's revenue.

Time horizon

Medium-term

Likelihood

About as likely as not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

1800000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Severe weather events or water-related service disruption of an unusually long duration, or which affect an unusually widespread area, or of unusually intense force, could impact product or service availability, which may affect our financial positions. The magnitude would depend on the facilities affected and the duration of the disruption. Severe weather events stemming from climate change could make it difficult or impossible for the Company to manufacture and deliver products, create delays and inefficiencies in the Company's supply and manufacturing chain, and result in slowdowns and outages to the Company's service offerings. As a hypothetical example, if a flooding event affected our ability to deliver 0.5% of product sales and/or services, this could potentially result in a net impact of about \$1.8 billion—based on fiscal year 2021 net sales number of \$365 billion million (as reported in our Form 10-K filing with the U.S. Securities and Exchange Commission).

Cost of response to risk

0

Description of response and explanation of cost calculation

To mitigate the increased risk of power disruption to our direct operations due to an extreme weather event, we continue to integrate our response to climate change-related risks into how we respond to overall disruption risks, like deploying back-up generators, micro-grids, and onsite renewable energy, as we have at Apple Park offices in California and Apple-operated data centers. For example, at our data center in Denmark (1 of 8 Apple-operated global data centers), we deployed a power system design based on resilient substation design. This enables resiliency from system outages from any cause, including climate-related extreme weather events, while eliminating the need for backup diesel generators, reducing our carbon footprint and local air emissions. The result of these improvements is increased system resiliency to extreme weather and outage risks. These processes include systematically reviewing supply chain risks per product, considering factors like supplier performance, including financial health, performance relative to Apple's code of conduct, and single source risks. We then prioritize the improvements based on risk level and take appropriate action to mitigate and provide increased resiliency against disruptions due to climate-related extreme weather events. We don't track any separate costs that are incurred to manage climate-related extreme weather events, because we already manage overall disruption risks from a variety of causes including climate.

Comment

C2.4

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes

(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.**Identifier**

Opp1

Where in the value chain does the opportunity occur?

Downstream

Opportunity type

Products and services

Primary climate-related opportunity driver

Shift in consumer preferences

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Growing awareness and evidence of climate change can drive changes in consumer behavior on multiple fronts: (1) consumers who believe the climate is changing and want to do what they can to mitigate this harm may increasingly view their spending as an area where they can and should exercise responsibility, and where their values come into play; and (2) climate change policies may create upward pressure on electricity prices, which could alter consumer behavior regardless of personal values relating to climate change and energy use. In both cases, consumer behavior changes would favor useful, energy efficient products. And beyond energy efficiency, consumers in the first category may seek products that overtly speak to their values and beliefs and perhaps even serve as a symbol of their belief system. For these consumers, purchasing from companies that adhere to values similar to their own may become increasingly important. In other words, companies acting responsibly by caring for the climate may be favored by people making similar efforts in their own lives. Apple regularly conducts consumer sentiment surveys that have validated this approach: a more recent survey found that consumers increasingly value action against climate change and want to purchase from companies that share this value. Selling energy efficient and low carbon products (those that meet ENERGY STAR® energy efficiency requirements and that are made responsibly with renewable energy and recycled content) creates an opportunity for Apple to offer products that not only satisfy the practical needs and requirements of consumers, but also to be the company of choice for consumers who make conscious efforts to align their spending with their values. Further, Apple's goal to be carbon neutral by 2030 for the full lifecycle of our products further demonstrates to our customers Apple's commitment to climate change leadership. Product sales for iPhone, iPad, and Mac in fiscal year 2021 were \$259,025 million per our Form 10-K filing with the U.S. Securities and Exchange Commission. Reducing (and ultimately eliminating) the carbon footprint of these products could result in increased demand for them.

Time horizon

Medium-term

Likelihood

More likely than not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

2600000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

If Apple is successful in creating products attractive to people whose purchasing habits are changing due to concerns about climate change or rising electricity prices, it may result in a competitive differentiator for our hardware products. Apple's reported product sales for iPhone, iPad and Mac in fiscal year 2021 were \$259,025 million per our Form 10-K filing with the U.S. Securities and Exchange Commission. If this competitive differentiator resulted in a hypothetical 1 percent increase in net sales, it could raise annual net sales by approximately \$2.6 billion.

Cost to realize opportunity

2200000000

Strategy to realize opportunity and explanation of cost calculation

In 2020, we announced our goal to become carbon neutral across our entire business, manufacturing supply chain, and product life cycle by 2030. Our global corporate operations are carbon neutral already, and our new commitment means by 2030, all Apple devices sold will have net zero climate impact. This goal builds on Apple's prior success powering every facility worldwide with 100% renewable energy. We plan to transition Apple's entire supply chain to 100% clean energy by 2030, significantly reducing our Scope 3 emissions from manufacturing. In fiscal year 2021, we continued to engage with suppliers to obtain commitments to transition to renewable electricity for Apple products and to help them identify renewable energy projects from which to procure renewable energy. The Supplier Clean Energy Program now has almost 16 gigawatts of clean energy commitments, of which nearly two-thirds is already operational. In fiscal year 2021, the 10.3 gigawatts of renewable energy already online in Apple's supply chain generated 18.1 million megawatt-hours of clean energy, avoiding 13.9 million metric tons of carbon emissions — a 62% increase over fiscal year 2020. We're also making products that are energy efficient: for example, the iPad Air (5th generation) consumes 56 percent less energy than the ENERGY STAR energy efficiency requirement. Thanks to improvements in energy efficiency, since 2008, we've reduced the average energy consumed by Apple products by more than 70%. We do not separately track the cost of our environmental efforts, including what is needed to reach our 2030 neutrality goal. In fiscal year 2020, we issued a \$2.2 billion green bond issued to help meet our 2030 carbon neutrality goal. We estimate that the majority of these projects will have a positive return on investment. Lisa Jackson, Apple's VP of Environment, Policy, and Social Initiatives, provided the following background on Apple's intention for the green bond issuance: "Apple is unwavering in its commitment to addressing the urgent threat of climate change. The time for action is now. By issuing an additional \$2.2 billion in green bonds, we will accelerate our work to lower carbon emissions across our supply chain and beyond, building on our successful transition to 100% renewable energy. Apple's progress is proof positive that businesses don't have to choose between what's right for the planet and a healthy bottom line."

Comment

C3. Business Strategy

C3.1

(C3.1) Does your organization’s strategy include a transition plan that aligns with a 1.5°C world?

Row 1

Transition plan

Yes, we have a transition plan which aligns with a 1.5°C world

Publicly available transition plan

Yes

Mechanism by which feedback is collected from shareholders on your transition plan

We have a different feedback mechanism in place

Description of feedback mechanism

We actively engage with shareholders and other stakeholders throughout the year to learn their perspectives on significant issues, including company performance and strategy, corporate governance, executive compensation, and environmental, social, and governance topics. This engagement helps us better understand shareholder priorities and perspectives, gives us an opportunity to elaborate upon our initiatives and practices, and fosters constructive dialogue. We take feedback and insights from our engagement with shareholders and other stakeholders into consideration as we review and evolve our practices and disclosures, and further share them with our Board as appropriate.

Frequency of feedback collection

More frequently than annually

Attach any relevant documents which detail your transition plan (optional)

Apple’s 2022 Environmental Progress Report details our plan for reaching carbon neutrality by 2030 for the life cycle of our products. This 2030 neutrality goal also includes a target to reduce our emissions by 75 percent compared with fiscal year 2015 and balance the residual emissions with high-quality carbon removal solutions. This goal is more aggressive than the recommendation for global carbon neutrality by the Intergovernmental Panel on Climate Change by 20 years. Our plan for carbon neutrality involves working within our current business model to incorporate solutions to decarbonize our products. These solutions include sourcing recycled or renewable materials for our products, abating direct emissions (where possible), deploying energy efficiency initiatives at our facilities as well as in our supply chain, and transitioning our supply chain to 100 percent renewable electricity — these solutions are detailed in our 2022 Environmental Progress Report. We believe these actions are necessary to do our part to align with a world in which the global average temperature is allowed to rise by no more than 1.5°C above pre-industrial levels.
[Apple_Environmental_Progress_Report_2022.pdf](#)

Explain why your organization does not have a transition plan that aligns with a 1.5°C world and any plans to develop one in the future

<Not Applicable>

Explain why climate-related risks and opportunities have not influenced your strategy

<Not Applicable>

C3.2

(C3.2) Does your organization use climate-related scenario analysis to inform its strategy?

	Use of climate-related scenario analysis to inform strategy	Primary reason why your organization does not use climate-related scenario analysis to inform its strategy	Explain why your organization does not use climate-related scenario analysis to inform its strategy and any plans to use it in the future
Row 1	Yes, qualitative and quantitative	<Not Applicable>	<Not Applicable>

C3.2a

(C3.2a) Provide details of your organization’s use of climate-related scenario analysis.

Climate-related scenario		Scenario analysis coverage	Temperature alignment of scenario	Parameters, assumptions, analytical choices
Physical climate scenarios	RCP 8.5	Company-wide	<Not Applicable>	In alignment with the recommendations of the Task Force for Climate-related Financial Disclosure (TCFD), in fiscal year 2020 we conducted a climate-related scenario analysis to better understand Apple’s exposure to climate change and the impact of climate change on our operations and supply chain. i) How the selected scenario(s) were identified, with reference to the inputs, assumptions and analytical methods used: To assess physical risks, we used two scenarios that capture a broad range of future climate projections: a below 2°C scenario (RCP 2.6) and a business-as-usual scenario (RCP 8.5). We then used global climate models from the intercomparison project (CMIP5) that corresponded to these representative concentration pathways. We considered changes over time in three key hazards: heatwaves, heavy precipitation, and drought. We also undertook additional analyses to understand potential future changes in the frequency and intensity of tropical cyclones. Inputs included the geographic location and activities performed at facilities. ii) Time horizon and rationale: The analysis incorporated multiple timeframes (short- and mid-term), extending through 2040 to account for the expected lifespan of major facilities. This timeframe also allowed us to capture divergence in the climate models. iii) Areas of your organization considered: The analysis considered physical and transition risks to our global facilities (offices, retail stores, and data centers) as well as our top 200 suppliers by direct spend.
Transition scenarios	IEA SDS	Company-wide	<Not Applicable>	In alignment with the recommendations of the Task Force for Climate-related Financial Disclosure (TCFD), in fiscal year 2020 we conducted a comprehensive climate-related scenario analysis to better understand Apple’s exposure to climate change and the impact of climate change on its operations and supply chain. i) How the selected scenario(s) were identified, with reference to the inputs, assumptions and analytical methods used: To assess transition risks, we leveraged the IEA’s ‘Sustainable Development Scenario’ (SDS) as well as a range of carbon prices from the IPCC’s special report on global warming of 1.5°C. ii) Time horizon and rationale: The analysis incorporated multiple timeframes (short- and mid-term), extending through 2040 to account for the expected lifespan of major facilities. This timeframe also allowed us to capture divergence in the climate models. iii) Areas of your organization considered: The analysis considered transition risks to our global facilities (offices, retail stores, and data centers) as well as our top 200 suppliers by direct spend.

C3.2b

(C3.2b) Provide details of the focal questions your organization seeks to address by using climate-related scenario analysis, and summarize the results with respect to these questions.

Row 1

Focal questions

How can a climate-related scenario analysis add to our understanding of the future of our business including our commitment to 100 percent renewable energy and 2030 carbon neutrality goal?

Results of the climate-related scenario analysis with respect to the focal questions

The results of the scenario analysis contributed to a larger body of internal assessments on the physical and transition impacts of climate change on our business. These assessments inform our environmental strategy and goals, including our use of 100 percent renewable electricity for our own corporate offices (including major campuses like those in Cupertino, CA, Austin, TX, Cork, Ireland), retail stores and Apple’s eight data centers, and our goal to transition our entire supply chain to 100 percent renewable electricity by 2030. For example, the transition scenario modeled potential future carbon pricing and the results highlighted the potential reduced impact on our business due to our commitment to maintain the use of 100 renewable electricity at all of our facilities globally — including data centers, retail stores, and corporate offices. The results of the scenario analysis reinforced our commitment to use 100 percent renewable electricity at our facilities, a milestone we achieved in 2018, as well as our commitment to reduce our comprehensive emissions, including those related to products, by 75 percent compared to 2015. Examples of actions we’ve taken include our public support for the Clean Power Plan in the United States, our goal to transition all of the electricity used to manufacture our hardware products to 100 percent renewable energy, expansion in planning to consider the effects of 200- to 500-year flood events / floodplains (using best available data), and prioritizing water efficiency and mitigation initiatives in areas of high water risk and stress. For example, we’ve prioritized water efficiency and re-use efforts at our new Austin, Texas facility due in part to data from analyses like the scenario analysis, which flagged potential future susceptibility to drought and heatwaves that could impact water availability. Most importantly, the results of the scenario analysis reinforced our commitment to reach carbon neutrality for the entire life cycle of our products by 2030, and to reduce emissions by 75 percent compared to 2015.

C3.3

(C3.3) Describe where and how climate-related risks and opportunities have influenced your strategy.

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	As a global business, we have a responsibility to our customers, employees, shareholders, and the world at large, to take strong, decisive action on climate change. That's why we recently announced our goal to become carbon neutral for our entire footprint—from our supply chain to the use of the products we make—by 2030. This relates directly to our products and services, as these are included in this 10-year goal. Setting this ambitious goal was one of the most substantial strategic decisions we've made to date in our work to address climate change. We believe this goal is consistent with what our customers value and presents a climate-related opportunity to increase customer loyalty and brand value. We've already taken strong actions on climate change with impacts to our products and services. For example, we launched the 13-inch MacBook Air made with 100 percent recycled aluminum in the enclosure, which helped to reduce its carbon footprint by almost half compared to the previous model made without recycled aluminum. In a review of the 13-inch MacBook Air, The Guardian described it as "one of the most sustainable laptops you can buy" and noted that "what makes the MacBook Air stand apart is its use of recycled material, including 100% recycled aluminum in the casing, 100% recycled tin in the solder of its logic board and at least 35% recycled plastic used in multiple components." In addition to changing customer perceptions, jurisdictions seeking to address climate change may implement new or more stringent regulatory schemes aimed at reducing the energy consumed by electronic devices. We have already taken action to move beyond current regulation: every Apple product not only meets, but exceeds ENERGY STAR standards—the strict guidelines set by the U.S. Environmental Protection Agency for energy efficiency. For example, iPad Air (5th generation) consumes 56 percent less energy than the requirement for ENERGY STAR. As a result of improvements in energy efficiency, since 2008, we've reduced the average energy consumed by Apple products by more than 70 percent.
Supply chain and/or value chain	Yes	Our strategy to source component parts, in many cases, through multiple suppliers and facilities, mitigates our exposure to weather events of extended duration or heightened severity. Our management strategy is not limited to managing the physical risks of climate change but extends to preventing them. Among the most substantial decisions we have made are our significant investments to reduce our contribution to climate change through generating or sourcing 100 percent renewable electricity for our own operations (as of January 2018) and our goal to transition our entire supply chain to 100 percent renewable electricity by 2030 through our Supplier Clean Energy Program. The Supplier Clean Energy Program now has almost 16 gigawatts of clean energy commitments, of which nearly two-thirds is already operational. In fiscal year 2021, the 10.3 gigawatts of renewable energy already online in Apple's supply chain generated 18.1 million megawatt-hours of clean energy, avoiding 13.9 million metric tons of carbon emissions - a 62 percent increase over fiscal year 2020. To help support our suppliers' transition to renewable energy, we have integrated policy advocacy into our climate strategy. Suppliers often face regulatory barriers to cost-effective renewable energy options. Clean energy technology offers tremendous benefits to our suppliers, to electricity grids, and to countries. We believe that when policymakers fully value these benefits, clean energy becomes more cost competitive than fossil fuel energy. So, we actively support policies that create cost-effective renewable energy markets, and we work closely with suppliers and other climate-leading companies to engage local, regional, and national governments. This encourages the development of country-specific policies that support scalable renewable energy solutions, with impact far beyond Apple's supply chain.
Investment in R&D	Yes	As part of our goal to become carbon neutral for our comprehensive carbon footprint by 2030, we are investing in research and development to support new technologies like the use of recycled materials in our products, which presents an opportunity to reduce emissions associated with the product lifecycle. In 2019, we issued a USD\$2.2 billion green bond issued to help meet our climate goal. The green bond included 2 tranches, one with a 6-year maturity, the other with a 12-year maturity. These initiatives have represented some of the most significant climate-related strategic decisions informed by climate impacts.
Operations	Yes	Changes in climate have the potential to affect our operations at a potential low level of impact. While there have been some extreme weather events in the past (such as hurricanes Harvey and Irma) that are believed to have been exacerbated by climate change and that impacted our business, they did not have a significant impact. We anticipate our operations may be impacted by climate change on the medium and long-term, both in terms of reputational risks to our business if we do not continue to take strong action against climate change and in terms of physical risks that could cause service disruption to our data centers, offices, or retail stores, and potentially our product supply chain. To address these operational risks, we've built redundancy into our data services by having data centers in California, North Carolina, Oregon, Nevada, and Arizona, and deploying backup power supply sources at critical facilities. Not only are we working to mitigate our risks through expanding geographically, we've also begun planning for larger flooding events than the 100-year flood events / floodplains typically used in planning: we now are considering the effects of 200- to 500-year flood events / floodplains, using best available data.

C3.4

(C3.4) Describe where and how climate-related risks and opportunities have influenced your financial planning.

	Financial planning elements that have been influenced	Description of influence
Row 1	Access to capital	In February 2016, Apple issued a \$1.5 billion green bond and in June 2017 an additional \$1 billion green bond to support capital investments in environmental projects like those that reduce carbon emissions -- such as energy efficiency and renewable energy projects. The \$2.5 billion in aggregate green bond proceeds represents a substantial financial commitment to address climate change, and demonstrates how our business strategy has been influenced by climate change. In fiscal year 2018, we fully allocated the \$2.5 billion of green bond proceeds to a number of environmental projects, including renewable energy and energy efficiency projects. Most recently, in 2019, Apple issued a USD\$2.2 billion green bond issued focused on financing emissions reduction projects that would help meet our 2030 carbon neutrality goal. The green bond included 2 tranches, one with a 6-year maturity, the other with a 12-year maturity.

C3.5

(C3.5) In your organization's financial accounting, do you identify spending/revenue that is aligned with your organization's transition to a 1.5°C world?

No, and we do not plan to in the next two years

C4. Targets and performance

C4.1

(C4.1) Did you have an emissions target that was active in the reporting year?

Absolute target

C4.1a

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Target reference number

Abs 1

Year target was set

2020

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 3

Scope 2 accounting method

Market-based

Scope 3 category(ies)

Category 1: Purchased goods and services

Category 4: Upstream transportation and distribution

Category 6: Business travel

Category 7: Employee commuting

Category 9: Downstream transportation and distribution

Category 11: Use of sold products

Category 12: End-of-life treatment of sold products

Base year

2019

Base year Scope 1 emissions covered by target (metric tons CO2e)

52730

Base year Scope 2 emissions covered by target (metric tons CO2e)

0

Base year Scope 3 emissions covered by target (metric tons CO2e)

24980000

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

25032730

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

Base year Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

100

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2030

Targeted reduction from base year (%)

61.7

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

9587535.59

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

55200

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

2780

Scope 3 emissions in reporting year covered by target (metric tons CO2e)

23130000

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

23187980

% of target achieved relative to base year [auto-calculated]

11.9438444802327

Target status in reporting year

Underway

Is this a science-based target?

Yes, and this target has been approved by the Science Based Targets initiative

Target ambition

1.5°C aligned

Please explain target coverage and identify any exclusions

For years, we have increased energy efficiency and the use of renewable energy, yet we know we have to do more. That's why in 2020, we unveiled our most ambitious plan to date: to achieve carbon neutrality for the entire life cycle of our products by 2030. Our plan to reach neutrality by 2030 centers around our strategy to reduce emissions by 75 percent, relative to our 2015 footprint. This reduction aligns with what current climate science shows is necessary to limit warming to 1.5° Celsius. The Science Based Targets initiative (SBTi) recently validated an emissions reduction target for Apple: 61.7 percent by 2030 relative to our 2019 emissions. This SBTi-approved

target is derived from our current target—to reduce emissions by 75 percent by 2030—only with a 2019 base year, instead of 2015. This target is company-wide, inclusive of scope 1, scope 2, and scope 3 emissions (including the life cycle of our products). Our SBTI target excludes less than three percent of scope 1 and 2 emissions in the base year, including fire suppressants, refrigerant leakage, as well as purchased and/or landlord-provided steam and chilled water, and certain greenhouse gases (HFC, PFC, SF6 and NF3) which do not meet Apple's relevance threshold. In addition, our SBTI target excludes the following scope 3 categories, which collectively are approximately 10% of our base year scope 3 emissions: "2. capital goods" due to limited data availability, which limits our ability to influence these emissions, as well as "fuel and energy related activities" and "waste generated in operations" as these emissions are negligible.

Plan for achieving target, and progress made to the end of the reporting year

Our plan to reach carbon neutrality by 2030 centers around our strategy to reduce emissions by 75 percent, relative to our fiscal year 2015 carbon footprint. Our plan for reaching these goals is comprised of five pillars — the first four are aimed at reducing emissions, whereas the fifth (carbon removal) seeks to remove the remaining 25 percent carbon emissions that are difficult to avoid, like air travel. Pillar #1: Low Carbon Design: We will design products and manufacturing processes to be less carbon-intensive through thoughtful material selection, increased material efficiency, and greater product energy efficiency. Pillar #2: Energy efficiency: We will increase energy efficiency at our facilities and in our supply chain by finding opportunities, such as retrofitting, to reduce energy use. Pillar #3: Renewable electricity: We will maintain our sourcing of 100 percent renewable electricity for our facilities and transition our entire supply chain to 100 percent clean, renewable sources of electricity. Pillar #4: Direct emissions abatement: We will reduce direct greenhouse gas emissions in our facilities and our supply chain through process innovation, emissions abatement, and the use of non-fossil-based low-carbon fuels. Pillar #5: Carbon removal: Working in parallel with our emissions reduction efforts, we will scale up investments in carbon removal projects, prioritizing nature-based solutions that protect and restore ecosystems around the world. As of fiscal year 2021, we've reduced our gross carbon footprint by 40 percent compared to fiscal year 2015, and by nearly 8 percent compared to 2019. This reduction has been variable year over year: in recent years we have seen our footprint level out with the substantial growth of our business. However, we continue to scale the projects underpinning our 2030 carbon neutrality goal, in order to yield further reductions in the medium term.

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

Target reference number

Abs 2

Year target was set

2020

Target coverage

Company-wide

Scope(s)

Scope 1
Scope 2
Scope 3

Scope 2 accounting method

Market-based

Scope 3 category(ies)

Category 1: Purchased goods and services
Category 4: Upstream transportation and distribution
Category 6: Business travel
Category 7: Employee commuting
Category 9: Downstream transportation and distribution
Category 11: Use of sold products
Category 12: End-of-life treatment of sold products

Base year

2015

Base year Scope 1 emissions covered by target (metric tons CO2e)

28100

Base year Scope 2 emissions covered by target (metric tons CO2e)

42460

Base year Scope 3 emissions covered by target (metric tons CO2e)

38312910

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

38383470

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

Base year Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

100

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2030

Targeted reduction from base year (%)

75

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

9595867.5

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

55200

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

2780

Scope 3 emissions in reporting year covered by target (metric tons CO2e)

23130000

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

23187980

% of target achieved relative to base year [auto-calculated]

52.7848402797697

Target status in reporting year

Underway

Is this a science-based target?

Yes, we consider this a science-based target, and the target is currently being reviewed by the Science Based Targets initiative

Target ambition

1.5°C aligned

Please explain target coverage and identify any exclusions

As of April 2020, we are carbon neutral for scope 1, 2, and scope 3 emissions relating to Apple's corporate operations (employee commute and business travel) beginning in fiscal year 2021. In 2020, we also set a new goal to become carbon neutral for our entire carbon footprint by 2030. We plan to reduce emissions by 75 percent by 2030, compared to 2015 levels, through product design and engineering, energy efficiency and renewable energy, and direct emissions abatement. A science-based target aligned with 1.5° C trajectory calls for a 4.2% annual linear reduction. Since this equates to a 47% reduction over our target period, we consider our target to well-exceed the requirements for a science-based target. The Science Based Targets initiative (SBTi) recently validated an emissions reduction target for Apple: 61.7 percent by 2030 relative to our 2019 emissions. This SBTi-approved target is derived from our current target—to reduce emissions by 75 percent by 2030—only with a 2019 base year, instead of 2015. This target is company-wide, inclusive of scope 1, scope 2, and scope 3 emissions (including the life cycle of our products). Our SBTi target excludes less than three percent of scope 1 and 2 emissions in the base year, including fire suppressants, refrigerant leakage, as well as purchased and/or landlord-provided steam and chilled water, and certain greenhouse gases (HFC, PFC, SF6 and NF3) which do not meet Apple's relevance threshold. In addition, our SBTi target excludes the following scope 3 categories, which collectively are approximately 10% of our base year scope 3 emissions: "2. capital goods" due to limited data availability, which limits our ability to influence these emissions, as well as "fuel and energy related activities" and "waste generated in operations" as these emissions are negligible.

Plan for achieving target, and progress made to the end of the reporting year

Our plan to reach carbon neutrality by 2030 centers around our strategy to reduce emissions by 75 percent, relative to our fiscal year 2015 carbon footprint. Our plan for reaching these goals is comprised of five pillars — the first four are aimed at reducing emissions, whereas the fifth (carbon removal) seeks to remove the remaining 25 percent carbon emissions. Pillar #1: Low Carbon Design: We will design products and manufacturing processes to be less carbon-intensive through thoughtful material selection, increased material efficiency, and greater product energy efficiency. Pillar #2: Energy efficiency: We will increase energy efficiency at our facilities and in our supply chain by finding opportunities, such as retrofitting, to reduce energy use. Pillar #3: Renewable electricity: We will maintain our sourcing of 100 percent renewable electricity for our facilities and transition our entire supply chain to 100 percent clean, renewable sources of electricity. Pillar #4: Direct emissions abatement: We will reduce direct greenhouse gas emissions in our facilities and our supply chain through process innovation, emissions abatement, and the use of non-fossil-based low-carbon fuels. Pillar #5: Carbon removal: Working in parallel with our emissions reduction efforts, we will scale up investments in carbon removal projects, including nature-based solutions that protect and restore ecosystems around the world. As of fiscal year 2021, we've reduced our gross carbon footprint by 40 percent compared to fiscal year 2015, and by nearly 8 percent compared to 2019. This reduction has been variable year over year: in recent years we have seen our footprint level out with the substantial growth of our business. However, we continue to scale the projects underpinning our 2030 carbon neutrality goal, in order to yield further reductions in the medium term.

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year?

Target(s) to increase low-carbon energy consumption or production

C4.2a

(C4.2a) Provide details of your target(s) to increase low-carbon energy consumption or production.

Target reference number

Low 1

Year target was set

2011

Target coverage

Company-wide

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Base year

2011

Consumption or production of selected energy carrier in base year (MWh)

154273

% share of low-carbon or renewable energy in base year

24

Target year

2021

% share of low-carbon or renewable energy in target year

100

% share of low-carbon or renewable energy in reporting year

100

% of target achieved relative to base year [auto-calculated]

100

Target status in reporting year

Achieved

Is this target part of an emissions target?

Abs 1

Is this target part of an overarching initiative?

RE100

Science Based Targets initiative

Please explain target coverage and identify any exclusions

Our target is a company-wide target. We set an ambitious goal to power 100% of our global facilities with 100% renewable energy. We reached this goal in 2018 and have since maintained it. We have additionally committed through the Science Based Targets initiatives to maintain our use of 100 percent renewable electricity for our facilities through 2030.

Plan for achieving target, and progress made to the end of the reporting year

<Not Applicable>

List the actions which contributed most to achieving this target

Apple-created renewable electricity projects largely contributed to achieving the sourcing of 100 percent renewable electricity for our facilities, including data centers, offices, and Apple Stores. In total, Apple-created renewable sources account for over 90 percent of the renewable electricity our facilities use — around 1.5 gigawatts currently in use. To cover any gaps in our renewable energy needs beyond what's provided by Apple-created projects (about 4.5 percent of our total corporate load in fiscal year 2021), we directly purchase renewable electricity through available utility green energy programs. Colocation facility vendors also supply about 3.5 percent of our total load of renewable energy. And in certain situations, we purchase RECs — for example, when we need to cover usage over the short term, before a renewable energy project comes online or when there's a lack of availability of renewable energy projects in-region. These RECs, which account for about 2 percent of our total load, must be tied to recently constructed projects and be Green-e Energy certified, where available. These purchases are subject to the same standards as our Apple-created renewables. Appendix C of Apple's 2022 Environmental Progress Report provides additional details on Apple's renewable energy solutions.

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Yes

C4.3a

(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	9	0
To be implemented*	7	15260000
Implementation commenced*	2	410000
Implemented*	8	23796100
Not to be implemented	0	0

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

Initiative category & Initiative type

Energy efficiency in buildings	Other, please specify (HVAC optimization, efficient lighting and controls, building envelope and glazing, building controls, energy modeling, and energy audits)
--------------------------------	--

Estimated annual CO2e savings (metric tonnes CO2e)

6100

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

2100000

Investment required (unit currency – as specified in C0.4)

8400000

Payback period

4-10 years

Estimated lifetime of the initiative

11-15 years

Comment

Apple's energy efficiency program targets natural gas and electricity use at data centers, retail stores, offices, and R&D facilities located around the world. Initiatives address primarily Scope 2 emissions, but some Scope 1 emissions to a lesser extent as well. For existing buildings, we take a methodical approach, auditing building performance, and then deploying identified energy reduction measures. For new buildings and substantial renovations, we integrate energy efficiency early in the design process when developing new offices or Apple stores, facilitating design that accommodates local conditions, such as temperature and humidity. And once a building is operational, we continue to monitor energy performance to ensure it is performing optimally throughout its lifetime. In fiscal year 2021, new energy efficiency initiatives reduced total energy use by 7 percent in targeted buildings and we expect it will help us avoid an additional 6,100 metric tons of CO2e per year. Combined with ongoing energy savings from past years, we are now cumulatively saving over 60,000 metric tons of CO2e in fiscal year 2021.

Initiative category & Initiative type

Other, please specify	Other, please specify (Use of Renewable Electricity - Wind, Solar, Green utility and REC purchases)
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Estimated annual CO2e savings (metric tonnes CO2e)

1060000

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

facilities renewable energy projects: we've undertaken a number of renewable energy projects to maintain our 100% renewable energy goal for our corporate facilities, including offices, retail stores, and data centers. These projects include solar PV or wind projects worldwide. In addition, Apple signed up for green utility programs for some of our meters to receive 100% renewables from utility suppliers. Apple also made unbundled Renewable Energy Certificate purchases in various markets to ensure we meet our renewable goals. The above initiatives primarily address Apple's scope 2 emissions. Apple participates in renewable projects in many ways, PPA, VPPA, and long term environmental attributes off-take. Through Apple's participation, we aim to provide a stable cashflow to the projects, therefore, helping the projects to secure long term financing, which will support adding new renewable energy to the grid. These renewable energy projects are not structured as capital expenditures and therefore do not

represent investments. Rather, they are structured as operational expenses. Overall savings from use of renewable electricity in fiscal year 2021 were 1,060,000 metric tons of CO2e.

Initiative category & Initiative type

Waste reduction and material circularity	Other, please specify (use of recycled and low carbon materials)
--	--

Estimated annual CO2e savings (metric tonnes CO2e)

7300000

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 3 category 1: Purchased goods & services

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

By transitioning to materials that use low carbon energy and recycled content, we can reduce our carbon footprint. We've prioritized select materials and components that make up large part of our carbon footprint to move us closer to our goal of product carbon neutrality. We've seen clear progress with aluminum, which in 2015 represented over a quarter of our product manufacturing footprint. We've continued to expand our use of 100 percent recycled aluminum in the enclosures of a number of products: All iPad models in our lineup now use 100 percent recycled aluminum in their enclosures — joining Apple Watch Series 7, Apple Watch SE, MacBook Air, Mac mini, and the 14-inch and 16-inch MacBook Pro devices. For products released in 2021 that had enclosures made with primary aluminum, we prioritized the use of aluminum smelted using low-carbon sources of electricity rather than fossil fuels — for a lower carbon impact. These changes alone have decreased the carbon emissions associated with our use of aluminum by 68 percent since 2015. In fiscal year 2021, these changes to low carbon and recycled materials in our products resulted in 7,300,000 metric tons of avoided CO2e.

Initiative category & Initiative type

Energy efficiency in production processes	Other, please specify (HVAC optimization, efficient lighting and controls, repairing compressed air leaks, building controls, energy modeling, and energy audits)
---	---

Estimated annual CO2e savings (metric tonnes CO2e)

1150000

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 3 category 1: Purchased goods & services

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

We launched our Supplier Energy Efficiency Program in 2015 with the goal of helping suppliers optimize their facilities and operations to use as little energy as possible. Finding energy efficiencies reduces the energy intensity of manufacturing, which translates to reduced direct carbon emissions. We provide guidance designed to help suppliers uncover opportunities for energy efficiency. We also assist them with assessments and technical support where appropriate. Typical projects may include replacing outdated or inefficient heating, cooling, and lighting systems; repairing compressed air leaks; and recovering waste heat. Working with our suppliers to reduce their energy consumption, we avoided more than 1.15 million metric tons of carbon from manufacturing Apple products in fiscal year 2021. In that same year, more than 100 supplier facilities participated in our Supplier Energy Efficiency Program, actively tracking and reporting on more than 2000 projects — a 39 percent increase since the prior year.

Initiative category & Initiative type

Low-carbon energy consumption	Other, please specify (Solar PV, Solar CSP, Wind, Hydropower, Biomass)
-------------------------------	--

Estimated annual CO2e savings (metric tonnes CO2e)

13900000

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 3 category 1: Purchased goods & services

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

We launched the Supplier Clean Energy Program in 2015 to advance the use of clean energy in our supply chain. Through this program, Apple works with suppliers to advocate for policy change in key markets, connects them with high-quality clean energy projects and developers, and educates them on how they can take full advantage of the benefits of clean energy. As of April 2022, 213 manufacturing partners in 25 countries have committed to 100 percent renewable energy for Apple production. Apple itself has invested directly in renewable energy projects to cover a portion of upstream emissions. In addition, Apple launched the China Clean Energy Fund, a first-of-its-kind investment fund in China that connects suppliers with renewable energy projects. The Supplier Clean Energy Program now has brought online 10.3 GW of renewable energy to our supply chain, which generated 18.1 million megawatt-hours of clean energy in fiscal year 2021, avoiding 13.9 million metric tons of carbon emissions — a 62 percent increase over fiscal year 2020. Because supplier investments and potential savings are unknown, we are unable to estimate the total investments and savings associated with the clean energy program.

Initiative category & Initiative type

Other, please specify	Other, please specify (Product Energy Efficiency)
-----------------------	---

Estimated annual CO2e savings (metric tonnes CO2e)

200000

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 3 category 11: Use of sold products

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

Designing energy-efficient products even as we continually enhance performance represents another essential pillar of our approach to carbon neutrality. While this is a continual effort with each new generation of products, since 2008, we've reduced average product energy use by over 70 percent. These projects are operating expenditures, not capital expenditures, so they do not require a capital investment. They also do not generate monetary savings for Apple and therefore the payback period does not apply.

Initiative category & Initiative type

Transportation	Other, please specify (Load Reduction and Mode Switching)
----------------	---

Estimated annual CO2e savings (metric tonnes CO2e)

180000

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 3 category 4: Upstream transportation & distribution

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

Each year, we ship hundreds of millions of products from our manufacturers to our consumers. We're shifting whenever possible toward less carbon-intensive shipping modes, such as rail and ocean. And we're seeking out technical innovations, including alternative fuels and electric vehicles. In fiscal year 2021, Apple avoided 180,000 metric tons of CO2e by shifting the mode of transport and reducing product weight through the removal of the power adapter from iPhone device packaging. No capital investment was required to make these changes.

C4.3c

(C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Compliance with regulatory requirements/standards	We always use the state's standards for determining eligibility of renewable resources; abide by Green-e requirements.
Dedicated budget for low-carbon product R&D	Research and Development for new materials and processes with lower carbon emissions.
Internal incentives/recognition programs	In the form of Company-wide publicly-stated goals, internal targets, and annual reporting.
Lower return on investment (ROI) specification	ROI is not the only criteria for selecting emissions reduction investments.
Other (Calculation of a comprehensive carbon footprint)	We calculate a comprehensive carbon footprint using product life cycle analyses, which enables us to prioritize investments.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products.

Level of aggregation

Group of products or services

Taxonomy used to classify product(s) or service(s) as low-carbon

Green Bond Principles (ICMA)

Type of product(s) or service(s)

Other	Other, please specify (Electronics Hardware)
-------	--

Description of product(s) or service(s)

Apple has committed to transitioning all of the materials in Apple products to recycled or renewable content. We included recycled content in all iPhone devices shipped in fiscal year 2021. Under the Green Bond Principles, this category of projects would fall under "pollution prevention and control", as they seek to minimize resource use and reduce emissions.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Yes

Methodology used to calculate avoided emissions

Other, please specify (ISO14040/14044: Environmental management –Life cycle assessment –Principles and framework/Requirements and guidelines; ISO 14064-3: Greenhouse gases –Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions)

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Cradle-to-grave

Functional unit used

We calculated product life cycle emissions for all iPad and iPhone devices sold in fiscal year 2021, accounting for the use of recycled content and low carbon aluminum (which is smelted using renewable electricity). The same assumptions are used for each stage of the product life cycle.

Reference product/service or baseline scenario used

We estimated product-related emissions for all iPhone devices sold in the current reporting year (fiscal year 2021), without the carbon savings from use of recycled content or low carbon aluminum. The same assumptions are used for each stage of the product life cycle for the functional units as for the reference units.

Life cycle stage(s) covered for the reference product/service or baseline scenario

Cradle-to-grave

Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario

1100000

Explain your calculation of avoided emissions, including any assumptions

We calculated carbon emissions savings from transitioning to recycled materials or use of low-carbon aluminum in iPad and iPhone, for those products that sold in fiscal year 2021.

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

52

C5. Emissions methodology

C5.1

(C5.1) Is this your first year of reporting emissions data to CDP?

No

C5.1a

(C5.1a) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

Row 1

Has there been a structural change?

No

Name of organization(s) acquired, divested from, or merged with

<Not Applicable>

Details of structural change(s), including completion dates

<Not Applicable>

C5.1b

(C5.1b) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

	Change(s) in methodology, boundary, and/or reporting year definition?	Details of methodology, boundary, and/or reporting year definition change(s)
Row 1	Yes, a change in methodology	Beginning in FY2021, we're accounting for scope 2 emissions from the purchase of district heating, chilled water, and steam.

C5.1c

(C5.1c) Have your organization's base year emissions been recalculated as result of the changes or errors reported in C5.1a and C5.1b?

	Base year recalculation	Base year emissions recalculation policy, including significance threshold
Row 1	No, because the impact does not meet our significance threshold	FY2021 emissions from this change of methodology was less than 3,000 metric tons, or less than 0.02% of our net carbon emissions, which is below our significance threshold. Base year emissions would have been less as our operations were smaller.

C5.2

(C5.2) Provide your base year and base year emissions.

Scope 1

Base year start

October 26 2010

Base year end

October 25 2011

Base year emissions (metric tons CO2e)

21700

Comment

Scope 2 (location-based)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 2 (market-based)

Base year start

October 26 2010

Base year end

October 25 2011

Base year emissions (metric tons CO2e)

154300

Comment

Scope 3 category 1: Purchased goods and services

Base year start

September 28 2014

Base year end

September 27 2015

Base year emissions (metric tons CO2e)

29600000

Comment

Scope 3 category 2: Capital goods

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 4: Upstream transportation and distribution

Base year start

September 28 2014

Base year end

September 27 2015

Base year emissions (metric tons CO2e)

370000

Comment

Scope 3 category 5: Waste generated in operations

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 6: Business travel

Base year start

September 28 2014

Base year end

September 27 2015

Base year emissions (metric tons CO2e)

139900

Comment

Scope 3 category 7: Employee commuting

Base year start

September 28 2014

Base year end

September 27 2015

Base year emissions (metric tons CO2e)

173000

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

September 28 2014

Base year end

September 27 2015

Base year emissions (metric tons CO2e)

880000

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

September 28 2014

Base year end

September 27 2015

Base year emissions (metric tons CO2e)

657000

Comment

Scope 3 category 12: End of life treatment of sold products

Base year start

September 28 2014

Base year end

September 27 2015

Base year emissions (metric tons CO2e)

500000

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

(C5.3) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
US EPA Center for Corporate Climate Leadership: Direct Emissions from Stationary Combustion Sources
US EPA Center for Corporate Climate Leadership: Direct Emissions from Mobile Combustion Sources

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Reporting year

Gross global Scope 1 emissions (metric tons CO2e)

55200

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.2

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

We are reporting a Scope 2, market-based figure

Comment

We believe our market-based Scope 2 emissions figure most accurately represents our emissions profile since generating and sourcing renewable energy is a key aspect of our environmental strategy.

C6.3

(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

Reporting year

Scope 2, location-based

1003246

Scope 2, market-based (if applicable)

2780

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

Yes

C6.4a

(C6.4a) Provide details of the sources of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure.

Source

Fire suppressant

Relevance of Scope 1 emissions from this source

Emissions are not relevant

Relevance of location-based Scope 2 emissions from this source

No emissions excluded

Relevance of market-based Scope 2 emissions from this source (if applicable)

No emissions excluded

Explain why this source is excluded

We have not included fire suppressant systems or refrigerant leakage in our Scope 1 emissions as it accounts for far less than 1 percent of our total CO2e emissions. Nevertheless, reducing emissions from these systems is of importance to us and we are deploying technologies and operational practices to reduce refrigerant leakage through improved maintenance and equipment replacement, combined with a program using refrigerants with low global warming potential.

Estimated percentage of total Scope 1+2 emissions this excluded source represents

0

Explain how you estimated the percentage of emissions this excluded source represents

No emissions excluded

Source

Fertilizer use

Relevance of Scope 1 emissions from this source

Emissions are not relevant

Relevance of location-based Scope 2 emissions from this source

No emissions excluded

Relevance of market-based Scope 2 emissions from this source (if applicable)

No emissions excluded

Explain why this source is excluded

We have not included fertilizer use from landscape applications in our Scope 1 emissions as it accounts for far less than 1 percent of our total CO2e emissions. Our landscape practices focus on composting our green waste trimmings collected onsite and reusing them as mulch, supplemented only as needed with additional organic fertilizers and a limited amount of slow-release fertilizer products. Apple also employs a robust integrated pest management system, which reduces the need for fertilizer application.

Estimated percentage of total Scope 1+2 emissions this excluded source represents

0

Explain how you estimated the percentage of emissions this excluded source represents

No emissions excluded

C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

16200000

Emissions calculation methodology

Other, please specify (LCA (ISO 14040 and ISO 14044))

Percentage of emissions calculated using data obtained from suppliers or value chain partners

50

Please explain

We compile primary data for components or materials we know to be carbon-intensive, regardless of their position in our value chain. Each year, we make adjustments in our model to better account for Apple's specific value chain. Approximately 50 percent of our manufacturing emissions are calculated using primary data. We focus our attention on aspects of the product life cycle where our choices can have a material impact on emissions reduction, and use our LCAs to prioritize our work. We purchase third-party computing services, which we approximate to be less than 1 percent of total emissions from purchased goods and services.

Capital goods

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

The Greenhouse Gas Protocol Scope 3 Standard cites "influence" as one of the criteria for identifying relevant scope 3 emissions. It defines this criteria as "There are potential emissions reductions that could be undertaken or influenced by the company." The Scope 3 Standard also clearly states that the objective of calculating scope 3 emissions is to "help companies understand their full value chain emissions impact in order to focus company efforts on the greatest GHG reduction opportunities, leading to more sustainable decisions about companies' activities and the products they buy, sell, and produce." We have assessed capital goods emissions and concluded this scope 3 category is not relevant to Apple because data availability is limited, which in turn limits our ability to influence this category of emissions. To calculate emissions from capital goods, the only methodology available to us, based on data availability, are the Economic Input-Output (EIO) LCA models, used on conjunction with Apple's capital expenditures. This method relies upon emissions factors for each broad category of capital expenditures. While it provides an overall magnitude of CO2e emissions associated with capital goods, it is not specific enough to "focus company efforts." Indeed, the only "action" we could take as a result of calculating capital goods using an EIO LCA model would be to "spend less", which is not a meaningful greenhouse gas reduction strategy. During our recent engagement with SBTi to validate our science-based target, we received confirmation that this rationale for excluding this category of scope 3 emissions was acceptable.

Fuel-and-energy-related activities (not included in Scope 1 or 2)

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Upstream emissions of purchased fuels and electricity, as well as transmission and distribution losses, do not result in material Scope 3 emissions. We calculated this figure in a previous CDP submission (covering fiscal year 2013), and found that it represented less than 0.1 percent of our Scope 3 carbon footprint. This amount has not increased substantively and therefore is still not relevant.

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

580000

Emissions calculation methodology

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

80

Please explain

We use actual data provided from worldwide logistics, though some assumptions are still made regarding average trip distances. From the data we collect for product logistics, we are not able to entirely align with the "post-sale" and "pre-sale" delimitations of this upstream/downstream transportation emissions calculation. As a result, this upstream figure incorporates a small portion of downstream transportation emissions associated with products that have been sold and shipped directly from a final assembly site or to third party retail stores (which technically occurs post sale to these third-party stores). However, the net total for downstream and upstream transportation and distribution emissions account for all emissions in the product transportation category.

Waste generated in operations

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Waste generated does not result in material Scope 3 emissions. We calculated this figure in our CDP submission covering fiscal year 2013, and it represented less than 0.1 percent of our corporate carbon footprint. This amount has not increased substantively and therefore is still not relevant. That said, reducing waste and use of materials is a central element of our environmental strategy. We've created robust recycling and composting programs to minimize the environmental impact of the waste we produce in our corporate facilities: (i) This work begins by first understanding what we throw away. In some cases, we've installed remote waste monitoring systems to accurately measure waste generation and contamination.(ii) We prevent waste by closely managing what comes to our sites. For example, we've amended construction contracts to include waste reporting and diversion requirements. (iii)We've also worked on enhancing how we recycle and reuse materials. In fiscal year 2020, Apple facilities diverted more than 70 percent of our waste to recycling or composting rather than landfill. These high diversion rates helped limit the amount of waste sent to landfill to about 12,000 metric tons for our global operations. We also support our suppliers in the journey to zero waste. All established final assembly supplier sites for iPhone, iPad, Mac, Apple Watch, AirPods, HomePod, Apple TV, and Beats are third-party certified as Zero Waste. Altogether, suppliers involved in our Zero Waste program diverted 400,000 metric tonnes of waste in 2020.

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

22850

Emissions calculation methodology

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

90

Please explain

Emissions from employee travel are calculated using trip distance data obtained from our travel partner that manages all travel for Apple employees. We consider the data we obtain from our travel partner to be real data that provides roughly 90 percent of the calculation. However, we do not use carrier-specific fuel consumption data (which we would also interpret as primary data).

Employee commuting

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

85570

Emissions calculation methodology

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

We do not ask employees to report commute mileage directly, nor do we track fuel receipts. We do use employee demographic data (e.g., zip codes) and survey results of commute habits to estimate the average commute distance and to distribute the commuters among single-occupancy cars, car pools, bicycles, transit, Apple Transit, work-from-home, and other commute modes.

Upstream leased assets

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Any upstream leased asset is included in our Scope 1 and Scope 2 emissions. So 100 percent of the emissions from our leased assets are captured in Scope 1 and 2, leaving 0 emissions relevant to our Scope 3 calculations.

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

1170000

Emissions calculation methodology

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

50

Please explain

We use actual data provided from our Worldwide Logistics team, though some assumptions are still made regarding average trip distances. Due to differences in how we collect data for product logistics, we are not able to perfectly align with the "post-sale" and "pre-sale" delimitations of this upstream/downstream transportation emissions calculation. As a result, this downstream figure incorporates a small portion of upstream transportation emissions associated with products that travel from our final assembly sites to our own retail stores (therefore are not yet technically post-sale). However, the net total for downstream and upstream transportation and distribution emissions account for all emissions in the product transportation category. Transportation emissions associated with customer travel from their homes to Apple retail stores are not material to this calculation for two reasons: 1) This number is very small compared to the total downstream transportation and distribution emissions. 2) Many of our stores are located in dense urban environments and often accessible by public transportation.

Processing of sold products

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Not applicable as Apple does not produce intermediate goods, so we do not have activities that fall into this category.

Use of sold products

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

4990000

Emissions calculation methodology

Methodology for direct use phase emissions, please specify (Use phase emissions are calculated based on product energy consumption over a 3-4 yr use period. Energy consumption is modeled using European Commission and U.S. EPA computer eco-design studies reflecting aggressive daily product use assumptions.)

Percentage of emissions calculated using data obtained from suppliers or value chain partners

80

Please explain

We use detailed primary data regarding the quantity of energy our products consume when in certain operational modes. Daily usage patterns are specific to each product and are based on historical customer use data.

End of life treatment of sold products

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

80000

Emissions calculation methodology

Fuel-based method

Other, please specify (Include energy used in mechanical separation and shredding of parts. We generally use industry-average data regarding recycling processes to evaluate the impact of end-of-life treatment of sold products, except when Apple-specific processes are used.)

Percentage of emissions calculated using data obtained from suppliers or value chain partners

50

Please explain

We use industry-average data regarding recycling processes to evaluate the impact of end-of-life treatment of sold products. When Apple-specific processes are used, for example, Apple's automated disassembly robot Daisy, primary measured data from that equipment is used.

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Downstream leased assets (such as Apple-operated product recycling facilities) are included in our Scope 1 and Scope 2 emissions; so there are no emissions in this category that fall under our Scope 3 emissions.

Franchises

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Not applicable as we don't own or sell franchises; so we have 0 emissions from this Scope 3 category.

Investments

Evaluation status

Not relevant, explanation provided

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

As per our form 10-K filing with the U.S. Securities and Exchange Commission, "the Company's investment policy and strategy are focused on the preservation of capital and supporting the Company's liquidity requirements." As a result, investments and their interest income are not a significant revenue stream for Apple and are not considered core to our business. Therefore, emissions from this category do not reach our threshold for relevance to our business.

Other (upstream)

Evaluation status

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Other (downstream)

Evaluation status

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

C6.7

(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

No

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Intensity figure

1.58e-7

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

57980

Metric denominator

unit total revenue

Metric denominator: Unit total

365817000000

Scope 2 figure used

Market-based

% change from previous year

8

Direction of change

Decreased

Reason for change

We estimate that gross global combined effective Scope 1 and Scope 2 emissions intensity per unit total revenue decreased by 8 percent from fiscal years 2020 to 2021, though it's key to note that both years' intensity metrics were extremely small. Apple's global Scope 1 and 2 emissions increased from 47,430 in fiscal year 2020 to 57,980 in fiscal year 2021; however, due to emissions reductions activities outlined in 4.3b these emissions did not grow as significantly as our revenue. Apple's revenue is so much greater than our Scope 1 and 2 emissions as to render both years' intensity factors essentially zero. Emissions reduction activities during the fiscal year include low-carbon energy purchase, installation, and consumption, renewable energy use, and building energy efficiency initiatives (see 4.3b).

Intensity figure

0.38

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

57980

Metric denominator

full time equivalent (FTE) employee

Metric denominator: Unit total

154000

Scope 2 figure used

Market-based

% change from previous year

17

Direction of change

Increased

Reason for change

We estimate that gross global combined Scope 1 and Scope 2 emissions intensity per full time equivalent (FTE) employee increased by 17% percent primarily due to an increase in Apple's in Scope 1 and 2 emissions. Emissions increases were due to scope 1 and scope 2 emissions increases from boundary changes and increased output as described in C7.9. For fiscal year 2020, we had an average annual FTE count of 147,000 and a combined Scope 1 and Scope 2 emissions of 47,430 metric tons CO2e. For fiscal year 2021, we had an average annual FTE count of 154,000 and a combined Scope 1 and Scope 2 emissions of 57,980 metric tons CO2e for an intensity figure of 0.38 metric tons CO2e per FTE.

Intensity figure

0.2

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

57980

Metric denominator

megawatt hour transmitted (MWh)

Metric denominator: Unit total

2854000

Scope 2 figure used

Market-based

% change from previous year

11

Direction of change

Increased

Reason for change

We estimate that gross global combined Scope 1 and Scope 2 emissions intensity per megawatt hour (MWh) increased by 11 percent between fiscal years 2020 and 2021 due to an increase in Apple's electricity consumption and a increase in Scope 1 and 2 emissions due to emissions increases from boundary changes and increased output as described in C7.9. For fiscal year 2020, we used approximately 2,580,000 MWh of electricity and had combined Scope 1 and Scope 2 emissions of 47,430 metric tons CO2e. For fiscal year 2021, we used approximately 2,854,000 MWh of electricity and had combined Scope 1 and Scope 2 emissions of 57,980 metric tons CO2e for an intensity figure of 0.02 metric tons CO2e per MWh.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Yes

C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	51453	IPCC Fifth Assessment Report (AR5 – 100 year)
CH4	54	IPCC Fifth Assessment Report (AR5 – 100 year)
N2O	85	IPCC Fifth Assessment Report (AR5 – 100 year)
Other, please specify	3544	IPCC Fifth Assessment Report (AR5 – 100 year)

C7.2

(C7.2) Break down your total gross global Scope 1 emissions by country/region.

Country/Region	Scope 1 emissions (metric tons CO2e)
United States of America	44029
Other, please specify (All countries not including the US)	11171

C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

By business division

C7.3a

(C7.3a) Break down your total gross global Scope 1 emissions by business division.

Business division	Scope 1 emissions (metric ton CO2e)
Corporate	48664
Data Centers	3140
Retail Stores	3396

C7.5

(C7.5) Break down your total gross global Scope 2 emissions by country/region.

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
United States of America		0
Other, please specify (Americas except for the US)		0
Other, please specify (Europe, Middle East, India, Africa)		380
Other, please specify (Asia Pacific)		2403

C7.6

(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.

By business division

C7.6a

(C7.6a) Break down your total gross global Scope 2 emissions by business division.

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Corporate Facilities		2780
Data centers		0
Retail Stores		0
Distribution Centers		0
Co-located data centers		0

C7.9

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Increased

C7.9a

(C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	52000	Decreased	110	In the reporting year, additional consumption of renewable energy reduced emissions by approximately 52,000 metric tons CO2e, and our total Scope 1 and Scope 2 emissions in the previous year were 47,430 tCO2e, therefore we arrived at -110%: $(-52,000/47,430)*100 = -110\%$
Other emissions reduction activities	4401	Decreased	9	Last year, new emissions reductions activities—energy efficiency gains—reduced 4401 metric tons CO2e, and our total Scope 1 and Scope 2 emissions in the previous year were 47,430 tCO2e, therefore we arrived at -9%: $(-4401/47,430)*100 = -9\%$
Divestment		<Not Applicable >		
Acquisitions		<Not Applicable >		
Mergers		<Not Applicable >		
Change in output	64171	Increased	135	In the reporting year, our increase in energy consumption due to a change in output had an additional 64,171 tonnes of associated emissions, and our total S1 and S2 emissions in the previous year was 47,430 tCO2e, therefore we arrived at an increase of 135%: $(64,171/47,430)*100 = 135\%$
Change in methodology		<Not Applicable >		
Change in boundary	2780	Increased	6	In the reporting year, a change in our boundary led us to account for 2,780 MT of additional emissions. Our total S1 and S2 emissions in the previous year was 47,430 tCO2e, therefore this represented a change in emission of 6%: $(2780/47,430)*100 = 6\%$
Change in physical operating conditions		<Not Applicable >		
Unidentified		<Not Applicable >		
Other		<Not Applicable >		

C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Market-based

C8. Energy

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy?

More than 0% but less than or equal to 5%

C8.2

(C8.2) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	Yes
Consumption of purchased or acquired steam	Yes
Consumption of purchased or acquired cooling	Yes
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	LHV (lower heating value)	208620	258660	467280
Consumption of purchased or acquired electricity	<Not Applicable>	1091272	0	1091272
Consumption of purchased or acquired heat	<Not Applicable>	0	730	730
Consumption of purchased or acquired steam	<Not Applicable>	0	0	0
Consumption of purchased or acquired cooling	<Not Applicable>	10194	11558	21752
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	1690223	<Not Applicable>	1690223
Total energy consumption	<Not Applicable>	3000309	270948	3271257

C8.2b

(C8.2b) Select the applications of your organization's consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Yes
Consumption of fuel for the generation of heat	Yes
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

C8.2c

(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Sustainable biomass

Heating value

LHV

Total fuel MWh consumed by the organization

208620

MWh fuel consumed for self-generation of electricity

208620

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Other biomass

Heating value

Please select

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Zeros added for non-activity.

Other renewable fuels (e.g. renewable hydrogen)

Heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Zeros added for non-activity.

Coal

Heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Zeros added for non-activity.

Oil

Heating value

LHV

Total fuel MWh consumed by the organization

55570

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

40

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Gas

Heating value

LHV

Total fuel MWh consumed by the organization

203010

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

203010

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Other non-renewable fuels (e.g. non-renewable hydrogen)

Heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Zeros added for non-activity.

Total fuel**Heating value**

LHV

Total fuel MWh consumed by the organization

467200

MWh fuel consumed for self-generation of electricity

208620

MWh fuel consumed for self-generation of heat

203050

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment**C8.2d****(C8.2d) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.**

	Total Gross generation (MWh)	Generation that is consumed by the organization (MWh)	Gross generation from renewable sources (MWh)	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	1690223	1690223	1690223	1690223
Heat	203050	203050	0	0
Steam	0	0	0	0
Cooling	0	0	0	0

C8.2g**(C8.2g) Provide a breakdown of your non-fuel energy consumption by country.****Country/area**

Brazil

Consumption of electricity (MWh)

1803

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1803

Is this consumption excluded from your RE100 commitment?

No

Country/area

Canada

Consumption of electricity (MWh)

13422

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

13422

Is this consumption excluded from your RE100 commitment?

No

Country/area

Chile

Consumption of electricity (MWh)

96

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

96

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

Colombia

Consumption of electricity (MWh)

180

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

180

Is this consumption excluded from your RE100 commitment?

No

Country/area

Mexico

Consumption of electricity (MWh)

1086

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1086

Is this consumption excluded from your RE100 commitment?

No

Country/area

United States of America

Consumption of electricity (MWh)

2312124

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

2312124

Is this consumption excluded from your RE100 commitment?

No

Country/area

Austria

Consumption of electricity (MWh)

1268

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1268

Is this consumption excluded from your RE100 commitment?

No

Country/area

Belgium

Consumption of electricity (MWh)

616

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

616

Is this consumption excluded from your RE100 commitment?

No

Country/area

Czechia

Consumption of electricity (MWh)

3324

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

3324

Is this consumption excluded from your RE100 commitment?

No

Country/area

Denmark

Consumption of electricity (MWh)

16798

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

16798

Is this consumption excluded from your RE100 commitment?

No

Country/area

Egypt

Consumption of electricity (MWh)

1

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

Finland

Consumption of electricity (MWh)

92

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

92

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

France

Consumption of electricity (MWh)

9312

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

9312

Is this consumption excluded from your RE100 commitment?

No

Country/area

Germany

Consumption of electricity (MWh)

32748

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

32748

Is this consumption excluded from your RE100 commitment?

No

Country/area

Hungary

Consumption of electricity (MWh)

165

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

165

Is this consumption excluded from your RE100 commitment?

No

Country/area

India

Consumption of electricity (MWh)

9730

Consumption of heat, steam, and cooling (MWh)

2024

Total non-fuel energy consumption (MWh) [Auto-calculated]

11754

Is this consumption excluded from your RE100 commitment?

No

Country/area

Ireland

Consumption of electricity (MWh)

15016

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

15016

Is this consumption excluded from your RE100 commitment?

No

Country/area

Israel

Consumption of electricity (MWh)

24695

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

24695

Is this consumption excluded from your RE100 commitment?

No

Country/area

Italy

Consumption of electricity (MWh)

7913

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

7913

Is this consumption excluded from your RE100 commitment?

No

Country/area

Luxembourg

Consumption of electricity (MWh)

0

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

0

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

Lithuania

Consumption of electricity (MWh)

1

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

Netherlands

Consumption of electricity (MWh)

16701

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

16701

Is this consumption excluded from your RE100 commitment?

No

Country/area

Norway

Consumption of electricity (MWh)

113

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

113

Is this consumption excluded from your RE100 commitment?

No

Country/area

Poland

Consumption of electricity (MWh)

89

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

89

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

Portugal

Consumption of electricity (MWh)

86

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

86

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

Russian Federation

Consumption of electricity (MWh)

1561

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1561

Is this consumption excluded from your RE100 commitment?

No

Country/area

Romania

Consumption of electricity (MWh)

7

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

7

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

Saudi Arabia

Consumption of electricity (MWh)

76

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

76

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

South Africa

Consumption of electricity (MWh)

825

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

825

Is this consumption excluded from your RE100 commitment?

No

Country/area

Spain

Consumption of electricity (MWh)

7944

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

7944

Is this consumption excluded from your RE100 commitment?

No

Country/area

Sweden

Consumption of electricity (MWh)

3034

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

3034

Is this consumption excluded from your RE100 commitment?

No

Country/area

Switzerland

Consumption of electricity (MWh)

1320

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1320

Is this consumption excluded from your RE100 commitment?

No

Country/area

Turkey

Consumption of electricity (MWh)

1711

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1711

Is this consumption excluded from your RE100 commitment?

No

Country/area

United Arab Emirates

Consumption of electricity (MWh)

4761

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

4761

Is this consumption excluded from your RE100 commitment?

No

Country/area

Ukraine

Consumption of electricity (MWh)

1

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

1

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

United Kingdom of Great Britain and Northern Ireland

Consumption of electricity (MWh)

27843

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

27843

Is this consumption excluded from your RE100 commitment?

No

Country/area

Australia

Consumption of electricity (MWh)

13979

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

13979

Is this consumption excluded from your RE100 commitment?

No

Country/area

China

Consumption of electricity (MWh)

184686

Consumption of heat, steam, and cooling (MWh)

779

Total non-fuel energy consumption (MWh) [Auto-calculated]

185465

Is this consumption excluded from your RE100 commitment?

No

Country/area

Indonesia

Consumption of electricity (MWh)

373

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

373

Is this consumption excluded from your RE100 commitment?

No

Country/area

Japan

Consumption of electricity (MWh)

29394

Consumption of heat, steam, and cooling (MWh)

7391

Total non-fuel energy consumption (MWh) [Auto-calculated]

36785

Is this consumption excluded from your RE100 commitment?

No

Country/area

Malaysia

Consumption of electricity (MWh)

95

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

95

Is this consumption excluded from your RE100 commitment?

Yes

Country/area

New Zealand

Consumption of electricity (MWh)

324

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

324

Is this consumption excluded from your RE100 commitment?

No

Country/area

Philippines

Consumption of electricity (MWh)

116

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

116

Is this consumption excluded from your RE100 commitment?

No

Country/area

Singapore

Consumption of electricity (MWh)

26469

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

26469

Is this consumption excluded from your RE100 commitment?

No

Country/area

Republic of Korea

Consumption of electricity (MWh)

4818

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

4818

Is this consumption excluded from your RE100 commitment?

No

Country/area

Thailand

Consumption of electricity (MWh)

864

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

864

Is this consumption excluded from your RE100 commitment?

No

Country/area

Viet Nam

Consumption of electricity (MWh)

246

Consumption of heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

246

Is this consumption excluded from your RE100 commitment?

No

C8.2h

(C8.2h) Provide details of your organization's renewable electricity purchases in the reporting year by country

Country/area of renewable electricity consumption

United States of America

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (wind, solar, and biomass)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

76822

Tracking instrument used

Other, please specify (Contract and RECs)

Total attribute instruments retained for consumption by your organization (MWh)

76822

Country/area of origin (generation) of the renewable electricity/attribute consumed

United States of America

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Australia

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

5554

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

5554

Country/area of origin (generation) of the renewable electricity/attribute consumed

Australia

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Belgium

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

395

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

395

Country/area of origin (generation) of the renewable electricity/attribute consumed

Belgium

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

France

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

7579

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

7579

Country/area of origin (generation) of the renewable electricity/attribute consumed

France

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

New Zealand

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

469

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

469

Country/area of origin (generation) of the renewable electricity/attribute consumed

New Zealand

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Germany

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (solar and hydro)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

9125

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

9125

Country/area of origin (generation) of the renewable electricity/attribute consumed

Germany

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Ireland

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

13156

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

13156

Country/area of origin (generation) of the renewable electricity/attribute consumed

Ireland

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Italy

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Solar

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

6675

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

6675

Country/area of origin (generation) of the renewable electricity/attribute consumed

Italy

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Spain

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Wind

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

7290

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

7290

Country/area of origin (generation) of the renewable electricity/attribute consumed

Spain

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Sweden

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Wind

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

254

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

254

Country/area of origin (generation) of the renewable electricity/attribute consumed

Sweden

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Switzerland

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

600

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

600

Country/area of origin (generation) of the renewable electricity/attribute consumed

Switzerland

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United Kingdom of Great Britain and Northern Ireland

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

14015

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

14015

Country/area of origin (generation) of the renewable electricity/attribute consumed

United Kingdom of Great Britain and Northern Ireland

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Republic of Korea

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Solar

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

620

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

620

Country/area of origin (generation) of the renewable electricity/attribute consumed

Republic of Korea

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Japan

Sourcing method

Green electricity products from an energy supplier (e.g. Green Tariffs)

Renewable electricity technology type

Solar

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

779

Tracking instrument used

Contract

Total attribute instruments retained for consumption by your organization (MWh)

779

Country/area of origin (generation) of the renewable electricity/attribute consumed

Japan

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United States of America

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Wind

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

155

Tracking instrument used

US-REC

Total attribute instruments retained for consumption by your organization (MWh)

155

Country/area of origin (generation) of the renewable electricity/attribute consumed

United States of America

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Japan

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Solar

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

3240

Tracking instrument used

NFC - Renewable

Total attribute instruments retained for consumption by your organization (MWh)

3240

Country/area of origin (generation) of the renewable electricity/attribute consumed

Japan

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Australia

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

18281

Tracking instrument used

Australian LGC

Total attribute instruments retained for consumption by your organization (MWh)

18281

Country/area of origin (generation) of the renewable electricity/attribute consumed

Australia

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Colombia

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

180

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

180

Country/area of origin (generation) of the renewable electricity/attribute consumed

Colombia

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

India

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

2285

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

2285

Country/area of origin (generation) of the renewable electricity/attribute consumed

India

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Indonesia

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

375

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

375

Country/area of origin (generation) of the renewable electricity/attribute consumed

Indonesia

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Israel

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

15790

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

15790

Country/area of origin (generation) of the renewable electricity/attribute consumed

Israel

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Philippines

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

120

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

120

Country/area of origin (generation) of the renewable electricity/attribute consumed

Philippines

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Russian Federation

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

1595

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

1595

Country/area of origin (generation) of the renewable electricity/attribute consumed

Russian Federation

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Thailand

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

875

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

875

Country/area of origin (generation) of the renewable electricity/attribute consumed

Thailand

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Taiwan, China

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

1330

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

1330

Country/area of origin (generation) of the renewable electricity/attribute consumed

Taiwan, China

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United Arab Emirates

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

4857

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

4857

Country/area of origin (generation) of the renewable electricity/attribute consumed

United Arab Emirates

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Viet Nam

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

260

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

260

Country/area of origin (generation) of the renewable electricity/attribute consumed

Viet Nam

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United States of America

Sourcing method

Other, please specify (Equinix Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

14430

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

14430

Country/area of origin (generation) of the renewable electricity/attribute consumed

United States of America

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

China

Sourcing method

Other, please specify (Equinix Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

8438

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

8438

Country/area of origin (generation) of the renewable electricity/attribute consumed

China

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Germany

Sourcing method

Other, please specify (Equinix Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

6936

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

6936

Country/area of origin (generation) of the renewable electricity/attribute consumed

Germany

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Japan

Sourcing method

Other, please specify (Equinix Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

10053

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

10053

Country/area of origin (generation) of the renewable electricity/attribute consumed

Japan

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Netherlands

Sourcing method

Other, please specify (Equinix Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

952

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

952

Country/area of origin (generation) of the renewable electricity/attribute consumed

Netherlands

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Singapore

Sourcing method

Other, please specify (Equinix Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

8717

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

8717

Country/area of origin (generation) of the renewable electricity/attribute consumed

Singapore

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Sweden

Sourcing method

Other, please specify (Equinix Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

36

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

36

Country/area of origin (generation) of the renewable electricity/attribute consumed

Sweden

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United Kingdom of Great Britain and Northern Ireland

Sourcing method

Other, please specify (Unipart Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

964

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

984

Country/area of origin (generation) of the renewable electricity/attribute consumed

United Kingdom of Great Britain and Northern Ireland

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

France

Sourcing method

Other, please specify (Equinix Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

25

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

25

Country/area of origin (generation) of the renewable electricity/attribute consumed

France

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Germany

Sourcing method

Other, please specify (Interxion Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

5381

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

5381

Country/area of origin (generation) of the renewable electricity/attribute consumed

Germany

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Ireland

Sourcing method

Other, please specify (Interxion Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

1080

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

1080

Country/area of origin (generation) of the renewable electricity/attribute consumed

Ireland

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Sweden

Sourcing method

Other, please specify (Interxion Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

1780

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

1780

Country/area of origin (generation) of the renewable electricity/attribute consumed

Sweden

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Denmark

Sourcing method

Other, please specify (Interxion Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

263

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

263

Country/area of origin (generation) of the renewable electricity/attribute consumed

Denmark

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

France

Sourcing method

Other, please specify (Interxion Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

307

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

307

Country/area of origin (generation) of the renewable electricity/attribute consumed

France

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Netherlands

Sourcing method

Other, please specify (Interxion Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

410

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

410

Country/area of origin (generation) of the renewable electricity/attribute consumed

Netherlands

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United States of America

Sourcing method

Other, please specify (Digital Reality Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

594

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

594

Country/area of origin (generation) of the renewable electricity/attribute consumed

United States of America

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Netherlands

Sourcing method

Other, please specify (Digital Reality Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

8647

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

8647

Country/area of origin (generation) of the renewable electricity/attribute consumed

Netherlands

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Germany

Sourcing method

Other, please specify (IPB Supplied Renewable)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

363

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

363

Country/area of origin (generation) of the renewable electricity/attribute consumed

Germany

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

France

Sourcing method

Other, please specify (Global Switch Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

1393

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

1393

Country/area of origin (generation) of the renewable electricity/attribute consumed

France

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United States of America

Sourcing method

Other, please specify (Syncreon Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

2642

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

2642

Country/area of origin (generation) of the renewable electricity/attribute consumed

United States of America

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United Kingdom of Great Britain and Northern Ireland

Sourcing method

Other, please specify (Syncreon Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

1428

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

1428

Country/area of origin (generation) of the renewable electricity/attribute consumed

United Kingdom of Great Britain and Northern Ireland

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Netherlands

Sourcing method

Other, please specify (Syncreon Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

3863

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

3863

Country/area of origin (generation) of the renewable electricity/attribute consumed

Netherlands

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United Kingdom of Great Britain and Northern Ireland

Sourcing method

Other, please specify (Unipart Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

984

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

984

Country/area of origin (generation) of the renewable electricity/attribute consumed

United Kingdom of Great Britain and Northern Ireland

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Japan

Sourcing method

Other, please specify (Schenker Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

516

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

516

Country/area of origin (generation) of the renewable electricity/attribute consumed

Japan

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

United States of America

Sourcing method

Direct procurement from an offsite grid-connected generator e.g. Power Purchase Agreement (PPA)

Renewable electricity technology type

Solar

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

592620

Tracking instrument used

US-REC

Total attribute instruments retained for consumption by your organization (MWh)

592620

Country/area of origin (generation) of the renewable electricity/attribute consumed

United States of America

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

Please select

Comment

Country/area of renewable electricity consumption

United States of America

Sourcing method

Other, please specify (Geodis Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

10900

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

10900

Country/area of origin (generation) of the renewable electricity/attribute consumed

United States of America

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Singapore

Sourcing method

Other, please specify (Schenker Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

1415

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

1415

Country/area of origin (generation) of the renewable electricity/attribute consumed

Singapore

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Vintage of the renewable energy/attribute (i.e. year of generation)

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Netherlands

Sourcing method

Other, please specify (Schenker Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

2154

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

2154

Country/area of origin (generation) of the renewable electricity/attribute consumed

Netherlands

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

Australia

Sourcing method

Other, please specify (Schenker Supplied Renewables)

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

108

Tracking instrument used

No instrument used

Total attribute instruments retained for consumption by your organization (MWh)

108

Country/area of origin (generation) of the renewable electricity/attribute consumed

Australia

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

Country/area of renewable electricity consumption

South Africa

Sourcing method

Unbundled Energy Attribute Certificate (EAC) purchase

Renewable electricity technology type

Renewable electricity mix, please specify (wind and solar)

Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

591

Tracking instrument used

I-REC

Total attribute instruments retained for consumption by your organization (MWh)

591

Country/area of origin (generation) of the renewable electricity/attribute consumed

South Africa

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

Brand, label, or certification of the renewable electricity purchase

No brand, label, or certification

Comment

C8.2i

(C8.2i) Provide details of your organization's low-carbon heat, steam, and cooling purchases in the reporting year by country.

Country/area of consumption of low-carbon heat, steam or cooling

India

Sourcing method

Other, please specify (renewable electricity)

Energy carrier

Cooling

Low-carbon technology type

Renewable energy mix

Low-carbon heat, steam, or cooling consumed (MWh)

2024

Comment

The electricity used for creating cooling (chilled water) has been covered with renewable electricity.

Country/area of consumption of low-carbon heat, steam or cooling

Hong Kong SAR, China

Sourcing method

Other, please specify (renewable electricity)

Energy carrier

Cooling

Low-carbon technology type

Renewable energy mix

Low-carbon heat, steam, or cooling consumed (MWh)

779

Comment

The electricity used for creating cooling (chilled water) has been covered with renewable electricity.

Country/area of consumption of low-carbon heat, steam or cooling

Japan

Sourcing method

Other, please specify (renewable electricity)

Energy carrier

Cooling

Low-carbon technology type

Renewable energy mix

Low-carbon heat, steam, or cooling consumed (MWh)

7391

Comment

The electricity used for creating cooling (chilled water) has been covered with renewable electricity.

C8.2j

(C8.2j) Provide details of your organization's renewable electricity generation by country in the reporting year.

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

130

Total renewable electricity generated by this facility in the reporting year (MWh)

37526

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

37526

Certificates issued for the renewable electricity that was sold to the grid (MWh)

37526

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Wind

Facility capacity (MW)

220

Total renewable electricity generated by this facility in the reporting year (MWh)

139934

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

139934

Certificates issued for the renewable electricity that was sold to the grid (MWh)

139934

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

50

Total renewable electricity generated by this facility in the reporting year (MWh)

140850

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

140850

Certificates issued for the renewable electricity that was sold to the grid (MWh)

140850

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

70

Total renewable electricity generated by this facility in the reporting year (MWh)

231660

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

231660

Certificates issued for the renewable electricity that was sold to the grid (MWh)

231660

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

19.5

Total renewable electricity generated by this facility in the reporting year (MWh)

30507

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

30507

Certificates issued for the renewable electricity that was sold to the grid (MWh)

30507

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

50

Total renewable electricity generated by this facility in the reporting year (MWh)

129806

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

129806

Certificates issued for the renewable electricity that was sold to the grid (MWh)

129806

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

200

Total renewable electricity generated by this facility in the reporting year (MWh)

253184

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

253184

Certificates issued for the renewable electricity that was sold to the grid (MWh)

253184

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

57.5

Total renewable electricity generated by this facility in the reporting year (MWh)

116978

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

116978

Certificates issued for the renewable electricity that was sold to the grid (MWh)

116978

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Hydropower

Facility capacity (MW)

3

Total renewable electricity generated by this facility in the reporting year (MWh)

2269

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)
0

Renewable electricity sold to the grid in the reporting year (MWh)
2269

Certificates issued for the renewable electricity that was sold to the grid (MWh)
2269

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)
0

Type of energy attribute certificate
US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]
0

Comment

Country/area of generation
United States of America

Renewable electricity technology type
Hydropower

Facility capacity (MW)
0.3

Total renewable electricity generated by this facility in the reporting year (MWh)
705

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)
0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)
0

Renewable electricity sold to the grid in the reporting year (MWh)
705

Certificates issued for the renewable electricity that was sold to the grid (MWh)
705

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)
0

Type of energy attribute certificate
US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]
0

Comment

Country/area of generation
United States of America

Renewable electricity technology type
Solar

Facility capacity (MW)
64

Total renewable electricity generated by this facility in the reporting year (MWh)
182314

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)
0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)
0

Renewable electricity sold to the grid in the reporting year (MWh)
182314

Certificates issued for the renewable electricity that was sold to the grid (MWh)
182314

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)
0

Type of energy attribute certificate
US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]
0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

20

Total renewable electricity generated by this facility in the reporting year (MWh)

47511

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

47511

Certificates issued for the renewable electricity that was sold to the grid (MWh)

47511

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Wind

Facility capacity (MW)

112

Total renewable electricity generated by this facility in the reporting year (MWh)

229152

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

229152

Certificates issued for the renewable electricity that was sold to the grid (MWh)

229152

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

113.6

Total renewable electricity generated by this facility in the reporting year (MWh)

56034

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

56034

Certificates issued for the renewable electricity that was sold to the grid (MWh)

56034

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

25

Total renewable electricity generated by this facility in the reporting year (MWh)

33372

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

33372

Certificates issued for the renewable electricity that was sold to the grid (MWh)

33372

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

China

Renewable electricity technology type

Solar

Facility capacity (MW)

40

Total renewable electricity generated by this facility in the reporting year (MWh)

75997

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

75997

Certificates issued for the renewable electricity that was sold to the grid (MWh)

75997

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

Other, please specify (Contract)

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

Singapore

Renewable electricity technology type

Solar

Facility capacity (MW)

54

Total renewable electricity generated by this facility in the reporting year (MWh)

19529

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

19529

Certificates issued for the renewable electricity that was sold to the grid (MWh)

19529

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

TIGR

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

Denmark

Renewable electricity technology type

Wind

Facility capacity (MW)

59

Total renewable electricity generated by this facility in the reporting year (MWh)

50003

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

50003

Certificates issued for the renewable electricity that was sold to the grid (MWh)

50003

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

GO

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

Turkey

Renewable electricity technology type

Solar

Facility capacity (MW)

4

Total renewable electricity generated by this facility in the reporting year (MWh)

1884

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

1884

Certificates issued for the renewable electricity that was sold to the grid (MWh)

1884

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

Other, please specify (Contract)

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

Israel

Renewable electricity technology type

Solar

Facility capacity (MW)

5

Total renewable electricity generated by this facility in the reporting year (MWh)

11490

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

11490

Certificates issued for the renewable electricity that was sold to the grid (MWh)

11490

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

I-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

Brazil

Renewable electricity technology type

Solar

Facility capacity (MW)

0.5

Total renewable electricity generated by this facility in the reporting year (MWh)

1976

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

1976

Certificates issued for the renewable electricity that was sold to the grid (MWh)

1976

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

I-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

Mexico

Renewable electricity technology type

Solar

Facility capacity (MW)

0.84

Total renewable electricity generated by this facility in the reporting year (MWh)

1093

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

1093

Certificates issued for the renewable electricity that was sold to the grid (MWh)

1093

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

Other, please specify (CEL)

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

India

Renewable electricity technology type

Solar

Facility capacity (MW)

1.8

Total renewable electricity generated by this facility in the reporting year (MWh)

7202

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

7202

Certificates issued for the renewable electricity that was sold to the grid (MWh)

7202

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

I-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

Taiwan, China

Renewable electricity technology type

Solar

Facility capacity (MW)

0.94

Total renewable electricity generated by this facility in the reporting year (MWh)

790

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

790

Certificates issued for the renewable electricity that was sold to the grid (MWh)

790

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

T-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

China

Renewable electricity technology type

Solar

Facility capacity (MW)

100

Total renewable electricity generated by this facility in the reporting year (MWh)

104558

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

104558

Certificates issued for the renewable electricity that was sold to the grid (MWh)

104558

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

Other, please specify (Contract)

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

Australia

Renewable electricity technology type

Solar

Facility capacity (MW)

0.5

Total renewable electricity generated by this facility in the reporting year (MWh)

2736

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

2736

Certificates issued for the renewable electricity that was sold to the grid (MWh)

2736

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

Australian LGC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

South Africa

Renewable electricity technology type

Solar

Facility capacity (MW)

0.15

Total renewable electricity generated by this facility in the reporting year (MWh)

97

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

97

Certificates issued for the renewable electricity that was sold to the grid (MWh)

97

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

Other, please specify (Contract)

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

14

Total renewable electricity generated by this facility in the reporting year (MWh)

18119

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

18119

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

18119

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

0.1

Total renewable electricity generated by this facility in the reporting year (MWh)

140

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

140

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

140

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

0.17

Total renewable electricity generated by this facility in the reporting year (MWh)

233

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

233

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

233

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

0.8

Total renewable electricity generated by this facility in the reporting year (MWh)

339

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

339

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

339

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

0.5

Total renewable electricity generated by this facility in the reporting year (MWh)

1543

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

1543

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

1543

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

0.75

Total renewable electricity generated by this facility in the reporting year (MWh)

679

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

679

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

679

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

0.1

Total renewable electricity generated by this facility in the reporting year (MWh)

18

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

18

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

18

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

1.1

Total renewable electricity generated by this facility in the reporting year (MWh)

1356

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

1356

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

1356

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

0.05

Total renewable electricity generated by this facility in the reporting year (MWh)

80

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

80

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

80

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

4.67

Total renewable electricity generated by this facility in the reporting year (MWh)

8885

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

8885

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

8885

Comment

Country/area of generation

Japan

Renewable electricity technology type

Solar

Facility capacity (MW)

0.3

Total renewable electricity generated by this facility in the reporting year (MWh)

360

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

360

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

360

Comment

Country/area of generation

Taiwan, China

Renewable electricity technology type

Solar

Facility capacity (MW)

1

Total renewable electricity generated by this facility in the reporting year (MWh)

79

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

79

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

79

Comment

Country/area of generation

Singapore

Renewable electricity technology type

Solar

Facility capacity (MW)

1.1

Total renewable electricity generated by this facility in the reporting year (MWh)

1080

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

1080

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

1080

Comment

Country/area of generation

France

Renewable electricity technology type

Solar

Facility capacity (MW)

0

Total renewable electricity generated by this facility in the reporting year (MWh)

3

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

3

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

3

Comment

Country/area of generation

China

Renewable electricity technology type

Solar

Facility capacity (MW)

0.1

Total renewable electricity generated by this facility in the reporting year (MWh)

10

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

10

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

0

Certificates issued for the renewable electricity that was sold to the grid (MWh)

0

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

<Not Applicable>

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

10

Comment

Country/area of generation

United States of America

Renewable electricity technology type

Solar

Facility capacity (MW)

21.6

Total renewable electricity generated by this facility in the reporting year (MWh)

39341

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were not issued (MWh)

0

Renewable electricity directly consumed by your organization from this facility in the reporting year for which certificates were issued and retired (MWh)

0

Renewable electricity sold to the grid in the reporting year (MWh)

39341

Certificates issued for the renewable electricity that was sold to the grid (MWh)

39341

Certificates issued and retired for self-consumption for the renewable electricity that was sold to the grid (MWh)

0

Type of energy attribute certificate

US-REC

Total self-generation counted towards RE100 target (MWh) [Auto-calculated]

0

Comment**C8.2k****(C8.2k) Describe how your organization's renewable electricity sourcing strategy directly or indirectly contributes to bringing new capacity into the grid in the countries/areas in which you operate.**

Beginning in 2013, we sourced 100 percent of our electricity use for all our U.S. operations (including all of our data centers, retail stores and corporate offices) from renewable sources. And in January 2018 we expanded our sourcing of 100% renewable electricity to all of our worldwide corporate operations, including data centers, offices, and retail stores. To achieve this, we implemented energy efficiency initiatives and then prioritized the development of "Apple-created" renewable electricity generation projects. We define "Apple-created" renewable electricity projects to include projects under direct Apple ownership, equity investments, and long-term renewable energy contracts. When investing in renewable electricity, we prioritize projects that clearly demonstrate the principle of additionally, whereby Apple's involvement causes new renewable electricity sources to be developed and brought to the market.

When procuring renewable electricity, we prefer to contract directly with developers of renewable energy. However, we cannot procure energy this way everywhere we operate — in some cases, regulations prohibit it. In such situations, we may use the local utility's green energy program, if it is sufficiently robust, or purchase renewable energy credits (RECs). We also purchase RECs to cover usage over the short term, before an Apple-created renewable electricity project comes online. When we purchase RECs, we prefer they come from the same grid region as the Apple facility they support.

We also launched our Power for Impact program in 2019 to support new renewable projects in countries where we have a very small footprint. The projects not only added new renewable capacity but also brought social and economic benefits to the local communities.

To maintain our sourcing of 100 percent renewable electricity, we plan to increase our renewable electricity sourcing to keep pace with growth at our corporate facilities.

C8.2l**(C8.2l) In the reporting year, has your organization faced any challenges to sourcing renewable electricity?**

	Challenges to sourcing renewable electricity	Challenges faced by your organization which were not country-specific
Row 1	No	<Not Applicable>

C9. Additional metrics**C9.1**

(C9.1) Provide any additional climate-related metrics relevant to your business.

C10. Verification

C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	Third-party verification or assurance process in place

C10.1a

(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Apple FY2021 Assurance Statement.pdf

Page/ section reference

1-3

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

C10.1b

(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

Scope 2 approach

Scope 2 location-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Apple FY2021 CEP Assurance Statement.pdf

Page/ section reference

1-2

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

C10.1c

(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Scope 3 category

Scope 3: Purchased goods and services

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Apple_CCF Review Statement FY21_Fraunhofer.pdf

Page/section reference

1-4

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

Yes

C10.2a

(C10.2a) Which data points within your CDP disclosure have been verified, and which verification standards were used?

Disclosure module verification relates to	Data verified	Verification standard	Please explain
C8. Energy	Renewable energy products	ISAE3000 and ISO 14064-3	The verification document attached also includes verification of renewable energy consumption (page 2) both self-generated and purchased including certificates from our Apple-created projects, renewable energy supplied to our facilities via utility green energy programs, renewable energy procured on Apple's behalf from the wholesale market via Direct Access programs, and market purchases of renewable energy certificates. This number is referenced in C7.5 (MWh of low-carbon electricity consumed). Apple FY2021 Assurance Statement.pdf
C8. Energy	Energy consumption	ISAE3000 and ISO 14064-3	The verification document also includes verification of total Natural Gas consumption referenced in C8.2c (found on page 2 of attached document). Apple FY2021 Assurance Statement.pdf
C8. Energy	Energy consumption	ISAE3000 and ISO 14064-3	The verification document also includes verification of total electricity consumption (page 2), referenced in This number is referenced in C7.5 (MWh of electricity consumed)
C4. Targets and performance	Other, please specify (Progress against renewable target)	ISAE3000 and ISO 14064-3	The attached assurance document shows verification of our scope 1, 2, and 3 emissions referenced in C4.2. Apple FY2021 Assurance Statement.pdf

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

No, and we do not anticipate being regulated in the next three years

C11.2

(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period?

Yes

C11.2a

(C11.2a) Provide details of the project-based carbon credits originated or purchased by your organization in the reporting period.

Credit origination or credit purchase

Credit origination

Project type

Forests

Project identification

We did not originate these carbon credits. Instead we partnered with Conservation International and third party vendors on projects in various geographies that generate carbon credits that were then retired on Apple's behalf.

Verified to which standard

VCS (Verified Carbon Standard)

Number of credits (metric tonnes CO2e)

667000

Number of credits (metric tonnes CO2e): Risk adjusted volume

667000

Credits cancelled

No

Purpose, e.g. compliance

Voluntary Offsetting

C11.3

(C11.3) Does your organization use an internal price on carbon?

No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues?

Yes, our suppliers

Yes, our customers/clients

C12.1a

(C12.1a) Provide details of your climate-related supplier engagement strategy.

Type of engagement

Innovation & collaboration (changing markets)

Details of engagement

Collaborate with suppliers on innovative business models to source renewable energy

% of suppliers by number

100

% total procurement spend (direct and indirect)

% of supplier-related Scope 3 emissions as reported in C6.5

50

Rationale for the coverage of your engagement

Based on our comprehensive carbon footprint, we know that the manufacturing of our products — from mining to final assembly — represents the most significant source of Apple's emissions (about 70 percent in fiscal year 2021). That is why we've engaged deeply with our suppliers to reduce our footprint from manufacturing, with a focus on energy use and material selection. Through these programs, we've engaged all Apple-managed direct suppliers. This pool of suppliers extends beyond our top suppliers by spend, to all suppliers with whom we directly contract in the manufacturing of Apple products. The Apple Supplier Code of Conduct requires all Apple suppliers to report their emissions and their reduction targets. Apple suppliers sign and are required to uphold the provisions set forth in the Apple Supplier Code of Conduct and associated Supplier Responsibility Standards. In addition to this requirement, we have a number of engagement programs in place to help suppliers reduce their emissions. In 2016, our Supplier Energy Efficiency Program launched a supplier energy training program to increase the suppliers' awareness of energy conservation and to stimulate energy efficiency improvement activities. As part of this engagement, Apple conducts energy audits to identify energy saving opportunities and offers technical assistance. We also developed a supplier GHG emission inventory reporting tool and distributed it to 100% of Apple-managed supplier facilities. The GHG tool helps suppliers calculate their Scope 1 and 2 emissions. For the energy that is needed, we launched our Supplier Clean Energy Program in 2015 to help suppliers transition to renewable energy through a combination of direct engagement and online resources. The program's Clean Energy portal of resources is available to all our suppliers, while suppliers who commit to addressing 100 percent of their global manufacturing footprint for Apple become official Clean Energy Program participants. We also work with suppliers to innovate on the materials used in our products. We've worked with suppliers to switch to aluminum smelted using renewable sources of electricity rather than fossil fuels, and are engaging with suppliers to transition to recycled materials, reducing the carbon emissions associated with manufacturing.

Impact of engagement, including measures of success

Our threshold of success across our supplier engagement is represented by our goal to transition our manufacturing supply chain to 100 percent renewable energy -- enabled by wins in energy efficiency -- and reaching carbon neutrality for our entire carbon footprint by 2030. We measure progress towards success based on increasing level of engagement, energy savings, use of clean energy, and use of recycled materials. To measure the success of the Supplier Clean Energy Program, participants are asked to update their annual renewable energy information and progress to date, and this information is then verified through third party assurances; this allows us to track suppliers' progress towards powering 100 percent of their Apple production with renewable energy. We measure clean energy success based on level of engagement in our program and clean energy generated per year. To-date 213 suppliers have committed to procuring 100 percent clean energy for their Apple-related load, and even more have engaged with the Supplier Clean Energy Program. The Supplier Clean Energy Program has nearly 16 gigawatts of clean energy commitments. The renewable energy already online generated 18.1 million megawatt-hours of clean energy in fiscal year 2021, avoiding 13.9 million metric tons of carbon emissions in our supply chain. Regarding energy efficiency, we measure success based on level of engagement in our program and reduction in energy savings. Suppliers engaged in our program saved more than 1.15 million MWh of electricity through efficiency efforts. To measure the success of our work to use recycled materials, we measure the use of recycled materials in each of our products, as well as the impact on the product's carbon footprint, and release this information in our Product Environmental Reports. For example, iPad Pro (11-inch) carbon footprint decreased by 16 percent compared with the previous generation, due in part to use of recycled aluminum in the enclosure. These measures of success show progress toward our our goal of transitioning our manufacturing supply chain to 100 percent renewable electricity and reaching carbon neutrality for our entire footprint by 2030 — our ultimate threshold for success across initiatives.

Comment

C12.1b

(C12.1b) Give details of your climate-related engagement strategy with your customers.

Type of engagement & Details of engagement

Collaboration & innovation	Run a campaign to encourage innovation to reduce climate change impacts
----------------------------	---

% of customers by number

100

% of customer - related Scope 3 emissions as reported in C6.5

100

Please explain the rationale for selecting this group of customers and scope of engagement

We engage with our customers to address emissions from use and manufacturing of our products. To address the impact from product use, we aim to reduce energy consumption associated with the use of products. We do so by designing more efficient power supplies to bring electricity from the wall to the device, more efficient hardware, and smarter power management software. To address the impact of use of services, we procure 100% renewable electricity to power our data centers and we are requiring third-party computing services to adopt a 100% renewable energy strategy for their Apple energy use. We communicate to our customers about product energy efficiency on our website and through Product Environmental Reports. These reports, released for core products at launch, also communicate the full lifecycle carbon footprint of the product to customers. These engagements and communications target emissions from product use and select manufacturing emissions. In summary, the group of customers engaged through our efforts include all those who use our energy efficient products and/or services run from Apple data centers. We selected this group of customers, in order to best address the emissions relating to customers.

Impact of engagement, including measures of success

Our threshold of success for these programs is represented by our 2030 goal to be carbon neutral across our entire footprint, including our supply chain and use of our products; and to reduce total emissions by 75% compared with fiscal year 2015. This requires us, amongst other things, to continue to create energy efficient products and to procure 100% renewable energy at all Apple facilities, including data centers. We use U.S. Environmental Protection Agency's ENERGY STAR standards to measure our progress on product energy efficiency: in fiscal year 2021, over 99 percent of Apple eligible products, by revenue, received an ENERGY STAR rating for superior energy efficiency. And we disclose how each product's energy performance compares to the ENERGY STAR standard in our Product Environmental Reports. We also measure success by our ability to decrease overall product energy use as well. Through our efforts to improve energy efficiency, the average product energy use across all major product lines has declined by more than 70 percent since 2008.

C12.2

(C12.2) Do your suppliers have to meet climate-related requirements as part of your organization's purchasing process?

Yes, climate-related requirements are included in our supplier contracts

C12.2a

(C12.2a) Provide details of the climate-related requirements that suppliers have to meet as part of your organization's purchasing process and the compliance mechanisms in place.

Climate-related requirement

Climate-related disclosure through a non-public platform

Description of this climate related requirement

Apple is committed to respecting the highest standards of environmental conduct including climate change. Apple's suppliers are required to use environmentally responsible practices wherever they make products or perform services for Apple, to operate in accordance with the principles and requirements, as applicable, in this Apple's Supplier Code of Conduct ("Code"), and in full compliance with all Applicable Laws and Regulations.

% suppliers by procurement spend that have to comply with this climate-related requirement

100

% suppliers by procurement spend in compliance with this climate-related requirement

95

Mechanisms for monitoring compliance with this climate-related requirement

First-party verification

Response to supplier non-compliance with this climate-related requirement

Retain and engage

Climate-related requirement

Purchasing renewable energy

Description of this climate related requirement

Apple is committed to addressing climate change and increasing the use of renewable energy around the world. We transitioned to 100 percent renewable electricity in our offices, retail stores, and data centers in 2018. And in 2020, we took steps to be carbon neutral for our corporate emissions, including business travel and employee commute, and announced our ambitious goal to become carbon neutral for the entire life cycle of our products by 2030. To reach this target, we plan to transition our entire manufacturing supply chain — including material extraction, component manufacturing, and final product assembly — to 100 percent renewable electricity. We launched the Supplier Clean Energy Program in 2015 to help facilitate this transition to clean energy in our manufacturing supply chain. As of April 2022, 213 manufacturing partners in 25 countries have committed to 100 percent renewable energy for their Apple production. We've targeted carbon-intensive suppliers or those that represent a large portion of Apple's direct spend with suppliers. Both large and small suppliers have committed to 100 percent renewable electricity for Apple production. Over 70 percent of companies on Apple's Supplier List — those suppliers that make up 98 percent of Apple's direct spend for materials, manufacturing, and assembly of our products worldwide — have committed to 100 percent renewable electricity (this corresponds to 68 percent of Apple's direct spend).

% suppliers by procurement spend that have to comply with this climate-related requirement

68

% suppliers by procurement spend in compliance with this climate-related requirement

68

Mechanisms for monitoring compliance with this climate-related requirement

Off-site third-party verification

Response to supplier non-compliance with this climate-related requirement

Retain and engage

C12.3

(C12.3) Does your organization engage in activities that could either directly or indirectly influence policy, law, or regulation that may impact the climate?

Row 1

Direct or indirect engagement that could influence policy, law, or regulation that may impact the climate

Yes, we engage directly with policy makers

Yes, we engage indirectly through trade associations

Yes, we engage indirectly by funding other organizations whose activities may influence policy, law, or regulation that may significantly impact the climate

Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement?

No, and we do not plan to have one in the next two years

Attach commitment or position statement(s)

<Not Applicable>

Describe the process(es) your organization has in place to ensure that your engagement activities are consistent with your overall climate change strategy

Apple's Vice President of Environment, Policy and Social Initiatives, Lisa Jackson, oversees Apple's worldwide governmental affairs team to ensure alignment of policy influencing activities with our climate change strategy. Ms. Jackson reviews all significant legislative, public policy, and communications initiatives related to climate and environment, as well as all substantive participation requests for environmental advocacy. Apple believes that its clear and forceful position on climate action—through direct communications to employees and the broader public from both Ms. Jackson and Apple's CEO Tim Cook—leaves no ambiguity among its policy teams about Apple's stance on climate change. This clear direction from leadership also enables a unified approach to climate action regardless of employees' geographic location or business division. Apple works with various groups including those listed in C12.3, to drive U.S. state, federal, and foreign-government policies that support climate action, such as increased access to renewable energy. When deciding whether to join or maintain membership in a trade association (such as those select ones listed in 12.3b), that trade association's position and activity on climate change is a factor Apple considers. If direct or indirect engagement activities become inconsistent with our overall climate change strategy, we may disengage. For example, in 2009, Apple resigned its membership at the U.S. Chamber of Commerce directly as a result of the Chamber's public statements opposing the regulation of GHG emissions and its opposition to climate change legislation.

Primary reason for not engaging in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

<Not Applicable>

Explain why your organization does not engage in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

<Not Applicable>

(C12.3a) On what policy, law, or regulation that may impact the climate has your organization been engaging directly with policy makers in the reporting year?

Focus of policy, law, or regulation that may impact the climate

Other, please specify (Energy Efficiency)

Specify the policy, law, or regulation on which your organization is engaging with policy makers

CEC EE Standards

Policy, law, or regulation geographic coverage

Sub-national

Country/region the policy, law, or regulation applies to

Other, please specify (California)

Your organization's position on the policy, law, or regulation

Support with minor exceptions

Description of engagement with policy makers

We are engaged with the California Energy Commission to develop energy efficiency standards for computers and monitors. Our engagement centers on ensuring the energy efficiency standards that are being developed are strong, clear, and actionable. Through our efforts to improve energy efficiency, the average product energy use across all major product lines has declined by more than 70 percent since 2008. And Apple products are consistently ranked by ENERGY STAR, which sets specifications that typically reflect the 25 percent most energy-efficient devices on the market.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

Enhanced California energy efficiency standards for computers and monitors.

Have you evaluated whether your organization's engagement is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Focus of policy, law, or regulation that may impact the climate

Other, please specify (Clean energy generation)

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Japan RE policies

Policy, law, or regulation geographic coverage

National

Country/region the policy, law, or regulation applies to

Japan

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

Apple filed comments with the Japanese government, calling for the development of a renewable energy credit trading system better designed for market involvement and offering more detailed project data to accompany credits. Also, in Japan, we became the first of several multinationals to join the Japan Climate Leader's Partnership, which aligns business objectives with environmental goals. Apple is an Executive Member and participates in Advisory Working groups. Apple supported JCLP and RE100 letters to the Government supporting more ambitious climate and energy targets. More recently, Apple is advocating for direct transactions of Non-Fossil Fuel Certificates (NFCs), and accelerated implementation of virtual power purchase agreements.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

<Not Applicable>

Have you evaluated whether your organization's engagement is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Focus of policy, law, or regulation that may impact the climate

Other, please specify (Clean energy generation)

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Vietnam Direct Power Purchase Pilot

Policy, law, or regulation geographic coverage

National

Country/region the policy, law, or regulation applies to

Viet Nam

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

In Vietnam, we advocated for government action to enable companies to purchase renewable energy.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

<Not Applicable>

Have you evaluated whether your organization's engagement is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Focus of policy, law, or regulation that may impact the climate

Other, please specify (Rollback of climate standards)

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Rollback of the EPA Clean Power Plan

Policy, law, or regulation geographic coverage

National

Country/region the policy, law, or regulation applies to

United States of America

Your organization's position on the policy, law, or regulation

Oppose

Description of engagement with policy makers

Apple urged the United States Environmental Protection Agency (EPA) to not withdraw the Clean Power Plan, which would have reduced greenhouse gas emissions from the electricity sector. Apple filed briefs and spoke out against policies to withdraw the clean power plan.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

Retain existing Clean Power Plan

Have you evaluated whether your organization's engagement is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Focus of policy, law, or regulation that may impact the climate

Other, please specify (Regulation of GHG emissions)

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Paris Agreement

Policy, law, or regulation geographic coverage

Global

Country/region the policy, law, or regulation applies to

<Not Applicable>

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

Apple is a signatory of "America Is All In", which supports the United States federal government in pursuing the newly announced national climate target of 50-52% emissions reductions by 2030. "We are all in" is a consortium of organizations engaging with the Biden administration on U.S. re-entry into the Paris Agreement.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

<Not Applicable>

Have you evaluated whether your organization's engagement is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Focus of policy, law, or regulation that may impact the climate

Other, please specify (Clean energy generation)

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Korea Green premium, PPA rules

Policy, law, or regulation geographic coverage

National

Country/region the policy, law, or regulation applies to

Republic of Korea

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

We are engaged in Korea to improve transparency of the Green Premium auction and accelerate implementation of cost-effective PPA options.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

<Not Applicable>

Have you evaluated whether your organization's engagement is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Focus of policy, law, or regulation that may impact the climate

Circular economy

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Basel Convention

Policy, law, or regulation geographic coverage

Global

Country/region the policy, law, or regulation applies to

<Not Applicable>

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

Support policies to recycle and reuse material in support of Apple's goal to have products made of fully recycled material.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

<Not Applicable>

Have you evaluated whether your organization's engagement is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Focus of policy, law, or regulation that may impact the climate

Mandatory climate-related reporting

Specify the policy, law, or regulation on which your organization is engaging with policy makers

SEC rule

Policy, law, or regulation geographic coverage

National

Country/region the policy, law, or regulation applies to

United States of America

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

Apple was one of the first company to publicly support the proposal of a rule to require disclose of carbon emissions by the SEC.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

<Not Applicable>

Have you evaluated whether your organization's engagement is aligned with the goals of the Paris Agreement?

No, we have not evaluated

C12.3b

(C12.3b) Provide details of the trade associations your organization engages with which are likely to take a position on any policy, law or regulation that may impact the climate.

Trade association

Advanced Energy Economy (AEE)

Is your organization's position on climate change consistent with theirs?

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

AEE is an association of businesses working to make energy secure, clean, and affordable. Its mission is to transform public policy to enable rapid growth of "advanced energy" companies. Advanced energy encompasses a broad range of products and services that constitute the best available technologies to meet energy needs today and tomorrow—these include energy efficiency, demand response, natural gas electric generation, solar, wind, hydro, nuclear, electric vehicles, biofuels, and smart grid. AEE's vision is of a prosperous world that runs on secure, clean, affordable energy. For more information, please visit aee.net

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify (American Council for an Energy-Efficient Economy (ACEEE))

Is your organization's position on climate change consistent with theirs?

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

The ACEEE is a nonprofit research organization, develops transformative policies to reduce energy waste and combat climate change. With independent analysis, ACEEE aims to build a vibrant and equitable economy - one that uses energy more productivity, reduces costs, protects the environment, and promotes the health, safety, and well-being of everyone.

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify (Japan Climate Leadership Partners (JCLP))

Is your organization's position on climate change consistent with theirs?

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

JCLP advocates that companies should work aggressively to decarbonize their operations, and should speak up on climate policy. It is a coalition of Japanese companies, and companies that do business in Japan. For more information, please visit <https://japan-clp.jp/en>

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify (Information Technology Industry Council)

Is your organization's position on climate change consistent with theirs?

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

The Information Technology Industry Council (ITI) has a clear position supporting innovation leading to increased energy efficiency and the promotion of clean, renewable energy sources, as indicated on their website (<https://www.itic.org/policy/energy>): "ITI and our members seek to continuously improve the energy efficiency landscape in the U.S. and globally to leverage energy-efficient technologies. ITI works on behalf of our member companies to advocate for policies that advance both intelligent efficiency and product efficiency..." On energy efficiency, ITI unites the tech sector and the NGO community to advance policies that drive sustainable economic growth through technology-enabled energy and product efficiency innovation. ITI works proactively with the Environmental Protection Agency as an active partner in and advisor to the ENERGY STAR program. Our position and their positions are in alignment; we are not attempting to influence their position.

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Trade association

BusinessEurope

Is your organization's position on climate change consistent with theirs?

Mixed

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

BusinessEurope represents national business federations who are their direct members. They work across all policy areas affecting their members. "BusinessEurope is committed to and aware of the challenges that climate change presents as well as the impacts of human activities. This is why BusinessEurope highly welcomed the Paris Agreement, which reflects the long-term objective of limiting global warming below 2°C."

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify (Digital Europe)

Is your organization's position on climate change consistent with theirs?

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

DIGITALEUROPE is convinced that digital technologies are key enablers for attaining the sustainability goals of the European Green Deal and contributing to the Paris Agreement and United Nations Sustainable Development Goals (SDGs).

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify (Clean Energy Buyers Association)

Is your organization's position on climate change consistent with theirs?

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

CEBA is a membership association for energy customers seeking to procure clean energy across the U.S. CEBA's aspiration is to achieve a 90% carbon-free U.S. electricity system by 2030 and to cultivate a global community of energy customers driving clean energy.

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Trade association

Other, please specify (AmCham EU)

Is your organization's position on climate change consistent with theirs?

Consistent

Has your organization influenced, or is your organization attempting to influence their position?

We are not attempting to influence their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

AmchamEU represent companies that are already researching, developing and investing in low-carbon solutions and technologies. AmchamEU has advocated for a stable and predictable framework for investments to encourage and sustain these efforts. AmchamEU believes the Paris Agreement provides clear goals as well as a balanced and cost-efficient approach to reducing emissions.

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Trade association

Business Roundtable

Is your organization's position on climate change consistent with theirs?

Mixed

Has your organization influenced, or is your organization attempting to influence their position?

We are attempting to influence them to change their position

State the trade association's position on climate change, explain where your organization's position differs, and how you are attempting to influence their position (if applicable)

Business Roundtable is an association of chief executive officers of America's leading companies working to promote a thriving US economy and expanded opportunity for all Americans through sound public policy. Business Roundtable believes corporations should lead by example, support sound public policies and drive innovation needed to address climate change.

Funding figure your organization provided to this trade association in the reporting year, if applicable (currency as selected in C0.4) (optional)

Describe the aim of your organization's funding

<Not Applicable>

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

No, we have not evaluated

C12.3c

(C12.3c) Provide details of the funding you provided to other organizations in the reporting year whose activities could influence policy, law, or regulation that may impact the climate.

Type of organization

Non-Governmental Organization (NGO) or charitable organization

State the organization to which you provided funding

Ceres

Funding figure your organization provided to this organization in the reporting year (currency as selected in C0.4)

50000

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

Ceres works with leading businesses to make the financial business case for sustainability. As members of their Company Network we provide information and support, and help drive state and federal action on climate change. We collaborate with other companies and participate in Ceres-driven advocacy. For more information, visit ceres.org/networks/ceres-company-network

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Type of organization

Non-Governmental Organization (NGO) or charitable organization

State the organization to which you provided funding

World Business Council for Sustainable Development (WBCSD)

Funding figure your organization provided to this organization in the reporting year (currency as selected in C0.4)

94000

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

As members of WBCSD, we engage with impactful coalitions and networks that create advocacy inputs for common policy asks, and enabling the adoption of standards and tools. WBCSD mobilizes its members to create the scale needed to transform their businesses and value chains to achieve Net Zero by 2050. For more information, visit wbcSD.org/Imperatives/Climate-Action

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Type of organization

Non-Governmental Organization (NGO) or charitable organization

State the organization to which you provided funding

RE100

Funding figure your organization provided to this organization in the reporting year (currency as selected in C0.4)

15000

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

As a RE100 Member and Advisory Committee member, we engage with local and national governments to accelerate the adoption of renewable electricity solutions. We work RE100 to enact policy measures that support corporate sourcing of renewable electric and creates a competitive market for businesses to buy renewables. For more information, visit there100.org

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

C12.4

(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Publication

In mainstream reports

Status

Complete

Attach the document

Apple_2022_ProxyStatement.pdf

Page/Section reference

Pages 2, 16, 18, 39

Content elements

Strategy

Emission targets

Other metrics

Comment

Publication

In mainstream reports

Status

Complete

Attach the document

Apple_2021_10K.pdf

Page/Section reference

Pages 7, 14

Content elements

Risks & opportunities

Comment

Publication

In voluntary sustainability report

Status

Complete

Attach the document

Apple_Environmental_Progress_Report_2022.pdf

Page/Section reference

All

Content elements

Governance

Strategy

Risks & opportunities

Emissions figures

Emission targets

Other metrics

Comment

Publication

In voluntary sustainability report

Status

Complete

Attach the document

Apple_SR_2022_Progress_Report.pdf

Page/Section reference

Pages 7, 10, 11, 32-34, 74-89

Content elements

Strategy

Risks & opportunities

Emissions figures

Other metrics

Comment

Publication

In voluntary sustainability report

Status

Complete

Attach the document

2022_Apple_ESG_Report.pdf

Page/Section reference

Pages 12-21

Content elements

Governance

Emissions figures

Other metrics

Comment

Publication

In voluntary communications

Status

Complete

Attach the document

Apple-Supplier-Code-of-Conduct-and-Supplier-Responsibility-Standards.pdf

Page/Section reference

Pages 38-40, 66- 83

Content elements

Strategy

Risks & opportunities

Emissions figures

Other metrics

Comment

Publication

In voluntary sustainability report

Status

Complete

Attach the document

iPhone_13_Pro_Max_PER_Sept2021.pdf

Page/Section reference

All

Content elements

Strategy

Emissions figures

Other metrics

Comment

We publish product environmental reports at the launch of each product. These includes the carbon footprint of the product, as well as descriptions of other environmental features of the product. These are available here: <https://www.apple.com/environment>

C15. Biodiversity

C15.1

(C15.1) Is there board-level oversight and/or executive management-level responsibility for biodiversity-related issues within your organization?

	Board-level oversight and/or executive management-level responsibility for biodiversity-related issues	Description of oversight and objectives relating to biodiversity	Scope of board-level oversight
Row 1	Yes, executive management-level responsibility	Apple's Vice President of Environment, Social, and Policy Initiatives is responsible for the development, review, and execution of plans designed to minimize Apple's impact on the environment. A number of Apple's environmental programs have an impact on biodiversity, including Apple's packaging specification, which requires that all fiber packaging be sourced from responsible sources, Apple's closed loop initiatives, which reduce its reliance on mining and the associated environmental impacts, water restoration initiatives, as well as carbon removal projects, many of which have conservation benefits. Apple's Board of Directors (Board) reviews and discusses updates on environmental matters with Apple's Vice President of Environment, Social, and Policy Initiatives. These reports include Apple's progress towards environmental and climate goals and the environmental impact of our products and operations.	<Not Applicable>

C15.2

(C15.2) Has your organization made a public commitment and/or endorsed any initiatives related to biodiversity?

	Indicate whether your organization made a public commitment or endorsed any initiatives related to biodiversity	Biodiversity-related public commitments	Initiatives endorsed
Row 1	Yes, we have made public commitments and publicly endorsed initiatives related to biodiversity	Commitment to respect legally designated protected areas Commitment to no conversion of High Conservation Value areas	SDG

C15.3

(C15.3) Does your organization assess the impact of its value chain on biodiversity?

	Does your organization assess the impact of its value chain on biodiversity?	Portfolio
Row 1	No, and we do not plan to assess biodiversity-related impacts within the next two years	<Not Applicable>

C15.4

(C15.4) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity-related commitments
Row 1	Yes, we are taking actions to progress our biodiversity-related commitments	Land/water protection Land/water management Education & awareness Livelihood, economic & other incentives

C15.5

(C15.5) Does your organization use biodiversity indicators to monitor performance across its activities?

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
Row 1	No	Please select

C15.6

(C15.6) Have you published information about your organization’s response to biodiversity-related issues for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Report type	Content elements	Attach the document and indicate where in the document the relevant biodiversity information is located
In voluntary sustainability report or other voluntary communications	Content of biodiversity-related policies or commitments Other, please specify (Description of the biodiversity benefits of carbon removal solutions.)	2022 EPR (FY21) page 29 (description of the biodiversity benefits of carbon removal) and page 121 (EHS policy) Apple_Environmental_Progress_Report_2022.pdf

C16. Signoff

C-FI

(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

C16.1

(C16.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Vice President; Environment, Policy, and Social Initiatives	Chief Sustainability Officer (CSO)

SC. Supply chain module

SC0.0

(SC0.0) If you would like to do so, please provide a separate introduction to this module.

We have a number of programs to reduce product-related emissions. We recently announced our goal to become carbon neutral across our entire business, manufacturing supply chain, and product life cycle by 2030. Apple is already carbon neutral today for its global corporate operations, and this new commitment means that by 2030, every Apple device sold will have net zero climate impact. This goal builds on Apple’s prior success powering all of our facilities worldwide with 100 percent renewable energy, which is another example of our substantive, visible commitment to mitigating climate change. As part of its carbon neutrality goal, Apple also plans to transition its entire supply chain to 100 percent renewable energy, which will significantly reduce our Scope 3 emissions from manufacturing products. The Supplier Clean Energy Program now has almost 16 gigawatts of clean energy commitments, of which nearly two-thirds is already operational. In fiscal year 2021, the 10.3 gigawatts of renewable energy already online in Apple’s supply chain generated 18.1 million megawatt-hours of clean energy, avoiding 13.9 million metric tons of carbon emissions — a 62 percent increase over fiscal year 2020.

Our Product Environmental Reports include product-level carbon emissions data for each major product release. These are available at:
<https://www.apple.com/environment/#reports-product>

SC0.1

(SC0.1) What is your company’s annual revenue for the stated reporting period?

	Annual Revenue
Row 1	

SC1.1

(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

SC1.2

(SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).

SC1.3

(SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Allocation challenges	Please explain what would help you overcome these challenges
Doing so would require we disclose business sensitive/proprietary information	

SC1.4

(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

SC2.1

(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP Supply Chain members.

SC2.2

(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives?

SC4.1

(SC4.1) Are you providing product level data for your organization's goods or services?

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

Please confirm below

I have read and accept the applicable Terms