

C0. Introduction

C0.1

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

Synaptics is a global leader and pioneer of human interface solutions, engineering innovative solutions that enable people to interact more easily and intuitively with a wide range of technologies, including smartphones, smart home devices, PCs, television peripherals, automotive, headsets, and AR/VR. We enable what you touch, hear, say and see through our advanced processors, SoCs, ICs DSPs, and enriched software technologies.

Synaptics is based in San Jose, California, with over 20 locations worldwide, and over 1,700 employees, most of which (+70%) are in engineering roles. Synaptics is public company listed on the Nasdaq stock exchange since its IPO in 2002 and owns a growing portfolio of more than 1800 patents.

Synaptics was founded in 1986 by industry luminaries Federico Faggin and Carver Mead to commercialize their ideas around building silicon that computes as effectively as the human brain, duplicating the brain's neural network onto computer chips. Blending synapse, the junction where impulses are transmitted, with electronics, the "Synaptics" name was born. Their vision catalyzed some of the most innovative products on the market today, such as the notebook PC touchpad; the capacitive touch phone; and the capacitive-touchscreen phone. Additional Synaptics milestones include the acquisitions of Validity Sensors (i.e., biometric fingerprint technology); Renesas SP Drivers (i.e., display driver technology); and Conexant, allowing Synaptics to diversify its markets. Synaptics continues to manufacture innovative technology, with the recent development of AI technology in Smart Edge products.

Through it all, Synaptics encourages its employees to cultivate a passion to make a difference in our world by contributing their time or talent to support worldwide organizations and causes. This includes participating in organized beach and city streets cleanups, helping hands for housing for humanity, hosting bike-to-work day energizer stations, judging local elementary schools STEAM Fairs, sponsoring the Silicon Valley Turkey Trot, walking the walk at the American Cancer Society Making Strides for Breast Cancer events, and even supporting orphanages in the Philippines – all to which the company and its passionate employees have donated countless hours and serious financial donations.

Synaptics also believes that diversity drives innovation, and its popular WIN program (Women in Network) has a mission to instill a sense of unity amongst the women of Synaptics. To create a space where women can connect on a personal and professional level, offering encouragement, support and inspiration to thrive in the company and beyond.

Synaptics recognizes the importance of being a "Green Partner" by protecting and maintaining the quality of the environment as an integral part of the company's business operations and is committed to environmental responsibility in the conduct of its business. Synaptics strives to develop, manufacture, and market products that are safe for their intended use, efficient in their use of energy, are lead-free and protective of the environment. Our environmental policy encourages reuse and recycling of materials, purchasing products made from recycled materials, using recyclable packaging and other materials to conserve natural resources, and maintain recycling and reuse stations at its facilities where relevant. Synaptics also encourages disposing of end-of-life products in an environmentally safe and responsible manner.

Synaptics ignited the human interface revolution. Our products are built on the company's storied research and development, extensive intellectual property and global partnerships. With solutions designed to optimize the human/machine user experience we combine ease of use, functionality and aesthetics to enable our customers products make users' digital lives more productive, secure and enjoyable.

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	January 1 2019	December 31 2019	No	<Not Applicable>

C0.3

(C0.3) Select the countries/areas for which you will be supplying data.

- Armenia
- China
- India
- Japan
- Republic of Korea
- Taiwan, Greater China
- United States of America

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

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	The Synaptics' Governance committee is comprised of the Board Chairman plus three additional board members. The board meets quarterly and one of their responsibilities is to monitor the progress of Synaptics' sustainability strategy which includes climate related issues. Topics such as energy reductions at facilities and manufacturing lower-energy consuming products, are reviewed and decided upon.

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 – all meetings	Reviewing and guiding strategy Reviewing and guiding major plans of action Reviewing and guiding annual budgets Reviewing and guiding business plans Monitoring implementation and performance of objectives Monitoring and overseeing progress against goals and targets for addressing climate-related issues	<Not Applicable>	Synaptics includes climate-related issues in all meeting discussions to guide future strategy, business planning and budgetary planning. The Chief Sustainability Officer provides direct updates to the executive board on key climate-related topics, such energy reductions at facilities and manufacturing lower-energy consuming products. Additionally, goals and targets are implemented to measure progress towards a more sustainable future. For example, Synaptics is monitoring energy use at our facilities and tracking efficiency opportunities where they can be implemented.

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>	Quarterly

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).

The Chief Sustainability Officer (CSO) reports directly to the Chief Executive Officer. The responsibilities of the role include the creation and management of a Synaptics sustainability vision and strategy, identification and prioritization of areas for sustainability efforts, recommending initiatives for proactively addressing relevant sustainability issues and the execution and monitoring of such initiatives' Board Governance Committee's role is to ensure a sustainability vision and strategy are in place and monitor progress through regular updates on Synaptics' environmental strategy from the Chief Sustainability Officer.

The Global Workplace Resource's Committee's responsibilities include the recommendation of sustainability initiatives to the CSO and on approval, the execution and monitoring of the results of such initiatives.

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	Synaptics manufactures chips used in a variety of applications, that ensure the consumer is utilizing the least amount of required energy. Synaptics' employees are incentivized to continue the innovation process for lower energy demand products, as it directly and indirectly affects them as consumers.

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
Other, please specify (hardware and software engineers)	Monetary reward	Energy reduction project Other (please specify) (Energy consumption of the product, which in the case of Synaptics is the silicon chip)	Synaptics is a leading provider for silicon chips and semiconductor components in a wide variety of consumer and industrial applications, including hand held mobile phone, tablets, touchscreens, audio devices, headsets, home assistant gadgets, networking and docking products, and automobile. Given the large footprint of products and solutions that we deliver, energy conservation and optimization at Synaptics is a paramount design parameter. This helps not only the environment but also the user, in terms of enhanced battery life, less heat dissipated during operation, and greater performance for every watt of power expended. The energy efficiency starts from the product design, wherein architectures are chosen which are inherently energy efficient. Further energy optimization is achieved when relevant power domains in the chip are turned off when not in operation. This required complex gating requirements, from a chip architecture perspective, but the design teams are incentivized to embrace and adopt these power saving climate friendly architectures. This is the core engineering strength at Synaptics, to deliver high performance consumer solutions while using minimum amount of power possible. As indicated earlier, Synaptics chips are found in a large number of consumer gadgets and devices. It will be absolutely true to say that Synaptics is everywhere, in all households across the globe. This makes our energy saving engineering and chip design methodology much more impactful and relevant, because we are making a small contribution towards power conservation in a large majority of households around the world. Therefore, Synaptics monetarily rewards hardware and software engineers for innovative product design that achieves energy reductions for the consumer.

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	
Medium-term	1	3	
Long-term	3	5	

C2.1b

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

Synaptics provides solutions in several markets (i.e., mobile applications and PC product applications) and any shift or negative impact to these markets, including pressure from competitors, would affect our business operations and revenue and constitute a substantive financial or strategic impact. Also, if we do not keep pace with technological innovations and changing markets, our revenue would suffer. Additionally, if we fail to maintain and build relationships with our customers, or our customers' products which utilize our human interface solutions, our revenue may stagnate or decline. Our ability to compete successfully and continue growing as a company depends on our ability to adequately protect our proprietary technology and confidential information. We depend on third parties to maintain satisfactory manufacturing yields and delivery schedules, and their inability to do so could increase our costs, disrupt our supply chain, and result in our inability to deliver our products, which would adversely affect our operating results. Any disruption to our suppliers, including materials needed, would disrupt the rest of our operations and impact revenue.

Our manufacturing and assembly operations are primarily conducted in China, Taiwan, and Thailand by contract manufacturers and semiconductor fabricators. We have sales and logistics operations in Hong Kong, and sales and engineering design support operations in Armenia, China, Denmark, India, Japan, Korea, Switzerland, and Taiwan. These international operations expose us to various economic, political, regulatory, and other risks that could adversely affect our operations and operating results, those risks include greater climate change regulations that may increase costs; and natural disasters, including earthquakes or tsunamis.

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

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term

Medium-term

Description of process

In Synaptics' processes, our evaluation and mitigation of climate risk that could have a substantive financial or strategic impact is integral to financial security, and hence the reputational risks and opportunities are identified first, followed by operational risks and opportunities. For example, we try to anticipate trends consumer preferences around corporate climate change action to reduce our reputational, or transitional, risks. In turn, we then take concrete actions such as installing on-site electric vehicle charging stations for our employees to help reduce their tailpipe emissions and its contribution to physical risks like global warming. Moreover, from a company perspective, processes and designs are consistently vetted with respect to regulations, customers' and suppliers' sustainability requests, and our own internal goals to minimize or avoid any potential reputational risks. We are a member of the Silicon Valley Leadership Group (SVLG) which helps us to track emerging risks and opportunities related to climate change. We also monitor and take into account stakeholder interest in our environmental programs, including: the number of customers that request CDP participation and require us to update them about our environmental progress. Periodically, existing policies and procedures are reviewed and audited to ensure conformance and quality control against existing guidelines and standards. We also look for ways to improve our efficiency through advanced processes to reduce emissions and have a positive impact on climate change. At the asset level, facilities are sited to be near customers and suppliers such that emissions from transportation and delivery are minimized, again decreasing climate impact.

C2.2a

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

	Relevance & inclusion	Please explain
Current regulation	Relevant, sometimes included	As a company, we ensure our activities are in-line with current climate-related regulations and policy in the areas in which we operate. For example, in California we have made efforts to increase the share of renewable energy used by our San Jose facility in-line with the State's commitment, and corresponding policy, to transition to a more sustainable, clean energy economy by 2030.
Emerging regulation	Relevant, sometimes included	Synaptics is constantly looking at ways to reduce our carbon footprint, we are currently working with the local gas and electricity utilities to conduct an energy audit and find other ways to reduce our energy consumption.
Technology	Relevant, always included	Improving energy efficiency is a principal goal in our research, development, and design processes. Synaptics is focused on developing very low power capabilities across our product lines from touch controllers to display drivers to our far-field voice and other solutions.
Legal	Relevant, not included	Legal risks are not included within our risk assessments at this time, however, Synaptics will potentially include them in the future.
Market	Relevant, sometimes included	Low-power product design is necessary for gaining and keeping market share in the semiconductor sector.
Reputation	Relevant, sometimes included	Synaptics is committed to its role as a corporate citizen in managing its carbon footprint and we are focused on the continuous improvement of processes and objectives to conserve energy minimizing generation of greenhouse gases that contribute to climate change.
Acute physical	Relevant, sometimes included	As a fabless semiconductor we rely on suppliers located in regions which are vulnerable to severe typhoons, tropical storms and earthquakes. As part of evaluating new suppliers we review their susceptibility to such severe weather and natural events and consider dual sources of supply to minimize such risk.
Chronic physical	Relevant, not included	Chronic physical risks are not included within our risk assessments at this time, however, Synaptics will potentially include them in the future.

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

Reputation	Stigmatization of sector
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Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Cap and trade schemes - Currently, Synaptics is not part of any cap and trade schemes and has only begun (in the past three years) to track its carbon emissions. However, the potential for cap-and-trade schemes in APAC is rising and probably will become a certainty for the electronic industry in the next five years. If Synaptics does not have a scheme while others do, it will be detrimental to business.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Synaptics is currently unable to capture the financial impact.

Cost of response to risk

1000000

Description of response and explanation of cost calculation

Understanding the logistics of the cap and trade schemes and mitigating greenhouse emissions is key. Rather than wait for these schemes, our approach is proactive, Synaptics is committed to reducing the financial cost of its energy consumption by investing in energy efficiency. During the last two years, Synaptics has invested over \$3M in projects that significantly improve energy efficiency and continue to look for opportunities where renewable energy can be implemented at our facilities. Specialists and consultant firms will cost about \$100K to understand the cap-and-trade system and also measures to mitigate carbon emissions.

Comment**Identifier**

Risk 2

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Emerging regulation	Carbon pricing mechanisms
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Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

We do not manufacture the silicon wafers used for our products and do not own or operate a wafer fabrication facility. Instead we are dependent on foundries to manufacture our product wafers using fabrication equipment and techniques that are relatively energy intensive. The introduction of fuel/energy taxes in locations where our suppliers are based could lead to increased operational costs that our suppliers may seek to pass on to their customers.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Synaptics is currently unable to capture the financial impact.

Cost of response to risk

0

Description of response and explanation of cost calculation

These facilities are the major operational hubs and integral to Synaptics' core business. During 2019 we requested more data from our Tier 1 suppliers on their scope 1 and 2 GHG emissions and are continuously searching for opportunities to reduce emissions at our R&D/office facilities. We are unable to realize the cost of response to the risk at this time.

Comment**Identifier**

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation	Carbon pricing mechanisms
---------------------	---------------------------

Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Our product is shipped to customers globally and the goods and components that we purchase are also transported from suppliers around the world. Freight costs are a component of our operational cost, and the taxation of fossil fuel based transport fuels used in air, road and ocean travel may drive an increase in our product shipping costs.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Synaptics is currently unable to capture the financial impact.

Cost of response to risk

0

Description of response and explanation of cost calculation

The manner in which we plan, pack and ship our raw material, work-in-progress, and finished need to be reviewed. We are currently working on improving our supply planning with the next step being to review our logistics optimization which will focus on implementing consolidation programs to efficiently configure packing and reduce the number of pickups and deliveries. We are unable to realize the cost of response to the risk at this time.

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**(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?

Direct operations

Opportunity type

Resource efficiency

Primary climate-related opportunity driver

Use of more efficient production and distribution processes

Primary potential financial impact

Reduced indirect (operating) costs

Company-specific description

Synaptics products will ever increasingly be developed in green buildings and with the use of sustainable processes and suppliers. We have already installed renewable energy at our headquarters in San Jose, CA and we will continue to search for opportunities to implement renewable energy at our other facilities.

Time horizon

Long-term

Likelihood

More likely than not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Synaptics is currently unable to capture the financial impact.

Cost to realize opportunity

500000

Strategy to realize opportunity and explanation of cost calculation

Higher demand for products will require more headcount and facilities. Also, Synaptics has to hire consultants to assist in ensuring that the company understands, navigates, and is ahead of the regulations themselves, therefore, we have assumed a cost to realize this opportunity would be approximately \$500,000.

Comment

Identifier

Opp2

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

Climate change will change the natural landscape whether by sea level rise, by decimation of forests and agricultural land through drought, or through other events. As such, consumers will increasingly utilize electronic devices in order to conduct business. Synaptics is uniquely positioned to take advantage of this need as our products are integral to user interface and security of these devices. Especially if Synaptics utilizes sustainable processes and materials to develop its products, the potential for greater revenue income is probable.

Time horizon

Long-term

Likelihood

More likely than not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Synaptics is currently unable to capture the financial impact.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

Synaptics continues to monitor consumer needs as they relate to climate events, coupled with ensuring that locations and facilities are shifting towards renewable energy opportunities. We additionally are preparing and accommodating for increased manufacturing of our products. We are unable to realize the cost for opportunity at this time.

Comment

C3. Business Strategy

C3.1

(C3.1) Have climate-related risks and opportunities influenced your organization's strategy and/or financial planning?

Yes

C3.1a

(C3.1a) Does your organization use climate-related scenario analysis to inform its strategy?

No, but we anticipate using qualitative and/or quantitative analysis in the next two years

C3.1c

(C3.1c) Why does your organization not use climate-related scenario analysis to inform its strategy?

Climate related-scenario analysis has not been performed yet as Synaptics is still gathering the necessary data, information and tools needed to conduct the analysis. However, we anticipate performing a qualitative or quantitative evaluation of our climate-related risks and opportunities utilizing outside consultants in the near future implemented with guidance from the TCFD recommendations.

C3.1d

(C3.1d) 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	Synaptics is focused on developing very low power capabilities across our product lines from touch controllers to display drivers to our far-field voice and other solutions. To provide an example of the substantial strategic decision influenced by the climate-related risks and opportunities, Synaptics has developed touch controllers that are leading and cutting edge solutions as compared to other products in the market, and provide low latency low power solutions that enable these consumer electronics to lower their power consumption and hence reduce associated carbon emissions. Innovative techniques such as deep sleep mode, shutting off domains when not in use, finger/pen wake up, and low standby power are the hallmarks of the designs architected by Synaptics engineers.
Supply chain and/or value chain	Yes	Synaptics is constantly reviewing opportunities to minimize energy consumption in our office buildings, data centers and supplier facilities that manufacture our products. To provide an example of the substantial strategic decision influenced by the climate-related risks and opportunities, during 2018 we increased our data center temperature reducing electricity consumption. We are also ensuring our major suppliers are adopting environmental policies, developing a supplier questionnaire to ensure they have an environmental policy and framework in place. This is the initial step in our strategy to ensure we consider the environmental impact of our full value chain.
Investment in R&D	Yes	Synaptics is focused on developing very low power capabilities across our product lines from touch controllers to display drivers to our far-field voice and other solutions. To provide an example of the substantial strategic decision influenced by the climate-related risks and opportunities, Synaptics' EDGE SOC products ship out to a large number of customers that provide consumer solutions for home personal assistants which are voice activated. These solutions are typically operating in deep sleep, sipping on a very small amount of energy. Only when a keyword is detected from the user, that the chip is woken up to process and execute the voice command instructions from the user, such as setting the thermostat, or playing their favorite music. Since the hardware is in sleep mode for majority of the time, it results in substantial energy savings and help to reduce the carbon footprint of our multiple customers and their subsequent consumers.
Operations	Yes	Synaptics is constantly reviewing opportunities to minimize energy consumption in our office buildings, data centers and supplier facilities that manufacture our products. To provide an example of the substantial strategic decision influenced by the climate-related risks and opportunities, during 2019 we increased our data center temperature reducing electricity consumption and we converted to 45% renewable solar and wind energy at our San Jose headquarters. To encourage our employees to adopt a more environmentally responsible mindset, we provide e-vehicle charging free of charge to our employees at our largest office in San Jose, California.

C3.1e

(C3.1e) 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	Indirect costs Capital expenditures Capital allocation	Climate-related risks and opportunities have influenced Synaptics energy strategy, which is comprised of two major tenants, firstly, to reduce energy consumption in our offices and datacenters and, secondly as more and more renewable energy is brought online in California, to take advantage of the opportunity and adopt renewable energy sources. In past years we upgraded our air-conditioning and lighting systems to be more energy efficient. In 2019 we undertook a review of our global data center strategy with the objective of reducing the number of data centers and obtaining a better economy of scale and reduce energy consumption. We also began to move workloads to cloud data centers which are more energy efficient than our own. In looking at the opportunity now available to purchase renewable energy, Synaptics converted 45% of our San Jose headquarters power needs to renewable solar and wind power in 2019. Each year we review our environmental initiatives and incorporate the investment required (if any) and/or the savings expected. For example, in our planning for the next fiscal year, we are reviewing the financial impact of converting 100% of our San Jose headquarters power to renewable energy.

C3.1f

(C3.1f) Provide any additional information on how climate-related risks and opportunities have influenced your strategy and financial planning (optional).

In Synaptics' processes, mitigation of climate risk is integral to financial security, and hence the reputational risks and opportunities are identified first.

Specific process managers will then involve executives and the board to generate a viable solution. Synaptics is working to reduce energy consumption and our carbon footprint wherever possible. This includes capital investment to reduce electricity and natural gas usage, the use of recycled water and limiting business travel.

Synaptics energy strategy is comprised of two major tenants, firstly, to reduce energy consumption in our offices and datacenters and, secondly as more and more renewable energy is brought online in California, to take advantage of the opportunity and adopt renewable energy sources. In past years we upgraded our air-conditioning and lighting systems to be more energy efficient. In 2019 we undertook a review of our global data center strategy with the objective of reducing the number of data centers and obtaining a better economy of scale and reduce energy consumption. We also began to move workloads to cloud data centers which are more energy efficient than our own. In looking at the opportunity now available to purchase renewable energy, Synaptics converted 45% of our San Jose headquarters power needs to renewable solar and wind power in 2019. Each year we review our environmental initiatives and incorporate the investment required (if any) and/or the savings expected. For example, in our planning for the next fiscal year, we are reviewing the financial impact of converting 100% of our San Jose headquarters power to renewable energy.

C4. Targets and performance

C4.1

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

Intensity target

C4.1b

(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).

Target reference number

Int 1

Year target was set

2016

Target coverage

Site/facility

Scope(s) (or Scope 3 category)

Scope 2 (market-based)

Intensity metric

Metric tons CO2e per unit FTE employee

Base year

2016

Intensity figure in base year (metric tons CO2e per unit of activity)

0.6215743

% of total base year emissions in selected Scope(s) (or Scope 3 category) covered by this intensity figure

100

Target year

2020

Targeted reduction from base year (%)

10

Intensity figure in target year (metric tons CO2e per unit of activity) [auto-calculated]

0.55941687

% change anticipated in absolute Scope 1+2 emissions

19

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year (metric tons CO2e per unit of activity)

2.5824378

% of target achieved [auto-calculated]

-3154.67273984784

Target status in reporting year

Retired

Is this a science-based target?

No, but we anticipate setting one in the next 2 years

Please explain (including target coverage)

In 2016, Synaptics' only source data for Scope 2 emissions was from its San Jose, CA facility so the company chose to create targets solely for that facility. In 2019, Synaptics recalculated our Scope 1 and Scope 2 emissions to include all facilities and the 2019 intensity figures reflect those updated values. Synaptics will be setting new targets and goals around these revised values in the coming year.

Target reference number

Int 2

Year target was set

2016

Target coverage

Site/facility

Scope(s) (or Scope 3 category)

Scope 1

Intensity metric

Metric tons CO2e per unit FTE employee

Base year

2016

Intensity figure in base year (metric tons CO2e per unit of activity)

1.1259475

% of total base year emissions in selected Scope(s) (or Scope 3 category) covered by this intensity figure

100

Target year

2020

Targeted reduction from base year (%)

10

Intensity figure in target year (metric tons CO2e per unit of activity) [auto-calculated]

1.01335275

% change anticipated in absolute Scope 1+2 emissions

19

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year (metric tons CO2e per unit of activity)

0.04004245

% of target achieved [auto-calculated]

964.436663343539

Target status in reporting year

Retired

Is this a science-based target?

No, but we anticipate setting one in the next 2 years

Please explain (including target coverage)

In 2016, Synaptics' only source data for Scope 2 emissions was from its San Jose, CA facility so the company chose to create targets solely for that facility. In 2019, Synaptics recalculated our Scope 1 and Scope 2 emissions to include all facilities and the 2019 intensity figures reflect those updated values. Synaptics will be setting new targets and goals around these revised values in the coming year.

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

2019

Target coverage

Site/facility

Target type: absolute or intensity

Absolute

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Metric (target numerator if reporting an intensity target)

Percentage

Target denominator (intensity targets only)

<Not Applicable>

Base year

2019

Figure or percentage in base year

45

Target year

2020

Figure or percentage in target year

100

Figure or percentage in reporting year

45

% of target achieved [auto-calculated]

0

Target status in reporting year

New

Is this target part of an emissions target?

Int1

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain (including target coverage)

Synaptics has a target to purchase 100% renewable electricity for all operationally controlled facilities by 2020.

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	3	
To be implemented*	0	0
Implementation commenced*	0	0
Implemented*	2	900
Not to be implemented	0	

C4.3b

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

Initiative category & Initiative type

Transportation	Employee commuting
----------------	--------------------

Estimated annual CO2e savings (metric tonnes CO2e)

900

Scope(s)

Scope 3

Voluntary/Mandatory

Voluntary

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

38000

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

180000

Payback period

No payback

Estimated lifetime of the initiative

>30 years

Comment

The charging stations were placed into service at the time Synaptics moved on site. There is no monetary savings for Synaptics but savings for the employees that use the charging stations. The employees are realizing savings associated with fuel costs and energy costs associated with charging their vehicles at home. We estimate an emissions savings using the kWh of electricity consumed.

C4.3c

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

Method	Comment
Employee engagement	
Internal incentives/recognition programs	

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.

Level of aggregation

Group of products

Description of product/Group of products

Synaptics is the leading provider for touch controllers for smartphones, touchscreens in mobile, office and automotive applications. As we know, except in automobile, most of these devices are handheld. Even for plugged in devices, such as in automotive and office environments, the main energy consumption is in the display of these devices. Synaptics touch controllers are leading and cutting-edge solutions as compared to other products in the market, and provide low latency low power solutions that enable these consumer electronics to lower their power consumption and hence reduce associated carbon emissions. Innovative techniques such as deep sleep mode, shutting off domains when not in use, finger/pen wake up, and low standby power are the hallmarks of the designs architected by Synaptics engineers. These energy optimizations come at a significant effort and time investment, from the Synaptics engineering community, during the design phase of these chips. Maintaining superior performance while drawing as little power as possible enables Synaptics to position their products in the market and enables multitude of customers to lower their carbon footprint.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (Lower energy alternative to existing products)

% revenue from low carbon product(s) in the reporting year

% of total portfolio value

<Not Applicable>

Asset classes/ product types

<Not Applicable>

Comment

Due to the nature of the product we are unable to calculate specific revenue associated with the lower energy component of the product. But the product is a lower energy alternative to existing products.

Level of aggregation

Group of products

Description of product/Group of products

Displays are all around us. In our homes (TV, computer monitors, smartphones), outside (malls, shops, offices, in cars, etc). Synaptics creates enabling technologies that drive the functionality and operation of these displays. Synaptics DDIC (display driver integrated circuits) solutions enable efficient operation of these displays while the industry leading architecture ensures superior display performance while consuming as little energy as possible. Nowadays, displays come in various resolution and various refresh rate like 60 Hz, 90 Hz, and 120 Hz. Synaptics leads the market to deliver energy efficient solutions to drive the displays at all the frequencies of interest to the customer. We are also leading suppliers of both LCD and OLED DDIC solutions, which means that our solutions are found in displays used all over the world. This means that our energy efficient DDIC solutions are helping to reduce carbon footprint of devices, consumers and industries all around the world. Given the large number of companies that we ship our products to, our technology enables energy efficiency across multiple platforms and geographies. We actively use domain shutting by turning the LDO's, regulators, and power supplies ON and OFF, depending on whether they are being used or not. We also use voltage modulation of the power supplies, to deliver ON DEMAND performance of displays. If the performance required is higher, we can boost the circuit performance, while maintaining very low energy consumption levels when such a boost is not required or desired by the customer or end application.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (Lower energy alternative to existing products)

% revenue from low carbon product(s) in the reporting year**% of total portfolio value**

<Not Applicable>

Asset classes/ product types

<Not Applicable>

Comment

Due to the nature of the product we are unable to calculate specific revenue associated with the lower energy component of the product. But the product is a lower energy alternative to existing products.

Level of aggregation

Product

Description of product/Group of products

Synaptics EDGE SOC products ship out to a large number of customers that provide consumer solutions for home personal assistants which are voice activated. These solutions are typically operating in deep sleep, sipping on a very small amount of energy. Only when a keyword is detected from the user, that the chip is woken up to process and execute the voice command instructions from the user, such as setting the thermostat, or playing their favorite music. Since the hardware is in sleep mode for majority of the time, it results in substantial energy savings and help to reduce the carbon footprint of our multiple customers and their subsequent consumers. Even after waking up with the keyword, the chips designed by Synaptics have complex and efficient neural network engines and algorithms built into the local hardware, thereby enabling local processing and execution of command rather than having to send the instruction over the internet to the massive remote servers. This reduces the computation load on the servers and thereby reducing their energy consumption. As we know, these server farms and data centers require massive amounts of energy to cool down. Synaptics products enable reduction of this server demand by localizing the processing on the user/consumer device. In addition, the analog and digital circuits implemented on these chips are designed to keep the energy consumption low as compared to industry standards.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (Lower energy alternative to existing products)

% revenue from low carbon product(s) in the reporting year**% of total portfolio value**

<Not Applicable>

Asset classes/ product types

<Not Applicable>

Comment

Due to the nature of the product we are unable to calculate specific revenue associated with the lower energy component of the product. But the product is a lower energy alternative to existing products.

Level of aggregation

Group of products

Description of product/Group of products

Docking stations for laptops combine high speed SERDES interfaces along with complex logical functionality to support video and data interfaces including DisplayPort, USB3.1, HDMI, etc. Synaptics connectivity solutions for docking stations enable energy efficiency in the workspaces, both in office and home, thereby reducing the carbon footprint. The high speed interfaces, typically consisting of many channels each running from 1Gbps to 12 Gbps, can consume a lot of power. Synaptics design teams, incentivized by the management, keep the energy consumption at a minimum, as compared to industry standards, thereby reducing the carbon footprint of the consumer. These products use the lowest speeds and hence the smallest possible power necessary for system implementation of any particular display use case. Further when operating at lower speeds they are configured to reduce power consumption in the internal circuitry. The connectivity solutions also support video compression standards that allow reducing power consumption by reducing the video bandwidth without having any visually obvious impact on the quality of the display. There is also a wake on signal functionality enabled in these chips, which means that these chips are essentially in low power deep sleep mode when not in operation, which could be a majority of the time when a user is away from their workstation and monitor. By reducing power consumption in deep sleep state, the energy wasted, for example during night time in the office when these devices are connected to power but not in use is avoided. This avoids the energy waste, defined classically as "phantom" or "vampire" energy consumption.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (Lower energy alternative to existing products)

% revenue from low carbon product(s) in the reporting year

% of total portfolio value

<Not Applicable>

Asset classes/ product types

<Not Applicable>

Comment

Due to the nature of the product we are unable to calculate specific revenue associated with the lower energy component of the product. But the product is a lower energy alternative to existing products.

Level of aggregation

Product

Description of product/Group of products

Audio devices are prevalent everywhere. Synaptics provides low power automatic noise cancelling silicon chips for headsets. Our silicon enables significant energy savings, because these are typically powered from USBC/USB port, which can be on a battery powered cell phones, or plugged in laptops, wherein the chip is activated only when an audio stream or use condition is detected. Till such an event, the chip is essentially in deep sleep state, enabling not only energy savings, but also preserving and enhancing the battery life. As we know, disposing batteries safely is also a major energy event and all the steps should be taken to extend battery life as much as possible. During normal operation, our noise cancelling algorithms implemented in the hardware are state of the art, and optimized for minimum hardware state transitions for a given amount of data, thereby realizing in energy savings and reducing the carbon footprint of devices, even in active operation, for example, when a user is listening to music through the headset.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (Lower energy alternative to existing products)

% revenue from low carbon product(s) in the reporting year

% of total portfolio value

<Not Applicable>

Asset classes/ product types

<Not Applicable>

Comment

Due to the nature of the product we are unable to calculate specific revenue associated with the lower energy component of the product. But the product is a lower energy alternative to existing products.

Level of aggregation

Group of products

Description of product/Group of products

Synaptics provided fingerprint detection hardware and secure software for two factor authentication for logging into consumer devices such as laptops. Synaptics is also the leading provider of the touchpad in the laptop, which can be used as a substitute or in conjunction with an external discrete mouse. All the laptops have a touch pad in their hardware configuration. Just like other chips mentioned above, Synaptics used wake on technologies in these hardware solutions thereby resulting in significant energy savings. Even during normal operation, our algorithms and chip architecture are optimized and at par or lower than the industry vis a vis a particular performance level, as desired by the customer. All these enhancements and energy optimization are part of the workflow at Synaptics, and engineers and designers make a conscious effort to realize performance while keeping energy budgets of the hardware at very low levels.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (Lower energy alternative to existing products)

% revenue from low carbon product(s) in the reporting year

% of total portfolio value

<Not Applicable>

Asset classes/ product types

<Not Applicable>

Comment

Due to the nature of the product we are unable to calculate specific revenue associated with the lower energy component of the product. But the product is a lower energy alternative to existing products.

C5. Emissions methodology

C5.1

(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

Scope 1

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

66.03

Comment

Scope 2 (location-based)

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

4669.97

Comment

Scope 2 (market-based)

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

4258.44

Comment

C5.2

(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

ABI Energia Linee Guida

IEA CO2 Emissions from Fuel Combustion

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

US EPA Emissions & Generation Resource Integrated Database (eGRID)

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)

66.03

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

In 2019, we completed our first GHG inventory that included all operations under Synaptics direct control which included our natural gas utilization. As it is our first year of measurement, we understand that we will continue to develop framework to further refine our reporting and disclosure.

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

C6.3

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

Reporting year

Scope 2, location-based

4669.97

Scope 2, market-based (if applicable)

4258.44

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?

No

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, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Capital goods

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

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

Evaluation status

Not relevant, explanation provided

Metric tonnes 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

All fuel and energy related activities are underway to be included in our Scope 1 and 2 assessment, therefore this category is not applicable.

Upstream transportation and distribution

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Waste generated in operations

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Business travel

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Employee commuting

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Upstream leased assets

Evaluation status

Not relevant, explanation provided

Metric tonnes 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

Synaptics does not have any upstream leased assets, therefore this category is not applicable.

Downstream transportation and distribution

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Processing of sold products

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Use of sold products

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

End of life treatment of sold products

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Downstream leased assets

Evaluation status

Relevant, not yet calculated

Metric tonnes 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

Synaptics is currently reviewing the impacts of our operations on both our direct and indirect emissions. As our sustainability program continues to develop, we will be looking to further understand our Scope 3 emissions.

Franchises

Evaluation status

Not relevant, explanation provided

Metric tonnes 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

Synaptics does not have any franchises, therefore this is not applicable.

Investments

Evaluation status

Not relevant, explanation provided

Metric tonnes 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

In our business we do not hold significant investments that are not already included in our emissions reporting (in Scope 1 and 2).

Other (upstream)

Evaluation status

Not relevant, explanation provided

Metric tonnes 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

At this time Synaptics has not identified any additional upstream sources for Scope 3 impacts. We will continue to reassess this as we develop our internal sustainability program.

Other (downstream)

Evaluation status

Not relevant, explanation provided

Metric tonnes 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

At this time Synaptics has not identified any additional downstream sources for Scope 3 impacts. We will continue to reassess this as we develop our internal sustainability program.

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

No

C6.10

(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

0.0000035

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

4736

Metric denominator

unit total revenue

Metric denominator: Unit total

1357000000

Scope 2 figure used

Location-based

% change from previous year

0

Direction of change

No change

Reason for change

Synaptics used a more comprehensive dataset to calculate our 2019 Scope 1 and 2 location- and market-based emissions to ensure better accuracy. Emissions cannot be compared to the previous year since a market-based Scope 2 emission was previously used. No significant changes have been made to our facilities. We changed our base year to reflect this change as we plan to continue using more thorough information to calculate our emissions in the future.

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	65.96	IPCC Fifth Assessment Report (AR5 – 100 year)
CH4	0.03	IPCC Fifth Assessment Report (AR5 – 100 year)
N2O	0.03	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)
Armenia	0
United States of America	66.03
Taiwan, Greater China	0
Japan	0
India	0
China	0
Republic of Korea	0

C7.3

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

- By facility
- By activity

C7.3b

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

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Armenia	0	40.19685	44.7439
Atlanta, GA	0	33.98519	-84.2384
Austin, TX	0	30.25735	-97.8613
Bangalore, ID	0	12.92987	77.68484
Beijing, CN - Wangjing	0	39.988505	116.473659
Beijing, CN - Yizhuang	0	39.780549	116.51825
Chengdu, CN	0	30.551306	104.07068
Hong Kong, CN	0	22.30242	114.1917
Hsinchu, TW	0	24.83469	120.9934
Hyderabad, ID	0	18.11244	79.0193
Irvine, CA	5.04	33.68325	-117.834
Nakano, JP	0	35.70568	139.6694
San Jose, CA	60.99	37.3903	-121.896
Seoul, KR	0	37.507667	127.058098
Shanghai, CN - Pudong	0	31.204639	121.588869
Shanghai, CN - Puxi (not the e-suite)	0	31.208814	121.403859
ShenZhen, CN	0	22.53301	113.9305
Taipei, TW - BenQ	0	25.080962	121.564743
Taipei, TW - Tiding	0	25.082846	121.561659
Waltham, MA	0	42.39711	-71.2599

C7.3c

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

Activity	Scope 1 emissions (metric tons CO2e)
Office/R&D	66.03

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)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted for in Scope 2 market-based approach (MWh)
Armenia	12	12	75.21	0
United States of America	1816.95	1405.42	7006.25	2154.5
Taiwan, Greater China	817.85	817.85	1306.05	0
Japan	756.36	756.36	1442.34	0
India	340.99	340.99	471.7	0
China	808.08	808.08	1289.62	0
Republic of Korea	117.75	117.75	218.25	0

C7.6

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

- By facility
- By activity

C7.6b

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

Facility	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Armenia	12	12
Atlanta, GA	447.4	471.61
Austin, TX	0.89	0.96
Bangalore	292.18	292.18
Beijing, CN - Wangjing	14.92	14.92
Beijing, CN - Yizhuang	7.86	7.86
Chengdu, CN	95.43	95.43
Hong Kong, CN	28.74	28.74
Hsinchu, TW	298.1	298.1
Hyderabad, ID	48.81	48.81
Irvine, CA	142.35	150.67
Nakano, JP	756.36	756.36
San Jose, CA	1222.47	778.12
Seoul, KR	117.75	117.75
Shanghai, CN - Pudong	326.73	326.73
Shanghai, CN - Puxi (not the e-suite)	35.19	35.19
ShenZhen, CN	299.2	299.2
Taipei, TW - BenQ	191.47	191.47
Taipei, TW - Tiding	328.28	328.28
Waltham, MA	3.85	4.07

C7.6c

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

Activity	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Office/R&D	4669.97	4258.44

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?

Decreased

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	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Other emissions reduction activities	697	Decreased	14	Synaptics used a more comprehensive dataset to calculate our 2019 Scope 1 and 2 location- and market-based emissions to ensure better accuracy. Emissions are shown to have decreased by 14% as a result of these activities. We changed our base year to reflect this change as we plan to continue using more thorough information to calculate our emissions in the future. The gross global emissions (Scope 1 + 2 market-based) of Synaptics for this reporting year are 4,324 metric tons of CO2e. Our gross global emissions for the previous reporting year were 5,021 metric tons of CO2e. This means that the total change in emissions is 697 metric tons of CO2e, equal to a 14% decrease, according to the formula in the explanation of terms, above: $(697/5,021) * 100 = 14\%$.
Divestment	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Acquisitions	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Mergers	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Change in output	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Change in methodology	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Change in boundary	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Change in physical operating conditions	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Unidentified	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.
Other	0	No change	0	As this is our first year of calculating an emissions inventory, no change can be identified.

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)	No
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	Yes
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	No

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)	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired electricity	<Not Applicable>	2154.5	9654.92	11809.42
Consumption of purchased or acquired heat	<Not Applicable>	0	3642.59	3642.59
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Total energy consumption	<Not Applicable>	2154.5	13297.51	15452

C8.2e

(C8.2e) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a zero emission factor in the market-based Scope 2 figure reported in C6.3.

Sourcing method

Power purchase agreement (PPA) with a grid-connected generator with energy attribute certificates

Low-carbon technology type

Low-carbon energy mix

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

United States of America

MWh consumed accounted for at a zero emission factor

2154.5

Comment

Synaptics entered into an agreement with GreenSource beginning February 2019. The contract specifies that Synaptics procured energy that is 45% renewable for our San Jose, California facility.

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	No third-party verification or assurance
Scope 2 (location-based or market-based)	No third-party verification or assurance
Scope 3	No third-party verification or assurance

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?

No, we do not verify any other climate-related information reported in our CDP disclosure

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?

No

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

C12.1a

(C12.1a) Provide details of your climate-related supplier engagement strategy.

Type of engagement

Information collection (understanding supplier behavior)

Details of engagement

Collect climate change and carbon information at least annually from suppliers

% of suppliers by number

100

% total procurement spend (direct and indirect)

57

% of supplier-related Scope 3 emissions as reported in C6.5

Rationale for the coverage of your engagement

Synaptics collects data from all of our direct suppliers to better inform on our supplier's behavior with climate-related metrics.

Impact of engagement, including measures of success

Synaptics uses this data to identify potential future opportunities, measures of success include identifying efficiency updates that can be made or collaborations with suppliers on climate related issues. For a company-specific example, Synaptics developed a Supplier Climate Change Questionnaire, that determines if the supplier has implemented ISO14001 or a Climate Change, Green House Gas (GHG) reduction strategy and whether a program is in place to measure the reduction of GHG's over time.

Comment

C12.3

(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?

No

C12.3g

(C12.3g) Why do you not engage with policy makers on climate-related issues?

Synaptics does not engage with policy makers at this time as we are not intensive energy users and we are still developing our understanding of the impact we have on climate-related issues. As we develop that understanding we will evaluate the need for external engagement with policy makers, government departments, or regulatory bodies on a regional, local, national, or international level as appropriate.

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 voluntary communications

Status

Complete

Attach the document

Synaptics_corporate-environmental-policy.pdf

Page/Section reference

1

Content elements

Governance

Strategy

Comment

Synaptics recognizes the importance of being a "Green Partner" in protecting and maintaining the quality of the environment as an integral part of the company's business operations and is committed to environmental responsibility in the conduct of its business. We acknowledge our responsibility to ensure that our products and services are provided in an environmentally responsible, safe and sound manner. We also have corporate policies for providing a safe and healthful workplace while conserving energy and promoting recycling and reuse programs to conserve natural resources. We have voluntarily communicated these positions in our corporate environmental policy which is publicly available on our website.

C15. 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.

C15.1

(C15.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Corporate Vice President, Information Technology and Chief Information Officer	Other C-Suite Officer

SC. Supply chain module

SC0.0

(SC0.0) If you would like to do so, please provide a separate introduction to this module.

Synaptics is a global leader and pioneer of human interface solutions, engineering innovative solutions that enable people to interact more easily and intuitively with a wide range of technologies, including smartphones, smart home devices, PCs, television peripherals, automotive, headsets, and AR/VR. We enable what you touch, hear, say and see through our advanced processors, SoCs, ICs DSPs, and enriched software technologies.

Synaptics is based in San Jose, California, with over 20 locations worldwide, and over 1,700 employees, most of which (+70%) are in engineering roles. Synaptics is public company listed on the Nasdaq stock exchange since its IPO in 2002 and owns a growing portfolio of more than 1800 patents.

Synaptics was founded in 1986 by industry luminaries Federico Faggin and Carver Mead to commercialize their ideas around building silicon that computes as effectively as the human brain, duplicating the brain's neural network onto computer chips. Blending synapse, the junction where impulses are transmitted, with electronics, the "Synaptics" name was born. Their vision catalyzed some of the most innovative products on the market today, such as the notebook PC touchpad; the capacitive touch phone; and the capacitive-touchscreen phone. Additional Synaptics milestones include the acquisitions of Validity Sensors (i.e., biometric fingerprint technology); Renesas SP Drivers (i.e., display driver technology); and Conexant, allowing Synaptics to diversify its markets. Synaptics continues to manufacture innovative technology, with the recent development of AI technology in Smart Edge products.

Through it all, Synaptics encourages its employees to cultivate a passion to make a difference in our world by contributing their time or talent to support worldwide organizations and causes. This includes participating in organized beach and city streets cleanups, helping hands for housing for humanity, hosting bike-to-work day energizer stations, judging local elementary schools STEAM Fairs, sponsoring the Silicon Valley Turkey Trot, walking the walk at the American Cancer Society Making Strides for Breast Cancer events, and even supporting orphanages in the Philippines – all to which the company and its passionate employees have donated countless hours and serious financial donations.

Synaptics also believes that diversity drives innovation, and its popular WIN program (Women in Network) has a mission to instill a sense of unity amongst the women of Synaptics. To create a space where women can connect on a personal and professional level, offering encouragement, support and inspiration to thrive in the company and beyond.

Synaptics recognizes the importance of being a "Green Partner" by protecting and maintaining the quality of the environment as an integral part of the company's business operations and is committed to environmental responsibility in the conduct of its business. Synaptics strives to develop, manufacture, and market products that are safe for their intended use, efficient in their use of energy, are lead-free and protective of the environment. Our environmental policy encourages reuse and recycling of materials, purchasing products made from recycled materials, using recyclable packaging and other materials to conserve natural resources, and maintain recycling and reuse stations at its facilities where relevant. Synaptics also encourages disposing of end-of-life products in an environmentally safe and responsible manner.

Synaptics ignited the human interface revolution. Our products are built on the company's storied research and development, extensive intellectual property and global partnerships. With solutions designed to optimize the human/machine user experience we combine ease of use, functionality and aesthetics to enable our customers products make users' digital lives more productive, secure and enjoyable.

SC0.1

(SC0.1) What is your company's annual revenue for the stated reporting period?

	Annual Revenue
Row 1	1357000000

SC0.2

(SC0.2) Do you have an ISIN for your company that you would be willing to share with CDP?

Yes

SC0.2a

(SC0.2a) Please use the table below to share your ISIN.

	ISIN country code (2 letters)	ISIN numeric identifier and single check digit (10 numbers overall)
Row 1	US	87157D1090

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.

Requesting member

Alphabet, Inc.

Scope of emissions

Scope 1

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

3.04

Uncertainty (±%)

Major sources of emissions

Verified

Please select

Allocation method

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Requesting member

Alphabet, Inc.

Scope of emissions

Scope 2

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

195.89

Uncertainty (±%)

Major sources of emissions

Verified

Please select

Allocation method

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

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
-----------------------	--

SC1.4

(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

Yes

SC1.4a

(SC1.4a) Describe how you plan to develop your capabilities.

In the future we will look to develop an inventory management plan so we can better understand the energy use of our processes.

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?

No

SC3.1

(SC3.1) Do you want to enroll in the 2020-2021 CDP Action Exchange initiative?

No

SC3.2

(SC3.2) Is your company a participating supplier in CDP's 2019-2020 Action Exchange initiative?

No

SC4.1

(SC4.1) Are you providing product level data for your organization's goods or services?

No, I am not providing data

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I am submitting to	Public or Non-Public Submission	Are you ready to submit the additional Supply Chain Questions?
I am submitting my response	Customers	Public	<Not Applicable>

Please confirm below

I have read and accept the applicable Terms