Information & Communications Technology

Introduction to the module

These questions are designed to apply to information technology and telecommunications companies. Other companies who feel that this module is relevant for them can choose to complete it voluntarily. This module should be completed alongside the core modules of the climate change questionnaire. The questions have been developed based on extensive consultation with ICT companies, investor organizations, consultancies, policy makers and other experts in greenhouse gas accounting.

Please see the guidance for detailed information about the definitions included in this module and how to answer the questions, which are summarized below:

ICT0   **Determine business composition** (all companies)

ICT1   **Data center activities** (organizations that have identified "data centers" as part of their boundary only)

ICT2   **Provision of network/connectivity services** (organizations that have identified "provision of network/connectivity services" as part of their boundary only)

ICT3   **Manufacture or assembly of hardware/components** (organizations that have identified "manufacture or assembly of hardware/components" as part of their boundary only)

ICT4   **Manufacture of software** (organizations that have identified "manufacture of software" as part of their boundary only)

ICT5   **Business services (office based activities)** (organizations that have identified "business services (office based activities)" as part of their boundary only)

ICT6   **Other activities** (organizations that have identified "Other" as part of their boundary only)

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ICT0   Determine business composition

ICT0.1   Please identify the significant components of your business within your reporting boundary (select all that apply)

- Data centers
- Provision of network/connectivity services
- Manufacture or assembly of hardware/components
- Manufacture of software
- Business services (office based activities)
- Other

Companies are only asked to respond to questions on the significant activities that fall within their reporting boundary, as identified in response to Question ICT0.1.

ICT1   Data center activities

ICT1.1   Please provide a description of the parts of your business that fall under "data centers"

ICT1.2   Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the data centers component of your business

Business activity	Scope 1 emissions (metric tonnes CO_2e)	Scope 2 emissions (metric tonnes CO_2e)	Annual electricity consumption (MWh)	Electricity data collection method	Comment
Data centers					

When responding to the ICT module, companies are only required to provide one Scope 2 figure. Please use the 'Comment' field in all ICT questions where Scope 2 emissions are required to disclose whether you have used a location-based or market-based figure.

ICT1.3:   What percentage of your ICT population sits in data centers where Power Usage Effectiveness (PUE) is measured on a regular basis?

Percentage	Comment

ICT1.4   Please provide a Power Usage Effectiveness (PUE) value for your data center(s). If you have more than one data center, you can provide this information as (a) an average, (b) a range or (c) by individual data center – please tick the data you wish to provide (tick all that apply)

▩ Average

▩ Range

▩ Individual data center

In each case, respondents are asked to provide the PUE value, percentage change from previous year and direction of change. A comment column is also included to allow companies to provide additional context.

ICT1.5   Please provide details of how you have calculated your PUE value

ICT1.6   Do you use any alternative intensity metrics to assess the energy or the emissions performance of your data center(s)?

If yes: ICT1.6a Please provide details on the alternative intensity metrics you use to assess the energy or the emissions performance of your data center(s)

ICT1.7   Please identify the measures you are planning or have undertaken in the reporting year to increase the energy efficiency of your data center(s)

Status in reporting year	Energy efficiency measure	Comment

ICT1.8   Do you participate in any data center efficiency schemes or have buildings that are sustainably certified or rated?

If yes: ICT1.8a Please provide details on the data center efficiency schemes you participate in or the buildings that are sustainably certified or rated

ICT1.9   Do you measure the utilization rate of your data center(s)?

If yes: ICT1.9a What methodology do you use to calculate the utilization rate of your data center(s)?

ICT1.10   Do you provide carbon emissions data to your clients regarding the data center services they procure?

If yes: ICT1.10a How do you provide carbon emissions data to your clients regarding the data center services they procure?

ICT1.11   Please describe any efforts you have made to incorporate renewable energy into the electricity supply to your data center(s) or to re-use waste heat

ICT2   **Provision of network/connectivity services**

ICT2.1   Please provide a description of the parts of your business that fall under "provision of network/connectivity services"

ICT2.2   Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the provision of network/connectivity services component of your business

Business activity	Scope 1 emissions (metric tonnes CO_2e)	Scope 2 emissions (metric tonnes CO_2e)	Annual electricity consumption (MWh)	Electricity data collection method	Comment
Provision of network/connectivity services					

ICT2.3   Please describe your gross combined Scope 1 and 2 emissions or electricity use for the provision of network/connectivity services component of your business as an intensity metric

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change	Comment

ICT2.4   Please explain how you calculated the intensity figures given in response to Question ICT2.3

ICT2.5   Do you provide carbon emissions data to your clients regarding the network/connectivity services they procure?

       If yes: ICT2.5a How do you provide carbon emissions data to your clients regarding the network/connectivity services they procure?

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ICT3   **Manufacture or assembly of hardware/components**

ICT3.1   Please provide a description of the parts of your business that fall under "manufacture or assembly of hardware/components"

ICT3.2   Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the manufacture or assembly of hardware/components part of your business

Business activity	Scope 1 emissions (metric tonnes CO_2e)	Scope 2 emissions (metric tonnes CO_2e)	Annual electricity consumption (MWh)	Electricity data collection method	Comment
Manufacture or assembly of hardware/components					

ICT3.3   Please identify the percentage of your products meeting recognized energy efficiency standards/specifications by sales weighted volume (full product range)

ICT3.4   Of the new products released in the reporting year, please identify the percentage (as a percentage of all new products in that product type category) that meet recognized energy efficiency standards/specifications

For each question companies are asked to specify the relevant standard for each product type and the percentage of products meeting that standard in sleep, standby and in use mode. An additional comment column is available for extra context.

Companies should only complete this question for product types that form a significant part of their manufacturing business

ICT3.5   Please describe the efforts your organization has made to improve the energy efficiency of your products

ICT3.6   Please describe the GHG emissions abatement measures you have employed specifically in your ICT manufacturing operations

ICT3.7   Do you provide carbon emissions data to your clients regarding the hardware/component products they procure?

If yes: ICT3.7a How do you provide carbon emissions data to your clients regarding the hardware/component products they procure?

ICT4   Manufacture of software

ICT4.1   Please provide a description of the parts of your business that fall under "manufacture of software"

ICT4.2   Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the software manufacture component of your business

Business activity	Scope 1 emissions (metric tonnes CO_2e)	Scope 2 emissions (metric tonnes CO_2e)	Annual electricity consumption (MWh)	Electricity data collection method	Comment
Manufacture of software					

ICT4.3   Please describe your gross combined Scope 1 and 2 emissions for the software manufacture component of your business in metric tonnes CO_2e per unit of production

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change	Comment
	metric tonnes CO_2e	Unit of production				

ICT4.4   What percentage of your software sales (by volume) is in an electronic format?

ICT4.5   Do you provide carbon emissions data to your clients regarding the software products they procure?

    If yes: ICT4.5a How do you provide carbon emissions data to your clients regarding the software products they procure?

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ICT5   Business services (office based activities)

ICT5.1   Please provide a description of the parts of your business that fall under "business services (office based activities)"

ICT5.2   Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the business services (office based activities) component of your business

Business activity	Scope 1 emissions (metric tonnes CO_2e)	Scope 2 emissions (metric tonnes CO_2e)	Annual electricity consumption (MWh)	Electricity data collection method	Comment
Business services					

ICT5.3   Please describe your gross combined Scope 1 and 2 emissions for the business services (office based activities) component of your business in metric tonnes CO_2e per square meter

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change	Comment
	metric tonnes CO_2e	square meter				

ICT5.4   Please describe your electricity use for the provision of business services (office based activities) component of your business in MWh per square meter

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change	Comment
	MWh	square meter				

ICT6   **Other activities**

ICT6.1   Please provide a description of the parts of your business that fall under "other"

ICT6.2   Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the identified other activity component of your business

Activity	Scope 1 emissions (metric tonnes CO_2e)	Scope 2 emissions (metric tonnes CO_2e)	Annual electricity consumption (MWh)	Electricity data collection method	Comment

ICT6.3   Please describe your gross combined Scope 1 and 2 emissions for your defined additional activity using an appropriate activity based intensity metric

Activity	Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change	Comment
		metric tonnes CO_2e					

ICT6.4   If appropriate, please describe your electricity use for your defined additional activity using an appropriate activity based intensity metric

Activity	Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change	Comment
		MWh					