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Supply Chain Sustainability Program
GHG Emissions Calculations Webinar

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Supplier Greenhouse Gas Emission Program

Flex has adopted greenhouse gas emissions reduction targets necessary to meet the Paris agreement goals, limiting global warming to 1.5°C above preindustrial levels.

Flex approach

2025

50% of our 'Preferred Suppliers' will set their own GHG emissions reduction targets

2030

100% of our 'Preferred Suppliers' will set their own GHG emissions reduction targets

In order to support Flex's 2030 goals, the supplier sustainability team launched a GHG emission reduction program with our preferred suppliers and in partnership with CDP (formerly known as the Carbon Disclosure Project) to help us achieve our GHG emission reduction goals.

Since January 2023, to remain in the PSP, suppliers will be required to commit to have an emissions reduction target within 3 years from the approval date in the PSP

Commitment from our CEO

Revathi Advaithi, CEO, Flex

Sustainability, including environmental, social and corporate governance (ESG), has long been the bedrock of Flex operations. Now more than ever, it's important for us to do our part and contribute to a sustainable future.

As we aim to become the most trusted partner in manufacturing, we have a responsibility to not only deliver on our stakeholders' expectations but to do so in a sustainable manner. We are well-positioned to deepen our sustainability commitment by building on our investments and experiences of years past. To this end, we are working toward:

- our most ambitious goals yet with a timeline to meet them by 2030
- commitment to net-zero by 2040
- continue working towards Science Based Targets initiative
- commit that 50% of our 'Preferred Suppliers' will set their own GHG emissions reduction targets by 2025 and 100% by 2030

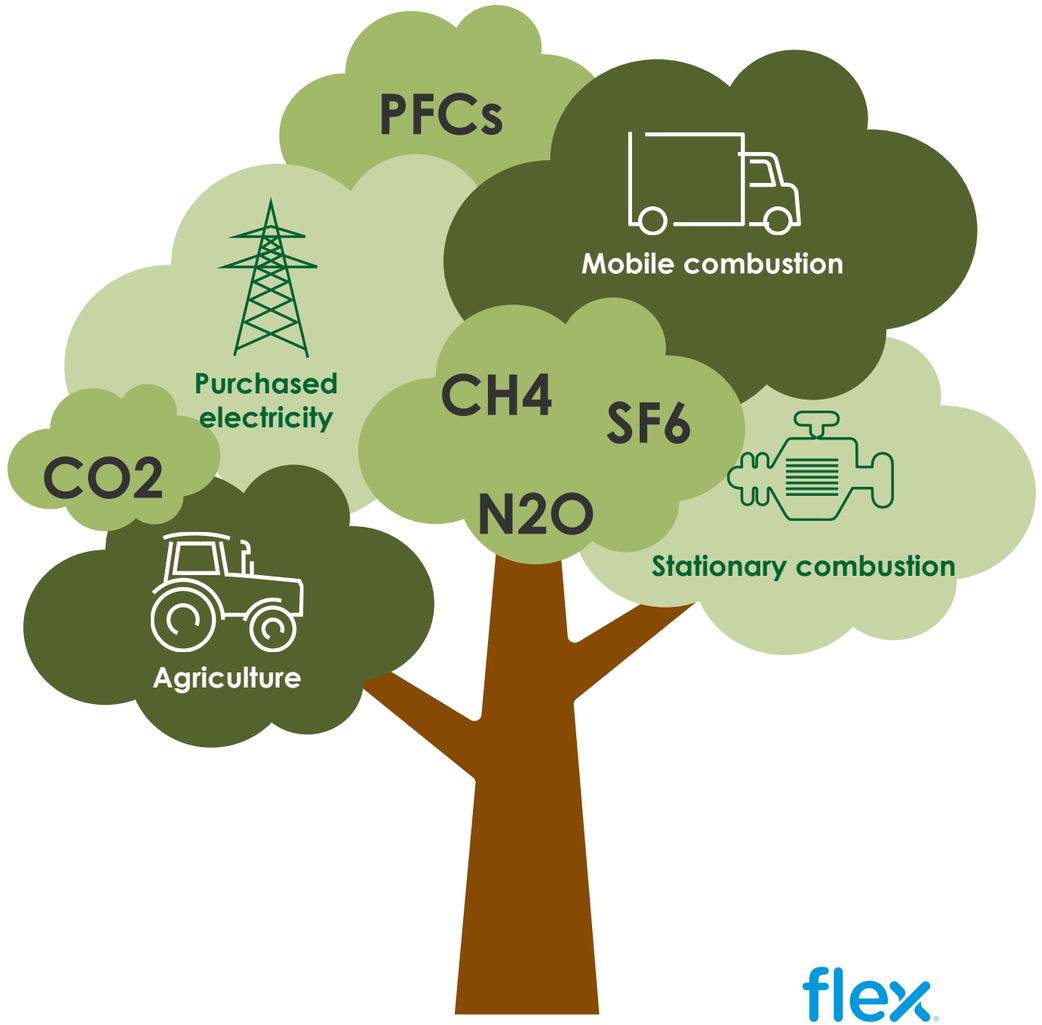
Greenhouse Gas Emissions

Greenhouse Gas Emissions

Greenhouse gases (GHG) are trap heat from the sun that warm the planets surface, creating a greenhouse effect and allowing life on earth

Primary sources of GHG emissions are the burning of fossil fuels for electricity, heat and transportation; and even land-use change, or agriculture

Some examples of greenhouse gases:

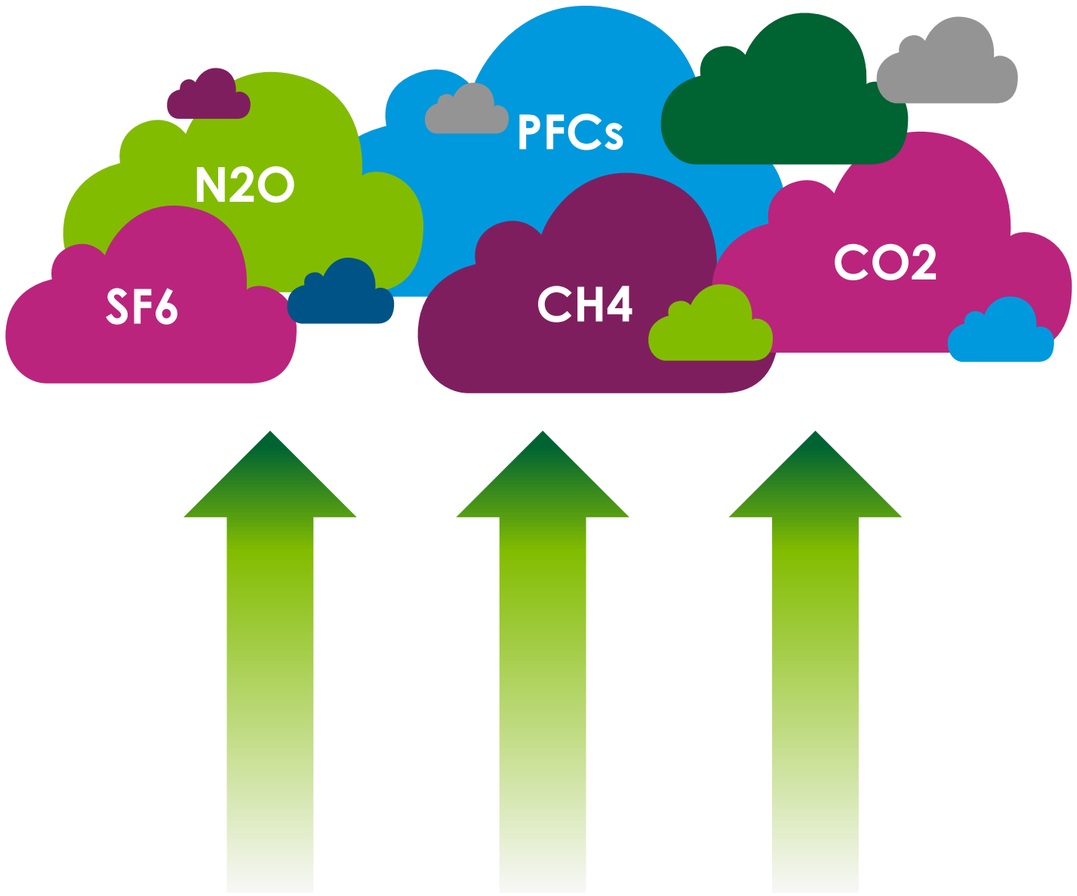


CO_2 : Carbon dioxide / SF: Sulphur hexafluoride / CH_4 : one atom of carbon and four atoms of hydrogen / N_2O: Nitrous oxide (laughing gas)

GHG Emissions Scopes

Scope 1

Direct emissions from fuel combustion and refrigerant leakage from company's owned facilities and vehicles and on-site manufacturing.



Scope 2

Indirect emissions from the purchase of electricity, steam, heat, and cooling.

Scope 3

Indirect emissions from a company´s value chain (e.g., purchased goods and services, use of sold products, suppliers).

Greenhouse Gas Emission Reduction Activities

SCOPE 1	Low-carbon energy generation	Solar panels, solar lamps, wind turbines
	Transportation vehicle effiiciency	Smart route programming, hybrid and electric fleet
	Fugitive emissions reduction	Refrigerant replacement, maintenance of leaks and abatement of PFCs
SCOPE 2	Low-carbon energy consumption	Procurement of renewable energy and attributes
	Energy efficiency in buildings	Building controls, insulation and maintenance program
	Energy efficiency in processes	Equipment replacement, heat recovery systems, pressure system enhancement
SCOPE 3	Waste reduction	No paper and disposables policy
	Material reuse and recycling	Usage of circular plastic
	Company behavioral changes	Reduction of office space due to home office

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GHG Questionnaires Overview

2025 GHG Questionnaires

CDP QUESTIONNAIRE

Start date: June 2025
Deadline: Sep 2025

FLEX SUSTAINABILITY SURVEY

Start date: June 2025
Deadline: Sep 2025

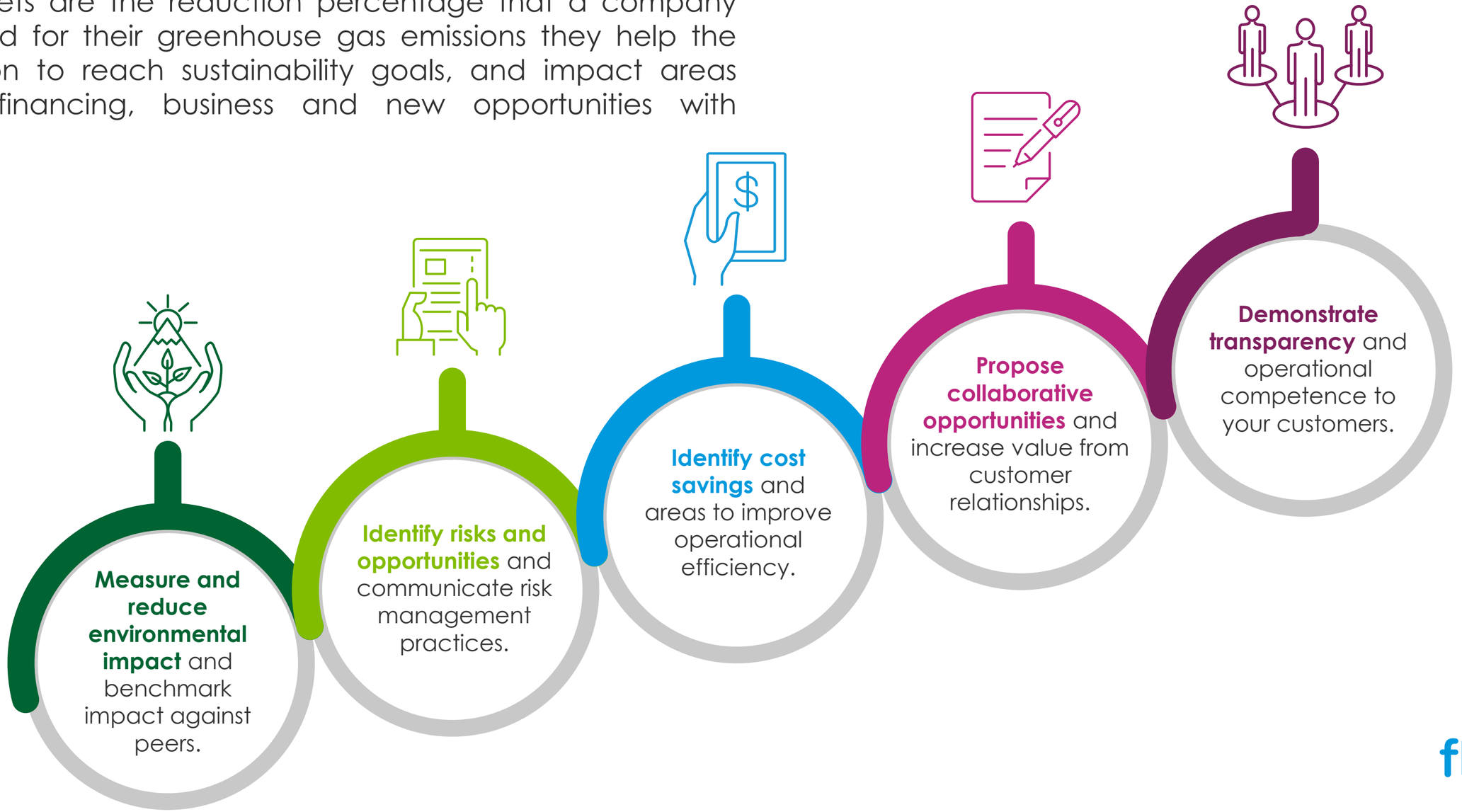
RBA – EMISSIONS MANAGEMENT TOOL

Start date: TBD
Deadline: TBD

Note: You only need to answer 1 questionnaire, that Flex will assign to you.

Importance of Setting Emissions Reduction Targets

These targets are the reduction percentage that a company has defined for their greenhouse gas emissions they help the organization to reach sustainability goals, and impact areas such as financing, business and new opportunities with customers.



GHG Program Preferred Suppliers' Impact

$2.375

Billion USD*

Of savings from suppliers' emissions reduction initiatives

179.5

Million Metric tons CO2e*

Of GHG emissions were reduced by suppliers from 2020-2024

96.89

Million homes**

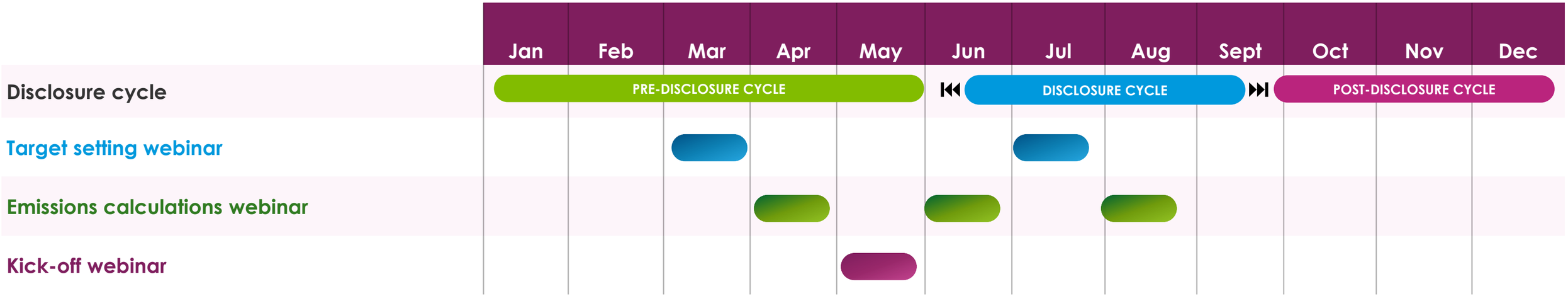
Could be powered with zero emission energy with the reductions reported by our suppliers from 2020-2024

*As reported by Flex suppliers on CDP from 2020 to 2024

**With the contribution of 330 watts peak

2025 Timeline

2025 GHG Program Timeline



⏮ *Sustainability questionnaire **launch***

⏭ *Sustainability questionnaire **closure***

Webinar dates:

- ***Target setting***
  AME & EU: **March 11th**
  Asia EN: **March 12th**
  Asia CH: **March 13th**

- ***GHG emissions***
  1st AME & EU: **April 8th**
  1st Asia EN: **April 9th**
  1st Asia CH: **April 10th**

- **Kick-off**
  AME & EU: **May 13th**
  Asia EN: **May14th**
  Asia CH: **May 15th**

- ***GHG emissions***
  2nd AME & EU: **June 17th**
  2nd Asia EN: **June18th**
  2nd Asia CH: **June 19th**

- ***Target setting***
  1st AME & EU: **July 15th**
  1st Asia EN: **July 16th**
  1st Asia CH: **July 17th**

- ***GHG emissions***
  3rd AME-EU: **August 12th**
  3rd Asia EN: **August 13th**
  3rd Asia CH: **August 14th**

Personalized sessions
During all disclosure cycle

- **Pre-disclosure**
  Flex invitation to suppliers
- **Disclosure**
  Supplier fill-in and submit the questionnaire
  Webinars from Flex to support suppliers in their disclosure
- **Post-disclosure**
  Discuss results with suppliers and send feedback, and hold suppliers accountable for on-going improvement
  Work with suppliers to explore collaborative opportunities
  Suppliers continue their environmental journey

flex		CDP		Responsible Business Alliance Advancing Sustainability Globally	flex
	Target Question	**Full Questionnaire**	**SME Questionnaire**	**RBA EMT Section**	**Flex Sustainability Survey**
1	GHG Emissions reduction target(s)	7.53.1 and / or 7.53.2	20.16.1 and / or 20.16.2	[Targets]	GHG Emissions Reduction Targets Question: 14-20 and / or 21-27
2	Renewable energy target	7.54.1	20.16.3	NA	Renewable Energy Targets Question: 37-41
3	Emissions reduction initiatives	7.55, 7.55.1 & 7.55.2	20.17	[Emissions initiatives]	Sustainability initiatives Question: 45-48
4	Methodology for emissions calculations	7.2	20.2	[Company information]	GHG Emissions Data Question: 13
5	Base year information	7.5	20.4, 20.5 & 20.7	[Company information]	GHG Emissions Reduction Targets Question: 19 & 26
6	Scope 1 emissions	7.6	20.1 & 20.3.1. – Select Scope 1 20.4 – Scope 1	[Scope 1]	GHG Emissions Data Question: 6 & 7
7	Scope 2 Methodology (LB / MB)	7.3	20.1 & 20.3.1. – Select Scope 2 20.5 – Scope 2	[Scope 2]	GHG Emissions Data Question: 8
8	Scope 2 Emissions	7.7	20.1 & 20.3.1. – Select Scope 3 20.7 – Scope 3	[Scope 2]	GHG Emissions Data Question: 9 & 10
9	Scope 3 emissions (optional)	7.8	20.3.1	[Scope 3]	GHG Emissions Data Question: 11 & 12
10	Renewable & Non renewable energy consumption and usage totals	7.30, 7.30.1, 7.30.6 & 7.30.7	20.15	[Energy reporting]	Energy Data Question: 29-36
11	GHG Emissions allocation	7.26	20.12	NA	Emissions Allocation Question: 54, 55 & 56

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Target Questions

Target Questions:
Greenhouse Gas Emissions Data

Reporting emissions is **best practice** and a pre-requisite to understanding and reducing negative environmental impacts.

Target Questions: Emissions methodology

- Provide your base year and base year emissions (scopes 1 and 2).
- Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate scope 1 and scope 2 emissions.

Target Questions: Emissions data

- Scope 1 and scope 2 GHG emissions
- Account for your scope 3 GHG emissions
- Provided an emissions intensity figure

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Target Questions:
Targets and Performance

Target setting provides direction and structure to environmental strategy. Providing information on quantitative targets and qualitative goals, and progress made against these targets, can demonstrate your organization's commitment to improving climate-related issues management at a corporate level. It also **helps Flex understand your ambition levels for reducing your greenhouse gas emissions in the future**.

Target Questions: Emissions targets

- Details on GHG emissions targets (absolute and/or intensity)

Target Questions: Other climate-related targets

- Provide details of your target(s) to increase low-carbon energy consumption or production including renewable energy targets
- Provide details of any other climate-related targets

Target Questions: Emissions reduction initiatives

- Details on GHG emissions reduction initiatives

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Target Questions:
Greenhouse Gas Emissions Allocation & Energy Usage

Emissions located in the supply chain are around four times as high as those from direct operations. **Allocating your emissions provides further context to buyers** regarding the procedures adopted and/or actions taken by their suppliers.

Target Questions: Energy

- Report which energy-related activities your organization has undertaken and the consumption that comes from renewable sources
- Report energy consumption accounted for at a zero or near-zero emission factor in the market-based Scope 2

Target Questions: Supply chain

- Allocate emissions to Flex, describe challenges, and reporting capabilities
- Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate scope 1 and scope 2 emissions.

Your responses to the Supply Chain module are visible only to Flex regardless of whether you elect to make your CDP response private or public.

Target Questions: Allocating your Emissions to your Customers

Allocate based on the proportion of total revenue represented by Flex

Formula for allocating emissions to Flex based on revenue

$$\text{Allocated GHG Emissions} = \frac{\text{Revenue of products/services purchased by Flex}}{\text{Total revenue of products/services produced}} \times \text{Total GHG Emissions for Scope 1 or Scope 2}$$

Working example of allocating emissions to Flex based on revenue

$$\text{250 metric tons of } CO2_e \text{ allocated to Flex} = \frac{\text{US\$500,000 revenue from Flex}}{\text{US\$200,000,000 total revenue}} \times \text{100,000 tons of } CO2_e \text{ (Company-wide Scope 1 GHG emissions)}$$

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GHG Calculation Case Study

GHG Calculations Case Study

Company A is an international distributor, they have 2 physical locations in Guadalajara, México and California, USA as well as a **subsidiary company** (Company B) that has 1 location, in Zhuhai, China . They also have a fleet of vehicles they use on their daily operations.

In order to avoid double accounting of emissions, best practice is to have calculations and reporting done in a global-corporate level, so Company B will be considered as a subsidiary site of Company A.

Company	Location
A	California, USA
A	Guadalajara, México
B	Zhuhai, China

Identifying your Emission Sources (operational boundary)

Energy sources from companies can be sorted into **direct** and **indirect emissions.** For reporting purposes, these are defined in the GHG Protocol as **Scope 1** and **Scope 2** emissions.

Company A identified the following sources of energy on their daily operations:

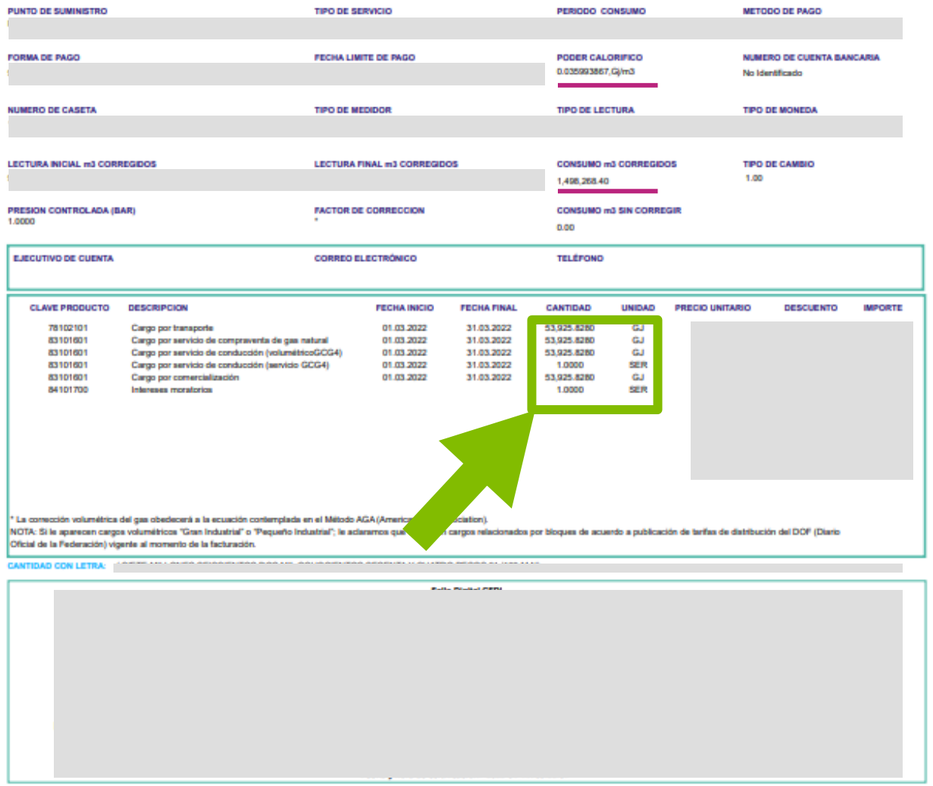
Direct sources (SCOPE 1)	Indirect sources (SCOPE 2)
• Fuel for their fleet of trucks • Fuel from business travel in the company-owned vehicles • Water heater in the buildings • Forklifts	• Electricity usage in their locations

Required Materials for Calculations (examples)

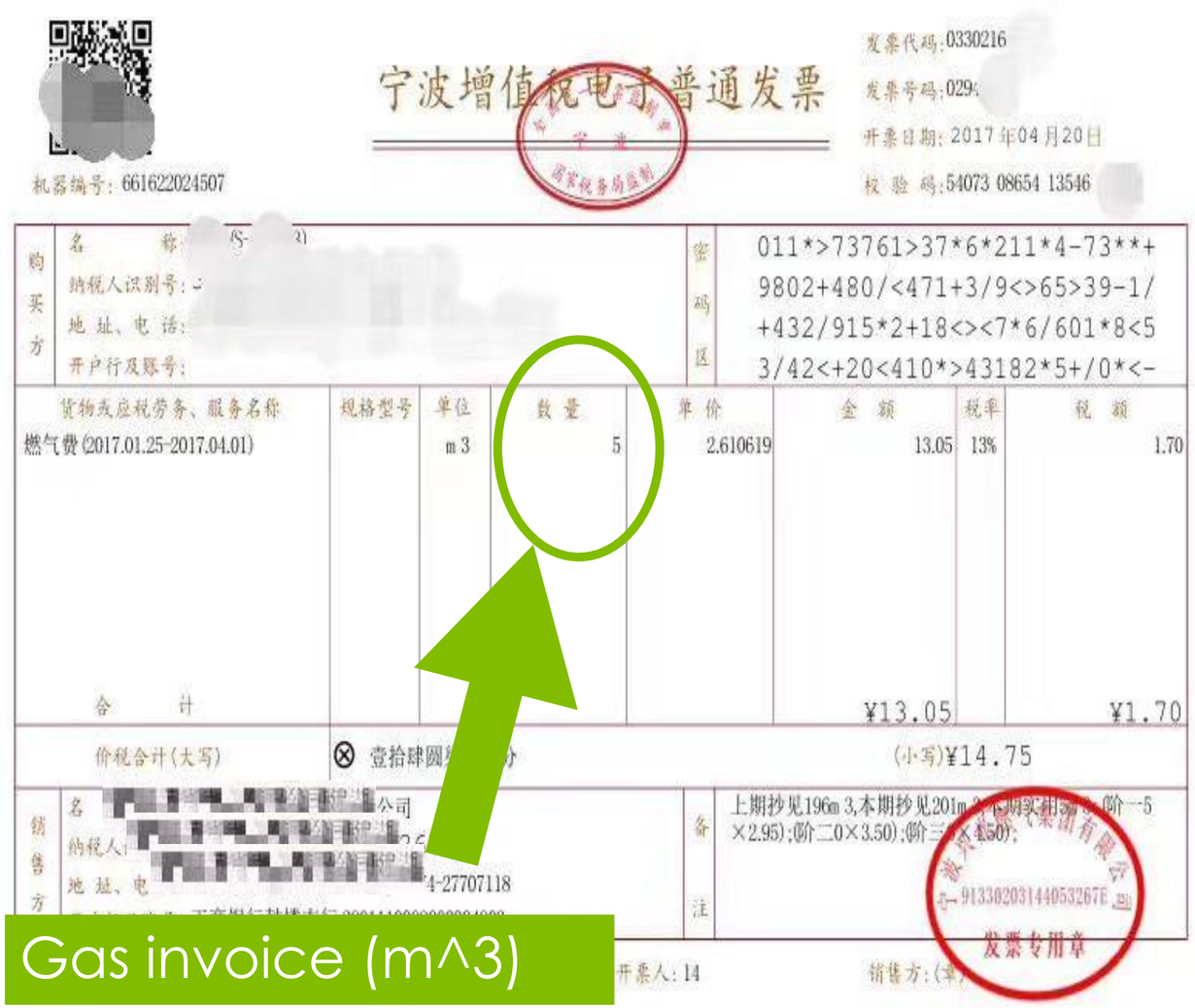
Electricity
Mexico

Electricity & natural gas
US

Natural Gas (LNG)



Required Materials for Calculations (examples)



How to Manually Calculate your Emissions

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What is an Emissions Factor?

Emissions factors describe the amount of greenhouse gases that are emitted into the atmosphere* when carrying out an activity that uses energy.

E.G. :

- Burning **1 liter** of gasoline in a car → Releases **2.51 kg of CO2e***
- Using **1 MWh** of electrical energy in Mexico in 2022 → Releases **423 kg of CO2e***

*CO2e = Unit that includes carbon dioxide and other greenhouse gases such as methane and nitrous oxides

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Calculating Scope 1 Emissions (step-by-step)

Using the annual diesel, gasoline and natural gas we calculate our Scope 1 total emissions in metric tons CO2e. Note that we can calculate the totals here directly without regional separation as direct emission factors do not vary by region.

Location	Electricity (kWh)	Gasoline (Lt)	Diesel (m^3)	Natural Gas (m^3)
Guadalajara, MX	15,590	4042.8	37.2	0.2706
California, USA	5,590	8505.8	24.1	0.5377
Zhuhai, CN	17,534	9156.9	30.5	0.1925
Total	**38,714**	**21,706**	**92**	**1**

$$\text{SCOPE 1} = \sum (Annual\ direct\ energy\ source\ \text{usage})_i * (Emission\ factor\ )_i$$

$$Scope\ 1 = (\text{SCOPE 1}_{Diesel} + \text{SCOPE 1}_{Gasoline} + \text{SCOPE 1}_{Natural\ Gas})$$

$$Scope\ 1 = \left(\mathbf{92\ m^3} * \frac{2.692\ ton\ CO2e}{1\ m^3}\right) + \left(\mathbf{21,706\ Lt} * \frac{0.002\ ton\ CO2e}{1\ Lt}\right) + \left(\mathbf{487\ m^3} * \frac{0.002\ ton\ CO2e}{1\ m^3}\right)$$

$$\text{SCOPE 1}_{Total} = 242.50\ tonCO2e + 54.54\ tonCO2e + 0.92\ tonCO2e = \mathbf{297.96\ tonCO2e}$$

1) CO2e is the normalized unit to measure greenhouse gas emissions that encompasses CO2 as well as other GHG gases
2) Factors to convert Fuel sources to tons CO2e taken from: World Resources Institute (2015). GHG Protocol tool for stationary combustion. Version 4.1.

Electricity Factors

In order to calculate Scope 2 emissions, we first need to get our electricity factors.

Where you can find the electricity factor for your country/region varies but it usually is provided either by the following options:

1. Your government (usually by the environmental agency or the energy agency)
2. Your Electricity Provider company
3. The IEA* also offers several licenses and data products related to emissions from electricity and heat generation

*IEA: International Energy Agency

GHG Emissions Methodology

Methodology	Source	E.G.
Location-based	Government	SEMARNAT EPA EMA
Market-based	Energy supplier	CFE ENGIE HK Electric

Market-based methodology allows an organization to count procured renewable energy as a zero-emission energy

SEMANART: Secretaría de Medio Ambiente y Recursos Naturales (México)
EPA: Environmental Protection Agency (USA)
EMA: Electricity Market Authority (SG)
CFE: Comisión Federal de Electricidad (México)
ENGIE: WW

Electricity Factors

As an example, we got the Mexico and Singapore Electricity factors from their government websites:

（二）组织制订2023年度数据质量控制计划

组织重点排放单位，按照《企业温室气体排放核算与报告指南 发电设施》（环办气候函〔2022〕485号，以下简称《核算报告指南》）要求，于每年12月31日前通过管理平台完成下一年度数据质量控制计划制订工作（2023年度数据质量控制计划需在3月10日前完成）。

（三）组织开展月度信息化存证

组织重点排放单位，按照《核算报告指南》等要求，在每月结束后的40个自然日内，通过管理平台上传燃料的消耗量、低位发热量、元素碳含量、购入使用电量、发电量、供热量、运行小时数和负荷（出力）系数以及排放报告辅助参数等数据及其支撑材料。

（四）组织报送年度温室气体排放报告

组织重点排放单位于每年3月31日前通过管理平台报送上一年度温室气体排放报告。其中，2022年度温室气体排放报告，按照《企业温室气体排放核算方法与报告指南 发电设施（2022年修订版）》（环办气候〔2022〕111号）要求编制；2023和2024年度温室气体排放报告，按照《核算报告指南》要求编制。

2022年度全国电网平均排放因子为0.5703t CO2/MWh。后续年度全国电网平均排放因子如有更新，将由我部在当年年底前另行发布。

（五）组织开展年度排放报告核查

组织有关技术支撑单位或委托第三方技术服务[illegible]照《企业温室气体排放报告核查指南（试行）》（环办气候函〔2021〕130号）和《企业温室气体排放核查技术指[illegible]设施》（环办气候函〔2022〕485号）要求，通过管理平台进行文件评审，开展现场核查并线上填报核查信息、编[illegible]告，确保核查全过程电子化留痕，于每年6月30日前完成对重点排放单位上一年度温室气体排放报告的核查及管理[illegible]工作。核查结束后，省级生态环境部门应将管理平台生成的核查结果数据汇总表、配额分配相关数据汇总表书面报[illegible]我部，抄送全国碳排放权注册登记机构。

（六）强化数据质量日常监管

[关于做好2023—2025年发电行业企业温室气体排放报告管理有关工作的通知 (mee.gov.cn)]

Medio Ambiente
Secretaría de Medio Ambiente y Recursos Naturales

Ciudad de México, a 28 DE FEBRERO DE2025

AVISO

FACTOR DE EMISIÓN DEL SISTEMA ELÉCTRICO NACIONAL 2024

A todos los Establecimientos Sujetos a Reporte, (ESR), Organismos de Certificación, Validación y Verificación de Gases de Efecto Invernadero, OC-VV-GEI, público en general.

Por este medio, se hace de su conocimiento que la Comisión Reguladora de Energía ha notificado a esta Secretaría que el factor de emisión del Sistema Eléctrico Nacional para el cálculo de las emisiones indirectas de gases de efecto invernadero por consumo de electricidad correspondiente al año 2024, es:

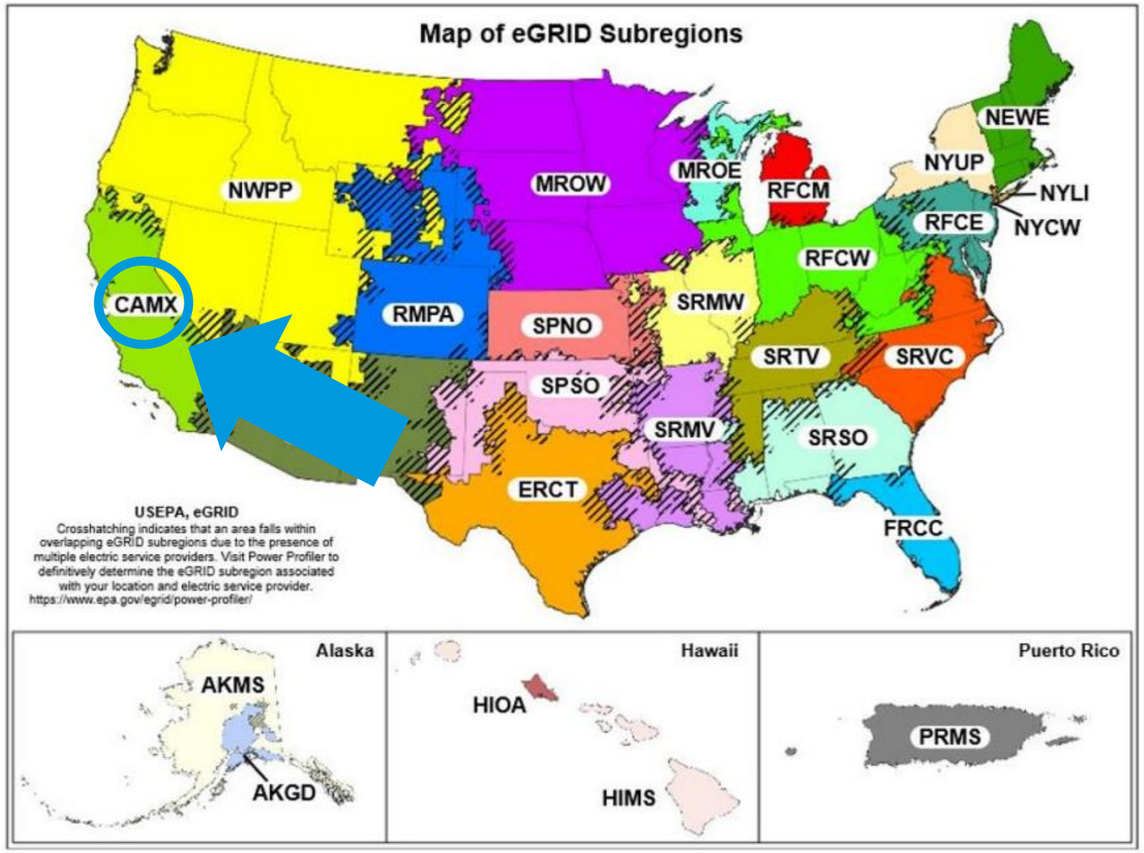
0.444 tCO_2e / MWh

Dicho factor se deberá emplear para fines del reporte al Registro Nacional de Emisiones, tomando en cuenta que este factor considera la generación de las

[aviso_fesen_2024.pdf]

Electricity Factors

For California (US), Company A goes to [the EPA Emissions factor hub](#) where they find their location on the map and note the code (for the case of CA it is "CAMX"), then they go to the table, locate the corresponding factors in the CO2e column.



eGRID Subregion Total Output Emission Rates (lb/MWh)

Show 30 entries

Search:

eGRID Subregion	CO_2	CH_4	N_2O	CO_2e	Annual NO_X	Ozone Season NO_X	SO_2
AKGD	899.003	0.086	0.012	904.475	5.550	6.167	0.310
AKMS	519.445	0.026	0.004	521.358	[illegible]	7.882	0.707
AZNM	740.810	0.041	0.006	743.428	[illegible]	0.384	0.108
CAMX	436.655	0.025	0.003	438.203	0.338	0.304	0.020
ERCT	738.038	0.043	0.006	740.821	0.446	0.488	0.321
FRCC	801.891	0.042	0.005	804.477	0.248	0.240	0.131
HIMS	1122.117	0.146	0.022	1132.028	7.557	7.200	4.484
HIOA	1489.362	0.134	0.021	1498.76	3.908	3.714	4.279
MROE	1402.005	0.116	0.017	1409.681	0.985	1.022	0.278
MROW	920.022	0.097	0.014	926.443	0.711	0.805	0.896
NEWE	537.243	0.063	0.008	541.131	0.290	0.283	0.115
NWPP	631.705	0.054	0.008	635.237	0.568	0.520	0.268
NYCW	974.656	0.025	0.003	976.093	0.262	0.256	0.027

Calculating Scope 2 Emissions (step-by-step)

Using the annual electricity usage and the electricity factors gathered we can now proceed to calculate the Scope 2 (indirect) CO2e* emissions for each location and the total:

$$\text{SCOPE 2} = (Annual\ electricity\ usage) * (Electricity\ Factor)$$

$$\text{SCOPE 2}_{MX} = (155{,}900\ kWh) * \left(\mathbf{0.444}\ \frac{\boldsymbol{kg\ CO2e}}{\boldsymbol{kWh}}\right) = 69{,}220\ kgCO2e$$

$$\text{SCOPE 2}_{CA} = (55{,}900\ kWh) * \left(\mathbf{0.199}\ \frac{\boldsymbol{kg\ CO2e}}{\boldsymbol{kWh}}\right) = 11{,}124\ kgCO2e$$

$$\text{SCOPE 2}_{ZUH} = (175{,}340\ kWh) * \left(\mathbf{0.570}\ \frac{\boldsymbol{kg\ CO2e}}{\boldsymbol{kWh}}\right) = 99{,}944\ kgCO2e$$

Last year Data		
Location	Electricity (kWh)	Electricity Factor (kgCO2e/kWh)
Guadalajara, MX	155,900	**0.444**
California, USA	55,900	**0.199**
Zhuhai, CN	175,340	**0.570**
Total	387,140	-----

$$\text{SCOPE 2}_{Total} = 69{,}220\ kgCO2e + 11{,}124\ kgCO2e + 99{,}944 kgCO2e = \mathbf{180{,}288\ kgCO2e}$$

Converting to metric tons

$$180{,}288\ kgCO2e\ *\ \frac{1\ ton}{1{,}000\ kg} = \mathbf{180.29\ ton\ CO2e}$$

2021_Scope 2 Calculation Guidance.pdf

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*CO2e is the normalized unit to measure greenhouse gas emissions that encompasses CO2 as well as other GHG gases
** 1 ton/MWh = 1 kg/kWh

How to Calculate your Emissions Using Excel

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How to Calculate your Emissions?

To quickly calculate your metric tons of CO2e Scope 1 and 2 emissions you can use calculations spreadsheets such as GHG Protocol or our Flex Environmental Metrics Template. Let's take a look at how to use this file:

2024 GHG emissions tool V1.4.0.xlsx

GHG Emissions tool 2024 - Quick guide.pdf

Calculating Scope 1 Emissions

In the **Env Template** tab input your direct energy usage data in the corresponding row (Natural Gas, Gasoline and Diesel in this example) in the **Month** columns. In the **Annual Total** column, you will see the sum of the 12-month period you inputted.
Each row states which unit needs to be used (M3, Lt). <u>Make sure you are using the units stated in the file, otherwise convert them accordingly.</u>

Last year Data				
Location	**Electricity (kWh)**	**Diesel (m^3)**	**Gasoline (Lt)**	**Natural Gas (m^3)**
Guadalajara, MX	15,590	37.2295	4042.82	0.2704
California, USA	5,590	24	8505.82	0.5373
Zhuhai, CN	17,534	30	9156.911	0.1922
Total	38,714	**92**	**21,706**	**1.0**

Category 类别	Data to be reported 需要申报的数据	Type of Field 数据类型	Description 描述	01_JAN 一月	02_FEB 二月	03_MAR 三月	04_APR 四月	05_MAY 五月	06_JUN 六月	07_JUL 七月	08_AUG 八月	09_SEP 九月	10_OCT 十月	11_NOV 十一	12_DEC 十二月	Annual Total 年度总额
Direct Energy sources (SCOPE 1) 直接能源（范围1）	Natural Gas (M3) 天然气（M3）	[numerical] [数字]	Please provide your inputs in M³ ; Please separate decimals with dots "." (Example: 10.00) 请输入M3数; 请用小数点"."分隔小数（例如：10.00）	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	1.000
	LP Gas (Liters) 液化石油气（升）	[numerical] [数字]	Please provide your inputs in LITERS ; Please separate decimals with dots "." (Example: 10.00) 请输入公升数 ; 请用小数点"."分隔小数（例如：10.00）	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Gasoline (Liters) 汽油（升）	[numerical] [数字]	Please provide your inputs in LITERS ; Please separate decimals with dots "." (Example: 10.00) 请输入公升数 ; 请用小数点"."分隔小数（例如：10.00）	1,808.83	1,808.83	1,808.83	1,808.83	1,808.83	1,808.83	1,808.83	1,808.83	1,808.83	1,808.83	1,808.83	1,808.83	21,706
	Diesel (M3) 柴油（M3）	[numerical] [数字]	Please provide your inputs in M³ ; Please separate decimals with dots "." (Example: 10.00) 请输入M3数; 请用小数点"."分隔小数（例如：10.00）	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67	92
	Ethanol (M³) 乙醇（M³）	[numerical] [数字]	Please provide your inputs in M³ ; Please separate decimals with dots "." (Example: 10.00) 请输入M3数; 请用小数点"."分隔小数（例如：10.00）	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Biodiesel (Liters) 生物柴油（升）	[numerical] [数字]	Please provide your inputs in LITERS ; Please separate decimals with dots "." (Example: 10.00) 请输入公升数 ; 请用小数点"."分隔小数（例如：10.00）	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	Fuel data source 燃料数据来源	Invoices 发票		Invoices发票	Invoices发票	Invoices发票	Invoices发票	Invoices发票	Invoices发票	Invoices发票	Invoices发票	Invoices发票	Invoices发票	Invoices发票	Invoices发票	
能源消耗量			Please provide your inputs in K\Wh ; Please													

Energy from Fuels

Once you have input your monthly information, scroll to the right and input the % of the energy that comes from the US or Canada to get the Energy calculations. Note that if it is zero, please enter 0 and don't leave blank.

12_DEC 十二月	Annual Total 年度总额	Location in the CDP questionnaire CDP问卷中的位置	Please input below the % of your fuels that come from the US or Canada 请输入以下来自美国或加拿大的	ENERGY 能源 Results for :(C8.2a) Consumption of purchased or acquired electricity MWh 从不可再生能源购买或获得的电力消耗量 MWh	Energy source and unit 能源来源及单位
0.083	1.000	Please review the Energy section at the right side of the table ---> 请查看表格右侧的能源部分	54	5.94	Natural Gas (MWh) 天然气（MWh）
0.00	0		0	0.00	LP Gas (MWh) 液化石油气（升）
1,808.83	21,706		39	201.71	Gasoline (MWh) 汽油（MWh）
7.67	92		26	935.68	Diesel (MWh) 柴油（MWh）
0.00	0		0	0.00	Ethanol (MWh) 乙醇（MWh）
0.00	0		0	0.00	Biodiesel (MWh) 生物柴油（MWh）
Invoices发票				369.17	Non Renewable Electricity (MWh) 不可再生电力 (MWh)
32,261.67	387,140.00				

ENERGY 能源 Results for :(C8.2a) Consumption of purchased or acquired electricity MWh 从不可再生能源购买或获得的电力消耗量 MWh	Energy source and unit 能源来源及单位
Please enter the % on the left cell 请在左侧单元格中输入%	Natural Gas (MWh) 天然气（MWh）
Please enter the % on the left cell 请在左侧单元格中输入%	LP Gas (MWh) 液化石油气（升）
Please enter the % on the left cell 请在左侧单元格中输入%	Gasoline (MWh) 汽油（MWh）
Please enter the % on the left cell 请在左侧单元格中输入%	Diesel (MWh) 柴油（MWh）
Please enter the % on the left cell 请在左侧单元格中输入%	Ethanol (MWh) 乙醇（MWh）
Please enter the % on the left cell 请在左侧单元格中输入%	Biodiesel (MWh) 生物柴油（MWh）

This message will appear if you leave the cell in blank

Calculating Scope 2 Emissions

For the SCOPE 2 emissions calculations, in this case as we have 3 different emission factors for 3 different regions. First, we go to the **Electricity Factor** Tab where you can select from the different regions available in the file or add a custom factor, you just need to select the units in case you want to use a custom factor.

In the Top right corner, you will obtain the **Weighted Electricity Factor** that we will then input in the **Env Template** tab.

Last year Data			
Location	Electricity (kWh)	Electricity Factor	Units
Guadalajara, MX	**15,590**	**0.4057**	kgCO2e/kWh
California, USA	**5,590**	**234.496**	lbCO2e/MWh
Zhuhai, CN	**17,534**	**0.423**	TonCO2e/MWh
Total	38,714	-----	

Weighted Electricity factor 加权电力系数

Continent 大陆	Country / Administrative Region	Country / Province / State / Region (For US see map on right) / Provider / Agency	Electricity per region 电力 (kWh)	Custom factor	Electricity factor 电力因子 (mass CO2e / energy)	Units 单位	%	Σ Weighted Electricity factor 加权电力系数 [gCO2e/kWh]
Americas	USandPuertoRico	ERCT (ERCOT All)	55,900	N/A	774.3100	lbCO2e / MWh	14.44%	50.76
Asia	PRofChina	PR Of China	175,340	N/A	0.5703	TonCO2e / MWh	45.29%	258.30
Asia	Singapore	Energy Market Author	155,900	N/A	0.4168	kgCO2e / kWh	40.27%	167.84
							0.00%	
							0.00%	
							0.00%	

Weighted Electricity factor 加权电力系数 [gCO2e/kWh]

476.90

Input this number in the Env Template tab in the Electricity factor row's dropdown list
在"环境模板"选项卡中"电力系数"行输入此数字

Calculating Scope 2 Emissions

Once we have our **Weighted Electricity Factor,** we input it in the **Electricity Factor** row in the **Env Template** tab. Note that if you used the **Electricity factor tab** you can select from a dropdown list your **weighted electricity factor calculated.**

You will also input your total monthly electricity usage data (in kWh) in the **month** columns, and you will get the annual total in the right side.

Last year Data		
Location	Weighted Electricity Factor (gCO2e/kWh)	Electricity (kWh)
Guadalajara, MX	**370.33**	155,900
California, USA		55,900
Zhuhai, CN		175,340
Total		**387,140**

Indirect sources (SCOPE 2)	**Electricity 电力 (KWh)**	[numerical] [数字]	Please provide your inputs in KWh ; Please separate decimals with dots "." (Example: 10.00) 请输入KWh数 请用小数点"."分隔小数（例如：10.00）	32,261.67	32,261.67	32,261.67	32,261.67	32,261.67	32,261.67	32,261.67	32,261.67	32,261.67	32,261.67	32,261.67	32,261.67	387,140.00
	Electricity factor (gCO2e / kWh) 电力因子（gCO2e / kWh）	[numerical] [数字]	Please input the factor in the units **[g CO2e/KWh]** The emission factors are coefficients for the amounts of certain gases that are released when fuels are burned and for when electricity is generated. They do not vary per month, only per year 请输入单位为[g CO2e/KWh]的系数 排放系数是燃料燃烧和发电时释放的某些气体量的系数。它们每月不会变化，仅每年变化	**476.90**												

Renewable & Non-Renewable Energy

Below the Electricity factor row, you can disclose:

- Renewable electricity purchased (kWh)
- Electricity generated on-site from renewable sources (kWh))
- Partial PPA (kWh %) (note the percentage must be multiplied by the % of the electricity of the region this takes place to disclose correctly)

Renewable energy	Renewable electricity purchased (kWh) 购买的可再生电力	[numerical] [数字]	Please provide your inputs in KWh Please separate decimals with dots "." (Example: 10.00) 请输入KWh数 请用小数点"."分隔小数（例如：10.00）	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	
	Electricity generated on-site from renewable sources (kWh) 由可再生资源产生	[numerical] [数字]	Please provide your inputs in KWh Please separate decimals with dots "." (Example: 10.00) 请输入KWh数 请用小数点"."分隔小数（例如：10.00）	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00	36,000.00	(C8.2a) Consumption of self-generated non fuel renewable energy 自我生产的非燃料可再生能源消耗量
	Partial PPA (kWh %)	Not required	Please enter the % of renewable energy of the partial PPA; Partial PPA's are usually available in China. 请输入部分购电协议中可再生能源的百分比； 部分购电协议通常在中国提供	4.53%	4.53%	4.53%	5.43%	5.43%	5.43%	3.62%	3.62%	3.62%	4.98%	4.98%	4.98%	17,971.91	

On the right side you will find the results of your energy usages:

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh. （C8.2a）请报告贵组织的能源消耗总量（原料除外）·单位为MWh。		
Renewable energy consumption (MWH) 可再生能源消耗	53.97	
Non-renewable energy consumption (MWH) 不可再生能源消耗	1,512.50	
Total energy consumption (MWH) 能源消耗总量	1,566.47	

Note that this number does not include biodiesel, please fill cells R11 and U11 to include it
Please fill all fuel data on column R, and % in column U 请在 R 列中填写所有燃油数据，在 U 列中填写 %

This message will appear if you don't fill up completely cells U6:U11

Calculating Scope 1 & 2 Emissions

Once you have input your monthly information on the template:

- The file will auto-calculate the annual total emissions in Metric Ton CO2e
- On the right side you will find the CDP module where you need to input this data

Calculated fields 计算部分	SCOPE 1 - CO2 Emissions [Metric ton CO2e] 范围1-CO2排放量 [公吨CO2e]	Calculated 计算	=[NG-CO2 Emissions]+[LP_Gas-CO2 Emissions]+[Gasoline-CO2 Emissions]+[Diesel-CO2 Emissions]+[Ethanol-CO2 Emissions]+[Bio-Diesel-CO2 Emissions] =[天然气-CO2排放]+[LP_Gas-CO2排放]+[汽油-CO2排放]+[柴油-CO2排放物]+[乙醇-CO2排放量]+[生物柴油-CO2的排放量]	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.80	**297.603**	(C6.1) Gross global Scope 1 emissions (metric tons CO2e) (C6.1) 全球范围1总排放量（公吨CO2当量
	SCOPE 2 - CO2 Emissions [Metric ton CO2e] 范围2-CO2排放量 [公吨CO2e]	Calculated 计算	=(Electricity (kWh)*Electricity Factor) =（用电量（kWh）*电力系数）	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	**184.627**	(C6.3) What were your organization's gros global Scope 2 emissions in metric tons CO2e? （C6.3）贵组织的全球范围2排放总量是多公吨CO2当量？
	Total Scope 1 + Scope 2 CO2e Emissions 总CO2排放量	Calculated 计算	=[SCOPE 1 - CO2 Emissions]+[SCOPE 2 - CO2 Emissions] =[范围1-CO2排放量]+[范围2-CO2排放量]	40.19	40.19	40.19	40.19	40.19	40.19	40.19	40.19	40.19	40.19	40.19	40.19	**482.231**	(C6.10) 范围一和范围二合并的全球总排放量（单位：公吨CO2e)

Emissions Allocation

Once we have calculated our **Scope 1 and 2 emissions**, we go to the **Emissions allocation** tab.
There on the left side you will find the emissions you calculated in the **Env Template** tab. You need to input your Revenue from Flex and total in the **Emissions allocation data** table I and your will obtain the **Emissions allocated to Flex.** This is the number you will input in the SC1.1 section of the CD questionnaire.

CDP SC 1.1 Emissions allocation To Flex
目标问题: SC1.1 向FLEX分配排放量

Data calculated from Env Template tab		Emissions allocation data		Location in CDP Questionnaire CDP问卷中的位置	Notes 注释
SCOPE 1 - CO2 Emissions [Metric ton CO2e] 范围1-CO2排放量 [公吨CO2e]	**297.96**	Revenue of products/services purchased by Flex Flex 购买的产品/服务的营业额	$ 500,000.00		
SCOPE 2 - CO2 Emissions [Metric ton CO2e] 范围2-CO2排放量 [公吨CO2e]	**14.34**	Total revenue of products/services produced 生产的产品/服务的总额	$ 20,000,000.00		
Total CO2 Emissions 总CO2排放量	**312.30**	**Allocated GHG Emissions [Metric Ton CO2e]** **所分配的温室气体排放 [公吨CO2e]**	**7.81**	(SC1.1) Emissions in metric tons of CO_2e 排放量（公吨CO2e）	Please make sure to select "Flex, Ltd" on the dropdown list at the beginning of the SC1.1. section 请确保在SC1.1章节开头的下拉列表中选择"Flex, Ltd"

... Electricity Factor电力系数 | **Emissions Allocation所分配的温室气体排放** | Target setting tool目标设 ...

Flex Excel GHG Emissions Target Tool

(C4.1) Did you have an emissions target that was active in the reporting year?
（C4.1）在此报告年中，您是否有有效的排放目标？

Types of targets: 减排目标的类型：			
	ABSOLUTE: Total quantity of greenhouse gas emissions emitted 绝对目标：温室气体排放总量	Units example:	*Tons CO_2e reduced* 减少的二氧化碳当量排放吨数
	INTENSITY: Compares the emissions to some unit of economic output 强度目标：排放量和某种经济产出进行对比	Units example:	$\frac{Tons\ CO_2e}{Revenue\ /\ product}$ *reduced* 减少的 二氧化碳当量排放吨数 / 营业额/ 产品数量

		Question (Mandatory questions are marked with an asterisk *)	Your answer	Notes 注释	Location in the CDP questionnaire CDP问卷中的位置
Data to provide	ABSOLUTE TARGET 绝对目标	Scope(s) of your taget* 范围*	**Scope 1 范围一**		(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets. （C4.1a）请提供您的绝对排放目标和针对这些目标的进展的详情。
		Base Year 绝对目标	2020	The year you will take as a starting point to reduce your emissions . 您设定的作为废气减排起点的年份，作为对比减排目标的参照年份	
		Is your base year the same year you reported in the "Env Tab" of this file?	**Yes 是**	.	
		Covered emissions in base year (Metric ton CO2e)* 所有选定范围中目标覆盖的基准年排放（公吨CO2e）*	297.96	If you answered "Yes" in the previous columns and filled the env template tab it will autopopulate.	
		Target year* 强度目标*	2025	Year in which you aim to achieve it, the date must be higher than the current year. 您设定的目标达成的年份	
		Targeted reduction % from base year* 基准年减排百分比 *	50.00	% of reduction (0-100) 百分比字段[输入0-100的百分比，最多保留2位小数]	
		Target Status in reporting year* 报告年的目标状态 *	Underway 正在进行	Select the option that applies from the dropdown list 请从下方下拉菜单选项中选择	
	INTENSITY TARGET 强度目标	Scope(s) of your taget* 范围*	**Scope 2 范围二**		(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s). （C4.1b）请提供您的排放强度目标和针对这些目标的进展的详情。
		Base Year 绝对目标	2020	The year you will take as a starting point to reduce your emissions . 您设定的作为废气减排起点的年份，作为对比减排目标的参照年份	
		Is your base year the same year you reported in the "Env Tab" of this file?	**Yes 是**		
		Intensity Metric* 强度指标*	Metric ton CO2e / Revenue in USD	Please write the units used; it is usually units of CO2e/revenue or another unit of business activity 请您写公吨CO2e/单位活动	
		Insert your businness activity metric from your base year (matching the denominator units of the "Intensity Metric" row; i.e. USD revenue, tons of product, kWh, etc).	5,768.00		
		Intensity figure in base year for all selected Scopes (metric tons CO2e per unit of activity) *	0.003293912	If you answered "Yes" in the previous columns and filled the env tempolate tab it will autopopulate. Otherwise divide the	

In order to have a structured target, the following elements are required in your disclosure:

Absolute target (7.53.1 & 20.16.1):

1. Scope(s)
2. Covered emissions in base year (metric ton CO2e)
3. Target year
4. Targeted reduction % from base year
5. Target Status

Intensity target (7.53.2 & 20.16.2):

1. Scope(s)
2. Intensity Metric
3. Intensity Figure in base year
4. Target year
5. Target reduction %
6. Target Status

*Flex asks you to at least have one GHG Emissions reduction target, it can be absolute or intensity.

Energy Calculations

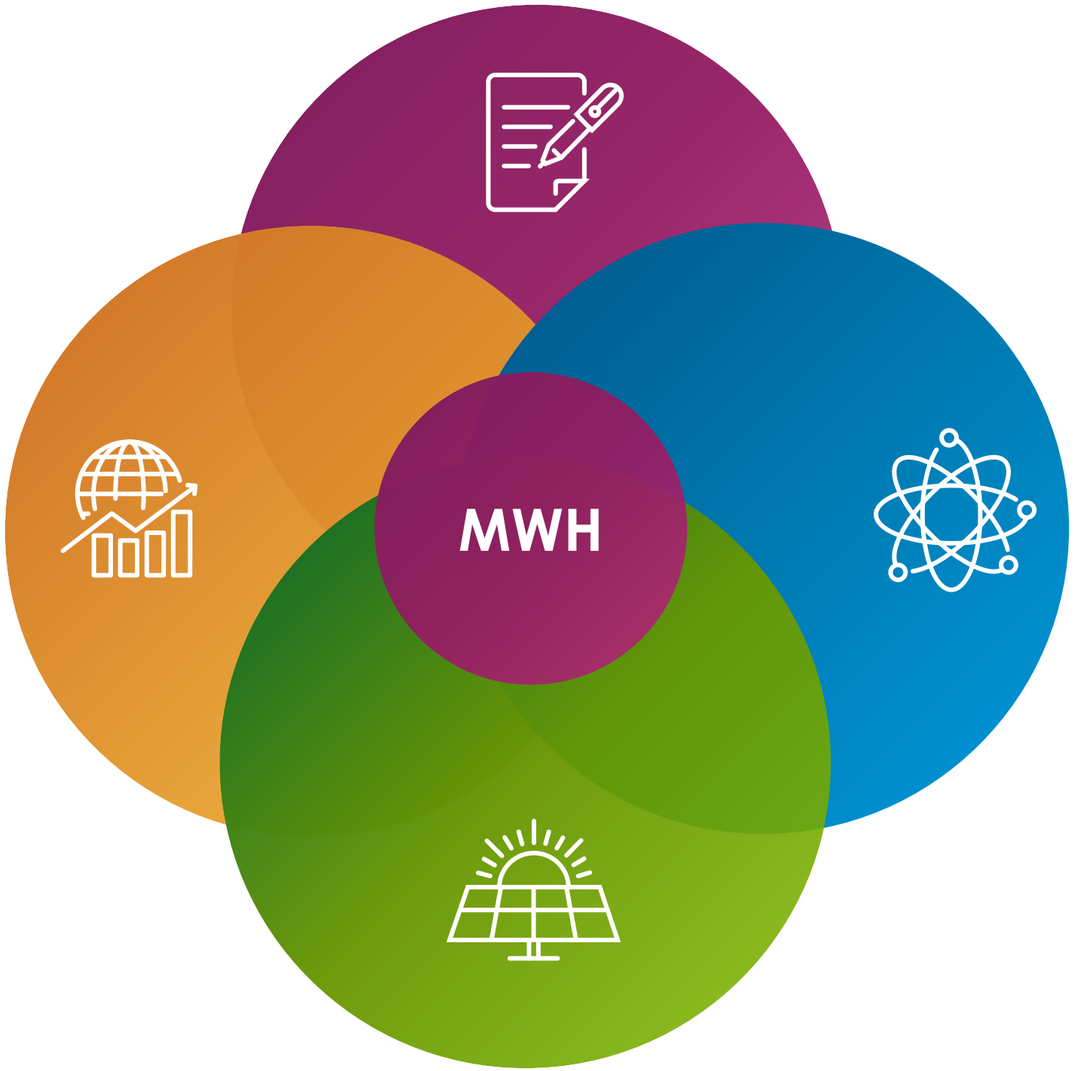
Energy Disclosure

SOURCING METHOD*

- Bundled and unbundled energy
- Tracking system

REGION

- Country



ENERGY CARRIER

- Electricity
- Steam
- Heat
- Cooling

ENERGY SOURCE

- Non-Renewable
- Renewable
- Low Carbon

*Only applicable for organizations that use market-based methodology

Required Documents for Energy Calculation

Procured Energy

Energy bills

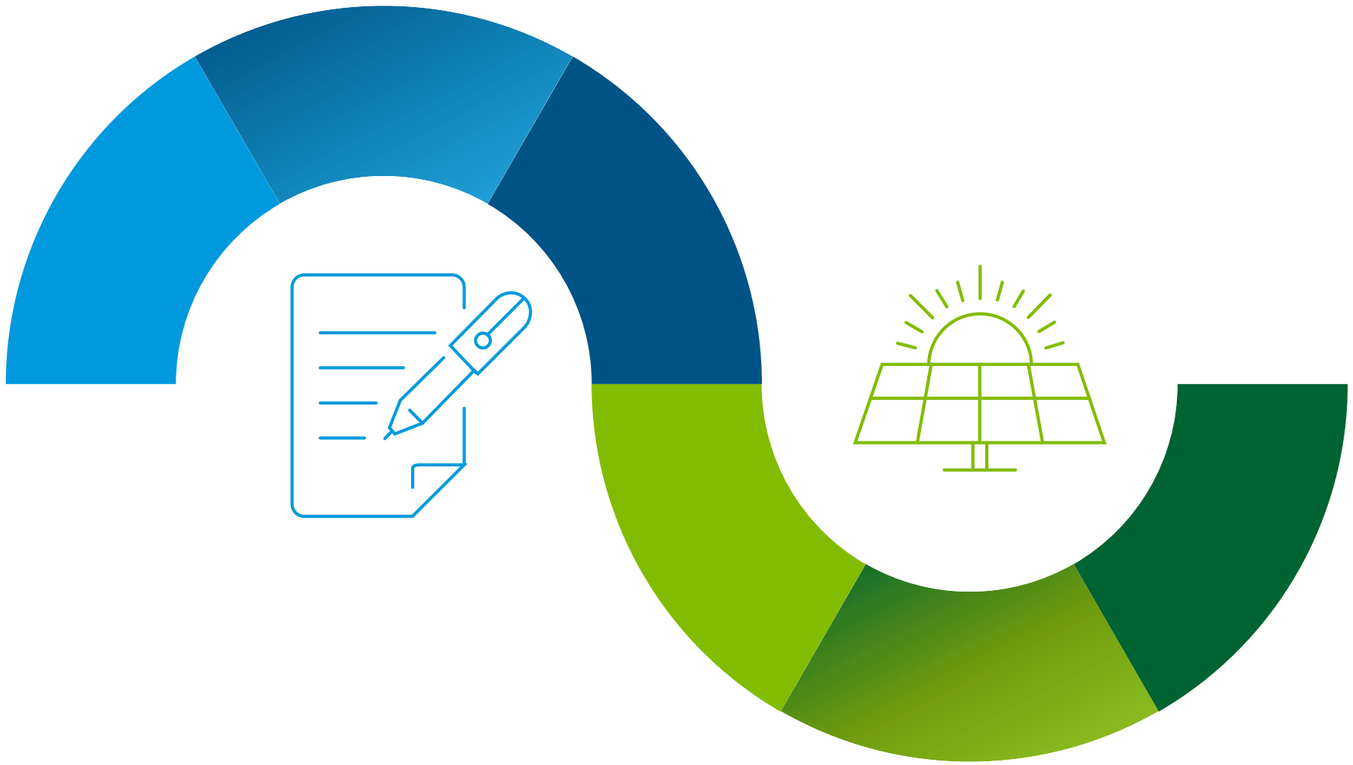
- Electricity, steam, heat and cooling

Metered lectures

- Verified lectures or used as a reference

RE Certificates

- Renewable electricity certificates to be declared in market-based



Energy generation

Fuel bills

- Fuel for energy generation consumption

Fuel invoice

- Fuel for energy consumption and heating value

Metered lectures

- Generation, injection and consumption values

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Energy Conversions

Energy Disclosure

CDP requests all energy consumption and generation in MWh

These calculations are available in Columns V-W of *2023 GHG Emissions excel file*

Location	Electricity (kWh)	Gasoline (Lt)	Diesel (m^3)	Natural Gas (m^3)
Guadalajara, MX	15,590	4042.8	37.2	0.2706
California, USA	5,590	8505.8	24.1	0.5377
Zhuhai, CN	17,534	9156.9	30.5	0.1925
Total	**38,714**	**21,706**	**92**	**1**

Location	Electricity (MWh)	Gasoline (MWh)	Diesel (MWh)	Natural Gas (MWh)
Guadalajara, MX	15.59	36.81	373.24	1.57
California, USA	5.59	81.53	254.51	3.27
Zhuhai, CN	17.53	83.38	306.02	1.11
Total	**38.71**	**201.72**	**933.77**	**5.95**

All energy calculations were done with CDP Technical Note on Fuel Conversion

Renewable Energy Certificates Elements

CERTIFICATES EQUIVALENT TO 1 MWH OF RENEWABLE ELECTRICITY

DOESN’T SUPPLY ELECTRICITY

ALLOWS AN ORGANIZATION TO CLAIM CO2 AVOIDANCE IN A MARKET-BASED METHODOLOGY

ONLY GENERATORS WHO HAVE BEEN CERTIFIED ARE ABLE TO SELL ATTRIBUTES

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Case Study of RE Certificates

Market-based methodology

The only methodology in which renewable energy certificates can be claimed and counted as an approach to reduce emissions

	ELECTRICITY CONSUMPTION MWh	RE CERTIFICATES MWh	MARKET BASED MWh
USA	5,59	0	5,59
China	17,53	17	0,53
México	15,59	15	0,59
Total	38,71	32	6,71

Location-based electricity

To learn more about market-based energy calculation, please visit [CDP Technical Note: Accounting of Scope 2 emissions]

FAQs and Resources

Frequently Asked Questions

- **Do we need to answer the 3 questionnaires?**

You only need to answer 1 questionnaire, that Flex will assign to you.

- **Does the supplier need to pay to disclose their data in any of the GHG questionnaires?**

If you are invited to answer in RBA or Flex's survey, there are no costs involved.
If you are invited to CDP only by Flex or other customers, then there are no costs, but as it has been in previous years, **you will only need to pay a fee if an investor request you to disclose.**

- **What happens to PSP suppliers who don't have any emissions reduction target?**

If a supplier does not comply with the above requirement within 3 years after joining the PSP program, a disqualification process might be considered.

- **If we have multiple sites, multiple business entities across the world do we have to roll the data up to the overall parent company or keep results at a local site level?**

Best practice in corporate GHG accounting encourages all companies to be reporting enterprise-data at the ultimate parent company level. Doing so avoids double counting and reduces reporting effort.

However, if you have more granular information on your emissions (like site level data or product level data) CDP and RBA questionnaires offer this option, and we encourage you to do so.

Please note that it is recommended to access the questionnaires with Google Chrome Browser.

Further Useful Resources

Resources for Disclosure:

- CDP Guidance for Companies
- CDP FAQs – Find answers to common queries
- CDP Supply Chain report
- Knowledge base from CDP
- Working 9-5: A guide for Small Office Based Organizations'
- Hot Climate, Cool Commerce: A Service Sector Guide to Greenhouse Gas Management
- CDP On-Demand Technical Support:

For all geographic regions, contact https://casemgmt-crm.cdp.net/

GHG Emissions Accounting and Science-Based Targets:

- GHG Protocol Corporate Standard
- GHG Protocol Calculation Tools
- FAQs- The Science Based Targets Initiative

RBA EMT website:

- RBA Sharefile → FAQs, Survey Guide and more
- RBA's upcoming webinars
- RBA information about EMT

Supply Chain Sustainability Programs Webpage

Flex has created an external webpage for suppliers to revisit emission and energy calculation trainings.

You will be able to find the following materials:

- Webinar recordings
- Emission and energy calculation tools
- Presentations

https://flex.com/solutions-and-services/supply-chain/sustainability-programs

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If you require support from Flex, please send us an email to:

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Sustainability training survey 2025

Thank You