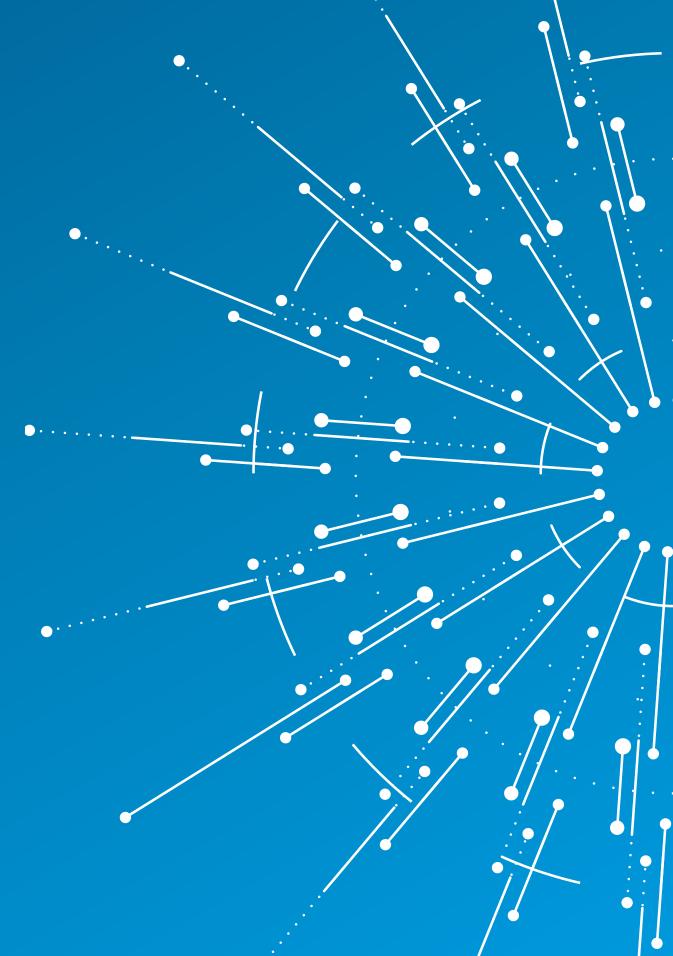
### flex.

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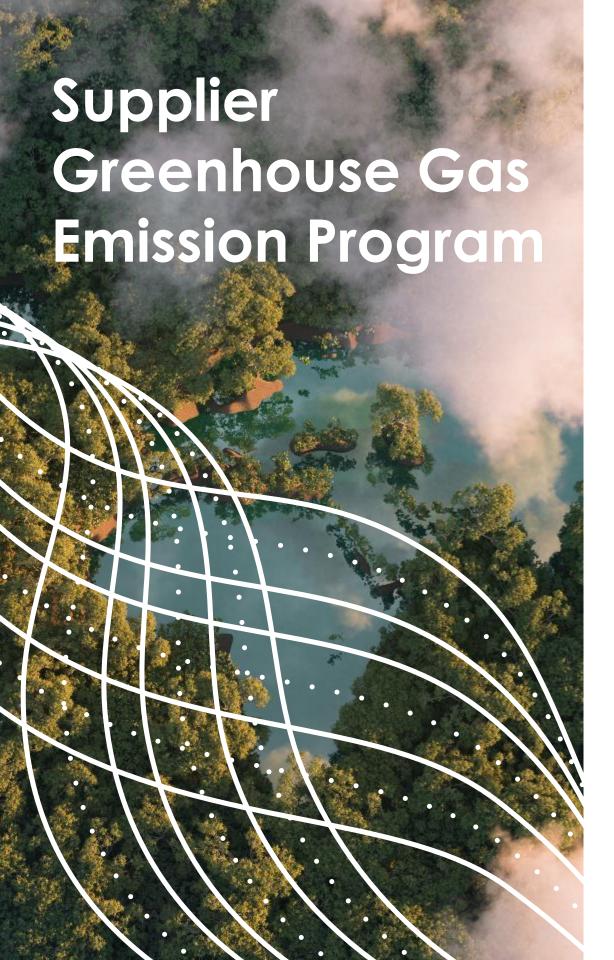
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## Supply Chain Sustainability Program GHG kick-off webinar

flex.



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.



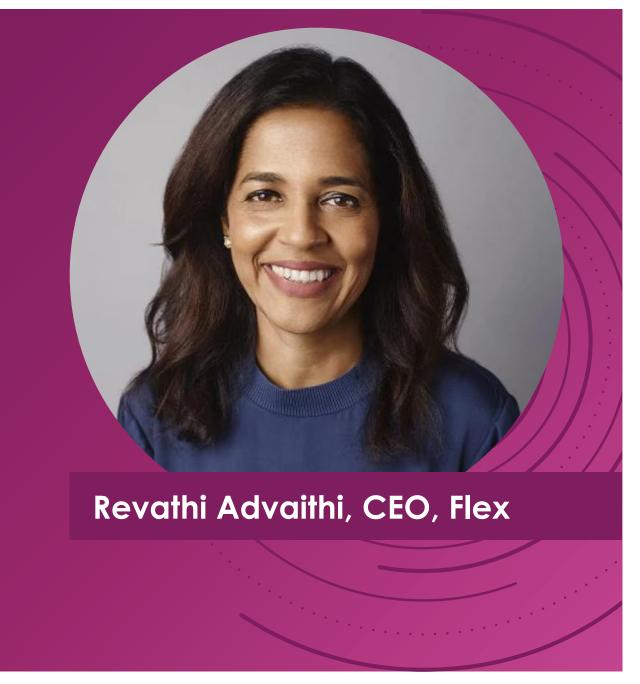
In order to support <u>Flex's 2030 goals</u>, the supplier sustainability team launched a GHG emission reduction program with our preferred suppliers and in partnership with CDP (formerly known as the Carbon Disclosure Project) to help us achieve our GHG emission reduction goals.



\*Note: 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



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 and a commitment to net-zero by 2040. As we look to significantly lower emissions throughout our global operations, Flex is a proud member of the Science Based Targets initiative, which aligns us to the Paris Agreement's goal to limit climate change.

Our 2030 goals also continue our focus on cultivating a safe, inclusive and respectful workplace that values the diverse backgrounds, perspectives and talents of our people, who are at the heart of our operations. Our commitments inspire us to continue holding ourselves and our partners to the highest ethical standards, act with integrity and further drive transparency and accountability.



### Greenhouse Gas Emissions



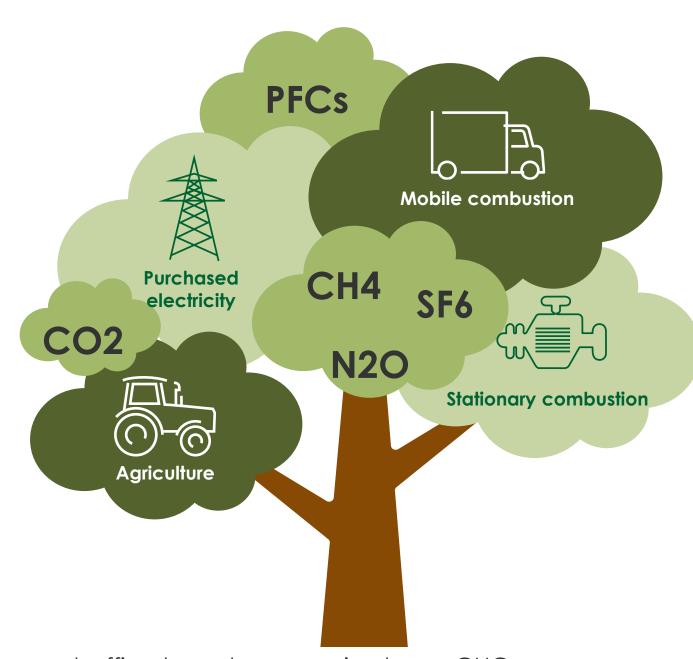
### Greenhouse Gas Emissions

**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:



**Note:** All industries including manufacturers, distributors, services provides, and office-based companies have GHG emissions; so, they apply in this initiative.



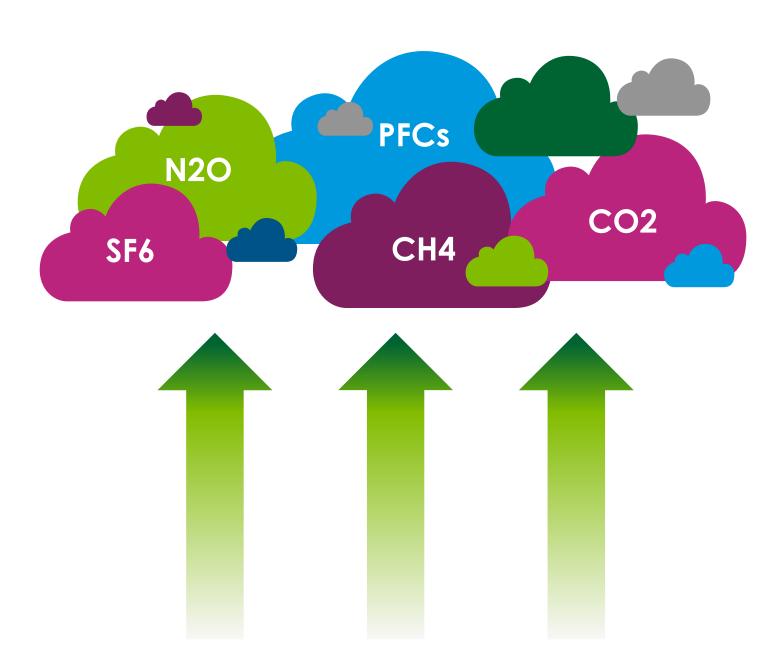
### **GHG Emissions Scopes**

#### Scope 1

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



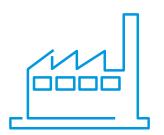




#### Scope 2

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



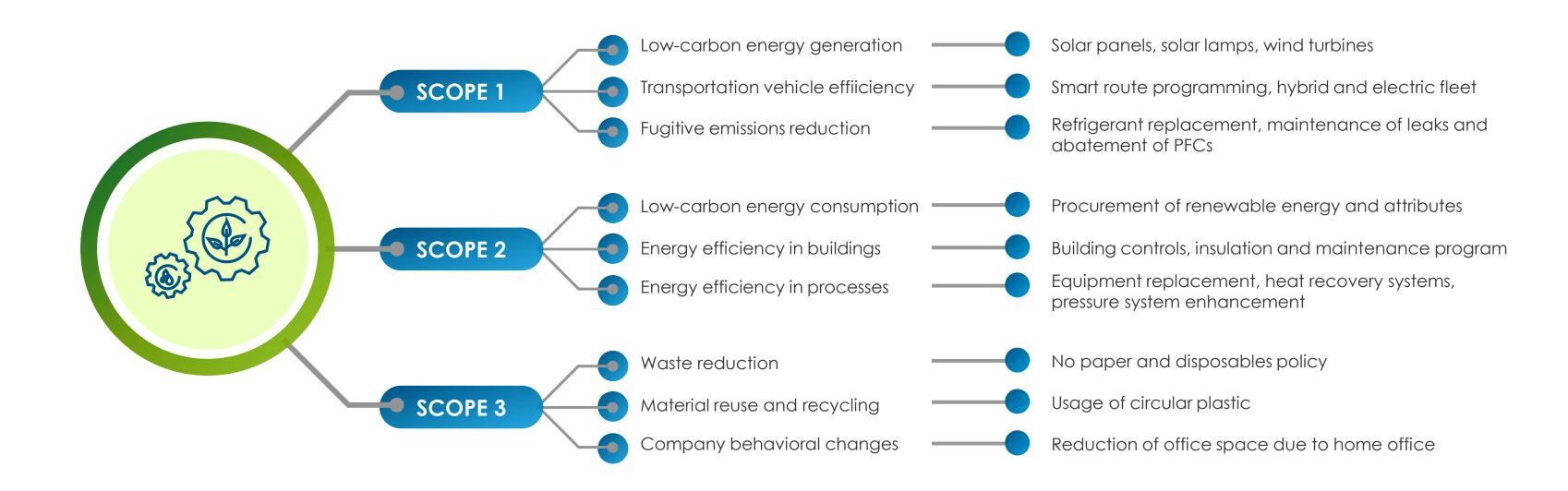


#### Scope 3

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



### Greenhouse gas emission reduction activities





### GHG Questionnaires Overview



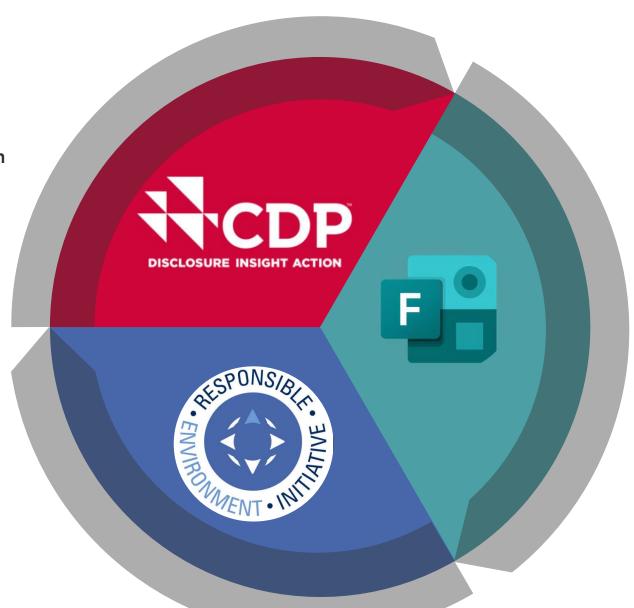
### 2024 GHG Questionnaires



#### **CDP QUESTIONNAIRE**

Start date: June 4th

Deadline: September 18<sup>th</sup>



#### **FLEX - MS FORMS**

Start date: June 4<sup>th</sup>

Deadline: September 18<sup>th</sup>

#### RBA – EMISSIONS MANAGEMENT TOOL

Start date: April 29<sup>th</sup> Deadline: August 1<sup>st</sup>

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



peers



Identify risks and opportunities and communicate risk management practices



Identify cost savings and areas to improve operational efficiency



Propose
collaborative
opportunities and
increase value from
customer
relationships

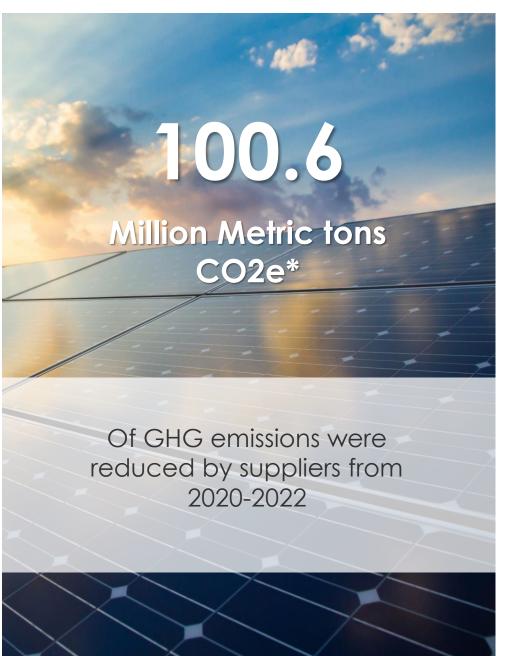


Demonstrate transparency and operational competence to your customers



### GHG Program Preferred Suppliers' Impact







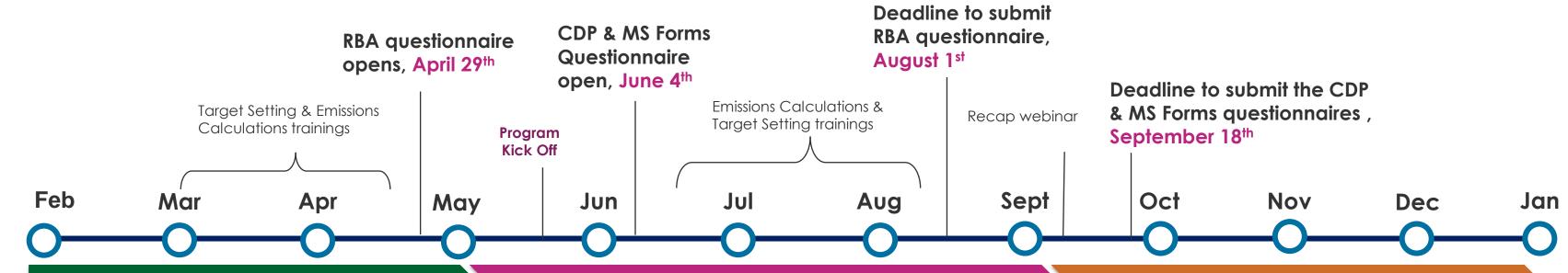




### 2024 Timeline



### 2024 GHG Program Timeline



### **Pre-Disclosure**

Flex invitation to suppliers

#### Webinar dates:

- Target Setting: AME & EU: March 12th
- Asia EN: March 13th Asia CH: March 14th
- GHG Emissions: 1st AME & EU: April 16th 1st Asia EN: April 17th 1st Asia CH: April 18th

Kick-off:

AME & EU: May 21th Asia EN: May 22th Asia CH: May 23th

GHG Emissions:

2<sup>nd</sup> AME & EU: June 18<sup>th</sup> 2<sup>nd</sup> Asia EN: June 19<sup>th</sup> 2<sup>nd</sup> Asia CH: June 20<sup>th</sup>

### Disclosure Cycle

#### Supplier fill-in and submit the questionnaire

Webinars from Flex to support suppliers in their disclosure

Target Setting:

1st AME & EU: July 16th 1st Asia EN: July 17th 1st Asia CH: July 18th

Recap:

AME & EU: September 3rd Asia EN: September 4<sup>th</sup> Asia CH: September 5<sup>th</sup>

On-Site trainings:

Guadalajara, México: July 9th Shenzhen, China: July 11th

• GHG Emissions:

3rd AME-EU: August 13th 3rd Asia EN: August 14th 3<sup>rd</sup> Asia CH: August 15<sup>th</sup>

- **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

 Personalized sessions During all disclosure cycle



# Target questions for Flex suppliers



	flex.	DISCLOSURE	CDP Insight action	Responsible Business Alliance  Advancing Sustainability Globally				
	Target Question	2023 Question #	2024 Question #	RBA EMT Section	MS Forms section			
1	GHG Emissions reduction target(s)	C4.1.1, C4.1.2	7.53.1 and / or 7.53.2	[Targets]	[Section 3: GHG Emissions Reduction Targets]			
2	Renewable energy target	C4.2.1	7.54.1	NA	[Section 5: Renewable Energy Targets]			
3	Emissions reduction initiatives	C4.3	7.55, 7.55.1, 7.55.2	[Emissions initiatives]	[Section 6: Sustainability initiatives]			
4	Methodology for emissions calculations	C5.3	7.2	[Company information]	[Section 2: GHG Emissions Data]			
5	Base year information	C5.1, C5.2	7.5	[Company information]	[Section 3: GHG Emissions Reduction Targets]			
6	Scope 1 emissions	C6.1	7.6	[Scope 1]	[Section 2: GHG Emissions Data]			
7	Scope 2 Methodology (LB / MB)	C6.2	7.3	[Scope 2]	[Section 2: GHG Emissions Data]			
8	Scope 2 Emissions	C6.3	7.7	[Scope 2]	[Section 2: GHG Emissions Data]			
9	Scope 3 emissions (optional)	C6.5	7.8	[Scope 3]	[Section 2: GHG Emissions Data]			
10	Renewable & Non renewable energy consumption and usage totals	C8.2a, C8.2b	7.30, 7.30.1, 7.30.6, 7.30.7	[Energy reporting]	[Section 4: Energy Data]			
11	GHG Emissions allocation	SC1.1, SC1.2	7.26	NA	[Section 7: Emissions Allocation]			

### 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



### 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**

NDetails on GHG emissions reduction initiatives



### 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 marketbased 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

Allocated GHG Emissions

Working example of allocating emissions to Flex based on revenue





# GHG calculation Case Study



### GHG Calculations Case Study

Company A is an international distributor, they have 2 physical locations in Singapore, SG and Texas, USA as well as a **subsidiary company** (Company B) that has 1 location, in Shenzhen, 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
А	Texas, USA
А	Singapore, SG
В	Shenzhen, 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	•	Electricity usage in their
•	Fuel from business travel in		locations
	the company-owned		
	vehicles		
•	Water heater in the buildings		
•	Forklifts		



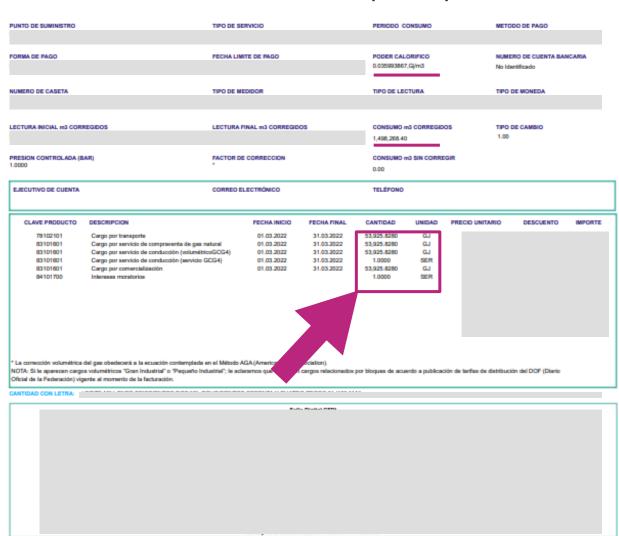
### Required materials for calculations (examples)



### Electricity & natural gas US

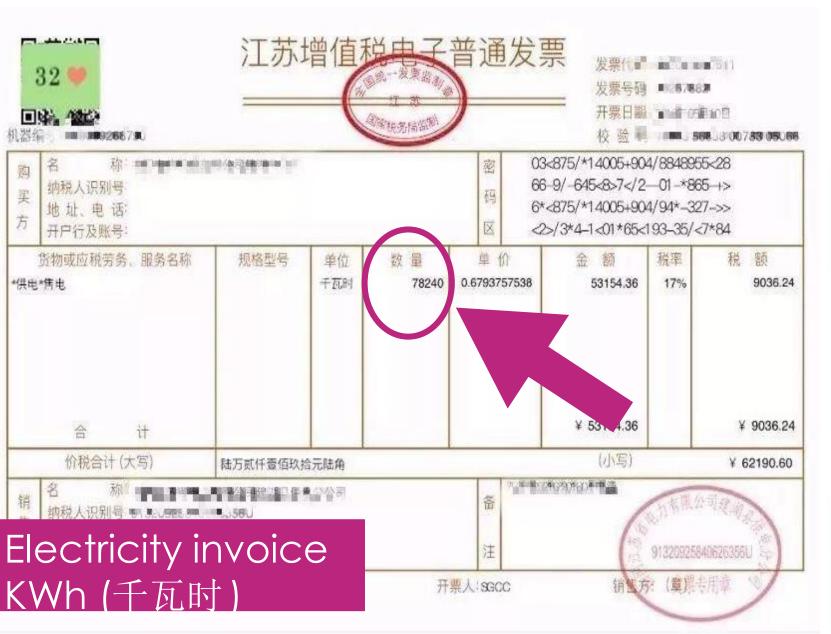


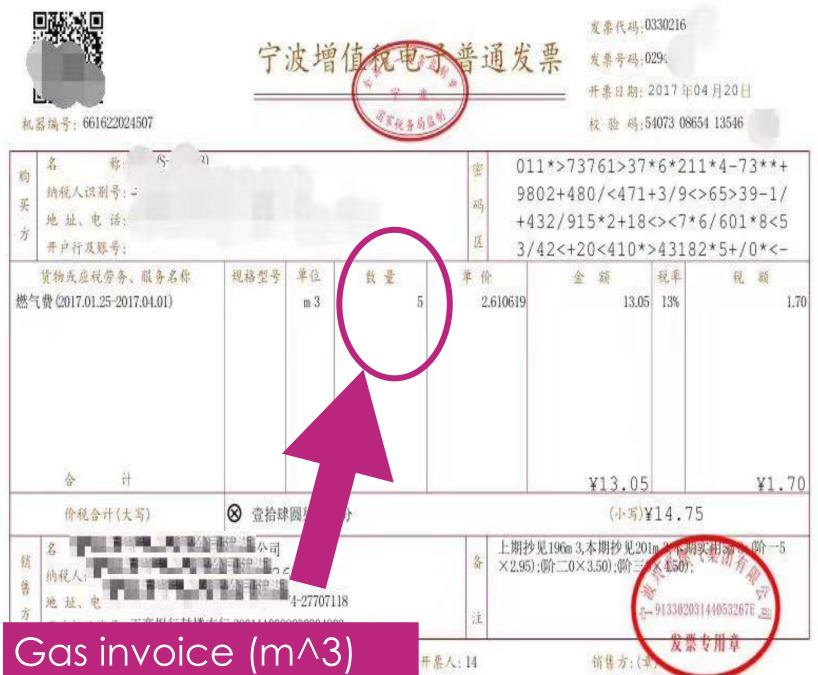
#### Natural Gas (LNG)





### Required materials for calculations (examples)





# How to manually calculate your emissions





### 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

### 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)
Singapore, SG	15,590	4042.8	37.2	0.2706
Texas, USA	5,590	8505.8	24.1	0.5377
Shenzhen, CH	17,534	9156.9	30.5	0.1925
Total	38,714	21,706	92	1

SCOPE 1 = 
$$\sum$$
 (Annual direct energy source usage)<sub>i</sub>\* (Emission factor)<sub>i</sub>

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

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

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



### Electricity factors

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

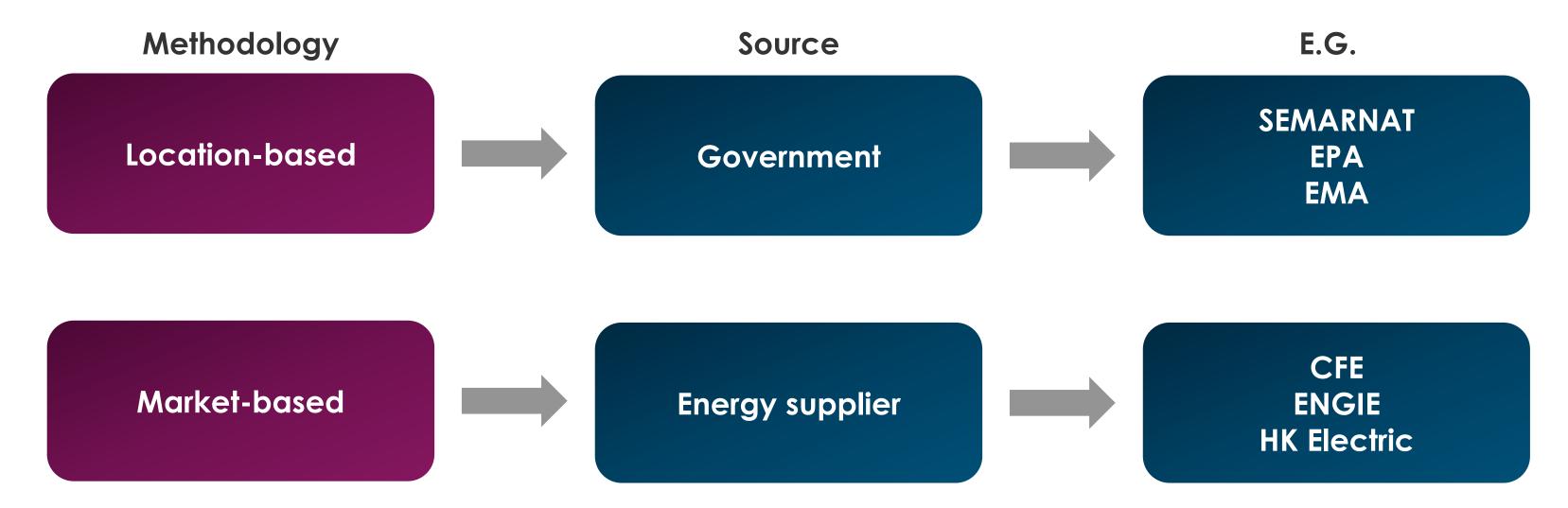
Where you can find the electricity factor for your country/region varies but it usually is provided either by the following options:

- 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





### **GHG Emissions Methodology**



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 **EMA:** Electricity Market Authority

CFE: Comisión Federal de Electricidad (México)

### Electricity factors

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

#### (二) 纽织利订2023年段数据质重控利订划

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。

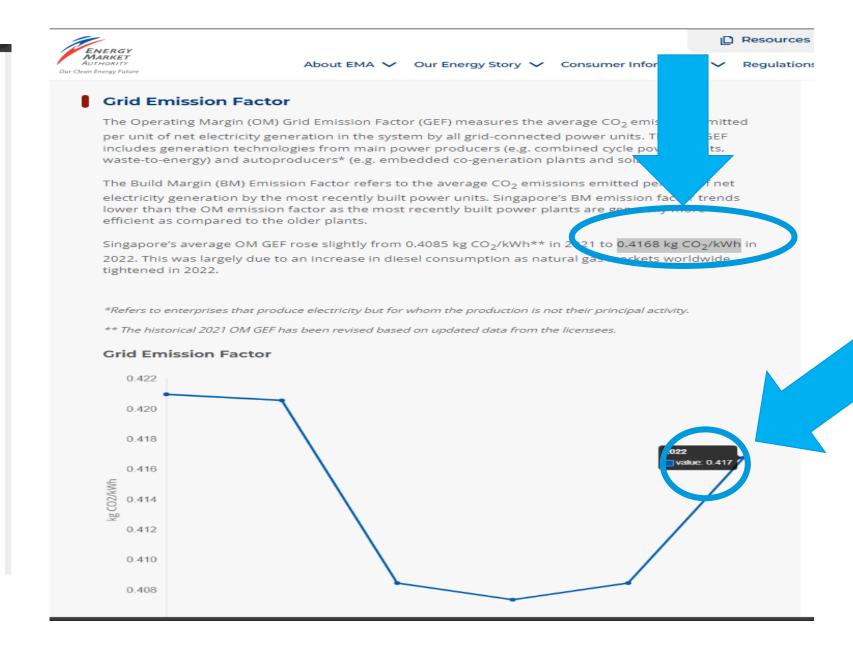
#### (四) 组织报送年度温室气体排放报告

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《按管报告指南》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

#### (六) 强化数据质量日常监管

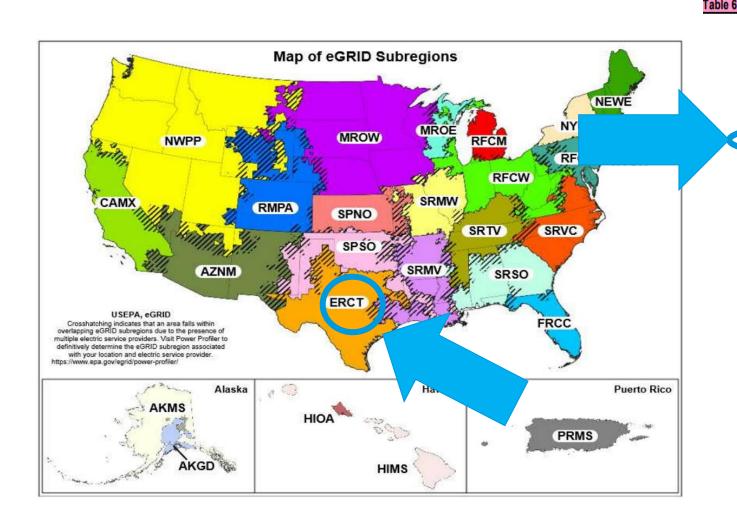


https://www.ema.gov.sg/resources/singapore-energystatistics/chapter2



### Electricity factors

For Texas (US), Company A goes to the EPA Emissions factor hub where they go to table 6, find their location on the map and note the code (for the case of TX it is "ERCT"), then they go to the table, locate the corresponding factors\*.



		Tot	al Output Emission Factors	S	Non-Baseload Emission Factors					
eGRID Subregion Acronym	eGRID Subregion Name	CO <sub>2</sub> Factor (lb CO <sub>2</sub> / MWh)	CH <sub>4</sub> Factor (lb CH <sub>4</sub> / MWh)	N <sub>2</sub> O Factor (lb N <sub>2</sub> O / MWh)	CO <sub>2</sub> Factor (lb CO <sub>2</sub> / MWh)	CH <sub>4</sub> Factor (lb CH <sub>4</sub> / MWh)	N <sub>2</sub> O Factor (lb N <sub>2</sub> O / MWh			
AKGD	ASCC Alaska Grid	1,052.1	0.088	0.012	1,224.5	0.123	0.0			
AKMS	ASCC Miscellaneous	495.8	0.023	0.004	1,587.9	0.069	0.0			
AZNM	WECC Southwest	776.0	0.051	0.007	1,205.2	0.065	0.0			
CALV	WECC California	497.4	0.030	0.004	1,055.0	0.049	0.0			
ERCT	ERCOT All	771.1	0.049	0.007	1,194.9	0.067	0.0			
FNOO	FRCC All	813.8	0.048	0.006	1,044.4	0.056	0.0			
HIMS	HICC Miscellaneous	1,155.5	0.124	0.019	1,619.2	0.157	0.0			
HIOA	HICC Oahu	1,575.4	0.163	0.025	1,810.3	0.177	0.02			
MROE	MRO East	1,479.6	0.133	0.019	1,672.9	0.147	0.02			
MROW	MRO West	936.5	0.102	0.015	1,794.7	0.183	0.02			
NEWE	NPCC New England	536.4	0.063	0.008	923.3	0.073	0.0			
NWPP	WECC Northwest	602.1	0.056	0.008	1,515.7	0.134	0.01			
NYCW	NPCC NYC/Westchester	885.2	0.023	0.003	971.8	0.021	0.00			
NYLI	NPCC Long Island	1,200.7	0.135	0.018	1,316.7	0.039	0.00			
NYUP	NPCC Upstate NY	274.6	0.015	0.002	920.1	0.043	0.00			
PRMS	Puerto Rico Miscellaneous	1,593.5	0.087	0.014	1,670.9	0.074	0.0			
RFCE	RFC East	657.4	0.045	0.006	1,278.7	0.097	0.0			
RFCM	RFC Michigan	1,216.4	0.116	0.016	1,597.3	0.149	0.02			
RFCW	RFC West	1,000.1	0.087	0.012	1,843.6	0.178	0.02			
RMPA	WECC Rockies	1,124.9	0.101	0.014	1,676.4	0.129	0.0			
SPNO	SPP North	952.6	0.100	0.014	1,943.0	0.198	0.02			
SPSO	SPP South	970.4	0.072	0.010	1,528.2	0.105	0.0			
SRMV	SERC Mississippi Valley	801.0	0.040	0.006	1,220.7	0.073	0.0			
SRMW	SERC Midwest	1,369.9	0.151	0.022	1,808.6	0.186	0.02			
SRSO	SERC South	893.3	0.064	0.009	1,354.8	0.092	0.0			
SRTV	SERC Tennessee Valley	933.1	0.082	0.012	1,671.0	0.152	0.02			
SRVC	SERC Virginia/Carolina	623.0	0.047	0.007	1,308.8	0.099	0.0			
US Average	US Average	823.1	0.066	0.009	1,405.3	0.107	0.01			

Source: EPA eGRID2022, January 2024 (Summary Tables - Table 1. Subregion Output Emission Rates)

ttps://www.epa.gov/system/files/documents/2024-01/egrid2022\_summary\_tables.xis

\*The EPA does not provide a direct CO2e factor, they disclose it separately by CO2, CH4 and N2O. In order to convert to CO2e we need to multiply each one by their Global Warming Potential (GWP; found on table 11) and then, add the up. In this case the Factors and potentials are: CO2 (Factor: 771.1, GWP: 1), CH4 (Factor: 0.049, GWP: 25), N2O (Factor: 0.007, GWP: 298). By multiplying each factor by their GWP and then adding up we get a CO2e emissions factor of **774.31 lb CO2e / MWh.** 



### 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:

SCOPE 2 = (Annual electricity usage) \* (Electricity Factor)

SCOPE 
$$2_{SG} = (155,900 \, kWh) * \left( \mathbf{0.4168} \, \frac{kg \, CO2e}{kWh} \right) = 6,498 \, kg CO2e$$

SCOPE 
$$2_{TX} = (55,900 \, kWh) * \left( \mathbf{0.351} \frac{kg \, CO2e}{kWh} \right) = 1,965 \, kgCO2e$$

SCOPE 
$$2_{SZ} = (175,340 \text{ kWh}) * \left( \mathbf{0.570} \frac{\mathbf{kg CO2e}}{\mathbf{kWh}} \right) = 9,999 \text{ kgCO2e}$$

Last year Data											
Location	Electricity (kWh)	Electricity Factor (kgCO2e/kWh)									
Singapore, SG	155,900	0.4168									
Texas, USA	55,900	0.351									
Shenzhen, CH	175,340	0.570									
Total	387,140										

SCOPE  $2_{Total} = 6,498 \ kgCO2e + 1,965 \ kgCO2e + 9,999 \ kgCO2e = 18,463 \ kgCO2e$ 

Converting to metric tons

$$184,627 \ kgCO2e * \frac{1 \ ton}{1,000 \ kg} = 184.63 \ ton \ CO2e$$





# How to calculate your emissions using excel



### 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)							
Singapore, SG	15,590	37.2295	4042.82	0.2704							
Texas, USA	5,590	24	8505.82	0.5373							
Shenzhen, CH	17,534	30	9156.911	0.1922							
Total	38,714	92	21,706	1.0							

Categ y 类别		Data to be reported 需要申报的数据	Type of Field 数据类型 ▼	Description 指述	01_JAN F →	02_FEB	03_MAR ≡J	04_APR	05_MAY E.A	06_JUN 大月	07 30L	08_AUG	09_SEP J.H	- 100T + 3	11_NO.	12_DEC + _ H	Annual Total 年度总额 ▼
		Natural Gas (M3) 天然气(M3)	[numerical] 數字]	Please provide your inputs in M*; 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	0.085	0.083	0.083	0.083		1.000
ءِ ا		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; 清用小数点 "."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
SCOPE 1	三 三 三 1	Gasoline (Liters) 汽油(升)	[numerical] 數字]	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	,,908.83	1,808.63	21,706
ources (5	sources (score) 能源 (范围1)	Diesel (M3) 柴油(M3)	[numerical] 數字]	Please provide your inputs in M*; 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
Fnerav	Ellergy 直接	Ethanol (M³) 乙醇(M³)	[numerical] 数字]	Please provide your inputs in M*; 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
Direct	Dilec	Biodiesel (Liters) 生物柴油(升)	[numerical] 數字]	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
<b>联</b> 原		Fuel data source 燃料数据来源	Invoices发票	Plasca provida unur inpute in KWh - Plasca	Invoices发票	Invoices发 票											

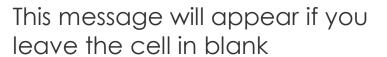


# **Energy from fuels**

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 12_DEC	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
3	0.083	1.000		54	5.94	Natural Gas (MWh) 天然气(MWh)
0	0.00	0		0	0.00	LP Gas (MWh) 液化石油气 (升)
3	1,808.83	21,706		39	201.71	Gasoline (MWh) 汽油(MWh)
7	7.67	92		26	935.68	Diesel (MWh) 柴油(MWh)
0	0.00	0	Please review the Energy	0	0.00	Ethanol (MWh) 乙醇 (MWh)
0	0.00	0	section at the right side of the table >	0	0.00	Biodiesel (MWh) 生物柴油(MWh)
7	Invoices发 票 32,261.67	387,140.00	请查看表格右侧的能源部分		369.17	Non Renewable Electricity (MWh) 不可再生电力 (MWh)

Please enter the % on the left cell	Natural Gas (MWh)
请在左侧单元格中输入%	天然气(MWh)
Please enter the % on the left cell	LP Gas (MWh)
请在左侧单元格中输入%	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	Diesel (MWh)
请在左侧单元格中输入%	柴油(MWh)
Please enter the % on the left cell	Ethanol (MWh)
请在左侧单元格中输入%	乙醇 (MWh)
Please enter the % on the left cell	Biodiesel (MWh)
请在左侧单元格中输入%	生物柴油(MWh)



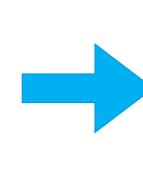


# Calculating Scope 2 emissions

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.

Location	Electricity (kWh)	Electricity Factor	Units
Singapore, SG	15,590	0.4057	kgCO2e/kWh
Texas, USA	5,590	234.496	lbCO2e/MWh
Shenzhen, CH	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 AII)	55,900	N/A	774.3100	IbCO2e / 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

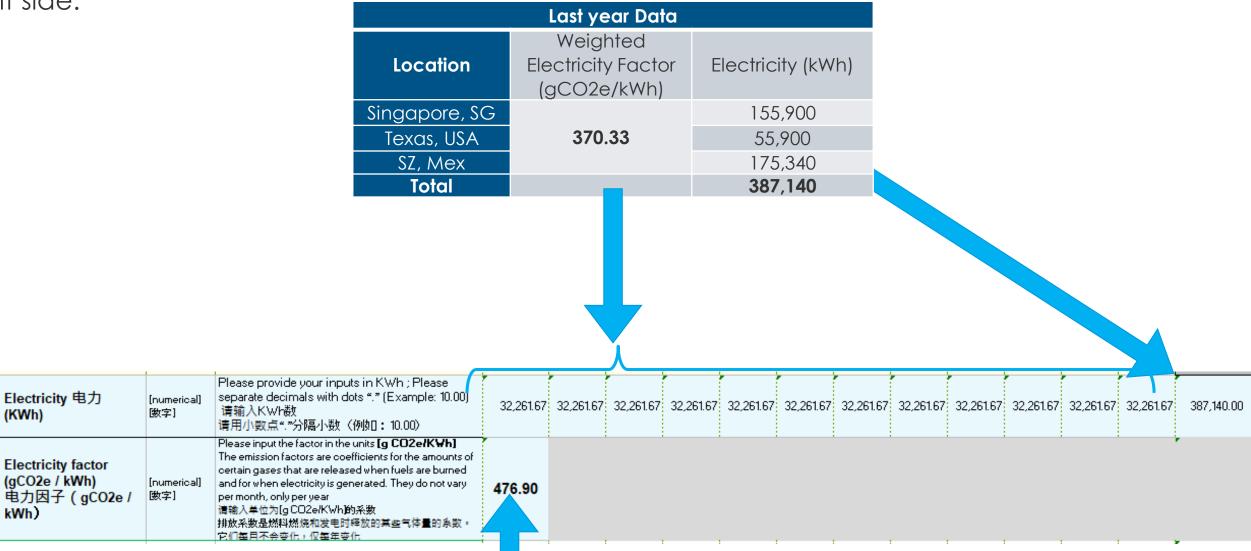


# Calculating Scope 2 emissions

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.





## Renewable & Non-Renewable Energy

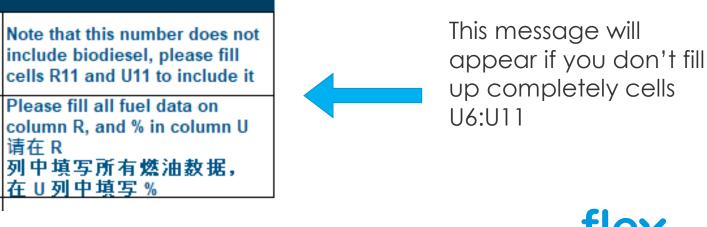
Below the Electricity factor row, you can disclose:

- 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)

_			它们基月不会变化,仅基年变化														
	Renewable electricity purchased (kWh) 购买的可再生电力	[numerical] 數字]	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	
wable energry		[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
Rene	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								

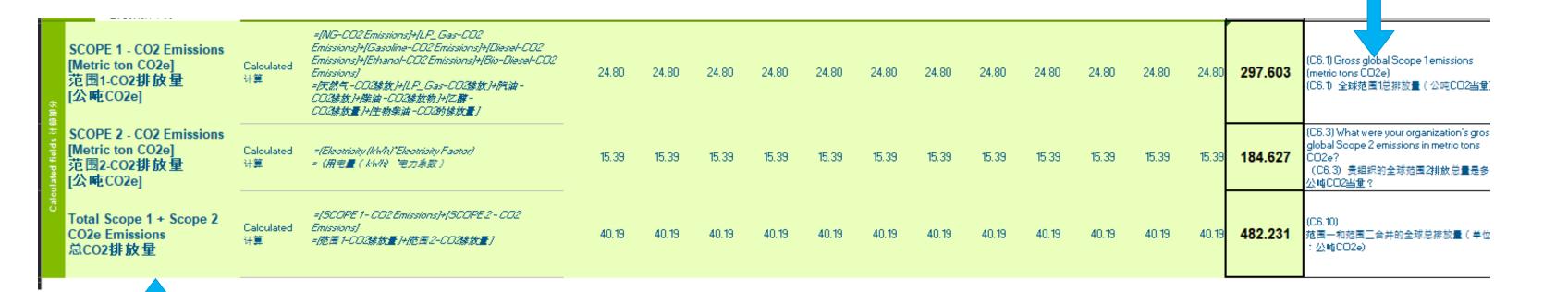




# Calculating Scope 1 & 2 emissions

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





## **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.

Data calculated from Env Templa	te tab	Emissions allocation date	a	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 <b>吨</b> 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		
COPE 2 - CO2 Emissions [Metric ton CO2e] 范围2-CO2排放量 [公 <b>吨</b> CO2e]	14.34	Total revenue of products/services produced 生产的产品/服务的总额	\$ 20,000,000.00		
Fotal 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 <sub>2</sub> e 排放量(公 <b>吨</b> 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"



# Flex Excel GHG Emissions Target Tool

				get that was active in the reporting year? 您是否有有效的排放目标?	'
targ	es of jets:	ABSOLUTE: Total quantity of greenhouse gas emissions em 绝对目标: 温室气体排放总量			>的二氧化碳当量排放吨数
INTENSITY: Compares the emissions to some unit of economic 强度目标: 排放量和某种经济产出进行对比			nic output	Units example: $\frac{Tons\ CO_2e}{Revenue\ /\ product}$ reduced	少的 <u>二氧化碳当量排放吨数</u> 营业额/产品数量
	(Ma	Question ndatory questions are marked with an asterisk ")	Your answer	Notes 注释	Location in the CDP questionnaire CDP问卷中的位置
		Scope(s) of your taget* 范围*	Scope 1范围一		
	ABSOLUTE TARGET 绝对目标	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	(0.4.4.) Bendide debite eference bendude
		Is your base year the same year you reported in the "Env Tab" of this file?	Yes 是		(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.
		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.	(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。
		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	7.0200000000000000000000000000000000000
		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	
2		Scope(s) of your taget* 范围*	Scope 2 范围二		
		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	
provide		Is your base year the same year you reported in the "Env Tab" of this file?	Yes 是		
Data to		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	
3	ISITY TARGET 强度目标	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		(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).
	·ENSITY 强原	Intensity figure in base year for all selected Scopes	n nn3293912	If you answered "Yes" in the previous columns and filled the env tempolate tab it will autopopulate. Otherwise divide the	(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。





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

#### Absolute target (C4.1a):

- 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 (C4.1b):

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



# **Energy Calculations**



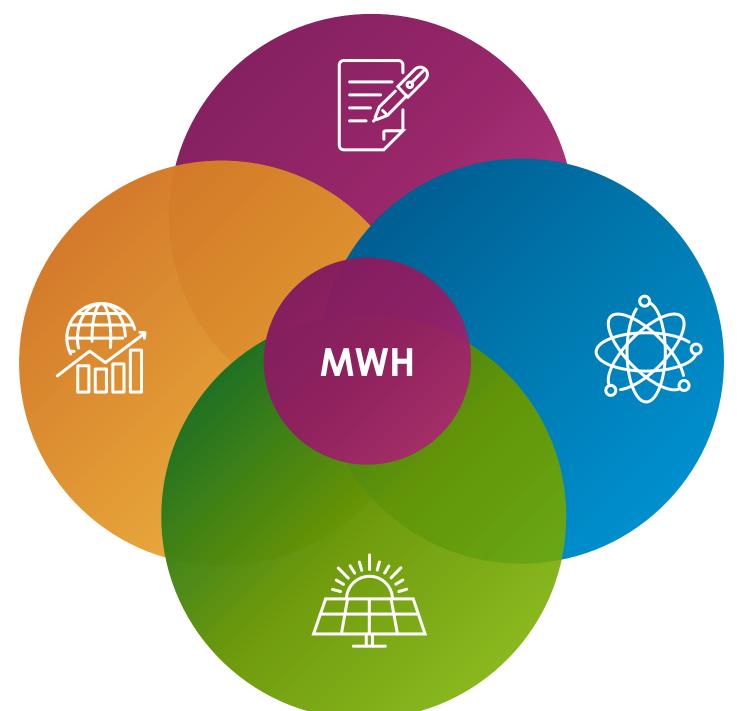
# **CDP Energy Disclosure**

#### **SOURCING METHOD\***

- Bundled and unbundled energy
- Tracking system

#### **REGION**

Country



#### **ENERGY CARRIER**

- Electricity
- Steam
- Heat
- Cooling

#### **ENERGY SOURCE**

- Non-Renewable
- Renewable
- Low Carbon







# Required materials for energy calculation

#### **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 marketbased

# **Procured Energy 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



# **Energy Conversions**

#### C8. 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

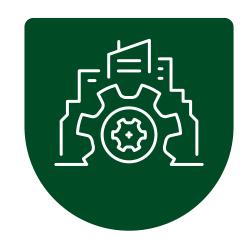
Location	Electricity (kWh)	Gasoline (Lt)	Diesel (m^3)	Natural Gas (m^3)
Singapore, SG	15,590	4042.8	37.2	0.2706
Texas, USA	5,590	8505.8	24.1	0.5377
Shenzhen, CH	17,534	9156.9	30.5	0.1925
Total	38,714	21,706	92	1

Location	Electricity (MWh)	Gasoline (MWh)	Diesel (MWh)	Natural Gas (MWh)
Singapore, SG	15.59	36.81	373.24	1.57
Texas, USA	5.59	81.53	254.51	3.27
Shenzhen, CH	17.53	83.38	306.02	1.11
Total	38.71	201.72	933.77	5.95



# Renewable Energy Certificates

CERTIFICATES
EQUIVALENT TO
1 MWH OF
RENEWABLE
ELECTRICITY





DOESN'T SUPPLY ELECTRICITY

ALLOWS AN
ORGANIZATION
TO CLAIM CO2
AVOIDANCE IN
A MARKETBASED
METHODOLOGY





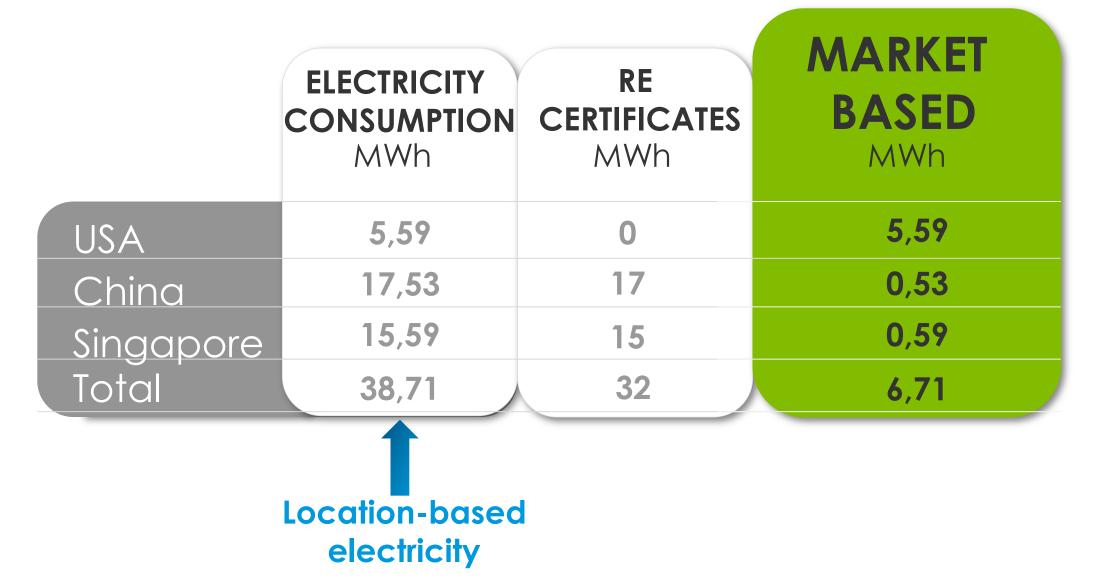
ONLY
GENERATORS
WHO HAVE
BEEN CERTIFIED
ARE ABLE TO
SELL ATTRIBUTES



## Practical Case 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





# FAQs and Resources



# Frequently asked questions





# Frequently asked questions



- 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 enterprisedata at the ultimate parent company level. Doing so avoids double counting and reduces reporting effort. For your CDP questionnaire, please provide as much company-wide data and information as you have available.
- What if I do not want to publicly disclose some information on the questionnaire?

Suppliers can choose to disclose Public or Non-Public, if Non-Public is chosen only Flex will have access to the information.

Supply Chain (SC) section of the questionnaire is always treated as Non-Public Information.

Please note that it is not possible to access the questionnaires through the Internet Explorer browser. Please, consider using another browser to disclose through our platform.



### Further useful resources

#### Resources for Disclosure:

- **▼** CDP Guidance for Companies
- TAQs Find answers to common queries
- ▼ CDP Supply Chain Report: Changing the Chain
- **▼** CDP-ACS: Guidance for Company Classification
- Working 9-5: A guide for Small Office Based Organizations'
- Net Climate, Cool Commerce: A Service Sector Guide to Greenhouse Gas Management
- **■** On-Demand Technical Support:

For all geographic regions, contact <a href="https://casemgmt-crm.cdp.net/">https://casemgmt-crm.cdp.net/</a>

#### GHG Emissions Accounting and Science-Based Targets:

- ▼ GHG Protocol Corporate Standard
- ▼ GHG Protocol Calculation Tools
- ▼ CDP Technical Note on Science-Based Targets
- ▼ FAQs- The Science Based Targets Initiative

# Flex's Supply Chain Resource Webpage

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

- ✓ Flex GPSC Sustainability
- ✓ Contact your GCM



## **Emissions calculation tools**

Here you can find some recommended files for further information and to assist you in your GHG emission calculations and Renewable energy calculations:



2024 GHG emissions tool V1.4.0.xlsx



GHG Emissions tool 2024 - Quick guide.pdf

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

- √ Flex GPSC Sustainability (flex.gpsc@flex.com)
- ✓ Contact your GCM

Please help us improve by answering a **quick survey** that will launch after the webinar

Supplier training survey:





flex

# Thank you

