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# GHG EMISSIONS REPORT

In according to UNI EN ISO 14064:2019 and GHG Protocol

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## Objectives and principles

The voluntary Greenhouse Gas (GHG) emissions report describes the emissions for Confezioni e Facon S.r.l. located in Via dell'artigianato and Via I maggio, Industrial area in Soncino, CR - Italy).

## Period of reference

This GHG emission report reflects the situation of Cieffe S.r.l. during 2022 year and to be thorough, information about 2020 and 2021 years are reported too.

## Organizational boundaries

In order to define the boundaries of the organization the operational *control approach* is selected, since it allows greater potential for reducing GHG emissions, in according to UNI EN ISO-1:2019.

## Reporting boundaries

CO2 potential source	Scope
Natural gas	1
Air-conditioning F-Gas	1
Fuel	1
EE	2

## Methodology

This GHG emissions report is carried out in accordance with UNI EN ISO 14064-1 et 2:2019 and GHG Protocol Corporate Standard.

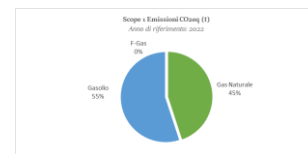
The quantification of GHG emissions is based on *calculation method*, such as is reported below:

GHG emissions = activity consumption \* emission factor

CO<sub>2</sub>eq = GHG emissions \* GWP

## Scope 1: Total direct CO<sub>2</sub>eq emissions

Ton CO <sub>2</sub> eq Scope 1				
Year	Natural gas	Fuel	F-Gas	Total
2020	42,7	51,1	0,00	93,8
2021	44,2	60,1	0,00	104,4
2022	43,3	53,0	0,00	96,3



## Scope 2: Total indirect CO<sub>2</sub>eq emissions

EE - Location and market- based methods

EE [kWh]				
Year	purchased by national grid	tCO <sub>2</sub> eq (location-based method)	tCO <sub>2</sub> eq (market- based method)	Δ tCO <sub>2</sub> eq (location/market)
2020	192.349	48,7	85,15	57%
2021	219.541	57,1	96,27	59%
2022	241.183	73,6	110,24	67%

EE - Emissions reduction by PV plant - Market-based method

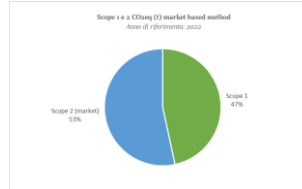
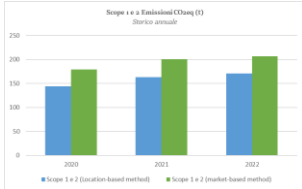
Year	EE purchased (kWh)	Potential emissions without PV plant (tCO <sub>2</sub> eq)	Emissions avoid (tCO <sub>2</sub> eq)	Final tCO <sub>2</sub> eq	CO <sub>2</sub> eq emissions reduction
2020	304.494	134,80	49,65	85,15	-37%
2021	333.883	146,41	50,14	96,27	-34%
2022	374.472	171,17	60,93	110,24	-36%

EE - Emissions reduction by C.O. - Market-based method

Year	EE purchased (gen-feb 2022)	Potential emissions without C.O. (tCO <sub>2</sub> eq)	Emissions avoid (tCO <sub>2</sub> eq)	Final tCO <sub>2</sub> eq	Δ tCO <sub>2</sub> eq
2022	47.429	110,24	88,56	21,68	-80%

### Scope 1 & 2: Total CO<sub>2</sub>eq emissions

Company		2022		
Scope	Activity Type	2020	2021	2022
Scope 1	Stationary combustion	42,69	44,24	43,26
	Mobile combustion	51,12	60,15	52,99
	Fugitive emissions from air-conditioning	0,00	0,00	0,00
<b>Other fugitive or process emissions</b>				
<b>Scope 1 - Total</b>		<b>93,81</b>	<b>104,39</b>	<b>96,26</b>
Scope 2	Purchased electricity - location based	49,97	58,82	74,50
	Purchased electricity - market based	85,15	96,27	110,24
	Purchased heat and steam	0,00	0,00	0,00
	<b>Scope 2 - Location based + heat and steam</b>	<b>49,97</b>	<b>58,82</b>	<b>74,50</b>
<b>Scope 2 - market based + heat and steam</b>		<b>85,15</b>	<b>96,27</b>	<b>110,24</b>



In 2022, Cieffe S.r.l. had a potential emission of 206,5 tCO<sub>2</sub>eq.

2022	Sources	Emissions tCO <sub>2</sub> eq
Scope 1	Natural gas	43,3
	Fuel	53,0
	F-Gas	-
Scope 2	EE	110,2
<b>TOTAL CO<sub>2</sub>eq (t)</b>		<b>206,5</b>

Taking into account the EE produced by PV plant, the avoid emissions are 60,9 tCO<sub>2</sub>eq (-29%).

Taking into account the Origin Certification of electricity (referring to March-December 2022), the avoid emissions are 88,6 tCO<sub>2</sub>eq (-43%).

2022	Sources	Emissions tCO <sub>2</sub> eq
Scope 1	Natural gas	43,3
	Fuel	53,0
	F-Gas	-
Scope 2	EE	110,2
<b>Reduction by C.O. EE</b>		<b>-88,6</b>
<b>TOTAL CO<sub>2</sub>eq (t)</b>		<b>117,9</b>

The emission reduction of 2022 by PV plant and C.O. is of 149,5 tCO<sub>2</sub>eq. The avoid part of emissions is equal to 72% of company consumption.

During the year 2022, an emission of 117 tCO<sub>2</sub>eq is associated with Cieffe S.r.l.

### Emission reduction projects

The company will work continuously to reduce its emissions towards the achievement of the net-zero emissions target through the following emission reduction actions:

- ✓ Certifies carbon credits

The purchasing of certifies carbon credits could represent the solution to reduce company's carbon footprint. Three different type of certifies carbon credit are listed below:

- VER (Verified Emission Reduction):
- CER (Certified Emission reduction):
- VCU (Verified Carbon Unit):

### Advantages:

- Increasing of Company competitiveness;
- Increasing marketing positioning
- Different know-how by competitors

- ✓ Electric vehicle

The second reduction project is to increase the percentage of electric vehicles, replacing diesel ones.

- ✓ Energy storage - batteries

The possible installation of storage batteries would allow to use electricity (produced by photovoltaic plants) that would otherwise be reintroduced into the national grid.

This contribute would be used to recharge electric vehicles.



Source: carboncredits.com