

### 2021 Corporate Carbon Footprint Report

Company:	SF Trade Teknik Tekstil A.Ş
Address:	Textile Location: Akçay Caddesi Zafer Sb. Mahallesi Ayhan Sokak No:14/3 Ege Serbest Bölgesi Gazimir-İzmir-Türkiye Leather Lokasyonu: Akçay Caddesi Zafer Sb. Mahallesi Ayhan Sokak No:13 Ege Serbest Bölgesi Gazimir-İzmir-Türkiye

Goal:	Calculation of greenhouse gas emissions emitted within the boundaries of organization in 2021 as ton carbon dioxide equivalent.		
Scope:	<ul style="list-style-type: none"> <li>• Direct Greenhouse Gas Emissions</li> <li>• Energy indirect Greenhouse Gas Emissions</li> <li>• Indirect Greenhouse Gas Emissions: <ul style="list-style-type: none"> <li>- Business Travel</li> <li>- Wastes</li> <li>- Employee commuting</li> </ul> </li> </ul>	Organizasyon Sınırları:	Control Approach
		Raporlama Sınırları:	Direct GHG emissions reported within the organization and three indirect GHG emissions as a result of the organisation's activities.

System Boundaries	Control Approach	Base Year:	2021
Sector:	Textile	Reporting Year:	2021
Turnover for the reporting year (TL):	-	Reporting Frequency, year:	1
Data Input:	Annual	Reporting Period:	01.01.2021-31.12.2021
Number of Employees:	292 (Textile Location) 380 (Leather Location)		
Work Days:	252	Area (m <sup>2</sup> ):	7408 m <sup>2</sup> (Textile Location) 5124 m <sup>2</sup> (Leather Location)

#### Corporate Carbon Footprint Results

Scope 1: Direct Greenhouse Gas Emissions	398.53 -ton CO <sub>2</sub> e
Scope 2: Energy indirect Greenhouse Gas Emissions	0 -ton CO <sub>2</sub> e
Scope 3: Indirect Greenhouse Gas Emissions	181.19 -ton CO <sub>2</sub> e
Total Emissions:	579.71 -ton CO <sub>2</sub> e
Carbon Intensity-employees:	1.59-ton CO <sub>2</sub> e/kişi
Carbon Intensity-area:	0.08- ton CO <sub>2</sub> e/m <sup>2</sup>

Intended Declaration:	Non-Public
Intended use of the report:	In-house

#### About SF Trade

Founded in 2003 and located in Izmir, Turkey, SF Trade is a quality-minded supplier for leading technical textile and luxury leather goods brands. In 2009, SF Trade invested in the leather business by acquiring a leather handbag and accessories producer that had over 10 years of experience in the sector. Today, SF Trade operates as two manufacturing plants in the Aegean Free Zone and offers mainly production as well as product development, sourcing, procurement, production and logistics for its leather and textile clients.

#### Information of Personnel Involved in the study

No	Name and Surname	Mission	Contact Information
1	Gülay Kunt	Greenhouse Gas Responsible	gulayk@sf-leather.com
2	Mert Gürler	Data Collection Responsible	mertg@sf-textile.com
3	Mustafa Kurtul	Data Collection Responsible	mustafak@sf-textile.com
4	Neşe Alper	Data Collection Responsible	nesea@sf-leather.com
5	Sercan Taşdelen	Data Collection Responsible	sercant@sf-textile.com
6	Buket Küçükkaraca	Sustainability Consultant	buketkucukkaraca@semtrio.com

### Greenhouse Gas Calculation Methodology

Standards Followed:	ISO 14064-1:2018 Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
Allocations:	No Allocations.
Units:	Data for the study are processed in "kg", "L" or "kwh". To exclude unit difference related discrepancy, consumption amounts were aggregated in different units are calculated using Defra's density coefficients.
Carbon Emissions from Biomass Combustion:	-
Methodology Procedure:	Shared in a separate Methodology Procedure Report
Greenhouse Gas Emission Reduction Studies	-
Calculation Methodology	Electricity: tier 2; Natural Gas: tier 3 Any Other Data: Tier 1
Calculation Formula:	Greenhouse Gas Emissions (CO <sub>2</sub> e) = (Consumption) x (Emission Factor)
Reporting Methodology:	It has been reported in accordance with the requirements in BS EN ISO 14064-1:2018, Part 9: GHG Reporting.

#### Refrigerant Gases-Leakege Rate

Equipment	Leakage Rate / Emission Factor	Reference
Air Conditioning	%1	IPCC (2006), Vol 3, Chapter 7, Tablo 7.9
Chiller / Cooling Systems	%2	IPCC (2006), Vol 3, Chapter 7, Tablo 7.9
Water Dispensers:	%0,1	IPCC (2006), Vol 3, Chapter 7, Tablo 7.9
Fridge	%0,1	IPCC (2006), Vol 3, Chapter 7, Tablo 7.9
Refrigerators:	%4	IPCC/TEAP Special Report: Safeguarding the Ozone Layer and the Global Climate System, Volume 9, Fire Protection

#### Emission Factors

Stationary Combustion	IPCC 2006, Volume2, Chapter 2, Table 2.3 - Default Emission Factors For Stationary Combustion in Manufacturing Industries and Construction	<i>EF (kWh olarak)</i> $= \frac{\text{Yakıtın default içeriği } \frac{kg}{Tj} \text{ olarak}}{277777,78 \text{ kWh/Tj}}$
Mobile Combustion – On Road, Of fRoad	IPCC 2006, Volume2, Chapter 3, Table 3.2.1 - Road Transport Default CO <sub>2</sub> Emission Factors and Uncertainty Ranges ve Table 3.2.2 - Road Transport N <sub>2</sub> O and CH <sub>4</sub> Default Emission Factors and Uncertainty Ranges	<i>EF (kg olarak)</i> $= \frac{(\text{Yakıtın Default EF } \frac{kg}{Tj} \text{ olarak}) \times (\text{NCV } \frac{Tj}{Gg} \text{ olarak})}{1000000kg/Gg}$
CO <sub>2</sub> Equivalent	$CO_2 e = (CO_2 \times GWP(CO_2)) + (CH_4 \times GWP(CH_4)) + (N_2O \times (GWP(N_2O)))$	
EF for Electricity	0	The all electricity consumption is supplied from IREC.
Refrigerant Gas	Defra, 2021, Refrigerant & other	
Fire Extinguisher	CO <sub>2</sub> Calculation: IPCC Fifth Assessment Report, 2014 (AR5) (Biogenic Carbon)	
Employee Commuting	<a href="https://theicct.org/sites/default/files/publications/EU-LCV-CO2-2030_ICCTupdate_20190123.pdf">https://theicct.org/sites/default/files/publications/EU-LCV-CO2-2030_ICCTupdate_20190123.pdf</a>	
Business Travel	Defra, 2021, Business travel	
Waste Disposal	Defra, 2021, Waste Disposal	
Waste Transportation	Defra, 2021, Freightng goods	
Net Calorific Value (NCV)	IPCC 2006 Vol 2, Chapter 1 Tablo 1.2	

#### Utility Meter Uncertainty Monitoring Table

Meter No	Type	Location	Calibration Report No	Uncertainty %
-	Electricity	Textile		1
-	Electricity	Leather		1

#### Uncertainty Calculations

Confidence Interval of the Uncertainty:	%95	Reference: IPCC, Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories
Uncertainty Methodology:	GHG Uncertainty Tool	
Calculated Uncertainty::	% 5,87	
Level of Trust:	Reasonable	

SF TRADE GREENHOUSE GAS RESULTS, 2021				TOTAL
Emission Scope	Emission Type	Location	Emission Type	ton CO2e
Direct Greenhouse Gas Emissions	Mobile Combustion- On Road	Textile	Diesel	20.85
	Mobile Combustion- On Road	Leather	Diesel	8.57
	Mobile Combustion- On Road	Textile	Gasoline	20.86
	Mobile Combustion- On Road	Leather	Gasoline	8.57
	Mobile Combustion- Off Road	Textile	Diesel	5.85
	Mobile Combustion- Off Road	Leather	Diesel	2.40
	Fugitive Emissions	Textile	Refrigerant Gases	326.28
	Fugitive Emissions	Leather	Refrigerant Gases	1.98
	Fugitive Emissions	Textile	Fire Extinguisher Systems	3.15
	Fugitive Emissions	Leather	Fire Extinguisher Systems	0.00
<b>Subtotal</b>				<b>398.53</b>
Indirect GHG Emissions From Imported Energy	Imported Electric			0
<b>Subtotal</b>				<b>0</b>
Indirect GHG Emissions	Business Travels		Textile	20.54
	Business Travels		Leather	2.78
	Employee Commuting		Textile	91.22
	Employee Commuting		Leather	61.42
	Wastes		Textile	4.25
	Wastes		Leather	0.95
	Transportation of Wastes		Textile	0.03
	Transportation of Wastes		Leather	0.01
<b>Subtotal</b>				<b>181.19</b>
<b>TOTAL</b>				<b>579.71</b>

Unit Conversion of Fuel Densities		
Commonly Used Fossil Fuels	Density - kg/m <sup>3</sup>	Density – liters/ton
Aviation Spirit	729,93	1.370,00
Aviation Turbine Fuel	800,00	1.250,00
Coal (Domestic)	850,00	1.176,00
Diesel (100% mineral diesel)	843,17	1.186,00
Diesel (average biofuel blend)	846,17	1.181,80
Fuel-oil	983,28	1.017,00
Gas Oil	853,97	1.171,00
LPG	529,75	1.887,69
Natural Gas	0,80	1.255.833,57
Other Petroleum Gas	366,30	2.730,00
Petrol (100% mineral petrol)	741,84	1.348,00
Petrol (average biofuel blend)	744,17	1.343,79
Propane	514,93	1.942,00
<b>Other Fuels</b>		
Biodiesel (ME)	890,00	1.124,00
Biogas	1,15	869.565,00
Biomethane	0,73	1.379.355,67
CNG	175,00	5.714,00
Landfill Gas	1,30	769.231,00
LNG	452,49	2.210,00
<b>Gases</b>		
Methane (CH <sub>4</sub> )	0,72	1.397.112,11
Carbon Dioxide (CO <sub>2</sub> )	1,96	509.290,00

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