



2020 Corporate Carbon Footprint Report



ABOUT US,

Ekoteks Laboratory was founded in 1998, as a participation of IHKIB (Istanbul Ready-to-wear and Clothing Exporters Association). With its trained, experienced and dynamic staff, Ekoteks operates accredited test methods on textile, footwear, toys, childcare products, cosmetics, plastic and accessories, water and wastewater.

Ekoteks supports the exporters to develop their R&D activities and to set up an infrastructure for product development activities.

Ekoteks Laboratory has also surveillance status; therefore, companies become as brands on worldwide market. Today, it is obvious that the most important points of customer satisfaction is to understand customer needs and quote the best prices as well highquality service.

Apart from testing, seminars, symposium, workshop, trainings are hold regularly to contribute to the promotion of primarily export organizations and company.



Ekoteks and Sustainability

Ekoteks Laboratory adopts UN goals and works to fulfill its responsibilities. Social health and safety, environmentally friendly solutions attract and Ekoteks try to be involved. This carbon footprint report link to the SDGs 7, 13, 15 and 17.

The carbon footprint of Ekoteks evaluated by direct greenhouse gas emissions and indirect greenhouse gas emissions. Direct emissions related to transport process, natural gas consumption and air conditioner gases. Indirect emissions related to energy consumption and transportation of staffs.

This Carbon footprint report was prepared according to TS EN ISO 14064-1 standard and GHG emission inventory. The calculation methodology and tools were stated in following pages. All the data which used for calculation were based on internal consumption reports during the 2020.

The results provide the amount of all greenhouse gas emissions according to the GHG Protocol. Therefore, the amount of the carbon footprint is given in kilogram/tons CO2 equivalents (CO2e).





RATORY AND INSPECTION SERVICES INC.						
	GHG Quant	ification Methodology				
Standard:	EN ISO 14064-1:2012: Greenhouse gases – Specifications with guidance at the organization					
	level for quantification and reporting of greenhouse gas emissions and removals.					
Allocation:	No allocation conducted.					
Units:	Considered as 'kg' or 'kWh'. See Appendix 2 for the density factor per DEFRA.					
Combustion of	Yok					
biomass:	Duccounts of in the common de	Cusanhaura Cas Emissian Information Managament				
Methodology Procedure:	Presented in the company's Greenhouse Gas Emission Information Management					
	Procedure.					
Activities to reduce GHG emissions:	No activity to be in placed within the reporting period.					
Quantification	Tier 1					
methodology per	IICI I					
IPCC 2006:						
Quantification	Individual GHG emission amo	ount (CO2e) = (Consumption Amount) x (Emission Factor)				
equation:	marviada Grid emission ame	runt (COZE) - (Consumption Amount) x (Emission ructor)				
GWP values:	IPCC 5th Assessment Report					
Reporting method:	ISO 14064-1:2012; Section 7.3 GHG report content					
	, , , , , , , , , , , , , , , , , , , ,					
	Refrigerant	Leakage Assumptions				
Type of Technology	Leakage Percent	Reference				
Residential and	%1	IPCC (2006), Vol 3, Chapter 7, Table 7.9				
Commercial A/C,						
including Heat Pumps						
Chillers	%2	IPCC (2006), Vol 3, Chapter 7, Table 7.9				
Domestic	%0,1	IPCC (2006), Vol 3, Chapter 7, Table 7.9				
Refrigeration						
Fire extinguisher	%4	IPCC/TEAP Special Report: Safeguarding the Ozone Layer and				
		the Global Climate System, Volume 9, Fire Protection				
	Ew	nission Factors				
Stationary	IPCC 2006 Vol 2, Chapter 2	,				
Combustion	Tablo 2.3	Yakıtın default içeriği $\frac{kg}{Tj}$ olarak				
Mobile Combustion –	IPCC 2006 Vol 2, Chapter 3,	$EF(kWh\ olarak) = \frac{T}{277777,78\ kWh/TI}$				
On Road	Tablo 3.2.1 ve 3.2.2	,,				
Mobile Combustion –	IPCC 2006 Vol 2, Chapter 3,					
Off Road	Tablo 3.3.1	EF (kg olarak)				
Mobil Yanma - Deniz	IPCC (2006), Vol 2, Chapter					
	3, Tablo 3.5.2 ve Tablo	(Yakıtın Default EF $\frac{kg}{Tj}$ olarak) × (NCV $\frac{Tj}{Gg}$ olarak)				
	3.5.3	$=\frac{1000000kg/Gg}$				
CO2 equivalents	$CO2e = (CO2 \times GWP(CO2)) + (CH4 \times GWP(CH4)) + (N20 \times GWP(N20))$					
Electricity EF:	·	Firma				
Refrigerants GWPs:	DEFRA, 2021					
Net Calorific Value	IPCC 2006 Vol 2, Chapter 1 T	able 1.2				
(NCV):	,					



			G	HG Emissions			
Direct Greenhouse Gas Emission							
Emission Scope	Emisyon Source	Consuption Amount	Unit	Emission Factor	Unit	Carbon Footprint ton CO2 equivalent	Emission Factors Reference
Constant Burning	Natural Gas	251887.27	kWh	0.2021	kgCO2 e/kWh	50.93	IPCC (2006), Vol 2, Chapter 2, Tablo 2.3
Constant Burning	Natural Gas	587895.88	kWh	0.2021	kgCO2 e/kWh	118.85	IPCC (2006), Vol 2, Chapter 2, Tablo 2.3
Mobile Burning (On Road)	Diesel Consumption	15797.92	kg	3.2404	kgCO2 e/kg	51.2	IPCC (2006), Vol 2, Chapter 3, Tablo 3.3.1
Mobile Burning (On Road)	Diesel Consumption	3884.21	kg	3.2404	kgCO2 e/kg	12.59	IPCC (2006), Vol 2, Chapter 3, Tablo 3.3.1
Mobile Burning (On Road)	Diesel Consumption	6782.65	kg	3.2404	kgCO2 e/kg	21.98	IPCC (2006), Vol 2, Chapter 3, Tablo 3.3.1
Mobile Burning (On Road)	Motor Gasoline — Oxidation Catalyst	2267.8	kg	3.2032	kgCO2 e/kg	7.27	IPCC (2006), Vol 2, Chapter 3, Tablo 3.2.1 ve Tablo 3.2.2
Mobile Burning (Off Road)	Benzin - 4 zamanlı	418.82	kg	3.1517	kgCO2 e/kg	1.33	IPCC (2006), Vol 2, Chapter 3, Tablo 3.3.1
Refrigerant gases	Kyoto protokol - standart, R410A	0.25	kg	2088.0	kgCO2 e/kg	0.53	DEFRA, 2021
			•			264.68	
Fueigo: an	Emigran			Greenhouse			Emission Fosters
Emission Scope	Emisyon Source	Consumptio n Amount	Unit	Emission Factor	Unit	Carbon Footprint ton CO2 equivalent	Emission Factors Reference
Electricity	Company Specific	1059891.0	kWh	0.645	kgCO2 e/kWh	683.63	
Electricity	Company Specific	453910.4	kWh	0.645	kgCO2 e/kWh	292.78	
Electricity	Company Specific	557203.04	kWh	0.0	kgCO2 e/kWh	0.0	
					TOTAL	976.41	



Other Indirect Greenhouse Gas Emissions							
Emission Coverage	Emission Source	Consumpti on Amount	Unit	Emission Factor	Unit	Carbon Footprint ton CO2 equivalent	Emission Factors Reference
Transport	Personel Servisleri(Euro 6)	49872.0	km	0.262	kgCO2e/ km	13.07	Euro 6
Transport	Flight	101381.45	km	0.1299	kgCO2e/ km	13.18	Ecoinvent v3.2
Transport	Personel Servisleri(Euro 6)	63489.74	km	0.2619	kgCO2e/ km	16.64	Euro 6
Transport	Flight	1059947.02	km	0.1299	kgCO2e/ km	137.8	Ecoinvent v3.2
Water Consumption	Water Consumpt ion	3754.0	m3	0.344	kgCO2e/ m3	1.3	DEFRA, 2020
Waste Disposal	Evsel Atık (organik olmayan)- Geri Dönüşüm	1155.0	kg	0.0213	kgCO2e/ kg	0.03	DEFRA, 2021
Waste Disposal	Diğer Atıklar- Düzenli Depolama	2.0	kg	1.0418	kgCO2e/ kg	0.01	DEFRA, 2021
Waste Disposal	Industrial Wastes -Düzenli Depolama	7551.0	kg	0.467	kgCO2e/ kg	3.53	DEFRA, 2021
Waste Disposal	Tıbbi Atıklar- Düzenli Depolama	1626.0	kg	0.467	kgCO2e/ kg	0.76	DEFRA, 2021
Waste Disposal	Tekstil/Gi yim- Yakma	13450.0	kg	0.0213	kgCO2e/ kg	0.29 186.6099999	DEFRA, 2021
					IOIAL	100.0033333	



2020 Ekoteks

CARBON FOOTPRINT REPORT

This Report represents scope 1-2-3 emission results and carbon intensity values.

COMPANY INFORMATION



Name: Ekoteks Sector: Diğer City:

LOCATION INFORMATION



Location: All Locations Industry Type: City:

RESULTS

SCOPE 1 DOECT ON DISSUNS

SCOPE 2 STREET WORKET GOVERN

SCOPE 3 OTHER HIGHEST ONLTH



Combustion: 169.78 ton CO, (64.2%) Transportation: 94.22 ton CO, (35.7%) Cooler Gas: 0.53 ton CO₂ (0.3%) Other: 0 ton CO, (0%)

Electricity: 976.41 ton CO₂ (100.0%) Heat and Steam: 0 ton CO, (0%)



Transportation: 180.69 ton CO₂ (96.9%) Water Consumption: 1.3 ton CO., (0.7%) Waste Disposal: 4.62 ton CO₂ (2.5%)

TOTAL EMISSIONS:

1427.55 ton CO₂

EMISSION SUMMARY



Scope 1: 264.53 ton CO, 18.6%

Scope 2: 976.41 ton CO₂ 68.4%

Scope 3: 186.61 ton CO, 13.1%

PERFORMANCE

CO_eq / Income:

0.0141342

CO₂eq / Personnel: **5.4279468**

CO, eq / Output:



ConnectorPro





EKOTEKS

LABORATORY AND INSPECTION SERVICES INC.



Esenyurt Firüzköy Bulvarı No:29 P.K: 34320 Avcılar - İstanbul / Türkiye



/ekotekslab



/ekotekslab



info@ekoteks.com



/Ekoteks Laboratuvar



/ekoteks