



2021 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 2021.

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).

It neutralized carbon emissions based on scope-II electrical energy by using I-REC certified electrical energy





GHG Quantification 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:	TOR					
Methodology	Presented in the company's Greenhouse Gas Emission Information Management					
Procedure:	Procedure.					
Activities to reduce	No activity to be in placed within the reporting period.					
GHG emissions:						
Quantification	Tier 1					
methodology per						
IPCC 2006:						
Quantification	Individual GHG emission amount (CO2e) = (Consumption Amount) x (Emission Factor)					
equation:						
GWP values:	IPCC 5th Assessment Report					
Reporting method:	ISO 14064-1:2012; Section 7.3 GHG report content					
		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				
		ining Frakess				
Stationary		nission Factors				
Stationary Combustion	IPCC 2006 Vol 2, Chapter	Yakıtın default içeriği $\frac{kg}{Tj}$ olarak				
Mobile Combustion	2 Tablo 2.3	$EF(kWh olarak) = \frac{1}{277777,78 kWh/TI}$				
	IPCC 2006 Vol 2, Chapter	2////,/OKWII/IJ				
- On Road Mobile Combustion	3, Tablo 3.2.1 ve 3.2.2 IPCC 2006 Vol 2, Chapter					
- Off Road	3, Tablo 3.3.1	EE (ha alamah)				
Mobil Yanma - Deniz	<u> </u>	EF (kg olarak)				
IVIODII TAIIIIIA - DENIZ	IPCC (2006), Vol 2,	(Yakıtın Default EF $\frac{kg}{Tj}$ olarak) × (NCV $\frac{Tj}{Gg}$ olarak)				
	Chapter 3, Tablo 3.5.2 ve					
	Tablo 3.5.3					
CO2 equivalents	$CO2e = (CO2 \times GW)$	$P(CO2)) + (CH4 \times GWP(CH4)) + (N20 \times GWP(N20))$				
Electricity EF:						
Refrigerants GWPs:	DEFRA, 2017					
Net Calorific Value	IPCC 2006 Vol 2, Chapter 1	Table 1.2				
(NCV):						



		Uncertainty of the Accounting
Confidence level:	%95	Referans: IPCC, Good Practice Guidance and Uncertainty Management
		in National Greenhouse Gas Inventories
Uncertainty	GHG Uncertanit	ry Tool
quantification per:		
Uncertainty of the	5.9979	
study:		
Level of Assurance:	Limitli	

			Gŀ	IG Emissions	A		
Doğrudan Sera Gazı Emisyonları							
Emisyon	Emisyon	Tüketim	Birim	Emisyon	Birim	Karbon	Emisyon Faktörleri
Kapsami	Kaynağı	Miktarı		Faktörü		Ayakizi ton CO2 eşdeğeri	Referansı
Hareketli Yanma(On Road)	Motor Gasoline — Oxidation Catalyst	2767.0	kG	3.1949	kgCO2 e/kg	8.85	IPCC (2006), Vol 2, Chapter 3, Tablo 3.2.1 ve Tablo 3.2.2
Hareketli Yanma(On Road)	Diesel Consumptio n	16802.0	kg	3.2354	kgCO2 e/kg	54.37	IPCC (2006), Vol 2, Chapter 3, Tablo 3.3.1
Hareketli Yanma(Off Road)	Benzin - 4 zamanlı	381.0	kg	3.1554	kgCO2 e/kg	1.21	IPCC (2006), Vol 2, Chapter 3, Tablo 3.3.1
Soğutucu Gazlar	Kyoto protokol - standart, R410A	0.25	kg	2088.0	kgCO2 e/kg	0.53	DEFRA, 2017
					TOPLAM	64.96	



		Other Inc	direct G	reenhouse	Gas Em	issions	
Emission Scope	Emission Source	Consumpt ion Amount	Unit	Emission Factor	Unit	Carbon Footprint tons CO2 equivalent	Emission Factor Referiance
Ulaşım	Staff Transportat ion	54710.0	km	0.209	kgCO2 e/km	11.44	CO2 Emission Standards for Passenger Cars-2019
Flight	Flight	3068.42	km	0.1529	kgCO2 e/km	0.94	DEFRA, 2021
Flight	Flight	355.62	km	0.1529	kgCO2 e/km	0.55	DEFRA, 2021
Flight	Flight	322.81	km	0.1529	kgCO2 e/km	0.1	DEFRA, 2021
Flight	Flight	2169.75	km	0.1529	kgCO2 e/km	1.33	DEFRA, 2021
Water Consumpti on	Water Consumptio n	4024.0	m3	0.344	kgCO2 e/m3	1.39	DEFRA, 2020
Waste Disposal	Tekstil/Giyi m-Yakma	10700.0	kg	0.0213	kgCO2 e/kg	0.23	DEFRA, 2020
Waste Disposal	Industrial Wastes -Düzenli Depolama	10149.0	kg	0.4581	kgCO2 e/kg	4.66	DEFRA, 2020
Waste Disposal	Diğer Atıklar- Düzenli Depolama	31.0	kg	1.0418	kgCO2 e/kg	0.04	DEFRA, 2020
Waste Disposal	Tıbbi Atıklar- Düzenli Depolama	1603.0	kg	0.4581	kgCO2 e/kg	0.74	DEFRA, 2020
Waste Disposal	Plastik (Karışık)- Geri Dönüşüm	1264.0	kg	0.0213	kgCO2 e/kg	0.03	DEFRA, 2020
Waste Disposal	Kağıt (Karışık)- Geri Dönüşüm	632.0	kg	0.0213	kgCO2 e/kg	0.02	DEFRA, 2020
					TOPLAM	21.47	



2021 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: Ekoteks Laboratory and Inspection Services Inc. Industry Type: Commercial

City: istanbul

RESULTS

SCOPE 1 DIRECT GHG EMISSIONS



Combustion: 0 ton CO₂ (0%)

Transportation: 64.43 ton CO₂ (99.2%)

Cooler Gas: 0.53 ton CO₂ (0.9%)

Other: 0 ton CO₂ (0%)

SCOPE 2 ENERGY INDIRECT GHG EMISSIONS



Electricity: 0 ton CO₂ (0%)

Heat and Steam: 0 ton CO₂ (0%)





Transportation: 14.36 ton CO₂ (66.9%) Water Consumption: 1.39 ton CO₂ (6.5%) Waste Disposal: 5.73 ton CO₂ (26.7%)

TOTAL EMISSIONS:

86.43 ton CO₂

EMISSION SUMMARY



Scope 1: 64.96 ton CO, 75.2%

Scope 2: 0 ton CO₂ 0%

Scope 3: 21.47 ton CO₂ 24.9%

PERFORMANCE

CO₂eq / Income:

CO₂eq / Personnel: **1.167973**

CO₂eq / Output:









TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory,

EKOTEKS LABORATUVAR VE GÖZETİM HİZMETLERİ A. Ş. Deney Laboratuvarı

Firuzköy Bulvarı No:29 Esenyurt Avcılar 34325 ISTANBUL / TURKEY

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number

: AB-0583-T

Accreditation Date

: 25 July 2012

Revision Date / Number : 11 January 2022 / 013

This certificate shall remain in force until 23 November 2024, subject to continuing compliance with the standard TS EN ISO/IEC 17025:2017, related regulations and requirements.

> G. Banu MÜDERRİSOĞLU Secretary General

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilatoral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

F701-040

^{*}Akreditasyon sertifikasının en güncel hali için TÜRKAK internet sitesini ziyaret edebilirsiniz. https://secure.turkak.org.tr/kapsam/Scope/PublicHTML/1127?sube=2485&language=0





EKOTEKS

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