

Carbon Footprint FDL Group 2023







1. Corporate Profile



Purpose and
 Benefits of the Study



Emission
 Categories



4. Calculation Methodology



5. Direct Emissions (by Category) 6. li (by

6. Indirect Emissions(by Category)

7. Tota





8. Comparison







2. Purpose and Benefits of the Study

Purpose

• To calculate the carbon footprint generated by the operations and processes of the FDL Group for the year 2023.



3. Emission Categories



FDL GROUP

Scope 1 (Direct Emissions)

These are emissions from sources owned or controlled by the 3PL company.

- Fleet Vehicles: Emissions from company-owned trucks, vans, and delivery vehicles.
- Warehouse Equipment: Fuel combustion from forklifts, generators, or other machinery.
- Facility Heating: Natural gas, diesel, or other fuels used for heating warehouses or offices.

Scope 2 (Indirect Energy Emissions)

These are indirect emissions from **purchased energy** used in facilities.

- Electricity Consumption: Powering warehouses, distribution centers, and offices.
- Heating & Cooling: If sourced from an external provider (e.g., district heating).

Scope 3 (Other Indirect Emissions)

These are all **other indirect emissions** from the supply chain that the company influences but doesn't directly control.

- **Subcontracted Transportation:** Emissions from carrier partners (e.g., outsourced trucking, rail, air freight).
- Upstream Logistics: Emissions from supplier transportation.
- **Downstream Logistics:** Deliveries to customers if not using companyowned vehicles.
- Employee Commuting & Business Travel: Travel-related emissions (flights, car rentals, etc.).
- Waste Generation & Packaging: Landfill waste, recycling, and packaging disposal from logisfics operations.



3. Emission Categories



The criteria and procedures for calculating the carbon footprint are based on the ISO 14064-1:2019 standard.

For the FDL Group companies, the relevant emission categories are **Scope 1** and **Scope 2**, in accordance with GHG Protocol and the climate law.

Upstream activities

Reporting company

Downstream activities

4. Calculation Methodology

According to the ISO 14064-1:2019 standard, the emissions assessment includes the following greenhouse gases:

- Carbon dioxide (CO₂)
- Methane (CH₄)

FDL GROUP

- Nitrous oxide (N₂O)
- Hydrofluorocarbons (HFCs)

These emissions are converted into tons of CO_2 equivalent (tn CO_2 eq) to quantify their environmental impact.



4. Calculation Methodology-Data collection

Category 1.1 (Constant Combustion):

- Equations (IPCC 2006).
- Emission factors (Ministry of Environment and NIR of Cyprus).
- Liters of oil from AVIN.

Category 1.2 (Mobile Combustion):

FDL GROUP

- Equations (IPCC 2006).
- Emission factors (Ministry of Environment and NIR of Cyprus).
- Liters of fuel from Fleet Manager.



Category 1.4 (Refrigerants):

- Equations (IPCC 2006).
- Emission factors (Y.P.E.N., NIR Cyprus and European Regulation). By F-GASES



Class 2.1 (Current):

- Equations (IPCC 2006).
- Emission Factors (Y.P.E.N.)
- kWh from electricity suppliers to Greece & Cyprus.

5. Direct Emissions (by Category) Scope 1



■ FDL_GR ■ FDL_CY

Athinaiki

	1	
2		
¢,		
t,		
2		

		FDL_G		
Year	Athinaiki	FDL_CY	R	Grand Total
Scope 1 (tnCO2eq)	1033	782	1011	2826
1.10n-site fuel combustion	0	0	22	22
1.2 Company vehicles	1033	782	936	2750
1.4 Fugitive emissions	0	0	53	53
Grand Total	1033	782	1011	2826

Fleet Emissions (thCO2eq)



Row Labels	 Athinaiki 	FDL_CY	FDL_GR	Grand Total
Mobile Conbustion Diesel <= 3.9t	n 365	186	23	574
Mobile Conbustion Diesel >3.9tn	668	596	873	2137
Gasoline-powered			40	40
Grand Total	1033	782	936	2750

6. Indirect Emissions (by Category) Scope 2



Year	Athinaiki	FDL_CY	FDL_GR	Total
2.1 Electricity (tnCO2eq)	379	1192	1089	2660

FDL GROUP





Per Scope emissions FDL GROUP



Total Emissions (tnCO2eq)















Thank You