

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Primed and painted lower CO_2 steel structures

EPD of multiple products, based on the average results of the product group

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
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An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

ECO PLATFORM EPD VERIFIED

EPD®



General information

Programme information

Programme:	The International EPD® System
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Website:	www.environdec.com
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Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product Category Rules (PCR): PCR 2019:14 – Construction Products (EN 15804+A2) – version 1.3.3 the UN CPC code 412 “Product of iron and steel" among others

PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members.
Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat http://www.environdec.com/contact

Life Cycle Assessment (LCA)

LCA accountability: Silvija Serapinaitė, UAB ‘‘Vesta Consulting‘‘

Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

☑ EPD verification by individual verifier

Third-party verifier:
Prof. Ing. Vladimír Kočí, PhD., vladimir.koci@lca.cz

Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

☐ Yes ☑ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.



Company information

Owners of the EPD:

Litana ir Ko, UAB; Litana Construction
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Tel +370 46 455352
https://litana.lt/

Manufacturer UAB Laivsta;
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Tel +370 46 455352
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Description of the organisation:

Litana Group of companies was established in 1992 in Gargzdai, Lithuania. Litana Group generates annual turnover of 108 mln. Euros (2023) and has over 1700 employees in 10 branch companies. The main activity of the group of companies is focused on shipbuilding, civil and industrial construction.

Name and location of production site(s):

The manufacturing plant of Litana ir Ko is based in Gargzdai (Lithuania).

Litana Group core business activities are:

- Industrial and civil engineering design
- Manufacturing of steel structures
- Organization and management of industrial and civil construction
- Execution of industrial projects
- Electrical installation
- Rent and assembly of scaffolding structures
- Shipbuilding (steel works, installation of pipelines, painting, insulation)

Litana ir Ko is certified according to international quality management, environmental and occupational safety regulations:

- ISO 45001:2018/(LST ISO 9001:2018)
- ISO 14001:2015/(LST ISO 9001:2015)
- ISO 9001:2015/(LST ISO 9001:2015)





Product information

Product name:

Primed and painted lower CO_2 steel structures

Product identification:

The manufactured metal structures comply with the requirements of the European Union (EU), health and environmental protection and are marked with the CE mark.

The production process of the product is certified and complies with the following European Union regulations:

1.EN1090-2:2018, execution class up to EXC3, groups of parent metal 1.1, 1.2, 1.4, 8 and 10 according to CEN ISO/TR 15608:2017, welding processes 111, 135, 136, 138 and 141 according to EN ISO 4063:2010, covered by anti-corrosion coating.

2.LST EN ISO 3834-2:2021 certification covers: manufacturing of various metal constructions, items and components, when used certified welding processes LST EN1090-2:2018, LST EN 13480-2:2021, LST EN 13480-4:2017, LST EN 13480-8:2017, basic groups of metal 1.1, 1.2, 1.4 according to CEN ISO/TR 15608:2017, welding processes 111, 135, 136, 138 and 141 according to EN ISO 4063:2023

Product description:

Low CO_2 metal structures - steel products (structures) whose production has a shallow greenhouse gas footprint, due to different, optimised and clean production processes.
The Litana Group's main guidelines for reducing GWP total parameters:

- Lower GWP total values declared by raw material producers;
- Short distance from the material producer to Litana metal construction factory;
- High percentage of recyclables used in the production of raw materials and metal structures;
- Optimisation of the technological processes of the Litana metal construction factory;
- High requirements for the standard of transport exhaust gas (min. Euro 6)

UN CPC code: 412

Geographical scope: Europe



Product description (continued):

The constructions are produced in various sizes and shapes. According to the production equipment and premises, the maximum weights and geometrical parameters of structures or their components are possible: weight - 10t, length - 17m, height - 6m, thickness of elements (components) - 100mm (cutting elements mechanically and using gas plasma), elements (components parts) thickness - 16mm (for rolling and bending elements mechanically).

Product application:

Black steel primed and painted structures are used in residential, industrial, commercial, storage, sports and other buildings as load-bearing and auxiliary structures for a building or structure. The structures ensure the designed mechanical stability, resistance, hygiene and fire safety of the building or structure.

LCA information

Functional unit / declared unit:

In accordance to the PCR the declared unit is 1 kg of the product.

Reference service life:

The reference service life for the primed and painted steel structures is set at 50 years.

Time representativeness:

Primary data were collected internally. The production data refer to an average of the year 2023.

Database(s) and LCA software used:

The Ecoinvent database provides the life cycle inventory data for the raw and processed materials obtained from the background system. The used database is Ecoinvent 3.8. The LCA software used is One Click LCA. The EN 15804 reference package used is based on EF 3.0.

Description of system boundaries:

Cradle to gate with options. The LCA was carried out considering the Product stage phases (A1, A2, A3), Distribution (A4), End of life (C1, C2, C3, C4), Potential environmental benefits (D) in accordance with EN 15804.

Data quality:

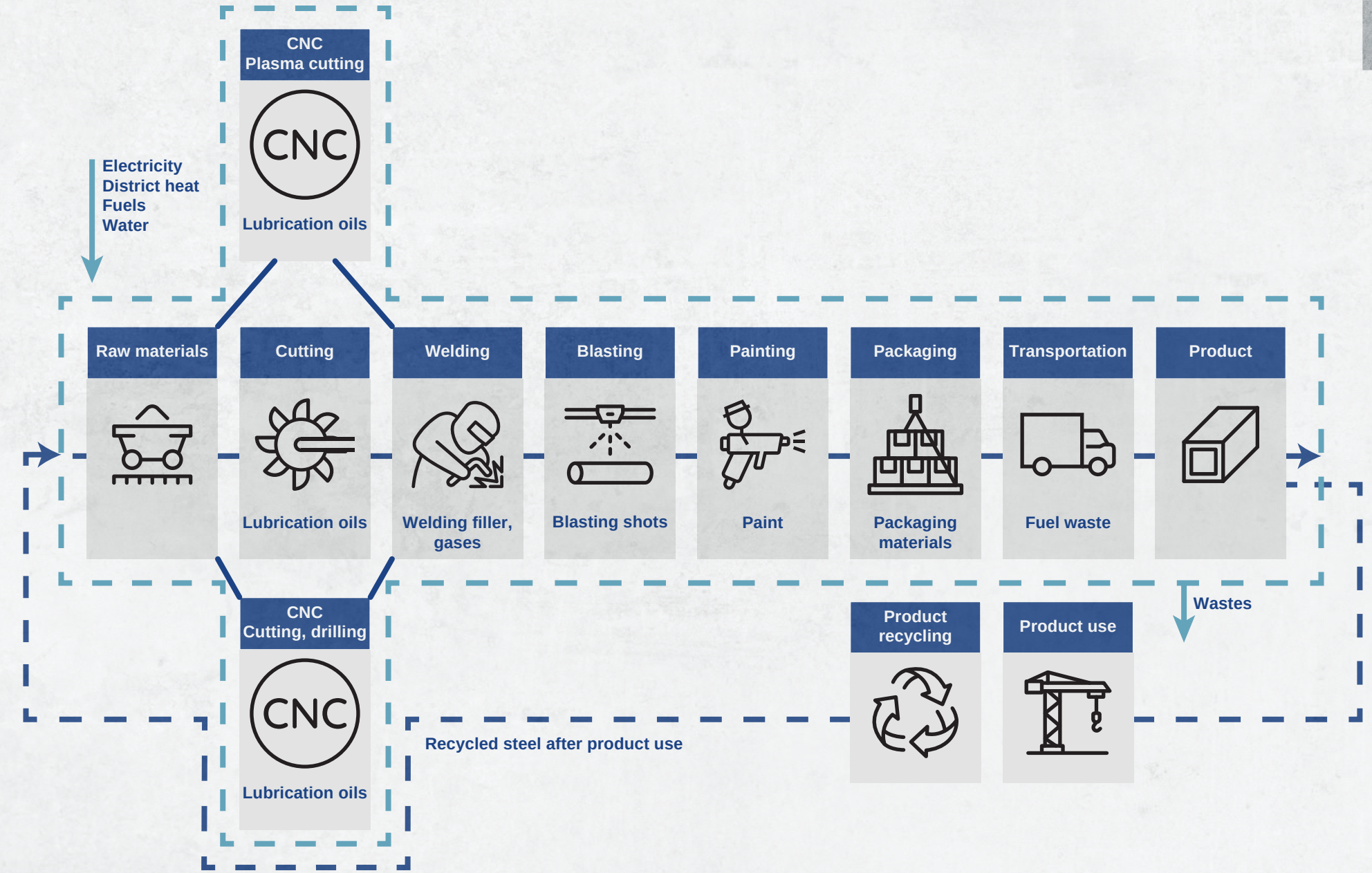
The foreground data collected internally are based on yearly production amounts and extrapolations of measurements on specific machines and plants. Overall, the data quality can be described as good. The primary data collection has been done thoroughly.

Cut-off criteria:

Life cycle inventory data for a minimum of 95% of total material and energy input flows have been included in the life cycle analysis. Although, only materials having in summa less than 1% of weight of product were not used in calculations.



System diagram:





System boundary:

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Modules	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X
Geography	EU	EU	LT	EU	-	-	-	-	-	-	-	-	EU	EU	EU	EU	EU
Specific data used	68%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Description of the system boundary (X = Included in LCA; MND = Module Not declared)



Product stage:

A1: This stage considers the extraction and processing of raw materials as well as energy consumption.

A2: The raw materials are transported to the manufacturing plant. In this case, the model includes road transport of each raw material.

A3: This stage includes the manufacture of products and packaging. Specifically, it covers steel tube piles and structural steel poles production. On the other hand, it has been considering the energy consumption and waste generated in the production plant.

Production process description:

Black steel raw materials (profiles and sheets) are cut with mechanical saws and thermal cutting using CNC plasma cutting machines. Hydraulic oils and specialized emulsions are used to reduce the wear of cutting machines and ensure stable cutting quality. The final products are welded from individual elements of steel products using electric welding in a shielding gas environment. Prior to the painting process, the surfaces of welded products are cleaned in a chamber using steel shot blasting. The cleaned products are primed and painted using two-component paints. After drying the painted surfaces, the product is packaged and transported to the end user. Metal waste generated during production is sorted, part is sent to specialized processing of the company, the remnants of suitable dimensions are used for the production of other structures.

Construction process stage:

A4: This stage includes transport from the production gate to the building site where the product will be installed.

Transport is calculated based on data form manufacturer and a scenario with the parameters described in the following table.

Parameter	Value/Description
Vehicle type used for transport	EURO 5 truck with a trailer with an average load of 7,5-16t and container ship
Distance	96 % of production: Truck – 263 km; Ship - 460 km. 4 % of production: Truck – 226 km.
Capacity utilization	56 % of the capacity in volume (truck) 50 % of the capacity in volume (ship)

Use stage:

In normal use scenario, it is assumed that there is no maintenance (B2), repair (B3), replacement (B4) and refurbishment (B5) is needed.



End of Life stage:

This stage includes the next modules:

- C1, Deconstruction, dismantling, demolition.
  Consumption of fuel in demolition process is calculated according to transported mass.
- C2, Transport of the discarded product to the processing site.
  Steel tube piles and structural steel poles are transported to the processing site. Materials are transported by truck with a 16-32-ton trailer. A transport distance of 50 km has been considered.
- C3, Waste processing for reuse, recovery and/or recycling.
  Based on Europe average 95% of steel are transformed into secondary material in a recycling plant.
- C4, Discharge (disposal).
  5% of the steel cannot be separated and are assumed to be landfilled.

Benefits and loads beyond the system boundary (D):

Benefits of recyclable waste generated in the phase C3 are taken into account in the phase D. The recycled steel has been modelled to avoid use of primary materials. The scrap content in the studied product has been acknowledged and only the mass of primary steel in the product provides the benefit in order to avoid double counting. 2,1% of primary steel is taken into account.

Content information

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Steel structures	0,97	97,9	0
Welding consumables	0,02	0	0
Epoxy primers and paints	0,01	0	0
Total	1	0,95	0
Packaging materials	**Weight, g**	**Weight-% (versus the product)**	**Weight biogenic carbon, kg C/kg**
Protective film	0,19	0,019	0
Total	0,19	0,019	0

No dangerous substances from the candidate list of SVHC for Authorisation are included in the product.



Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804:2012+A2:2019

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. Note: it is discouraged to use the results of modules A1-A3 without considering the results of module C when module C is declared.

Results per declared unit																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	kg CO_2 eq.	7,81E-01	2,87E-02	MND	MND	MND	MND	MND	MND	MND	MND	3,31E-03	4,69E-03	2,08E-02	2,63E-04	-3,38E-02
GWP-biogenic	kg CO_2 eq.	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,12E-22	0,00E+00	0,00E+00	0,00E+00
GWP-luluc	kg CO_2 eq.	4,99E-04	1,21E-05	MND	MND	MND	MND	MND	MND	MND	MND	3,30E-07	1,73E-06	2,73E-05	2,49E-07	-5,38E-06
GWP-total	kg CO_2 eq.	7,81E-01	2,87E-02	MND	MND	MND	MND	MND	MND	MND	MND	3,31E-03	4,69E-03	2,08E-02	2,64E-04	-3,38E-02
ODP	kg CFC 11 eq.	7,31E-08	6,47E-09	MND	MND	MND	MND	MND	MND	MND	MND	7,07E-10	1,08E-09	2,57E-09	1,07E-10	-1,31E-09
AP	mol H+ eq.	3,04E-03	2,39E-04	MND	MND	MND	MND	MND	MND	MND	MND	3,44E-05	1,99E-05	2,64E-04	2,48E-06	-1,38E-04
EP-freshwater	kg P eq.	4,06E-04	2,16E-07	MND	MND	MND	MND	MND	MND	MND	MND	1,10E-08	3,84E-08	1,12E-06	2,76E-09	-1,39E-06
EP-marine	kg N eq.	7,00E-04	6,40E-05	MND	MND	MND	MND	MND	MND	MND	MND	1,52E-05	5,90E-06	5,58E-05	8,57E-07	-2,83E-05
EP-terrestrial	mol N eq.	7,44E-03	7,09E-04	MND	MND	MND	MND	MND	MND	MND	MND	1,67E-04	6,51E-05	6,45E-04	9,43E-06	-3,30E-04
POCP	kg NMVOC eq.	2,19E-03	2,04E-04	MND	MND	MND	MND	MND	MND	MND	MND	4,59E-05	2,08E-05	1,77E-04	2,74E-06	-1,69E-04
ADP-minerals &metals*	kg Sb eq.	1,72E-06	6,32E-08	MND	MND	MND	MND	MND	MND	MND	MND	1,68E-09	1,10E-08	2,80E-06	6,05E-10	-6,45E-07
ADP-fossil*	MJ	1,19E+01	4,20E-01	MND	MND	MND	MND	MND	MND	MND	MND	4,45E-02	7,05E-02	2,82E-01	7,22E-03	-2,93E-01
WDP*	m^3	2,85E-01	1,80E-03	MND	MND	MND	MND	MND	MND	MND	MND	1,20E-04	3,15E-04	5,47E-03	2,29E-05	-6,11E-03

Acronyms: GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.



Additional mandatory and voluntary impact category indicators

Results per declared unit																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[1]	MJ	7,81E-01	2,87E-02	0,00E+00	MND	MND	MND	MND	MND	MND	MND	3,31E-03	4,69E-03	2,08E-02	2,63E-04	-3,38E-02

Disclaimers shall be added, if required by EN 15804.

Resource use indicators

Results per declared unit																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	3,42E+00	4,51E-03	MND	MND	MND	MND	MND	MND	MND	MND	2,54E-04	7,94E-04	5,00E-02	6,27E-05	-2,47E-02
PERM	MJ	3,10E-04	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-2,95E-04	-1,55E-05	0,00E+00
PERT	MJ	3,34E+00	4,51E-03	MND	MND	MND	MND	MND	MND	MND	MND	2,54E-04	7,94E-04	4,97E-02	4,72E-05	-2,47E-02
PENRE	MJ	1,17E+01	4,20E-01	MND	MND	MND	MND	MND	MND	MND	MND	4,45E-02	7,05E-02	2,82E-01	7,22E-03	-2,93E-01
PENRM	MJ	2,13E-01	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-2,03E-01	-1,07E-02	0,00E+00
PENRT	MJ	1,19E+01	4,20E-01	MND	MND	MND	MND	MND	MND	MND	MND	4,45E-02	7,05E-02	7,95E-02	-3,45E-03	-2,93E-01
SM	kg	1,19E+00	1,26E-04	MND	MND	MND	MND	MND	MND	MND	MND	1,74E-05	1,96E-05	3,14E-04	1,52E-06	1,95E-02
RSF	MJ	1,93E-05	1,10E-06	MND	MND	MND	MND	MND	MND	MND	MND	5,70E-08	1,97E-07	1,63E-05	3,96E-08	-3,12E-06
NRSF	MJ	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m³	9,75E-03	5,10E-05	MND	MND	MND	MND	MND	MND	MND	MND	2,70E-06	9,13E-06	1,65E-04	7,90E-06	-7,07E-05

Acronyms: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO2 is set to zero.



Waste production and output flows

Waste indicators

Results per declared unit															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	8,92E-03	5,60E-04	MND	MND	MND	MND	MND	MND	MND	MND	5,96E-05	9,34E-05	1,92E-03	0,00E+00	-1,13E-02
Non-hazardous waste disposed	kg	2,96E-01	8,60E-03	MND	MND	MND	MND	MND	MND	MND	MND	4,19E-04	1,54E-03	6,12E-02	5,00E-02	-5,52E-02
Radioactive waste disposed	kg	7,89E-05	2,83E-06	MND	MND	MND	MND	MND	MND	MND	MND	3,13E-07	4,71E-07	1,65E-06	0,00E+00	9,74E-08

Output flow indicators

Results per declared unit																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Components for re-use	kg	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	5,20E-02	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	9,50E-01	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

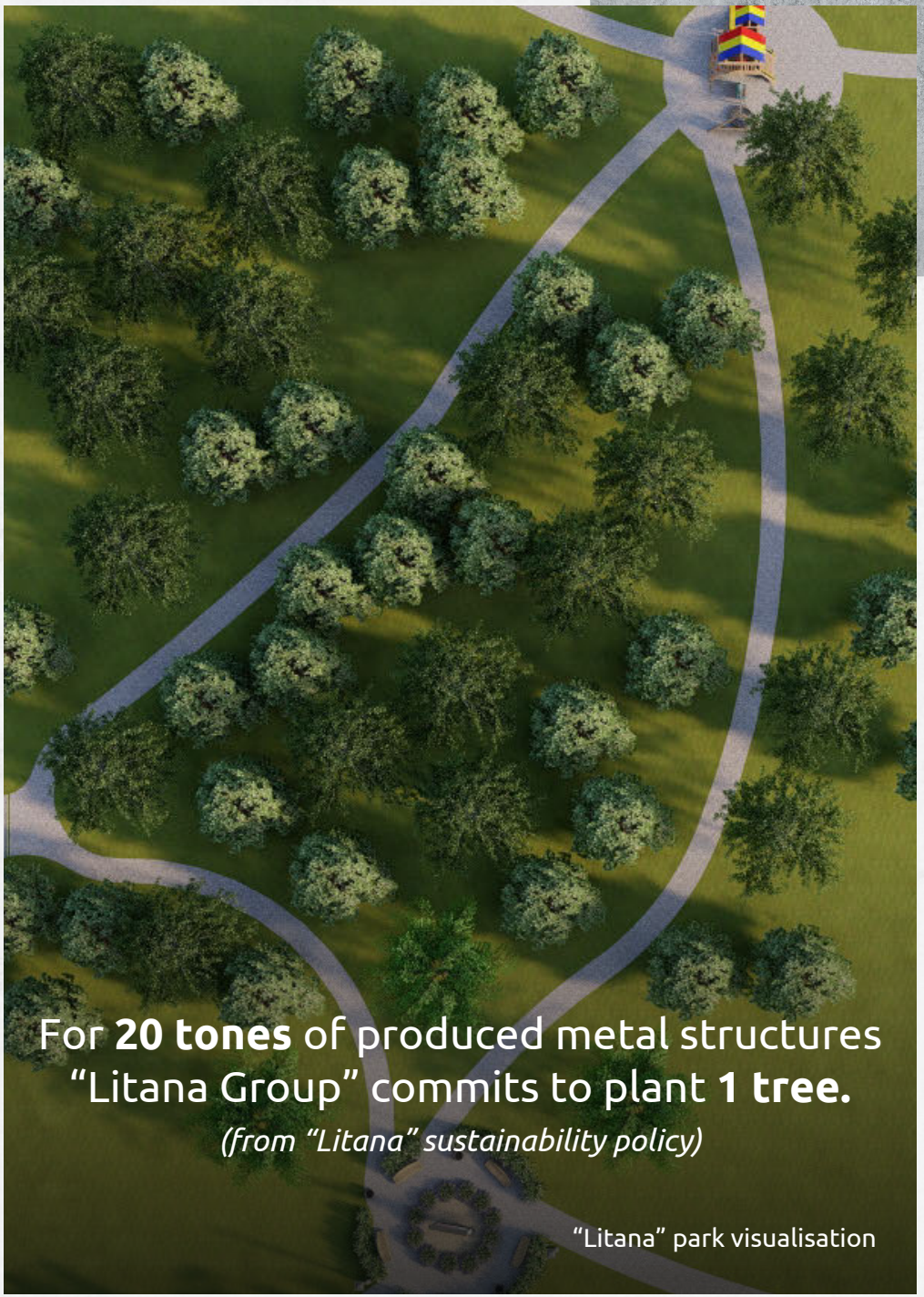
Reading example: 9.00E-03 = 9.0*10-3 = 0.009



Additional environmental information

“Litana” strives to make its products as environmentally friendly as possible, with a genuine desire to offset the environmental impact of its products. Sustainability, CO_2 footprints, other greenhouse gas emissions, and their consequences are constantly on the company's mind. It started with simple steps such as using paper sparingly and installing a solar power plant on the roof of the factory. “Litana” also launched an "Environmental and Social Responsibility Policy" to reduce the negative environmental impact of its production processes. The company has assessed its production cycle, from the extraction of raw materials and the beginning of the product's life cycle to its disposal, as well as the CO_2 emissions from the whole process.

The idea of the “Litana” Park has been nurtured for several years, and with the approval of the Klaipeda District Municipality, we set up the three-hectare park and set about creating and maintaining it, based on the following equivalence: one heavy vehicle transporting metal constructions – one new planted tree. A tree planted in the park motivates us, and we know that we are contributing to the green course. Within five years, the park should have hundreds of different trees: larches, maples, pines, birches, and others. The trees are to be planted every year, during all five phases of the park's development.



“Litana” park visualisation



Additional social and economic information

The Sustainability Policy hereinafter referred to as the Policy of Litana group of companies hereinafter referred to as the Company establishes requirements for the management of the activities, which are set to minimize the impact on the environment. This Policy is based on the integration of ESG principles (Social and Corporate Governance) to the Company's sustainable development strategy and is designed to establish the basic principles and obligations of the Company in the field of environmental protection and environmental safety, ways and mechanisms of their implementation.

Objectives and action plan

The objectives and action plan are based on the provisions of the European Green Course adopted by the European Commission for the member states of the European Union:

- To reduce CO_2 emission by at least 55% by 2030 compared to 1990.
- To achieve zero CO_2 emission by 2050.

Direction of activity	Actions to be implemented
1. Continuous improvement of EPD indicators (emission kg CO_2 / 1 ton of structures)	1.Monitoring the implementation of current action plan 2.To obtain the EPD in the field of industrial and civil construction
2. Cooperation with business partners having an EPD declaration (% from all contractors)	When concluding contracts with contractors, require them to have an EPD declaration. Lower EPD values should be one of the criteria for selecting such contractors.
3. Usage of recyclable materials for the production of metal structures (% from all materials)	Cooperation with suppliers of rolled and sheet steel made from recycled metal.
4. Usage of green energy for production processes (% from all energy)	1.Purchase green electricity. 2.Installation of additional solar panels.
5. Compliance of all operated vehicles (company's and contractors') with the Euro 6 emissions standard (% from all vehicles)	1.Replacement of the company's transport with Euro 6 emission standard vehicles. 2.Cooperate only with contractors who have an environmentally friendly fleet.



Direction of activity	Actions to be implemented
6. Energy efficiency and energy conservation (kWh / 1 ton of metal structures)	1.Replacement of production equipment with more energy-efficient models. 2.Replacement of all lighting sources in production area and in the office with energy-saving ones.
7. Assistance to the European Green Fund: - kg of A4 paper used / year - no. of trees planted / year	1.Reduce the volume of paper-based document flow. 2.Implementation of digital management systems for warehousing, production and construction processes. 3.Planting of green spaces (1 tree per every 20 tons of metal structures produced).

Direction of activity	2021 target	2021 result	2022 target	2022 result	2023 target	2023 result
1. Continuous improvement of EPD indicators (emission kg CO_2 / 1 ton of structures)	1170	1170	1100	1170	1070	1070
2. Cooperation with business partners having an EPD declaration (% from all contractors)	0	0	20	20	30	42
3. Usage of recyclable materials for the production of metal structures (% from all materials)	90	90	93	93	93	93
4. Usage of green energy for production processes (% from all energy)	33	33	50	35	35	35
5. Compliance of all operated vehicles (company's and contractors') with the Euro 6 emissions standard (% from all vehicles)	50	50	60	60	80	80
6. Energy efficiency and energy conservation (kWh / 1 ton of metal structures)	155	155	148	148	148	148
7. Assistance to the European Green Fund: - kg of A4 paper used / year - no. of trees planted / year	2500 0	2500 0	2000 0	2000 0	1500 70	1500 70



Direction of activity	2024 target	2025 target	2026 target	2027 target	2028 target	2029 target
1. Continuous improvement of EPD indicators (emission kg CO_2 / 1 ton of structures)	1070	1070	1000	1000	1000	1000
2. Cooperation with business partners having an EPD declaration (% from all contractors)	50	60	70	80	90	90
3. Usage of recyclable materials for the production of metal structures (% from all materials)	93	94	95	95	96	96
4. Usage of green energy for production processes (% from all energy)	35	35	50	60	75	90
5. Compliance of all operated vehicles (company's and contractors') with the Euro 6 emissions standard (% from all vehicles)	85	90	95	100	100	100
6. Energy efficiency and energy conservation (kWh / 1 ton of metal structures)	143	137	137	133	130	120
7. Assistance to the European Green Fund: - kg of A4 paper used / year - no. of trees planted / year	1300 175	1200 175	1200 175	1000 200	500 200	500 200

Additional information

Manufacturing energy scenario documentation

Scenario parameter	Value	Source
Residual mix (Lithuania)	0.435 kg CO_2e/kWh	Average Lithuanian residual mix of last three last years (2020, 2021 and 2022) has been modelled according to the Association of Issuing Bodies data (https://www.aib-net.org/facts/european-residual-mix). Data sources: ecoinvent 3.8



References

- ISO 14025:2010 Environmental labels and declarations – Type III environmental declarations Principles and procedures.
- ISO 14040:2006 Environmental management. Life cycle assessment. Principles and frameworks.
- ISO 14044:2006 Environmental management. Life cycle assessment. Requirements and guidelines.
- EN 15804+A2 Sustainability in construction works – Environmental product declarations – Core rules for the product category of construction products.
- Product Category Rules (PCR): PCR 2019:14 – Construction Products (EN 15804+A2) – version 1.3.3 the UN CPC code 412 “Product of iron and steel" among others.
- General Programme Instructions of the international EPD® system. Version 4.0.

Tools and database

- One Click LCA tool
- Ecoinvent 3.8 database

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