COL GROUP **COL GIOVANNI PAOLO S.p.A.**

EPD ITALY

ENVIRONMENTAL PRODUCT DECLARATION

PRODUCT NAME:
OS_UP2020Lite_L8 for outdoor installations

PRODUCTION SITE:
Via Antonio Chiribiri, 1,
10028 Trofarello (TO)

in compliance with ISO 14025 and EN 50693

Program operator	EPDItaly
Publisher	EPDItaly

Declaration number	COL-TO-510019
Registration number	EPDITALY0832

Issue date	13.12.2024
Valid to	13.12.2029

1. GENERAL INFORMATION

EPD owner	Col Giovanni Paolo S.p.A. (www.colgp.it) Via Antonio Chiribiri, 1, 10028 Trofarello (TO)
Reference production site	Via Antonio Chiribiri, 1, 10028 Trofarello (TO)
Scope of application	This is a product-specific EPD referring to the OS_UP2020Lite_L8 manufactured in 2021 by COL GROUP at the Torino production site (COL-TORINO) for outdoor use as a remote-control Peripheral Unit (UP) for secondary substations (SS) and Medium Voltage (MV) power distribution system within the geographical scope of Italy
Programme operator	EPDItaly – info@epditaly.it Via Gaetano De Castillia, 10, 20124 Milano (MI)
Independent verification	This declaration has been developed in accordance with the regulations of EPDItaly; further information and the same regulations are available at: www.epditaly.it Independent verification of the declaration and data carried out in accordance with ISO 14025: 2010 ☐ Internal ☑ External Third party verification done by: ICMQ S.p.A. (www.icmq.it), Via Gaetano De Castillia, 10, 20124 Milano (MI) – Italia. Accredited by ACCREDIA, Accreditation number 002H REV. 19
CPC code	4621 “Electricity distribution or control apparatus”
Company contact	Davide DA CAS, SEB & ESG Manager, COL GROUP e-mail: davide.dacas@colgp.it
Technical support	Emmanuel NYERO, Environmental Specialist, COL GROUP e-mail: emmanuel.nyero@teamware.it
PCR – Product Category Rules	Core PCR: EPDItaly007 – PCR for Electronic and Electrical Products and Systems, REV.3-13/01/2023, Issue date 20/01/2020
Reference documents	EN ISO 14025:2010, Environmental labels and declarations – Type III environmental declarations – Principles and procedures EN 50693:2019 - Product category rules for life cycle assessments of electronic and electrical products and systems Regulations of the EPDItaly Programme. Revision 6.0. Issue date 30/10/2023
Comparability	EPDs published within the same product category though originating from different programs may not be comparable. Full conformance with a PCR allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible.

Liability	The EPD owner relieves EPDItaly from any non-compliance with the environmental legislations. The holder of the declaration will be liable for the supporting information and evidence. EPDItaly disclaims any liability regarding the manufacturer's information, data, and results of the life cycle assessment.

2. THE COMPANY

Col Giovanni Paolo S.p.A. (COL GROUP) is a leading Italian company owned by Oaktree Capital Management, L.P. in the fast-growing global energy transmission and distribution market. It specializes in the development and production of critical components and advanced solutions for smart grid applications in medium and high voltage electrical infrastructure with sustainability at the heart of all its activities. COL GROUP has been working to support the sustainable future of our planet and the long-term success of its customers as well as the company's own business. Testament to that are the ambitions embodied in two of COL GROUP's Strategy 2030 goals i.e., to lead with low-carbon circular economy solutions, and to enhance sustainability across the value chain. The company possesses numerous certifications according to international standards, among which are UNI EN ISO 9001:2015, UNI EN ISO 14001:2015, UNI ISO 45001:2018, UNI EN ISO 50001:2018, and ISO 27001: 2013. Established in 1920, COL GROUP has amassed over 100 years of valuable experience in the electro-technical and plant engineering fields, and it is one of the few authorized suppliers for major utility companies in Europe, Middle East, South America, and Southeast Asia. The company has developed a highly innovative technology portfolio in medium voltage switchgear, substation automation, battery control systems and several other smart grid and high-voltage applications in collaboration with other dominant global utilities and industrial players. Over the years, COL GROUP has registered significant growth through the acquisition of several companies in the electronic, energy systems, railway, and electromechanical sectors. The ever-expanding company now has contemporary production sites in Torino, Catania, Milano, and Cremona, with over 150 highly skilled, specialized, and efficient employees led by an adept management team.

3. THE PRODUCT

The OS_UP2020Lite_L8 is a remote-control Peripheral Unit (UP) for secondary substations and Medium Voltage (MV) power distribution system created in accordance with the ENEL global standard GSTR001/3 Rev. 02 of 03/10/2019. The main functions of the OS_UP2020Lite_L8 are as follows: remote control and automation of 8 secondary substation switchgear, permanent fault detection, and monitoring of medium voltage power grid. These functions guarantee a high-level reliability of Electric Power Distribution system, reducing the number and the duration of power outages caused by circuit faults. Furthermore, remote control permits optimization of electric power distribution system maintenance and planning policies. The OS_UP2020Lite_L8 is for outdoor application, and it comprises of two components (i.e., the UE2020_L8 and the PSBC module) that are rack mounted inside a metallic cabinet with an anti-corrosion treatment and additional protection shield plates for limiting the internal overheating due to sun

radiation, as shown in the image on the cover page. The UE2020_L8 module is the unit of data acquisition, monitoring, transmission, and processing. The UE2020_L8 is the field interface, and it is completely remote programmable by personal computer. On the other hand, the PSBC module includes a power supply and a battery system with charger circuit. The PSBC supplies the power to UE2020_L8, to communication device called DCE and to motors of Switchgear connected to the UP. The Battery system is made by two Lead-acid rechargeable batteries and the PSBC monitors its functional states. The PSBC is completely programmable from personal computer by local communication port. Other equipment placed into the cabinet are Batteries, Terminal boards for the interface with the switchgears and the RGDAT/RGDM, and the power supply terminal boards, Custom devices, Communication module, and **Table 1** summarizes some of the technical features of the OS_UP2020Lite_L8 and its packaging.

Table 1. Technical specifications of the OS_UP2020Lite_L8 device as per GSTR001/3, plus its packaging

COL-TORINO Product code	**510019-UP2020LITE OUTDOOR**	
ENEL Product code	510019	
Product model	OS_UP2020Lite_L8	
Product weight	56,251 kg	
Product packaging material	Wooden Pallet	2,825 kg
Metallic cabinet	The standard version of the outdoor cabinet has an anti-corrosion treatment and additional protection shield plates for limiting the internal overheating, and it is suitable to house devices with total height of 15U	
The UE2020_L8 Module	Input/Output Interface:	49 Remote signals (TS)
		16 Remote commands (TC)
		8 Telemetry (TM)
		8 Digital Output (UD)
	Communication ports:	1 Ethernet Port 10/100BaseT
		1 serial Port V.24
		1 USB 2.0 device Port
	Power Supply:	Nominal voltage: 24Vcc ±20%
	Visual indicators:	Three LED signs
	Mechanical features:	standard rack box 19” 4U
The PSBC Module	Main source voltage:	100/230 VAC (-10% ÷ +20%), setting up by dedicated selector
	Nominal frequency:	50/60 Hz
	Power:	150 W
	Output of battery charger and load power:	Nominal Voltage: 24VDC set between 23 and 28 VDC balanced also in function of the battery temperature
		Maximum available current (fixed): 5A ±5%
	Power supply Auxiliary output:	Nominal Voltage: 12 VDC
		Maximum available current (fixed): 1 A
	Whole efficiency:	≥75% ± 3% (calculated at maximum supplied current 5A and at nominal voltage of 24VDC)

	Visual indicators:	Five LED signs
	Mechanical features:	standard rack box 19” 3U

Material composition

The declaration on the content of materials for the OS_UP2020Lite_L8 device was done by the manufacturer in accordance with EN IEC 62474. The unique ID and percentage mass share of all the materials and declarable substances contained in the fully assembled product plus its packaging are reported in **table 2.** “Other” represents miscellaneous electronic materials not on the declarable substance list under EN IEC 62474.

Table 2. Material composition for the fully assembled OS_UP2020LITE_L8 device plus its packaging

Material class name	ID	Mass share
Other ferrous alloys, non-stainless steels	M-119	82,6840%
Aluminium and its alloys	M-120	0,0704%
Copper and its alloys	M-121	6,6456%
Other unfilled thermoplastics	M-249	1,1969%
Unsaturated polyester (UP)	M-301	0,0409%
Wood	M-340	4,7820%
***Other**	OTHER	4,5802%

***Miscellaneous electronic materials with no unique ID

Reference service life

The reference service life (RSL) of the product was considered as 10 years.

4. SCOPE AND TYPE OF EPD

This is a product-specific EPD for the OS_UP2020Lite_L8 device for outdoor installations produced at the COL GROUP production site in Torino (COL-TORINO), in compliance with ISO 14025 and EN 50693 under the EPDItaly program regulations. It is based on a cradle to grave life cycle assessment (LCA) methodology in accordance with the ISO 14040 and 14044 standards. The spatial (geographical) and temporal scope for the data used in this study are summarized in **table 3** basing on the current global level of technology. The results were automatically generated using the excel-based LCA tool “LCA-COL GROUP Tool 2.2” of 07/11/2024., and they were intended for internal R&D, as well as external B2B and B2C communication. In effect, these results facilitated prudent corporate decisions through comparison of the environmental attributes of products that have similar functional requirements.

Table 3. Spatial and temporal scopes of the LCA study considering the current global level of technology

Representativeness	Scope
Spatial	Italian territory
Temporal	January to December, 2021

Functional unit

The functional unit (FU) was a fully assembled, tested, and packaged OS_UP2020Lite_L8 device with the technical specifications stated in **table 1**, distributed to sites within Italy, installed outdoors and used as a remote-control Peripheral Unit (UP) for secondary substations and Medium Voltage (MV) power distribution system, during a RSL of 10 years, operating nonstop.

System boundary

The system boundary implemented in this LCA covered the entire lifecycle of the product i.e., from cradle to grave as shown in **table 4** with the life cycle stages for all the major activities involved, grouped into three distinct modules i.e., upstream, core, and downstream with reference to EN 50693. The product life cycle and inventory analysis describing all the activities, simplifying assumptions, and modelling scenarios used in the LCA has been exhaustively conducted under **section 5** of this document.

Table 4. The life cycle stages and modules declared in the system boundary

Manufacturing		Distribution	Installation	Use	End of life
Upstream	Core	Downstream			
✓	✓	✓	✓	✓	✓

✓ = Lifecycle stages and modules declared in the LCA

Cut-off criteria

The mandatory cut-off for mass and energy flows in this LCA study was set at 1% as defined and modelled in the LCA TOOL "LCA-COL GROUP Tool 2.2" of 07/11/2024. All the material and energy flows within the system boundary known to have potential to cause significant impacts on the LCA results have been accounted for. However, cut-off was applied to the potential impacts that could have resulted from production and disposal of the packaging materials of all the semi-finished products included in the BOMs (e.g., sheets, electronics, screws, etc.) transported to COL-TORINO for processing and later assembling of the final product as it was assumed that such impacts were negligible. Furthermore, a cut-off was similarly applied to the impacts associated with the skilled labour required during installation before use and dismantling of the product at its end-of-life. Potential impacts that could have arisen from ordinary or extraordinary maintenance were also ignored since the product was assumed to be maintenance free for the entire expected service life.

Allocation rules

The allocation criteria adopted for the LCA model was guided by the PCR of the reference product. Since many other products are produced at the reference site, the "multi-output" allocation rule was applied to calculate the environmental impact of the product being studied. The primary data relating to waste generation, water, and energy consumption (petrol, electricity, and natural gas) used was provided for the reference year, and these were allocated based on economic value (revenue generated in millions of euros) using the total annual revenue generated from the reference production site of the company, the annual revenue from selling the product being studied, and the number of the studied product sold in the reference year, to get the allocation factor.

Data quality

The most recent and verifiable site-specific data collected in 2021 was used in this study, and the International System of Units (SI) was adopted while recording the data. The initial primary data forming the basis for the LCA were the production specifications i.e., BOMs, mechanical drawings, and technical information from the client provided by COL-TORINO to its external suppliers for each sub-assembly of the final product, and these were analyzed using Microsoft excel. The weight of the heavier structural components was calculated using the Solid Edge software. For the lighter components, they were manually weighed on the weighing scale and recorded. Additional primary data used included the water and energy (petrol, electricity, and natural gas) consumption for the core activities at COL-TORINO premises during the reference year, and these were downloaded from the company's reference production site account on the website of the service providers. A similar approach was applied to download annual data for fuel consumption by company vehicles that use electronic fuel cards. In addition to that, the distances from external suppliers to COL-TORINO were evaluated with the aid of Google Maps. The same technique was applied to determine the distributing distance from COL-TORINO to the reference installation sites in the various regions within Italy, and justification was provided for all the simplifying assumptions stated. In terms of secondary data, databases from legitimate sources already embedded in the LCA TOOL "LCA-COL GROUP Tool 2.2" of 07/11/2024 were used to obtain generic data for some up- and down-stream processes in the life cycle of the product.

5. PRODUCT LIFE CYCLE AND INVENTORY ANALYSIS

The life cycle inventory (LCI) lists and quantifies all the flows entering and leaving all the declared life cycle stages of the product within the system boundary considered in relation to the scope of the study. The reference flow for the LCI is 1 piece of a fully assembled and packaged OS_UP2020Lite_L8 device, weighing **59,076 kg** altogether.

Manufacturing

This first life cycle stage covers all the activities spanning across the upstream and core modules. The supply chain processes commence with the extraction of raw materials to produce sub-assemblies comprising of electronic and structural components i.e., the UE2020_L8 and the PSBC module that are assembled, and rack mounted inside a metallic cabinet to form the final OS_UP2020Lite_L8 device, and the packaging materials for the final product. The electronic components ordinarily are made of cables and printed circuit boards (PCB) on which smaller components are mounted, whereas the structural component consists of metallic panels, bolts, and screws. The production of these various components was done by external suppliers on their manufacturing sites in Italy in accordance with the ENEL global standard GSTR001/3 Rev. 02 of 03/10/2019., and they were assumed to be transported by road in a 16 - 32 tonne EURO5 lorry to COL-TORINO where the core activities of assembling, testing, and final packaging of the OS_UP2020Lite_L8 devices were done. The fully assembled product was then packaged together with extra nuts and bolts as sample spare parts and thereafter fastening it on the wooden pallet before being loaded for distribution. All the wastes generated on-site from the production activities (except

packaging) of all products are documented by category in the production site register and declared annually in the MUD "*Modello Unico di Dichiarazione ambientale*" following the applicable regulations and deadlines. Furthermore, these wastes were assumed to be transported periodically in a 16 - 32 tonne ACI mix lorry to a waste treatment plant located **50 km** away.

Distribution

From this point forth, all the activities are classified under the downstream module. The fully assembled and packaged product is loaded onto a 16 - 32 tonne EURO5 lorry for last mile delivery to the various installation sites throughout the Italian territory. For purposes of simplification, the distribution process was assumed to be solely done by road despite the ferry routes connecting mainland Italy to the islands. All the sites where the product was distributed and installed during the reference year were used and their distances (in kilometres) from COL-TORINO considering the fastest route were obtained from Google Maps. However, since the distribution of the product was not homogeneous across the entire Italian territory, these distances were weighted against the quantity of the product distributed in each of the installation sites, and the sum of the various weighted distances **(872,430 km)** was taken as the distribution distance.

Installation

Upon arrival at the client's location, the product is unloaded, carefully removed from its packaging, and installed outdoors by skilled technicians. It is immediately after this process that the packaging materials are returned for reuse as per the reduction of packaging waste agreement between COL-TORINO and its external suppliers. At the end of life of the packaging materials, they are assumed to be transported in a 7 - 16 tonne EURO5 lorry to a waste treatment plant **50 km** away.

Use

The perfectly installed product consumes **569,400 kWh** of electricity, $\mathbf{E_{use}}$ during its **RSL** of 10 years, operating constantly, and this was computed using **Equation 1** with **8760** representing the number of hours in a year; and **1000** is the conversion factor that allows the energy consumed in kWh over the product's service life to be expressed. The nominal power of the device (in Watts), $\mathbf{P_{use}}$ was obtained by multiplying current and voltage whose values were determined after connecting the device to a D.C. regulated bench power supply unit with three banana connectors (i.e., positive, ground, and negative) and a digital display showing current, and voltage measured in amps and volts respectively.

$$\boldsymbol{E_{use}}[\mathbf{kWh}] = \frac{\boldsymbol{P_{use}} * \mathbf{8760} * \mathbf{RSL}}{\mathbf{1000}} \qquad (\mathbf{1})$$

The device uses two rechargeable batteries provided by the client during installation, and it is powered at 24Vdc by the Power Supply Battery Charger (PSBC). But for the battery which was estimated to be changed after every 2,5 years, it was assumed that there were no other periodic or extraordinary maintenance works were required throughout the use phase because device failure is improbable thanks to the numerous quality control tests performed during and after assembling to ensure robustness. An

additional environmental information is that during the installation and use stages, the device does not emit any pollutants or substances which are dangerous for the environment and health.

End of life

At the end of the RSL of the product, the dismantling process and separation of the device components is done following guidelines given by the manufacturer, and the resulting wastes were assumed to be transported using a 7,5 - 16 tonne EURO5 lorry to a waste treatment plant located **50 km** away from the installation site.

6. LCA RESULTS

The environmental performance results of the product for the different lifecycle stages per FU accounting for all the mandatory environmental impact indicators **(Table 5)** and descriptive parameters for resource use **(Table 6)** and waste production **(Table 7)** calculated as per Core PCR: EPDItaly007 and EN 50693 were automatically generated using the LCA TOOL “LCA-COL GROUP Tool 2.2” of 07/11/2024.

Environmental impacts for the OS_UP2020Lite_L8 for outdoor installations

Table 5. LCA results for the environmental impact indicators

Impact indicators	Unit of measurement	Manufacturing	Distribution	Installation	Use	End of life	TOTAL
GWP-total	kg CO_2 eq.	2,79E+02	8,01E+00	1,64E+02	3,89E+02	7,63E+01	9,16E+02
GWP-fossil	kg CO_2 eq.	2,78E+02	8,01E+00	1,63E+02	3,88E+02	7,62E+01	9,14E+02
GWP-biogenic	kg CO_2 eq.	3,12E-01	2,73E-04	3,34E-01	1,12E+00	1,49E-02	1,78E+00
GWP-luluc	kg CO_2 eq.	2,92E-01	1,97E-04	1,75E-01	2,16E-01	2,90E-02	7,13E-01
ODP	kg CFC-11 eq.	3,65E-06	1,63E-07	2,62E-06	8,57E-06	8,33E-07	1,58E-05
AP	mol H^+ eq.	4,10E+00	1,99E-02	2,06E+00	2,50E+00	1,27E-01	8,81E+00
EP-freshwater	kg P eq.	3,75E-02	6,71E-06	1,02E-02	1,39E-02	1,08E-03	6,27E-02
EP-marine	kg N eq.	3,91E-01	7,64E-03	1,87E-01	2,99E-01	2,94E-02	9,14E-01
EP-terrestrial	mol N eq.	4,80E+00	8,36E-02	2,15E+00	3,40E+00	3,14E-01	1,07E+01
POCP	kg NMVOC eq.	1,57E+00	3,47E-02	7,27E-01	1,27E+00	9,12E-02	3,70E+00
ADP-min & met	kg Sb eq.	8,11E-02	2,64E-07	7,03E-02	5,28E-02	4,38E-06	2,04E-01
ADP-fossil	MJ	3,35E+03	1,06E+02	2,27E+03	5,78E+03	3,00E+02	1,18E+04
WDP	m^3 eq. deprived	1,12E+02	4,49E-02	4,85E+01	2,03E+02	6,74E+00	3,70E+02

Caption: GWP-total = Global Warming Potential – total; **GWP-fossil** = Global Warming Potential – fossil; **GWP-biogenic** = Global Warming Potential – biogenic; **GWP-luluc** = Global Warming Potential – land use and land use change; **ODP** = Ozone Depletion Potential; **AP** = Acidification Potential; **EP-freshwater** = Eutrophication potential, aquatic freshwater; **EP-marine** = Eutrophication potential, marine; **EP-terrestrial** = Eutrophication potential, terrestrial; **POCP** = Photochemical ozone formation; **ADP-min & met** = Depletion of abiotic resources – minerals and metals; **ADP-fossil** = Depletion of abiotic resources – fossil fuels; **WDP** = Water deprivation potential

Resource use for the OS_UP2020Lite_L8 for outdoor installations

Table 6. LCA results for the environmental parameters describing resource use

Parameters	Unit of measurement	Manufacturing	Distribution	Installation	Use	End of life	TOTAL
PERE	MJ	3,95E+02	3,67E-01	1,93E+02	1,38E+03	3,06E+01	2,00E+03
PERM	MJ	4,77E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,77E+01
PERT	MJ	4,43E+02	3,67E-01	1,93E+02	1,38E+03	3,06E+01	2,05E+03
PENRE	MJ	3,28E+03	1,06E+02	2,27E+03	5,78E+03	3,00E+02	1,17E+04
PENRM	MJ	6,54E+01	0,00E+00	3,47E-02	2,61E-02	0,00E+00	6,55E+01
PENRT	MJ	3,35E+03	1,06E+02	2,27E+03	5,78E+03	3,00E+02	1,18E+04
MS	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	3,30E+00	2,71E-03	1,82E+00	5,82E+00	2,14E-01	1,12E+01

Caption: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw material; **PERM** = Use of renewable primary energy resources used as raw material; **PERT** = Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials); **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw material; **PENRM** = Use of non-renewable primary energy resources used as raw material; **PENRT** = Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials); **MS** = Use of secondary materials; **RSF** = Use of renewable secondary fuels; **NRSF** = Use of non-renewable secondary fuels; **FW** = Net use of fresh water

Waste production for the OS_UP2020Lite_L8 for outdoor installations

Table 7. LCA results for the environmental parameters describing waste production

Parameters	Unit of measurement	Manufacturing	Distribution	Installation	Use	End of life	TOTAL
HWD	kg	4,17E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,17E-03
NHWD	kg	0,00E+00	0,00E+00	1,07E+00	2,34E-04	1,37E+01	1,48E+01
RWD	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	kg	5,52E+00	0,00E+00	8,49E-01	4,50E+01	5,71E+01	1,09E+02
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,66E-01	3,66E-01
ETE	MJ	0,00E+00	0,00E+00	1,40E+01	3,57E-03	0,00E+00	1,40E+01
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Caption: HWD = Hazardous waste disposed; **NHWD** = Non-hazardous waste disposed; **RWD** = Radioactive waste disposed; **CRU** = Components for reuse; **MFR** = Material for recycling; **MER** = Materials for energy recovery; **ETE** = Exported thermal energy; **EEE** = Exported electricity energy

7. BIBLIOGRAPHY

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