

INVESTMENTS, ARTIFICIAL INTELLIGENCE
AND SUSTAINABILITY

CONFERENCE 2024

The building blocks towards a green business

Božena Odobašić 11TH JUNE 2024

KONCAR D&ST

Topics

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- Collaboration
- Verification statements
- Circularity
- ☐ ESG
- Reporting requirements
- Connecting the blocks
- Cleaner manufacturing
- Plans for the future





About us

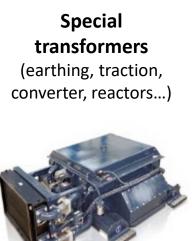
- ☐ Founded in 1921 as Elektra, Inc, Zagreb, Croatia
- Established in 1991 as joint-stock company, KONČAR Group member
- ☐ Transformers delivered in more than 100 countries
- ☐ Export 91%
- ☐ Turnover in 2023: 325 mil EUR
- ☐ Employees: 766
- □ 100% owner of Power Engineering Transformatory Sp. z o.o. (PET) in Poland, and 51% in FEROKOTAO d.o.o. in Croatia

Medium power transformers
up to 160 MVA, 170 kV



Distribution

transformers





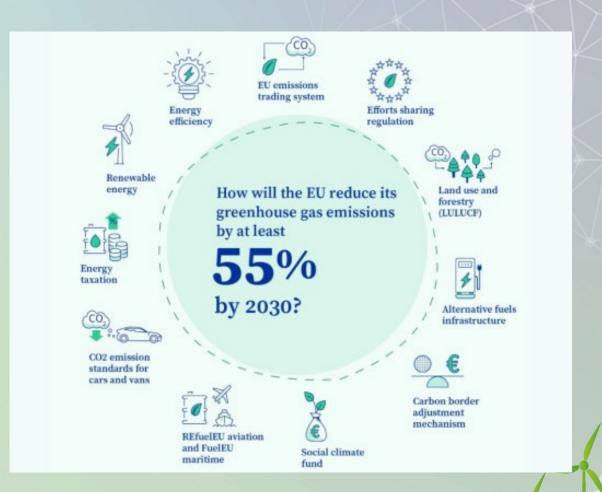
Dry-type

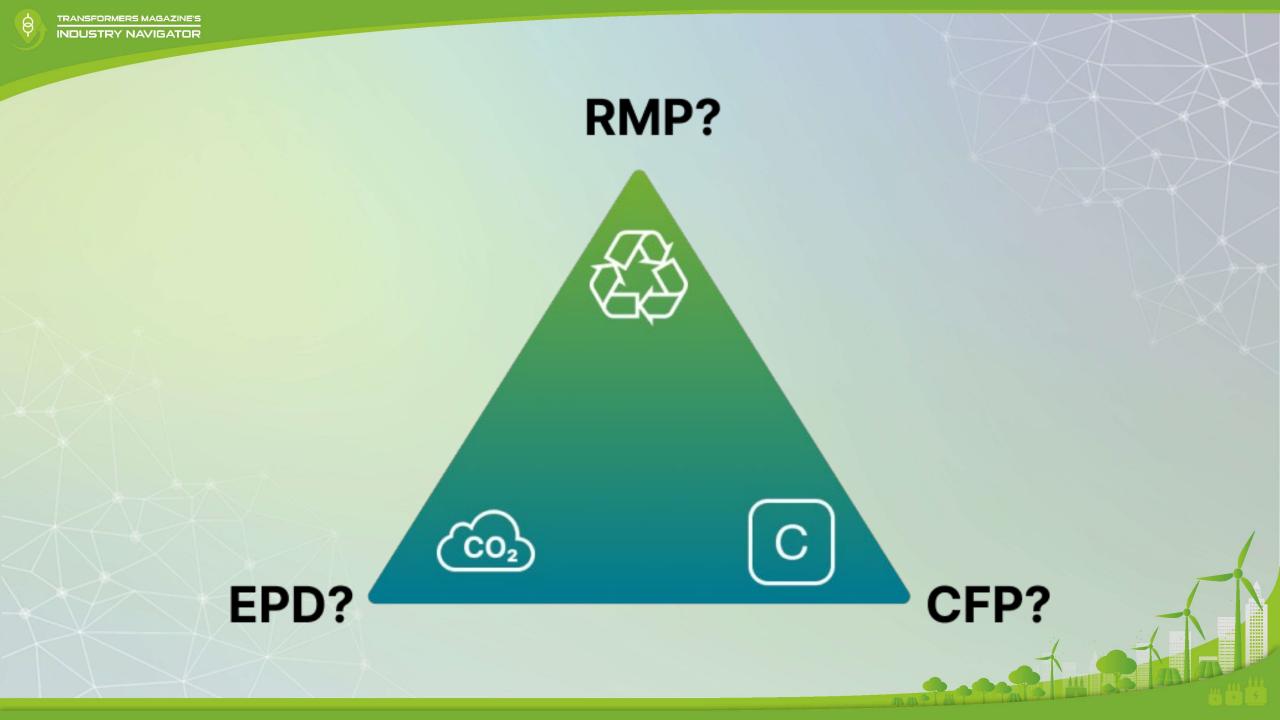
transformers



About us

- Demand for green products and sustainable practices driven largely by the European market
- □ 2021 Paris agreement goals for the EU:
 - Cutting GHG emissions by 55% with 1990 as base year by 2030
 - Carbon neutrality by 2050
- ☐ Electrification as part of the decarbonization efforts
- DSOs & TSOs striving to green and digital power grids and transformers must fit these trends





Project requests

CFP (Carbon Footprint of Product)

CFP FOR KONČAR MEDIUM POWER TRANSFORMER

Commissioned by Končar D&ST



CFP FOR KONČAR DISTRIBUTION TRANSFORMERS

DT2541, DT2658, DT2870, DT2542, DT2858-1, DT2857, DT2859, DT2539 & DT2540

Commissioned by Končar D&ST



EPD (Environmental Product Declaration)



KONČAR DISTRIBUTION AND SPECIAL TRANSFORMERS



ENVIRONMENTAL PRODUCT DECLARATION

40 MVA Oil Immersed Medium Power Transformers, ET 1455 and ET 1455/1 produced in Končar D&ST, Josipa Mokrovića 8, 10090 Zagreb, Croatia

in accordance with ISO 14025 and EN 50693

Publisher	EPDItaly
Declaration Number	







DATE: 2023-02-14 VALIDITY UNTIL: 2028-02-13

Project requests

- RMP (Raw Material Passport)
 - ☐ Insight into the raw materials used in a product
 - Increases transparency of the supply chain
 - Based on (largely) real-data collected from suppliers
 - Allows the customer to have better insight into the product, sourcing of the raw materials



Collaboration

Sales

Dispatching & Packaging department

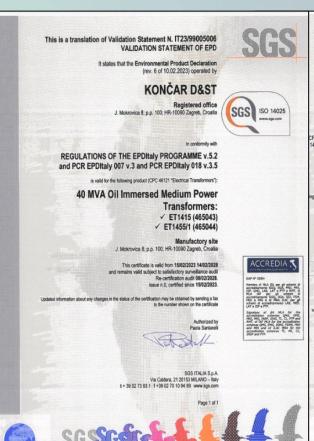
Technical department

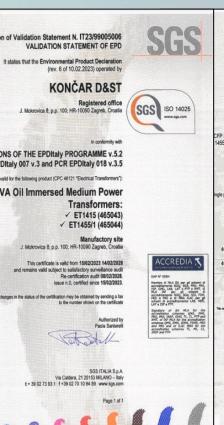
Purchase department

Production planning

Verification statements







Translation of the Verification Statement n.IT23/99004562

SGS Italia S.p.A. declares that the partial Carbon Footprint of Product

Koncar DS&T

Headquarter: J. Mokrovica 8; p.p. 100; HR-10090 Zagreb, Croatia

In the final CFP Study Report named:

CFP Study Report of 40 MVA Oil Immersed Medium Power Transformers, ET 1455 and 1455/1 produced in Končar D&ST, Josipa Mokrovića 8, 10090 Zagreb, Croatia" version

ISO 14067:2018

For the following declared unit: ingle piece of Koncar 40 MVA Oil Immersed medium power transformer, with primary voltage 110 kV and weight of 55380,1 kg

For the following products 40 MVA Oil Immersed Medium Power Transformers, ET 1455 and ET 145511

J. Mokrovica 8; p.p. 100; HR-10090 Zagreb, Croats

40 MVA Oil Immersed Medium Power Transformers (ET | 228244.2 kgCO2e/DU

1455 - 465043) 40 MVA Oil Immersed Medium Power Transformers (ET

from 01/01/2021 to 31/12/2021 system boundary: cradle to gate

Rev. n.0 of 03/02/2023

Paola Santarell

SGS ITALIA S.p.A Via Caldera, 21 20153 MILANO - Italy t+39 02 73 93 1 f+39 02 70 10 94 89 www.sgs.com

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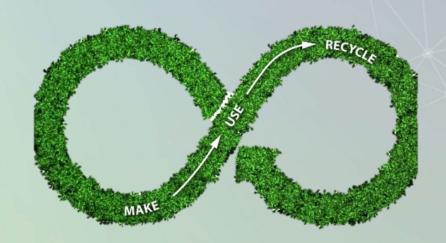
CARRON

FOOTPRINT

Sustainability Services

Circularity

- ☐ Circular economy is a model that replaces the linear one
- □ British economists Turner and Pearce noticed the lack of desire for sustainable development among the traditional businessmen
- The basis of this philosophy is that waste does not exist; everything can be used again in another way or be broken down into substances that can become part of the life cycle





- Increasingly strict regulation
- Expansion of existing rules
- Driving market trends
- Increasing transparency

- ☐ Complying with customer demands
- ☐ Keeping up with market trends
- ☐ Putting pressure along the supply chain
- Adopting or creating trends faster than legislation is being rolled out

Reporting requirements

- ☐ Corporate Social Responsibility (CSR) "the responsibility of enterprises for their impacts on society"
- □ 2020 the first large wave of considerations on the topic of "green growth"
- ☐ Corporate Sustainability Reporting Directive (CSRD)



Connecting the blocks

- ☐ ESG Strategy
- ☐ Calculating GHG emissions
- EU Taxonomy
- Continued education

Management Board & CSO

ESG coordinator

ESG team

Employees

Cleaner manufacturing

☐ Electricity at production site in Zagreb 100% from renewable sources





- 1.1 MW photovoltaic plant
- ☐ Covering ~30% electricity needs
- Part of our corporate social responsibility to contribute towards the reduction of emissions

Plans for the future

- □ Continued collaboration and exchange of knowledge with end customers
- ☐ Further development of our ESG Strategy
- ☐ Investing time and human resources in quality products and work environment
- ☐ Setting an example in decarbonization

