

# KOLEKTOR ETRA USA

## Power transformers

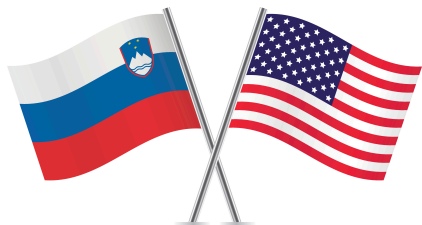


**NORTHBRIT**  
A *SPI* group company



of tradition in  
power transformer industry

# About Us



We are a successful international company specialized in the production of power and generator transformers with a rated power up to 500 MVA and a rated voltage up to 420 kV. With our products, we compete in global markets by exporting them to more than 40 different countries on five continents.

Our goal is to supply products that impress the customer with their technical parameters and high quality, as well as an optimal balance between price and performance. Therefore, we carefully design our transformers and ensure a quality manufacturing process for the final product.

## Mission

Efficient energy transformation for the benefit of customers, employees, shareholders and the environment

## Vision

To become the most respected brand among transformer manufacturers

**Since 2023, we have established a U.S. presence in North America through our partner **NORTHBRIIT**, collaborating with several local U.S. companies specializing in transportation, assembly, and site supervision.**



# Kolektor Etra



**>300** mio EUR  
annual turnover  
(including daughter  
companies)

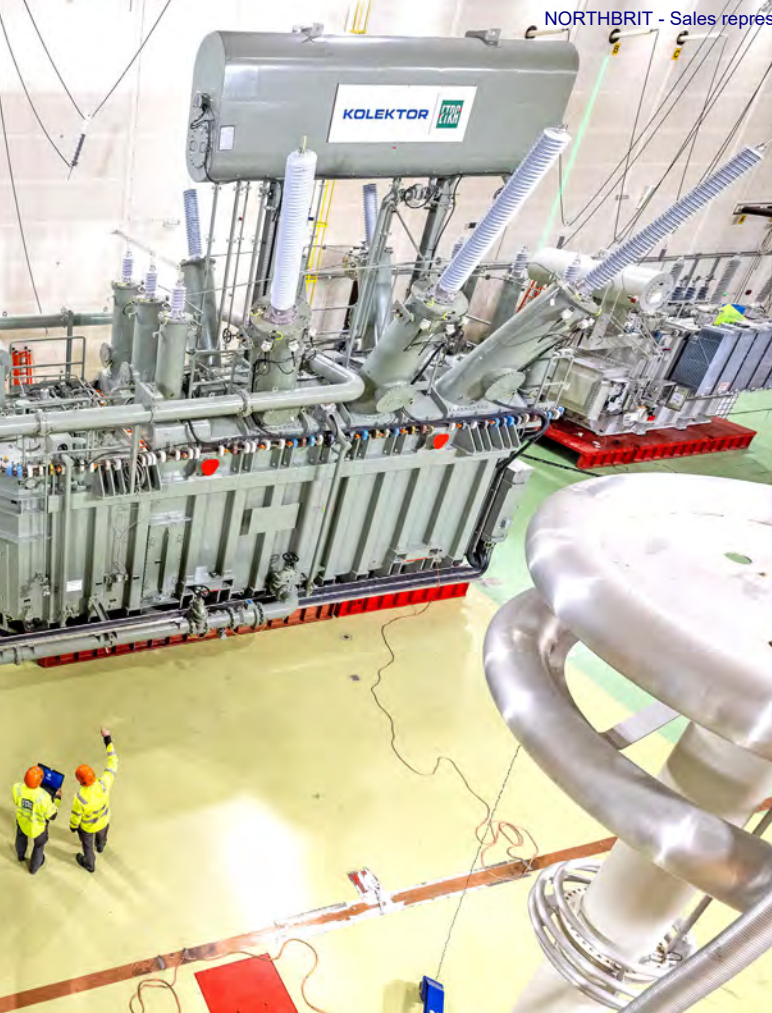


**>90**  
Years of tradition in  
transformer  
manufacturing



**>40**  
countries have  
in operation  
transformers  
produced  
by Kolektor Etra





# in numbers



**66.782 m<sup>2</sup>**

Total company area in Ljubljana



**21.049 m<sup>2</sup>**

Production area In Ljubljana



**550**

Employees



90  
YEARS

of tradition in  
power transformer industry



## 1933

In this year, electro-mechanical and transformer repair workshop was founded by the Carniolan provincial power plant.



## 1954

First transformer based on company's own design and knowledge was developed in factory in Črnuče.



## In early 80's,

the development policy of the electrical industry in former Yugoslavia envisaged, that all demand for transformers would be covered by domestic production. This was an important task for Črnuče transformer Factory, which was at that time the second of the three largest transformer manufacturers in former Yugoslavia. The third was Minel from Belgrade and the first was Zagreb-based Rade Končar factory.



## 1980

New high-voltage laboratory was built for testing transformers up to 150 MVA – 245kV.



## 1992 – 1999

After Slovenia's independence, business was limited to the Slovenian market, where sales gradually increased during the years. The key to the further development of the company was to start exporting transformers to European market. There was a lot of mistrust from European clients, not only because of factory's location, but also because of the poor state of the company and the lack of references. With the production of quality transformers for the Swedish market, the list of references grew and opened the door to new foreign clients. Etra33 started selling to Sweden, Norway, Denmark, Bosnia and Herzegovina and Iceland. In 1997 the company was transformed into the joint-stock company Etra 33 Tovarna transformatorjev d.d., and obtained the ISO 9001 quality certificate.



NORTHBRIT - Sales representative

## 2000 – 2010

In the years 2000 to 2010, the business is focused on the growth of export to Scandinavia and Western Europe. The company is focused on modernization of production equipment and production facilities.



## 2010

Company ETRA 33 becomes a part of KOLEKTOR group and changes its name into KOLEKTOR ETRA d.o.o.

## 2012

In this year, the first 400kV transformer was produced, ordered by Slovakian customer.



## 2012 - 2017

Expansion of the production program of power transformers up to 500 MVA and up to 420 Kv



## 2017 - 2020

Acquiring of company Kolektor IGIN (2017, electrical engineering and consulting), a Serbian company Minel Dinamo (2018, production of smaller transformers), a Poland company Weltech (2020, transformer tanks producer), and an ownership stake in the company Primabiro (2021, transformer tanks producer)



## Today

With our products, we are present in more than 40 countries around the world. In 2022, together with our subsidiaries, we exceeded 230 million EUR in sales revenue. More than 90% of transformers are sold abroad, and the largest markets are Germany, Great Britain and Sweden. Kolektor Etra in Ljubljana has 550 employees and over 1,000 employees together with subsidiary companies in Belgrade, Poland, Sweden and Croatia



# Production program



## 400kV Power Transformers

Transformers up to 500 MVA rated power and 420 kV rated voltage with on-load or of-load tap changing, produced in Ljubljana, Slovenia



## Middle Sized Transformers

Transformers up to 40 MVA rated power and 145 kV rated voltage, produced in Kolektor Etra Beograd, Serbia



## Transformer Tanks

Transformer tanks up to 40T, produced in Kolektor Weltech, Poland

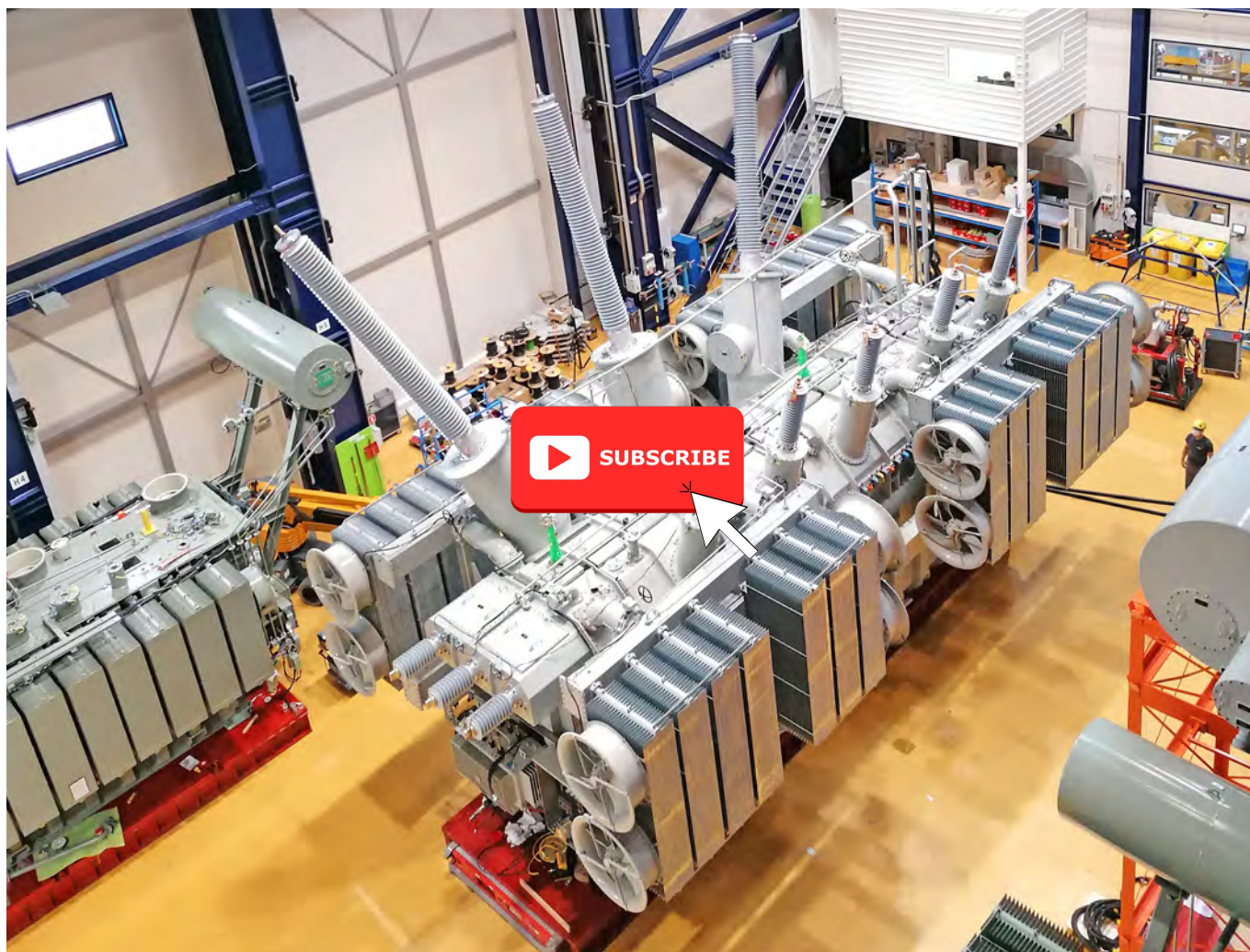


# Power transformers

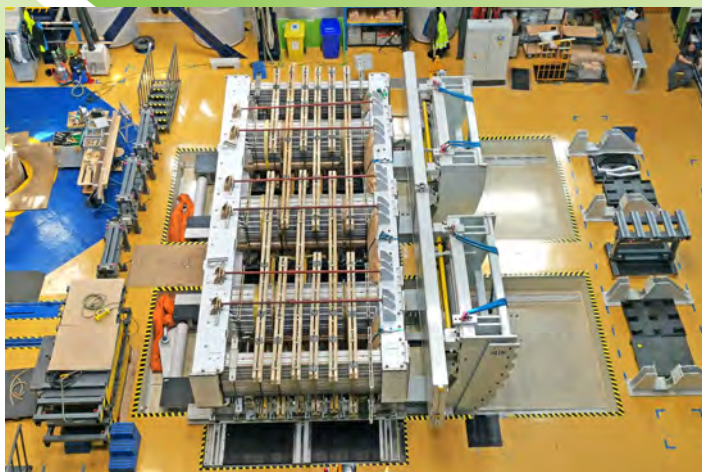
**Power transformers up to 500 MVA rated power and 420 kV rated voltage with on-load or off-load tap changing**

- Demanding projects (offshore, windfarms,...)
- Reduced losses and noise levels
- Clean production and controlled humidity atmosphere
- Most of our 400 kV transformers have been delivered to Finland, Norway, Germany, Sweden, Slovakia, Serbia...

**Virtual visit of our factory** : <https://www.youtube.com/watch?v=nj01KXzPPk8>



# Our Advantages



## Advanced manufacturing

Our manufacturing facilities include machinery for cutting and stacking of core sheets winding and treating of different kinds of windings as well as dry and oil treatment facilities.

## High voltage laboratory

for transformer testing is equipped with advanced and precise measuring equipment assuring exact measurements and reliable results. Measuring instruments are regularly calibrated by authorized institutions.





## Trained staff

Experienced and skillfully trained team is able to perform any type of routine, standard and special tests, required by the regulations of international standards, and dielectric insulation tests on other types of high-voltage equipment.



## Technical support

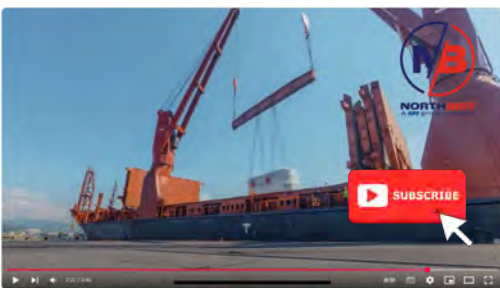
We also offer repair and maintenance services for transformers produced by other manufacturers, either on site or in our workshop. The advantages of our servicing department are: fast reaction, professional inspection and diagnosis of the failure, and repair within the agreed-upon term.

# Our global business



We market our products in more than 40 countries, on 5 continents, on off-shore platforms, in the engine houses of hydro, thermal power and nuclear plants and in the harsh environment of industrial facilities, in tropical jungles and in the desert, in the cold north and at the coast.

**Watch our international shipment capabilities:** <https://www.youtube.com/watch?v=y1eT1dPdSEY>



ufrom Mediterranean to East coast Kolektor ETRA power transformers with NORTHBRIIT



Sweden



Vietnam



Switzerland



Germany

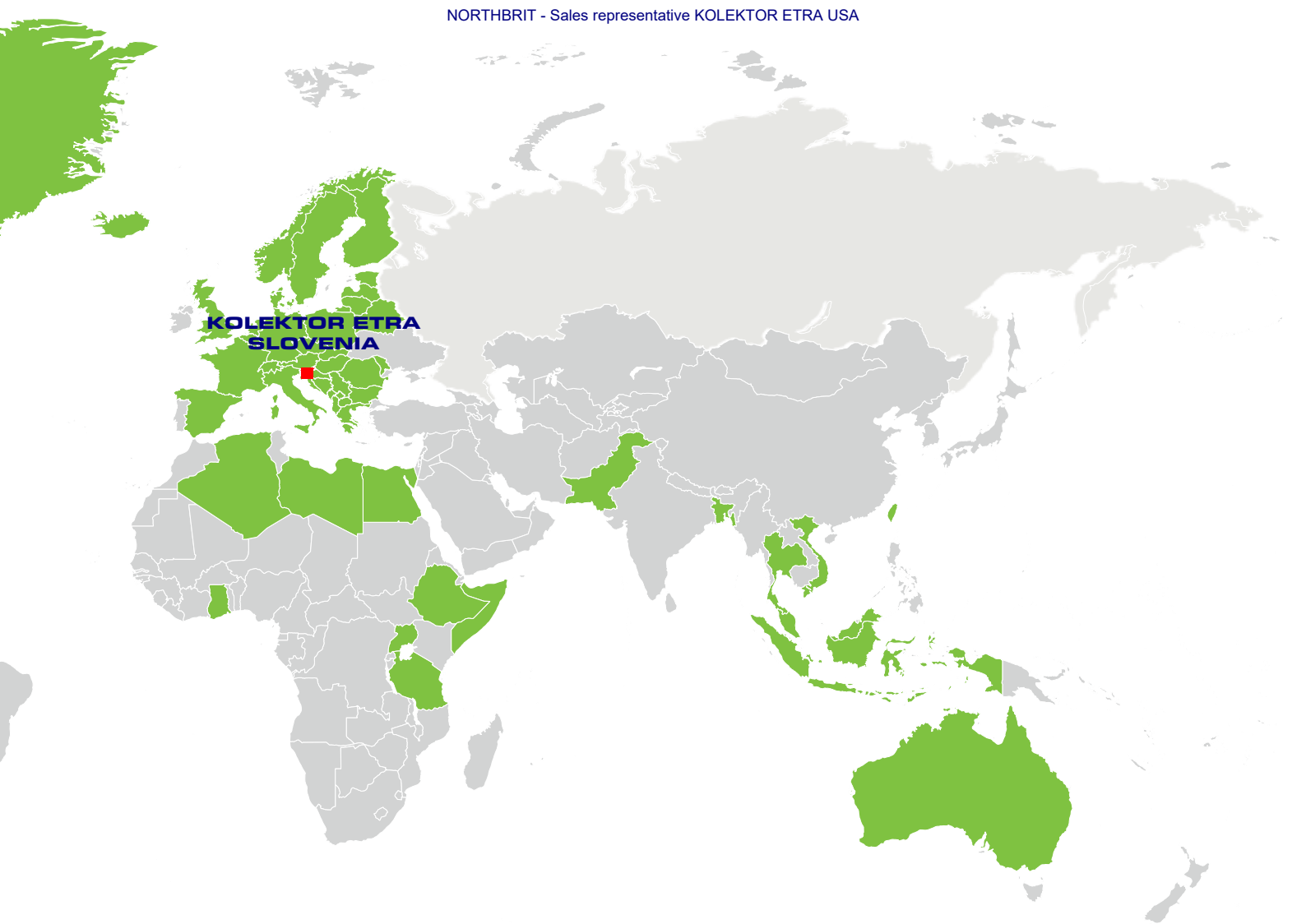


Spain



France





**KOLEKTOR ETRA  
SLOVENIA**



**Netherlands**



**United Kingdom**



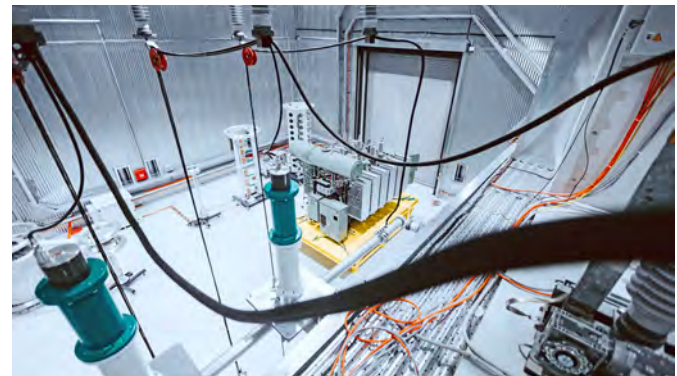
**Finland**



**Slovenia**

# Kolektor Etra Beograd –

## Our Production Company in Serbia



Kolektor Etra Beograd is a daughter company of Kolektor Etra from 2018. It is renowned manufacturer of distribution, special and power transformers of up to 40 MVA rated power and up to 145 kV rated voltage, in accordance with the international standards and high requirements of the customers. Innovation and professionalism are the words by which they are recognizable on the market.



**>70 years**

Presence on the market



**120**

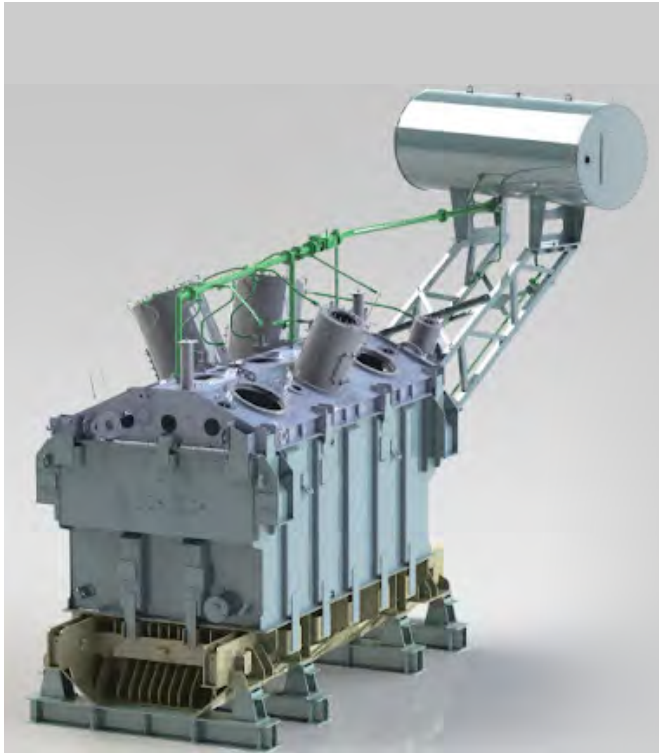
Employees



# Kolektor Weltech – High Quality Transformer Tanks

Kolektor Weltech is a company located in Poland, owned by Kolektor Group and Kolektor Etra. The production program of Kolektor Weltech includes transformer tanks and the related fittings and accessories, equipment and products intended for the power industry.

Over the years company became specialized in production of high power transformer tanks, distribution transformer tanks, traction transformer tanks and magnetic shields.



# Sustainability

Transforming  
future to the green





**Sustainability is a fundamental element of Kolektor Etra's corporate strategy. A significant step in striving to make progress in the field of sustainable development is also the expansion of our sustainable development values to suppliers and the local community.**

**We strive to incorporate sustainable development into our everyday business, and what is more, into our business strategy as well. We understand sustainable development not only from the perspective of managing risks associated with climate change but also as an opportunity for business development.**

**We believe that the green transformation for Kolektor Etra is an opportunity for:**

- Identifying where in technological processes we can still reduce the impact on the environment.
- Making strategic decisions in the design of the transformer to reduce the environmental footprint.
- Reduction of environmental tax and "green costs".
- Cost reduction.
- Raising the profile and drawing attention to our sustainability capabilities.
- Control over suppliers.
- Investing in green technology and renewable resources (solar power plant in a covered parking lot, green IT, recycled Al, Cu...).

Our commitment is also oriented towards acting environmentally responsibly at all stages of operation and continuously reducing harmful environmental impacts. We look forward to collaborating with our stakeholders in the light of sustainability at all levels and we will continue our mission of green transformation in the coming years.





# Off-shore projects





**Kolektor Etra is a renowned supplier of power transformers specifically designed to meet the requirements for offshore installation.**

**Kolektor Etra to date supplied offshore power transformers in the North, Baltic, Irish and China Sea. In the Baltic and North Sea we have energised the first offshore transformer in 2010 and to date successfully installed and energized more than 60 transformers up to 260 MVA rated power.**

**We have earned trust from global leaders in offshore wind industries such as Ørsted A/S, Semco Maritime A/S, TenneT TSO B.V.**

Our experienced team of engineers designs the transformer according to the technical specification and to the technical and customer's needs. Moreover, we align the design with the mechanical design of the offshore substation (OSS) at the same time – we see the bigger picture of the offshore project and think outside the box to carry it out.

To see our interactive offshore map with project references follow the link here:  
<https://kolektor-etra.si/en/offshoremap/>



**Offshore app**



# Kolektor Etras' Vertical Integration

## Transformer Monitoring System And Engineering Services

**Kolektor Etra developed its own transformer monitoring system with daughter company Kolektor Igin. At this time we are also cooperating with Maschinenfabrik Reinhausen in the development of custom made monitoring systems.**

- **Transformer monitoring system (TMS)**, developed together with our daughter company Kolektor Igin, enables the measurement, capture, display and export of power transformer operating data. The system monitors the transformer throughout its lifetime, displays and monitors key electrical, physical and chemical parameters, and calculates the expected lifetime of the transformer based on these parameters.
- **Kolektor Igin also specializes in erection and reconstruction of medium and high voltage power networks, especially substations up to 400 kV.** With highly qualified experts, Kolektor Igin implements advanced and reliable technical solutions in the field of electricity generation, transmission and distribution for energy sector and major industrial customers in Slovenia and abroad.
- **Kolektor Igin offers their customers complete turnkey projects**, complete reconstructions of existing facilities and substations, as well as individual services and products in the areas of consulting, engineering, electrical design, manufacturing, assembly, testing and commissioning of primary and secondary equipment.







# QHSE management

With Integrated Management System Certificates (IMS), we aim to fulfill expectations of all participants involved in the company business process: customers, owners, suppliers and public.

## ISO 9001:2015

Certificate (since 1997)

## ISO 14001:2015

Certificate (since 2000)

## ISO 45001:2018

Certificate (since 2019)

**Environmental  
policy**

**Quality policy**

**Health and  
safety policy**

**Prequalification  
(Achilles)**





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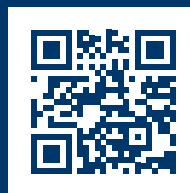


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