

Trasfor
RENEWABLE ENERGY



Introduction

Renewable energy is defined as the energy that comes from natural resources, such as sunlight, wind, sea waves and rain. Consequently, the electricity generated from solar or wind solutions is included in the definition.

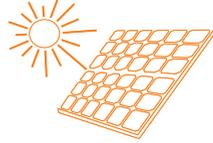
Wind energy is produced by converting the kinetic energy of wind into other forms of energy, while the photovoltaic plants or solar solutions are electrical facilities using the sunlight as electricity generator.

For both LV and MV application systems, efficiency and compact sizes are crucial. Our engineering experience allows us to design transformers and inductors to fit inside existing inverter cubicles or in turbine towers, where space is a premium without forgetting that economy is of prime importance.

Our in-house FEA design facility allows our engineers to study complex electro-magnetic circuits as well as the structural and thermal performance enabling us to provide the required level of reliability in the finished product.







Solar solutions

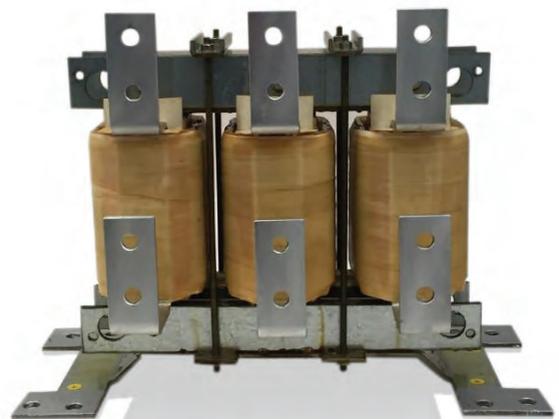
The photovoltaic plant is an electrical facility that uses solar energy to produce electricity. These plants are divided into two main groups: island plants, known as “stand alone”, and plants connected to an existing distribution grid managed by a third party, known as “grid-connect”.

In the photovoltaic sector, Trasfor provides transformers and reactors for DC/AC converters and the networking of the energy produced.

Their main characteristic is the reduced no-load losses and high efficiency, which are heavily regulated by EU directives. The main features of these power supplies are low cost and limited losses. In this sector, the use of noble raw materials and the careful design of the windings are also important.

Finally, special devices facilitate the mass production of these products. They are thus mass-produced products which require quality but also special attention to cost optimisation.

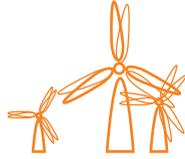
Cooling systems with either forced air (AF) or forced water (WF) enable very compact dimensions – often a critical factor in the installations.







Wind Power Solutions



Wind energy is produced by converting the kinetic energy of wind into other forms of energy, usually electrical energy. Wind power is without doubt the first choice amongst all forms of renewable energy in terms of cost efficiency. This has led to clear market interest, which has resulted in huge investments. Trasfor has identified an important line of development in this market and provides both medium and low voltage transformers and reactors for this application. Considering the nature of the power involved, the associated high currents and the constant need to reduce weight and volume, reactors are often installed with direct and indirect water cooling systems. The same is true for the medium voltage step-up transformers.





Quality

- Quality as ISO certification 9001
- Quality as total respect of environment with ISO 14001
- Quality as OHSAS 18001
- Quality for the railway industry as IRIS - International Railways Industry Standard
- Quality of products through UL File E172880 and UL File E216928 certification
- Quality of welding through ISO EN 3834-2 and EN 15085 certification

Quality through entrustment by the following certifying bodies:

ABS - American Bureau of Shipping

BV - Bureau Veritas

Standards: all int. standards such as IEC, BS, CSA, UL, VDE/DIN, ABS, BV, ANSI, DNV, LRS, CCS, RMRS, etc.

Certificate of conformity to GOST R

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Revision n°2.
20.02.2016