POWER SUPPLY
FOR CONVERTERS

ENERGY
TRANSFORMATION

celme

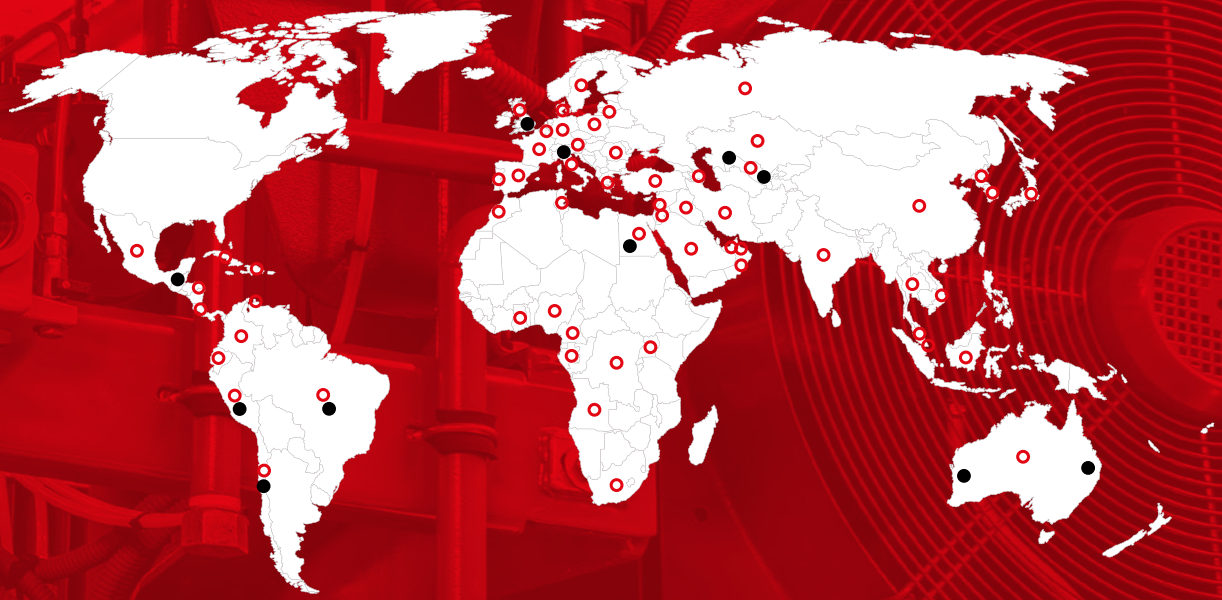
we make transformers

+55
YEARS OF EXPERIENCE

69.000
TRANSFORMERS PRODUCED

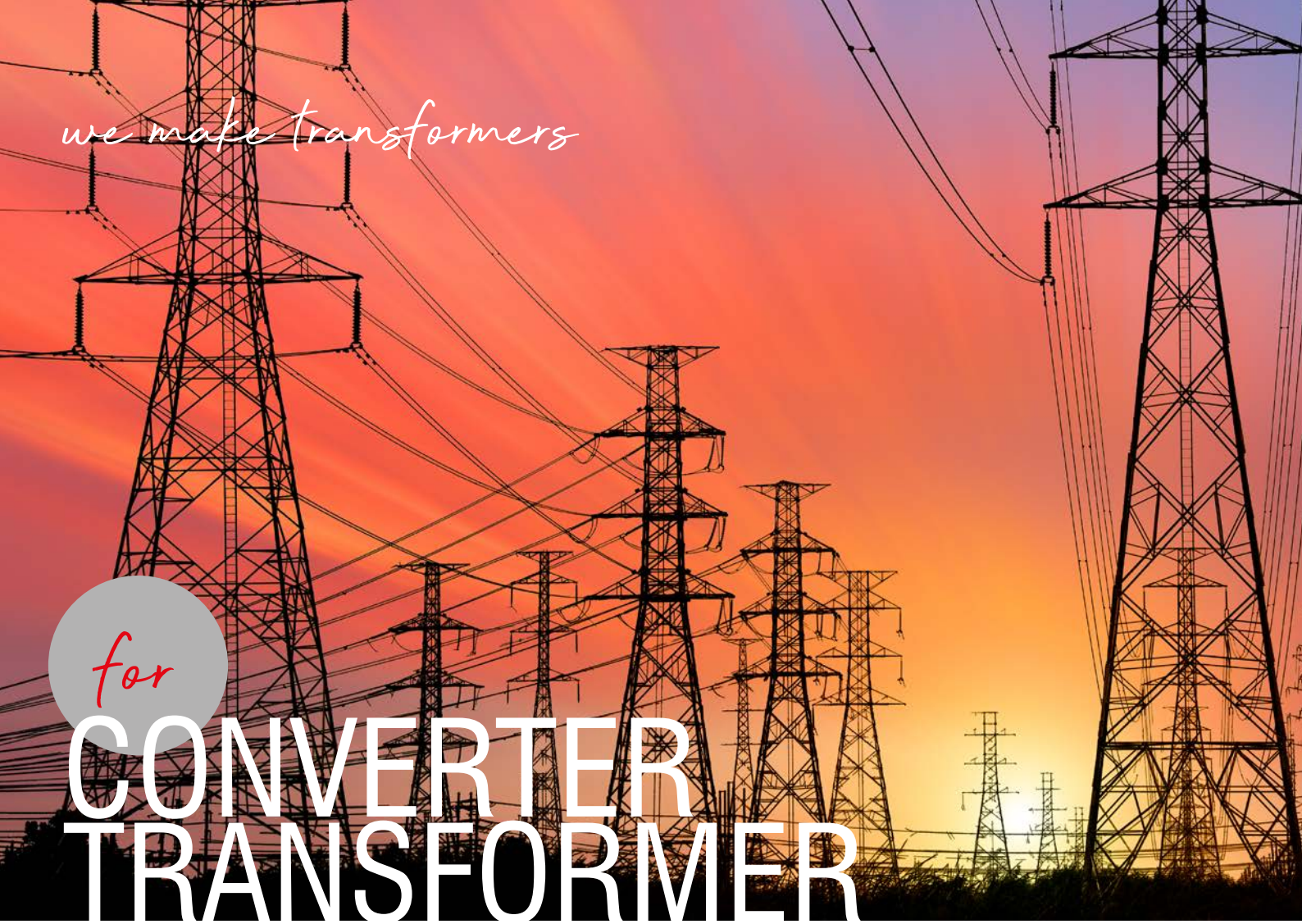
+70
COUNTRIES WHERE OUR TRANSFORMERS ARE INSTALLED

we are all over the world



Countries where our transformers are installed

Celme's Partner



we make transformers

for

CONVERTER TRANSFORMER

Transformers for variable frequency systems are applied whenever variation on speed / torque is requested, for instance in case of soft-starters of big motors for Marine and Industrial applications or Oil&Gas sector (in the range from 0 to 70 Hz).

DESIGNING IS FULLY IN COMPLIANCE WITH INTERNATIONAL STANDARDS LIKE IEC 61378-1 AND THE BEST INDUSTRY PRACTICE.

Current and voltage harmonics' effects are duly considered to avoid the risk of overheating and to limit hot-spots by a finite element analysis.

THE EXPECTED TRANSFORMER LONG-LASTING LIFETIME CAN THEREFORE BE PRESERVED EVEN WHEN IT UNDERGOES CONSTANT HIGH LOADS IN THE MOST DEMANDING ENVIRONMENTS.

To satisfy diode and thyristor rectifiers solutions, multipulse (up to 48) transformer can be designed in several configurations. LV or HV windings' phase shifts are effectively produced according with required winding configuration (zig-zag, extended delta or polygon) or according with the most suggestable solution able to limit the current harmonic content.

CELME MULTIPULSE SOLUTIONS RELIABLY COMPLY THE STRICTEST TOLERANCES ON VOLTAGE RATIOS, PHASE SHIFTS AND SHORT-CIRCUIT IMPEDANCES.

Loosely coupled, strictly coupled or fully uncoupled options can be made, and high insulation requirements on valve windings can be achieved to sustain the homopolar voltages arising in serie connected rectifiers.

THE DESIGN CAN BE CUSTOMISED ACCORDING WITH SPECIFIC REQUIREMENTS AND ACCESSORIES, SUCH AS OFF-CIRCUIT OR ON-LOAD TAP CHANGERS.

RENEWABLE
BESS

RENEWABLE
PHOTOVOLTAIC / WIND

HYDROGEN

INDUSTRIAL

INDUSTRIAL
DISTRIBUTION

POWER SUPPLY FOR CONVERTERS
ENERGY TRANSFORMATION

OIL AND GAS
OFFSHORE / ONSHORE
HAZARDOUS / SAFE AREAS

celme
we make transformers

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