



world of transformers

**BUILDING & INFRASTRUCTURE
TRANSFORMERS**



BUILDING & INFRASTRUCTURE APPLICATION

The population continues to grow at a fast pace, globally. Currently, the number of people on the planet grows by approximately 83 million (1.1%) every year.

There is also evidence that the population in most of the developed regions of the world is migrating towards the main cities. As a result of this, construction of buildings and infrastructure is expected to grow by around 70%, globally, by 2025.

This, together with commitment globally to reduce carbon emissions, means that government strategies include a strong focus on and demand for more cutting-edge, sustainable green technologies; to enable them to meet development targets, while continuing to reduce the impact that we are having on the environment.

As cities continue to become more densely populated, it's also critical that equipment and infrastructure is highly robust and, above all, very safe.



DRY TYPE SOLUTIONS

TMC Transformers SpA offer a wide range of dry type transformers for use in buildings:

- Dry type transformers with ratings up to 25MVA and 52kV system voltages.
- Advanced technologies: cast resin and fiberglass encapsulation.
- 155 (class F) & 180 (class H) thermal insulation classes.
- AN (air natural), AF (air forced) & WF (water forced) cooling technologies.
- CESI Certified E4 (Environmental), C3 (Climatic) & F1 (Fire) classes.
- Enclosed options up to IP65 to suit your application.



ENVIRONMENTAL CLIMATIC-FIRE CLASSES

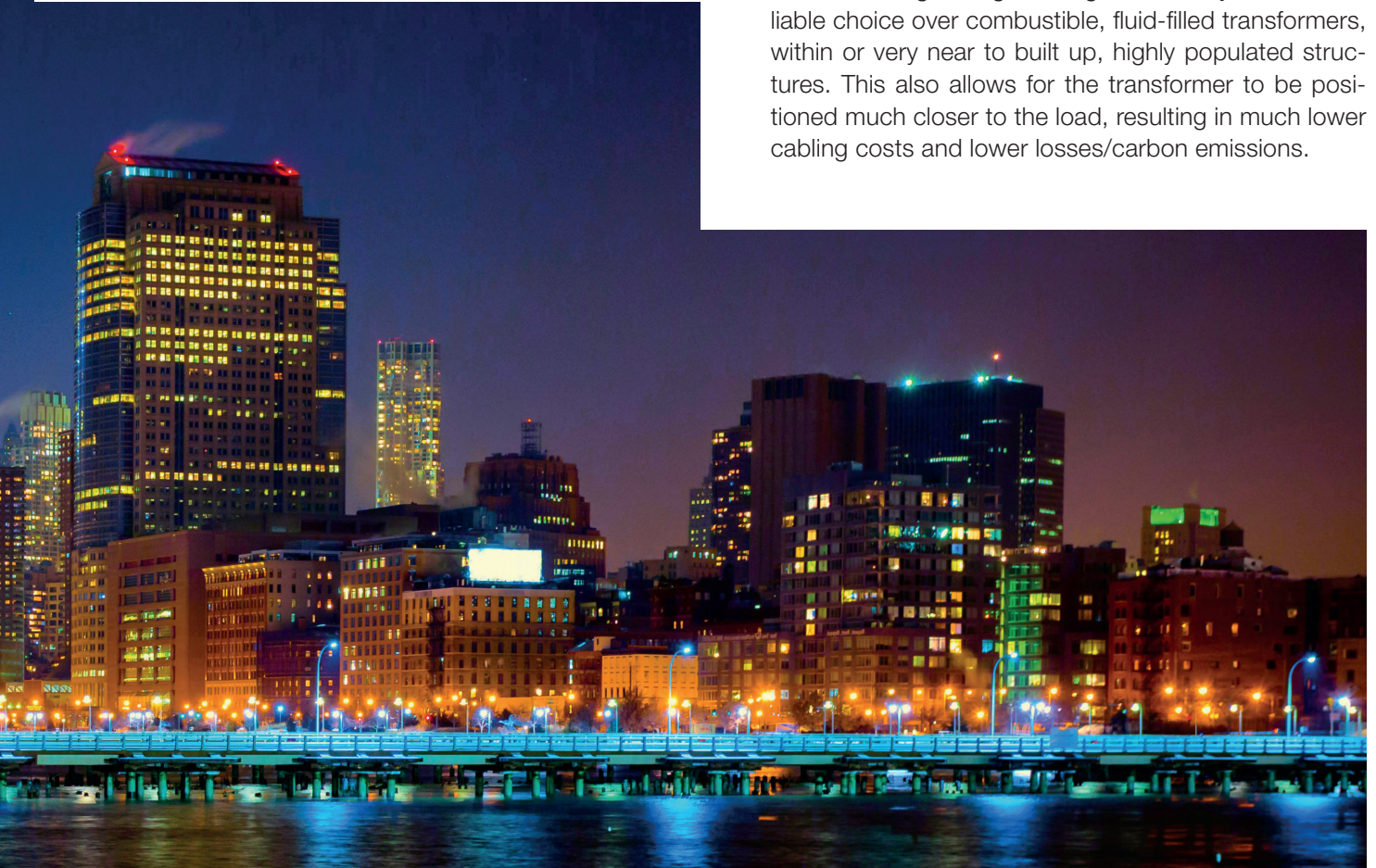
CESI LAB
CERTIFICATION



CAST RESIN SOLUTIONS

Cast resin transformers are great solution for supplying and distributing energy within buildings.

Fire Safety - the insulation system is flame retardant and self-extinguishing, making them a very safe and reliable choice over combustible, fluid-filled transformers, within or very near to built up, highly populated structures. This also allows for the transformer to be positioned much closer to the load, resulting in much lower cabling costs and lower losses/carbon emissions.

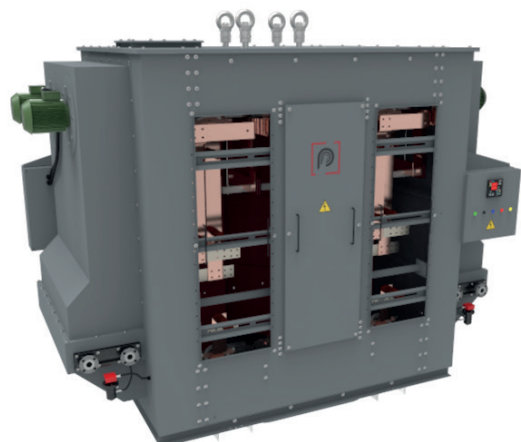


High efficiency - the TMC EcoFriendly Series of distribution transformers are compliant with EU 548-14 Tier 2 (2021) losses directive.

Low maintenance - cast resin transformers require very low maintenance, reducing service costs over the design life.

Reliability - proven designs that are highly resistant to transient voltages, system harmonics, adverse atmospheric conditions (heat, humidity, saline, chemicals, dust, etc.)

Technology - advanced resin insulation systems (H-ART 180), wireless temperature and condition monitoring solutions.





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A low-angle photograph of a modern glass skyscraper reaching towards a blue sky with scattered white clouds. The building's facade is composed of a grid of windows, some of which are illuminated from within. The perspective is from a lower level, looking up at the building's side.

TMC Transformers SpA is a leading transformers manufacturer. Its Engineering and Manufacturing Team has more than 30 years experience accrued in main Companies in Switzerland and Italy. Industry transformers are special, we always design them for the Customer needs, using technical specifications and applicable standards.