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# The transformer that can minimize environmental impact without compromising with efficiency and effectiveness

In 1979, Tesar emerged as an innovative company, pioneering the production of transformers using resin-casting technology, a first in Italy and among the leading companies in Europe. Today, Tesar remains committed to its philosophy of achieving cutting-edge innovation in the production of cast resin insulated transformers. In the context of the 17 Sustainable Development Goals outlined in the UN Agenda 2030, sustainability goals have gained global recognition and importance. It is increasingly crucial for all companies to adopt these goals to attain tangible and lasting results. As an enterprise and a collective of individuals, our company feels the responsibility to prioritize and take action to become a future-ready organization.

Tesar envisions a world where practical and sustainable practices are seamlessly integrated with the production of advanced products. Our transformers are designed following eco-friendly principles, enabling our customers to reduce energy consumption and greenhouse gas emissions. However, our commitment to sustainability goes beyond economic interests, encompassing values like combating climate change and ensuring responsible production and energy consumption.


By embracing these values, we create a positive impact on the environment and society while optimizing production processes, leading to reduced company costs. Our dedication to achieving

sustainability goals goes beyond mere value creation for stakeholders and partners; it extends to benefiting the communities where Tesar operates.

Situated amidst the lush greenery of the Casentino forests in the province of Arezzo, our research and development center diligently explores greener technologies and operational practices for manufacturing highly environmentally-friendly transformers. This relentless pursuit of excellence will drive Tesar towards a cleaner and more sustainable world for generations to come.

Aligned with our focus on innovation and sustainability, we have taken the role of an innovation engine and catalyst for change. Introducing EcoPlus2030, a range of transformers designed using state-of-the-art materials to combat climate change effectively. Compared to the existing EcoDesign Tier2 Transformers set by the European Community, EcoPlus2030 Transformers boast significantly reduced CO2 emissions and losses. Just like the olive tree, an iconic symbol of strength and resilience in our region, our EcoPlus2030 Transformers play a vital role in reducing CO2 levels throughout their lifecycle, positively impacting human well-being. Much like an olive trees contribution to the ecosystem and human nutrition, our EcoPlus2030 Transformers continuously improve environmental conditions, making the world a better place for all.



	Po	Hypothesis of Po energy consumption in 1 year	Hypothesis of Po energy consumption in 20 years	CO2 Reduction				Weight of CO2 reduction	
	Guaranteed			Reduction of CO2 emission per GOES production	CO2 Emission reduction per Po reduction		Total CO2 reduction	Due to Po (20 years)	Due to GOES
Insulation Level 12.5kV - 17.5kV - 24kV	W	kWh/year	kWh/20y	kg CO2	kgCO <sub>2</sub> /year	kgCO <sub>2</sub> 20 years	kgCO <sub>2</sub> 20 years	%	%
EcoDesign Phase 2 - 160kVA	360	3.154	63.072						
EcoPlus2030 - 160kVA	360	3.154	63.072	-1064	0	0	-1064	0,0	100,0
EcoDesign Phase 2 - 250kVA	468	4.100	81.994						
EcoPlus2030 - 250kVA	435	3.811	76.212	-1520	-132	-2642	-4162	63,5	36,5
EcoDesign Phase 2 - 400kVA	675	5.913	118.260						
EcoPlus2030 - 400kVA	585	5.125	102.492	-1948	-360	-7206	-9153	78,7	21,3
EcoDesign Phase2 - 500kVA	812	7.113	142.262						
EcoPlus2030 - 500kVA	730	6.395	127.896	-1995	-328	-6565	-8560	76,7	23,3
EcoDesign Phase 2 - 630kVA	990	8.672	173.448	0					
EcoPlus2030 - 630kVA	835	7.315	146.292	-2755	-621	-12410	-15165	81,8	18,2
EcoDesign Phase 2 - 800kVA	1.170	10.249	204.984						
EcoPlus2030 - 800kVA	1.040	9.110	182.208	-2850	-520	-10409	-13259	78,5	21,5
EcoDesign Phase 2 - 1000kVA	1.395	12.220	244.404						
EcoPlus2030 - 1000kVA	1.190	10.424	208.488	-3610	-821	-16414	-20024	82,0	18,0
EcoDesign Phase 2 - 1250kVA	1.620	14.191	283.824						
EcoPlus2030 - 1250kVA	1.440	12.614	252.288	-4275	-721	-14412	-18687	77,1	22,9
EcoDesign Phase 2 - 1600kVA	1.980	17.345	346.896						
EcoPlus2030 - 1600kVA	1.720	15.067	301.344	-5795	-1041	-20817	-26612	78,2	21,8
EcoDesign Phase 2 - 2000kVA	2.340	20.498	409.968						
EcoPlus2030 - 2000kVA	2.055	18.002	360.036	-6460	-1141	-22819	-29279	77,9	22,1
EcoDesign Phase 2 - 2500kVA	2.790	24.440	488.808						
EcoPlus2030 - 2500kVA	2.525	22.119	442.380	-7695	-1061	-21218	-28913	73,4	26,6