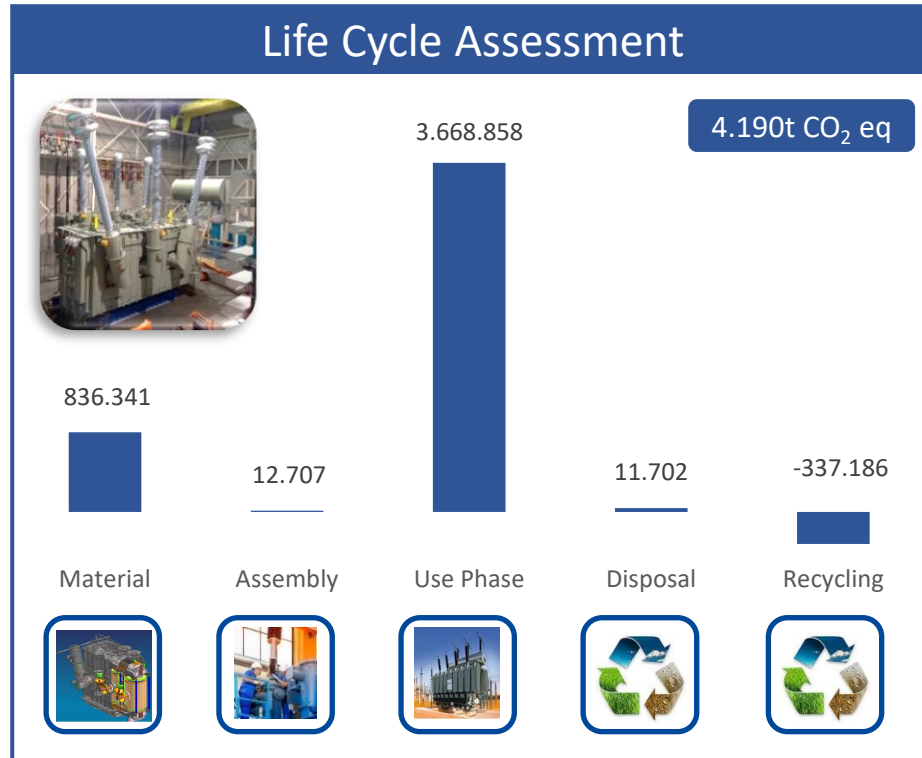


Transformers Go Green

Transforming together the future of energy

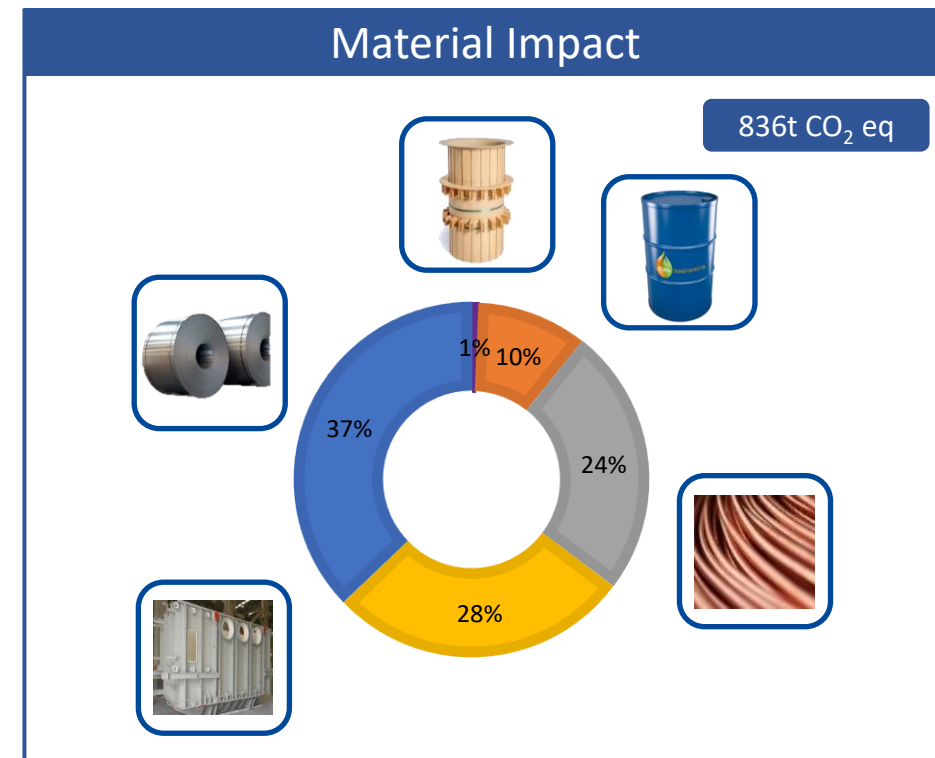


GWP for a complete Life Cycle of a LPT unit



GWP depends on the transformers operating mode:

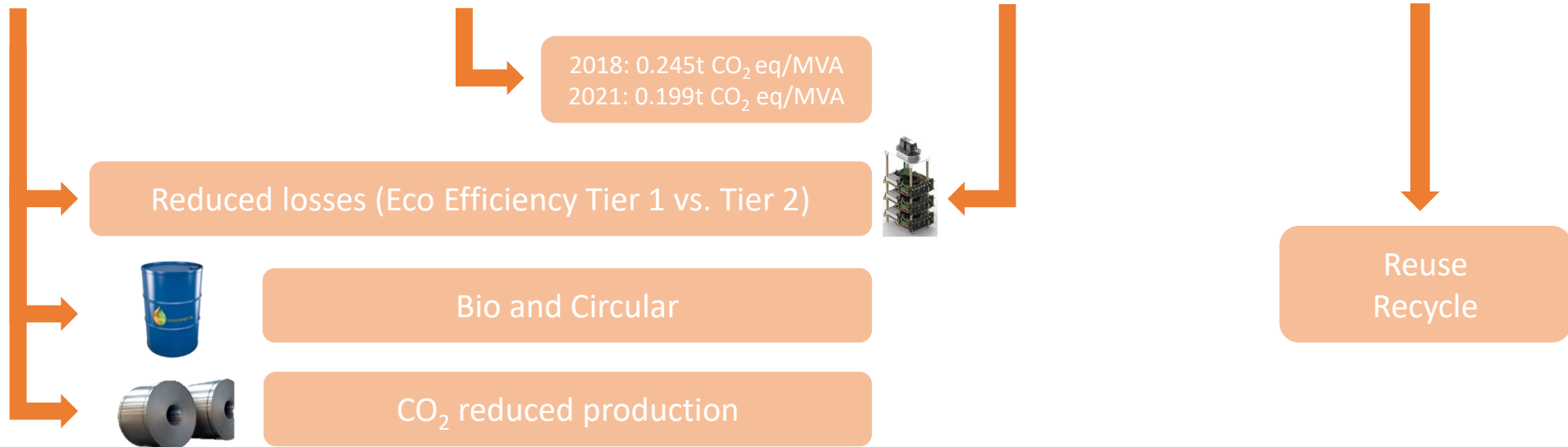
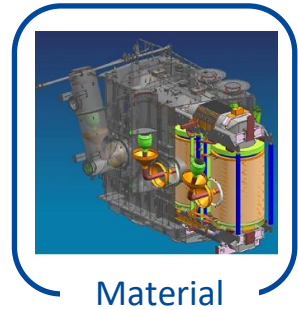
- the load factor is only 20%
 - the use phase 40 years
 - considered energy mix sourced from Europe (European Wind)
- results in an impact of the use phase on GWP of “only” 87%



Due to recycling of the unit 8% are credited to the GWP.

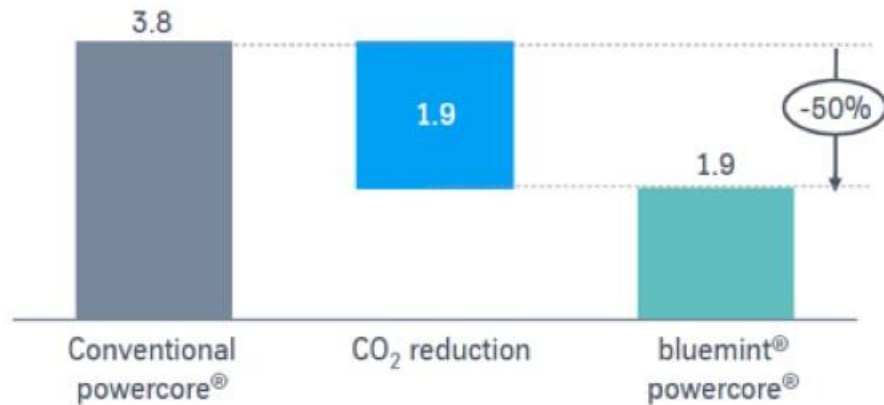
Material impacts around 20% to the GWP. The highest contribution is from steel.

How to reduce CO₂ emissions during the Life Cycle?



bluemint® powercore® offers up to 40% reduced CO2 emissions potential of a transformer

CO2 intensity in grain oriented electrical steel (t CO₂-equ/t powercore®)

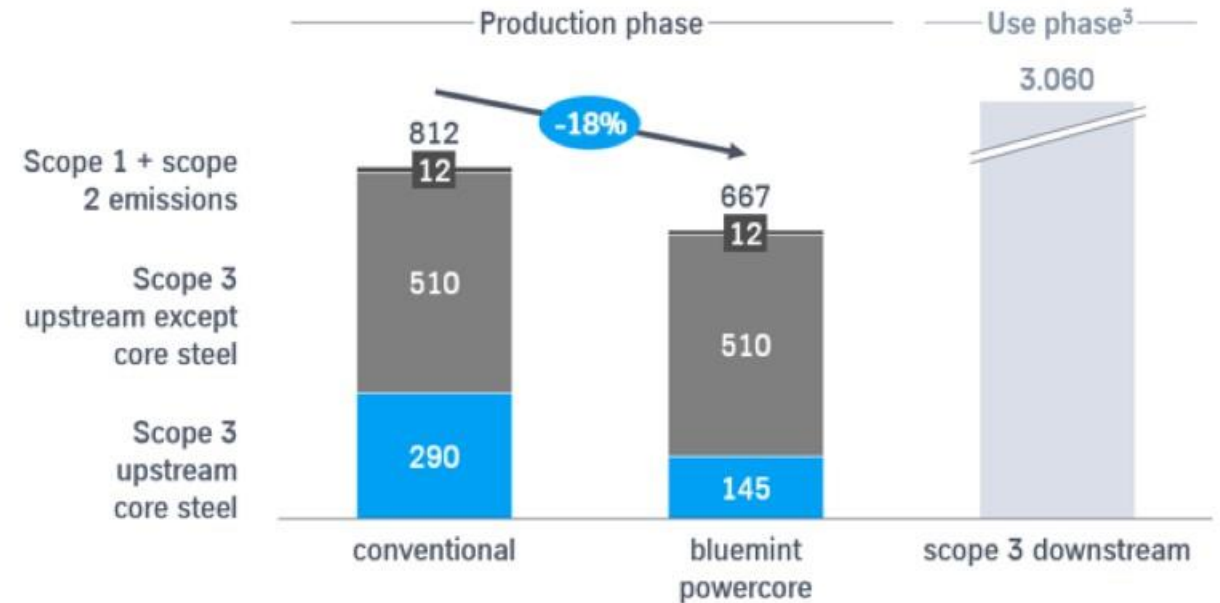


Externally certified product and related emissions (DNV)



Commitment to low no load losses, low noise performance and good surface characteristics

Transformer emissions in production and use phase¹ (in t CO₂-equ.)



1. Rated power 120 MVA, 3phase; Working induction 1.5 T; Core weight 75t

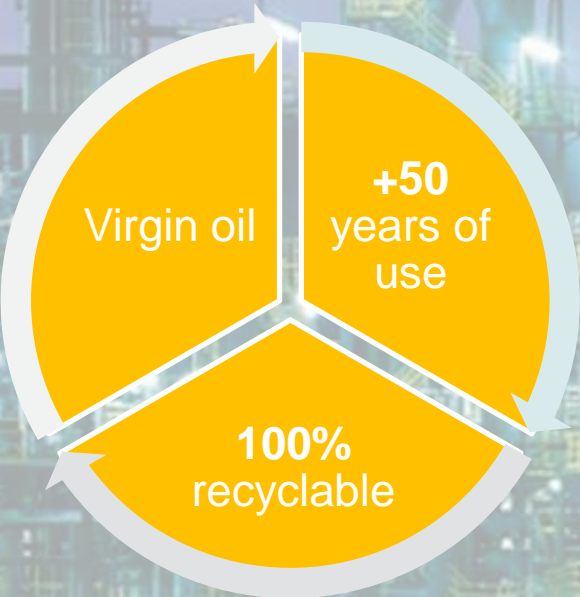
bluemint® powercore® enables you to immediately, “audit-proof” and continuously reduce your scope 3 CO₂ emissions and thus reaching your strategic climate targets.



Sustainable products for the electrical industry



TRADITIONAL

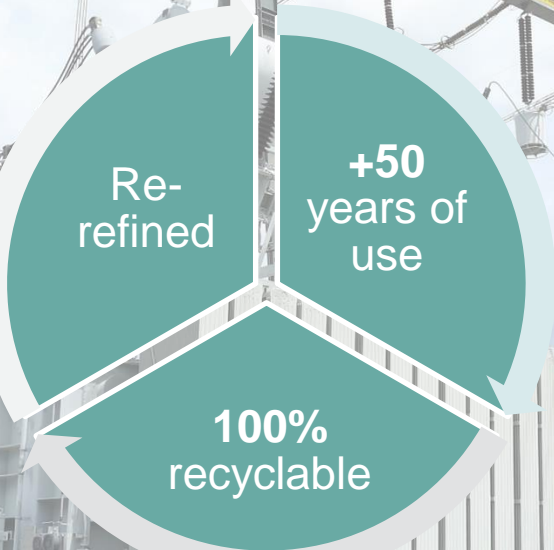


BIO-BASED



Use it...don't burn it.

CIRCULAR



The new generation sustainable transformer fluids



NYTRO[®] BIO 300X
The Renewable Hydrocarbon

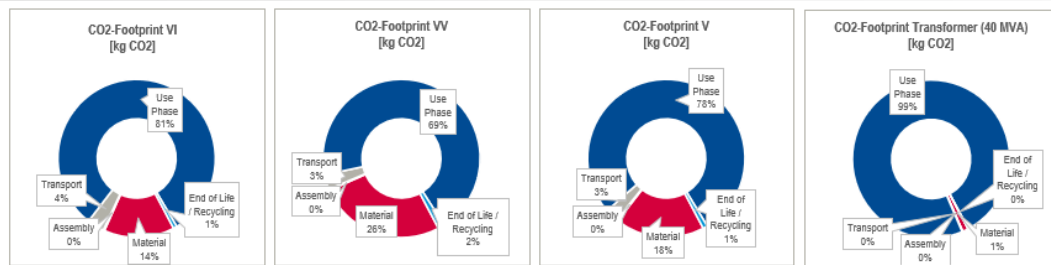


NYTRO[®] RR 900X
The Circular Transformer Fluid

SOLUTIONS FOR A SUSTAINABLE FUTURE

Sustainable products

- | ~75% is in use phase
- | 65% recycling quote possible
- | *ECOTAP Line with 25% CO₂ Savings* , up to 30% material savings



From a sustainable company



Certification alternative liquids

Phase out oil technology

Regeneration of oil

Use of recycling packaging material

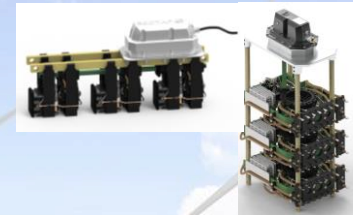


Combined in solutions for your sustainability

ETOS®



ECOTAP®



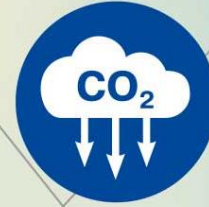
TESSA® FLEETSCAN



DIGITALISATION



TRANSFORMING TOGETHER THE FUTURE OF ENERGY



 **SGB-SMIT**
Group

