

Neopor® Biomass Balance for EPS low carbon insulation – Reduced CO₂ footprint with the high performance you trust

Advantages of the biomass balance method:

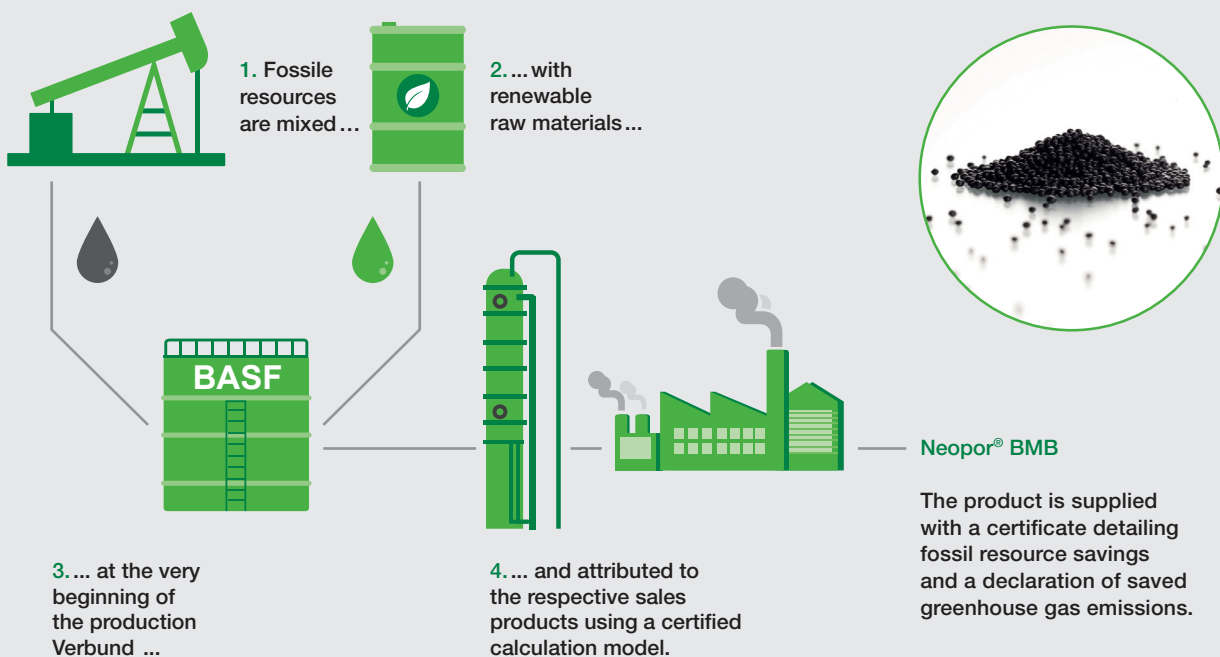
The BASF biomass balance approach (BMB), certified by German technical inspection authority REDcert, means that fossil raw materials required for the manufacture of Neopor® can be replaced with renewable feedstock. Production methods of this kind save valuable resources and reduce CO₂ emissions at the same time:

- reduced CO₂ footprint
- saves fossil resources
- independent third-party certification
- produced according the requirements of White Book of the Ellen McArthur Foundation's Circular Economy 100 network

Consistent product quality and properties:

Neopor® Biomass Balance – Neopor® BMB for short – protects the environment and the climate while maintaining its usual high quality – because the material's properties are identical to those of its fossil equivalent:

- excellent thermal conductivity
- water-repellent
- resistant to aging and decay
- easy to handle and quick to process
- versatile
- economical



Renewable resources in initial production stages

Further processing in the BASF Verbund production system

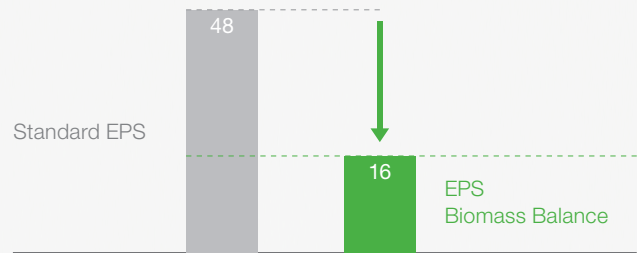
Biomass-balanced Neopor® at usual high quality

CO₂ savings with Neopor® Biomass Balance

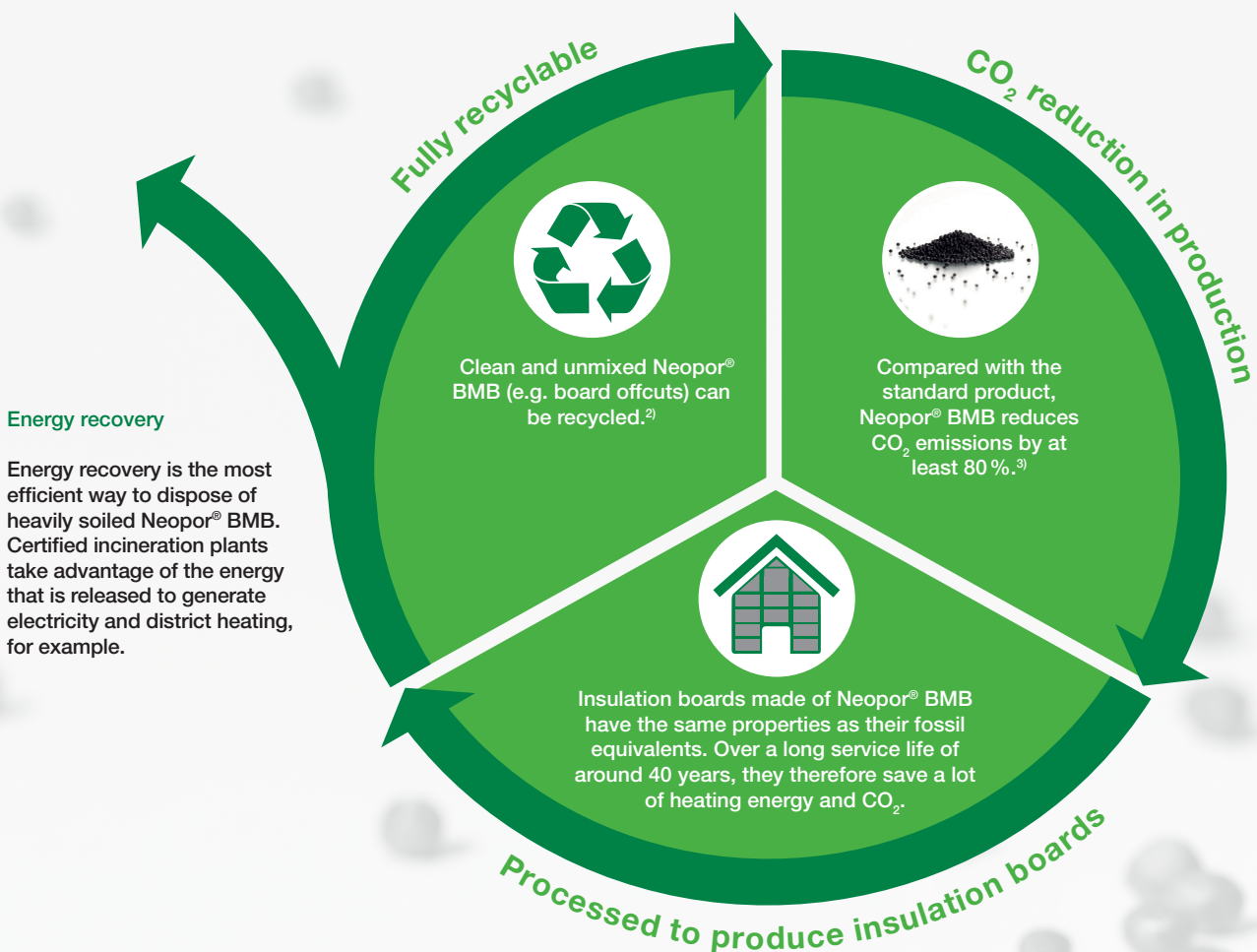
From production to recycling

Neopor® BMB protects the environment and the climate by reducing CO₂ emissions throughout its life cycle. The CO₂ emitted during the production of an EPS low carbon board made of Neopor® BMB is reduced by 60% in comparison to a conventional EPS board. This has been calculated in an externally verified environmental product declaration (EPD).

More information:
www.neopor.de/epd-neopor-plus-bmb-en



Carbon Footprint related to fabrication process of the board (A1-A3)
 Calculation under norm EN 15804 for a ~15kg/m³ product
 Unit: kg CO₂-Eq/m³



1) Calculation of CO₂ storage in woodland areas is based on the current CO₂ levels found in German forests. In Germany, one hectare of forest stores around 13 tonnes of CO₂ per year averaged across all ages and species. (Stiftung Unternehmen Wald, 2018)
 2) In 2016, the recycling rate for polystyrene offcuts from construction was approximately 10% (see "Generation and Management of EPS and XPS Waste in 2016 in Germany in the Packaging and Building Industries" commissioned by BKV GmbH).
 3) Calculation of the CO₂ reduction in the Verbund simulator is based on BASF's own cradle-to-gate calculations.

Find out more about the biomass balance approach:



www.redcert.org/en/



www.basf.com/eps-bmb/en



www.neopor.com