

RePLAY

agricultural oil seal
+preservation agent

BEFORE

AFTER

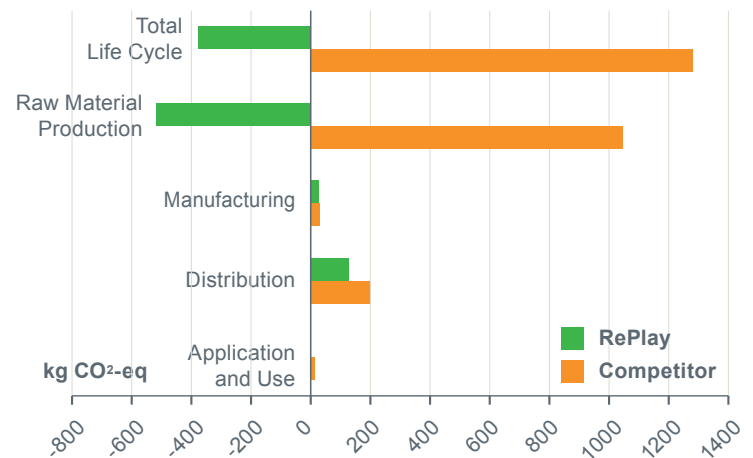
Life Cycle Assessment BEES Analysis of RePlay

A Life Cycle Assessment (LCA) BEES Analysis

was completed which evaluated BioSpan's RePlay Agricultural Oil Seal and Preservation Agent environmental performance from cradle-to-grave. The analysis compared RePlay, a biobased solution, to a competitive petroleum-based product.

The LCA BEES Analysis determined that RePlay has almost 40% more favorable total life cycle environmental performance because it does not contribute CO₂ to the environment and it reduces the amount of greenhouse gases on a comparative basis. Petroleum-based seals add to global warming and CO₂ in the environment, which is why it has a 430% higher global warming potential compared to RePlay.

GLOBAL WARMING POTENTIAL



A USDA BioPreferred Product
88% biobased material

The environmental impact results show that RePlay has a more favorable life cycle profile for:

- global warming potential,
- acidification,
- fossil fuel depletion,
- criteria air pollutants,
- smog formation potential,
- total fuel energy,
- and human toxicity.