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Top Ten Blendstocks For Turbocharged GasolineEngines

Bio-blendstocksWith Potential to Deliver the for Highest Engine Efficiency

Highlights of the Report:

A tiered process efficiently and effectively screened hundreds of blendstocks.

Ten blendstocks were identified with the potential to increase engine efficiency by 10 percent using the efficiency merit function.

Netzwerk

Biotreibstoffe

Vernetzung

Österreich

i-ButanoloCyclopentanone Di-isobutylene EthanoloFuran mixture Fusel alcohol mixture Methanol Prenol i-Propanol n-Propanol

Six of the blendstocks were determined to have the fewest barriers to adoption and use.

The blendstocks all have the potential to reduce life-cycle greenhouse gas emissions by at least 60 percent.

The top 10 blendstocks were all determined to have the potential to be produced at a competitive cost. Co-Optima researchers identified barriers to adoption and key research gaps to be addressed in future research

Download Report: Gaspar, Daniel. 2019. Top Ten Blendstocks For Turbocharged GasolineEngines: Bio-blendstocksWith Potential to Deliver the for Highest Engine Efficiency. PNNL-28713, Pacific Northwest National Laboratory. https://www.osti.gov/servlets/purl/1567705