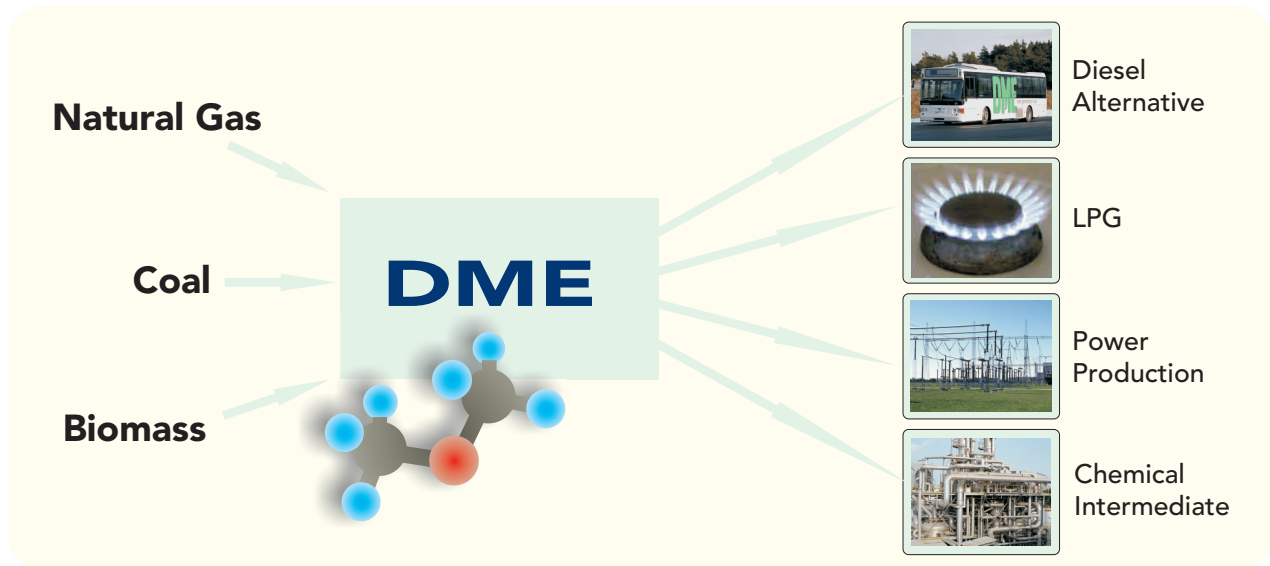


On the way to DME



DME offers cleaner emissions, high well-to-wheel efficiency and low fuel cost.

DME is harmless in any way as demonstrated by decades of use in human care products.

Haldor Topsøe A/S is technology supplier for the largest DME plant in the world.

Capacity: 800,000 MTPY
Owner: Zagros Petrochemicals
Expected start-up: 2006

Topsøe offers

- More than 10 years of experience dedicated to DME
- Commercial experience with very large facilities for reforming and liquid fuels
- Multiple in-house DME technologies

Based on our different proprietary technologies, Topsøe offers unbiased guidance on the selection of the best choice of technology.

With Topsøe you can have DME your way



DME from Natural Gas



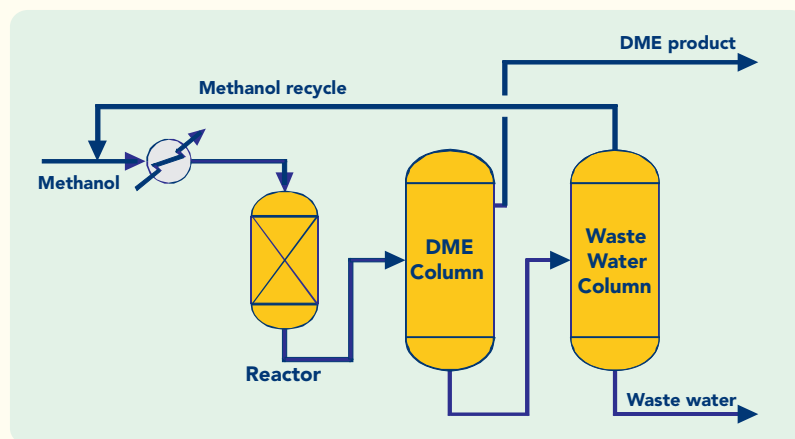
On the road from natural gas to DME, Topsøe employs proven and well tested process steps.

Superior performance in terms of efficiency and syngas quality, excellent cost-scaling factor and simplicity of design and operation have made the low steam/carbon AutoThermal Reforming (ATR) process the technology of choice for large scale conversion of natural gas.

The capability to break the limitation of the methanol equilibrium and boost the conversion of the DME reaction is a unique feature of the proprietary dual-function catalyst from Topsøe.

The integrated natural gas to DME process offered by Topsøe combines the advantages of the low steam/carbon ATR, the dual-function DME catalyst and cutting edge Topsøe technology and catalyst in general - and it is the best choice for large scale natural gas based DME plants.

DME from Methanol



Technology for conversion of methanol to DME is now available for large scale applications.

Higher activity and selectivity over a wider temperature range is offered by the new methanol to DME catalyst developed by Topsøe and this new catalyst permits the reaction to be carried out in a simple and low cost fixed bed reactor.

The Topsøe methanol to DME process has been chosen for the largest DME plant in the world, the 800,000 ton/year facility to come on-stream in Iran in 2006. The process is ideally suited for DME production where a large amount of low cost methanol is readily available.

HALDOR TOPSØE A/S



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