



Fact Sheet for a 214 MTPD DME-To-Go® Plant

DME-To-Go[®] is an add-on option for MeOH-To-Go[®] plants that allows production of Dimethyl Ether (DME) instead of Methanol, or production of DME in combination with Methanol.

DME is a clean burning and economical alternative fuel, that can be used as an LPG substitute, and it can also be blended directly with LPG for fuel applications. DME is also a very clean burning substitute Diesel fuel, with a high Cetane number (55+).

Using DME in Diesel engines only requires minor fuel system modifications to engines that run on standard Diesel fuel. The use of DME in Diesel engines does not require a Diesel particulate filter to meet emissions standards. For example, Volvo Trucks has developed a DME-fueled version of their standard D13 engine platform, which is the top-selling heavy-duty vehicle engine worldwide.

The properties of DME are similar to the properties of LPG:

Boiling point	-12.8° F
Vapor pressure @ 68° F	74 psia
Liquid density, @ 68° F	5.57 lb/gal
Specific gravity, gas	1.59

DME-To-Go[®] incorporates well-proven DME technology and Modular Plant Solutions' small-scale modularization technology, reducing field construction risk and making the plant moveable if needed.

The DME-To-Go[®] plant includes all chemical processing equipment modules required to produce Fuel Grade DME, including heat exchanger modules, dehydration reactor modules, distillation modules, as well as pressurized product storage tank modules.

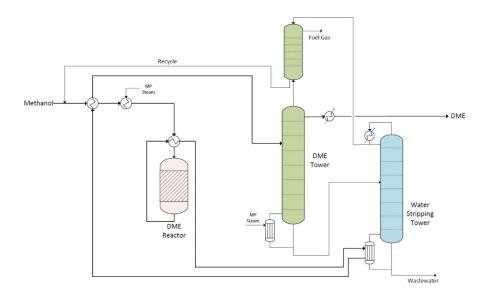
The DME-To-Go[®] plant is designed for remote operations in field locations anywhere in the world, employing our patented modular process plant system based on the ISO-1496/CSC container standard. These plants enable users to convert flared gas or stranded gas into a liquid fuel that can be used locally or can be transported by LPG-type trucks to the market.

The combination of MeOH-To-Go[®] and DME-To-Go[®] is designed to be a complete, stand-alone facility, so it includes all utilities and infrastructure required for production of DME from natural gas.

The MeOH-To-Go[®] plant with the DME-To-Go[®] add-on option is designed for production of 214 MT/day of DME. Alternatively, MeOH-To-Go[®] and DME-To-Go[®] can be designed as a flexible unit to produce both methanol and DME.

Production can be 300 MT/day of Methanol with zero DME production, or 150 MT/day of Methanol and 107 MT/day of DME, or zero production of Methanol and 214 MT/day of DME production.





DME-To-Go® Diagram of Process Components

Production

214 MT/day of Fuel Grade DME (99% wt.) = 84,716 gal/day =2,017 bbl/day

Inputs Needed (for MeOH-To-Go[®] and DME-To-Go[®] combined)

Natural Gas Requirements		Electricity Requirements***	
Pressure	210 psig	Voltage	4,160 V
Quantity	11,027 mm Btu/day	Load	7.1 MW
$Max N_2 *$	20 %	Site Requirements	
Max CO ₂ **	25 %	Area	5 Acres
Raw Water Requirements		Road Access for Product and	
Pressure	60 psig	Construction	
Quantity	45 gpm		

* Higher N₂ reduces capacity.

** Higher CO₂ maintains capacity at lower energy costs.

*** Electricity can be self-generated if needed, but additional gas will be required.

Cost to Purchase

The purchase price for DME-To-Go[®] varies and is dependent upon location for various climate control needs, material pricing at time of purchase, and other variables to be confirmed.

DME-To-Go[®] was developed by Modular Plant Solutions, a global engineering firm specializing in process modularization and project implementation. More information can be found at modularplantsolutions.com/products.

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