

Development of DME FPSO applied KOGAS' Direct Synthesis DME Process

조원준*, 백영순, 송택용, 모용기
한국가스공사 자원기술연구센터
(wicho@kogas.or.kr*)

Korea Gas Corporation(KOGAS) is one of the major energy companies to pursue development and commercialization of dimethyl-ether (DME) production. KOGAS has supplied the new energy as well as a clean energy, natural gas, at domestic area in Korea. Dimethyl Ether (DME) is a new clean fuel and an environmental-benign energy resource. In comparison with other fuels, DME rapidly decomposes into carbon dioxide (CO₂) and water in the atmosphere without forming ozone. It can be manufactured from various energy sources including natural gas, coal, biomass and spent plastics. In addition to its environmentally friendly properties, DME is considered as one of the most promising candidates for the substitute of LPG and diesel fuel.

As a collaborative effort between KOGAS, DSME and RES Group, Pre-FEED package of KOGAS' DME process was recently developed for FPSO application. The FPSO application enables utilization of low cost gas from remote offshore gas fields as feedstock for the DME production.