

Webinar Talk on Innovative Liquefaction Technology for Liquefied Natural Gas (LNG) Plant Process

CPD Hours : 2 CPD Ref No : IEM24/HQ/033/T(w)

Organised by: Oil, Gas and Mining Technical Division (OGMTD)

SYNOPSIS

A gas liquefaction process Plant consists of several units, including the Inlet Facility, Acid Gas Removal, Dehydration, Mercury Removal, Liquefaction and LNG Storage. The Liquefaction unit is the heart of the liquefying the natural gas process and is typically designed based on licensors' proprietary technology such as AP-C3MR, AP-N, and Black & Veatch PRICO using SMR.

However, due to operation complexity and lower Plant availability caused by refrigerant import requirements, an alternative liquefaction technology is needed. An alternative being evaluated is from SENSE LNG, which appears to offer a solution to resolve these limitations by providing a Self-Generated Refrigerant (C1 & N2), easy and stable operation without phase change, competitive efficiency among Gas Expansion Cycles, relatively lower cost and ease of maintenance and additional benefit for weight control and optimized plot size for offshore/nearshore application. The talk will provide the audience with a better appreciation of the liquefaction technology and the benefit it brings to similar application in the future.

SPEAKER

Ir. Muhamad Saifuddin Sidek, CEng, MChemE

Ir. Muhamad Saifuddin is a Professional Engineer registered with the Board of Engineers, Malaysia and is also a Chartered Engineer from the Institution of Chemical Engineers, UK. He currently holds the position of Head (Process) and is a qualified Principal Engineer with PETRONAS Global Technical Solutions Sdn. Bhd (PGTSSB) where he spearheads the delivery of technical solutions, provides and upholds governance and assurance through PETRONAS' technical specification and technology development.

Ir. Muhamad Saifuddin started his career as a Process Engineer in 2008. With 16 years of engineering and operational experience, particularly in gas treatment and liquefaction of LNG Plant and Gas Processing Plant, he is experienced in performing implementation of Plant monitoring tools, Plant optimization study, troubleshooting, shutdown, and carrying out process simulations model. In addition, he has also undertaken many Engineering design assignments ranging from Feasibility studies, De-bottlenecking studies, Plant modification, Basic design coupled with Project Management work.

Ir. Muhamad Saifuddin graduated with a BSc. in Chemical Engineering degree from Universiti Teknologi Malaysia (UTM), Malaysia in 2008.



Saturday | 24 February 2024 | 9AM – 11AM

Registration Fee:

Student Member: Free | IEM Member: RM15 | Non-Member: RM70

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