

## Webinar Talk on "Challenges in Long Onshore Pipeline Crossing: A Case Study from Selat Lumut Crossing

CPD Hours : 2    CPD Ref No : IEM22/HQ/374/T(w)

Oil, Gas and Mining Technical Division

### SYNOPSIS

Constructing & installing big size pipelines across major highways & rivers poses huge challenges in term of safety to pipeline as well as environment. There are many methods that can be used to install pipeline at crossing. For road/highway crossings the most common are Horizontal Directional Drilling (HDD), tunnelling & jacking and the recent one is called direct pipe. Whereas for waterway crossings there are also HDD method and push pull method. Each method comes with its own pros and cons and must be carefully studied prior to execution.

HDD has become more common due to the fact that it provides less disturbance to the site location as well as less impact to the environment. Previously in Malaysia HDD crossing for big size pipeline is limited to short length crossing i.e. less than 0.5km due to limitation of machinery that can exert huge load in pulling the pipeline string. Nowadays, more players has managed to penetrate the local market and bring in better technology for longer length and safer operation. This paper shares a few successful stories of big size pipelines HDD and their challenges.

### SPEAKERS

Asmadi has been involved in the pipeline design and construction for more than 22 years. He started his career with Diversified Engineering & Construction Sdn Bhd as a project Engineer and Involved with pipeline project owned by PETRONAS GAS and Gas Malaysia Berhad. He joined PETRONAS Gas Berhad on 16 September 2008. Appointed as a Staff Engineer Onshore Pipeline design since January 2016 and as Principal since 1st December 2021.



**M Asmadi B Mohamad**  
*Principal (Onshore Pipeline Design),  
GTS/PETRONAS*

Ahmad has more than 15 years experience in pipeline industry. He began his career in Jan 2007 in pipeline O&M and has in-depth knowledge & skill in hydraulic simulation and had supported PGB in providing insight of the Peninsular Gas Utilisation (PGU) network performance. He then ventured into pipeline engineering design & installation/construction and had completed several pipeline projects. He is currently holding a position as a Technical Professional in pipeline engineering in PETRONAS Technical Services Sdn. Bhd.



**Ahmad Fareodzollah B Abd Malik**  
*Staff (Onshore Pipeline Design),  
GTS/PETRONAS*

**Saturday | 12 November 2022 | 9AM – 11AM**

**Registration Fee:**

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

**Register online | [www.myiem.org.my](http://www.myiem.org.my)**