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7-9 JULY 2020

UTMSPACE, KUALA LUMPUR



# PROJECT FINANCIAL MODELLING

HOW TO CONDUCT FEASIBILITY STUDIES
USING THE ENGINEERING FINANCE METHODOLOGY TO
ENHANCE THE RETURN ON INVESTMENT AND ENSURE ITS
LONG-TERM SUSTAINABILITY

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### **FACILITATOR**



Prof. Dr. Ir. Maulud obtained his Engineering Doctorate (EngD) in Engineering Finance at the Universiti Teknologi Malaysia/University of Warwick (Britain, 2005), MBA Finance from the University of Queensland Business School (Australia, 1983), B.Sc. (Hons) Mining Engineering from the University of Wales (Britain, 1977), and Diploma in Mechanical Engineering from Universiti Teknologi Malaysia (1974). He is also the holder of the Dredge Master Certificate of Competency (1979), memberships of the Malaysian Board of Professional

Engineers (P.Eng. 1982), Institution of Engineers and Malaysia (MIEM, 1982).

He has more than four decades of working experience in the industry covers private companies, Public Listed Companies (PLC), GovernmentLinked Companies (GLC) from Malaysia Mining Corporation Bhd (MMC) and Permodalan Nasional Berhad (PNB) and government agencies from the Ministry of Finance (MoF Inc) to the Menteri Besar (Selangor) Incorporation (MBI). He was also involved with Independent Power Plants namely, mine-mouth coal-fired power plants and combine cycle gas power plants. In addition, he was involved in Green Energy projects such as Landfill Gas Power Plants and Biomass Power Plants in Malaysia, India and Indonesia. He was also involved in coal mining in Indonesia and Australia and listing of two companies on the Australian ASX. His role was Business Development using the Engineering Finance methodology to re-engineer the financial and engineering structures.

In the academia, he was a Professor in Engineering Finance in one of the country's premier Technical and Research Universities.

# **DEFINITION**

Engineering Finance is defined as "Engineering" using financial methodologies in the (re)structuring of projects to enhance the return on investment and ensure its long-term sustainability.

## WHAT IS IT?

Engineering Finance is a methodology. It has two tools: MAL Cost Efficiency Model; and Techno-Financial Model. The former deals with the "Engineering" structure, whereas the latter deals with the "Financial" structure. Together, they create "Cost Efficient" project designs.

### **OBJECTIVE**

To create "Globalised Professional Technopreneurs" that are more "Cost Conscious", and thus will be able to face the challenges of the Globalised and Borderless world and the Industrial Revolution 4.0.

### **LEARNING GAIN:**

- Enable participants to learn new financial terminologies, for eg. Engineering Finance, Techno-Financial Model, Critical Components, Cost Efficiency Model, Oppo Logic, Economy efficiency, NPV, NPV yield etc.
- Understand common definition & terminologies used in Engineering Finance
- Understand the concept of engineering finance as a 'bridge' to develop a proper mindset for creating financial models thus enhancing project efficiencies
- Understand key financial ratios used to assess project viability
- Understand the importance of corporate organization in structuring the financial model
- Learn to make more realistic assumptions and include all critical components that will impinge on the project financial success/viability