



THE MALAYSIAN WATER ASSOCIATION
WATER AND WASTEWATER INDUSTRY LEAD BODY

TECHNICAL TALK ON PROJECT FINANCIAL MODELLING

Engineering Finance Methodology and the Fund Drawdown Schedule or 'S' Curve

DATE : 30 JANUARY 2024 (TUESDAY)

TIME : 9:30 AM – 12:00 PM

VENUE : THE MALAYSIAN WATER ASSOCIATION

No 24, Ground Floor, Jalan Sri Hartamas 8
Taman Sri Hartamas, 50480 Kuala Lumpur

Registration
Fees

**RM60/head
member**

**RM75/head
non-member**

Register NOW!!!

SCAN ME



<https://forms.gle/TnP2k3Y1kVT97ikQ6>



CPD HOUR APPLIED

PROF. (B) DR. IR. MAULUD ABDUL LATIF

- EngD. Engineering Finance (Britain)
- MBA Finance (Australia)
- B.Sc. (Hons) Mining Eng(Britain)
- Dip. Mechanical Eng(UTM)
- P.Eng., MIME, MIEM, DMCC.

**Business Development & Engineering
Finance Consultants**



TOPIC

PART 1 - ENGINEERING FINANCE© METHODOLOGY

- (i) PECO Cost-Efficiency Model
- (ii) Techno-Financial Model.

PART 2 - FINANCIAL TERMINOLOGIES AND FUND DRAWDOWN SCHEDULE OR 'S' CURVE

- Financial Terminologies
- Fund Drawdown Schedule or 'S' curve

PART 3 - (IF TIME PERMITS)

- The Migratory Path for Future Engineers to be a CEO/Global Professional Technopreneurs
- Engineering Finance methodology Implementation Flow Chart
- Roadmap from Research to (product) Development and Commercialisation

TARGET AUDIENCE

- Decision Makers
- Project Managers/Engineers
- Resident Engineers Quantity Surveyors
- Consultants & Contractors
- Financial Controllers & Accountants
- Water Utility Managers
- Manufacturers & Suppliers

Contact Us:
MWA Secretariat

Tel: +603 6201 2250 / 9521
Fax: +603 6201 5801

johari@mwa.org.my (Mr. Johari Khamis) Registration
caroline@mwa.org.my (Ms. Caroline) Payment

SPEAKER BIODATA

PROF. (B) DR. MAULUD ABDUL LATIF

Prof. (B) DR. Maulud Abdul Latif obtained his Engineering Doctorate (EngD,2005) in Engineering Finance from UTM/University of Warwick (UK). He also holds an MBA Finance from the University of Queensland Business School (Aust,1983), a B. Sc. (Hons) in Mining Engineering from the University of Wales (UK,1977) and a Diploma in Mechanical Eng. from the Universiti Teknologi Malaysia (1974).

He started his career in Malaysia Mining Corporation (1977) and have extensive experiences in project feasibility studies (technical and finance) and mine management. Between 1984 and 1992, he worked with various reputable organizations including Permodalan Nasional Berhad and the Ministry of Finance (as Corporate Adviser to the Minister of Finance Incorporated). He has acquired vast corporate experience not only in project financing but also in corporate restructuring and turnaround.

He was also involved in several privatization (PFI) projects. Since 1992, he was actively involved in project feasibility studies in various sectors such as power generations, renewable energy, coal mining and property development projects in Indonesia, India, Australia and Malaysia. In total, he has 45 years of experience, 41 years in the industry regionally, and 4 years in the academia (UTM, 2009-2013). Prof. (B) DR Maulud was also the Business Development and Engineering Finance Advisor to the Selangor Menteri Besar Incorporated (2010-11) on the Klang River Rehabilitation project, the Selangor Water Supply Restructuring Project and proposed acquisition of a Toll H'way.

Prof. (B) DR. Maulud now undertakes part-time lecturing in universities, Business Development Advisories in companies and conduct workshops on "PROJECT FINANCIAL MODELING - How To Conduct Feasibility Studies" and its variant modules, using the Engineering Finance methodology to Optimise the ROI and ensure its long-term Sustainability.

TOPICS AND SYNOPSIS

Email: drtunsri@gmail.com

WA: +6 019 2170 111

PART 1: ENGINEERING FINANCE© METHODOLOGY

• PRINCIPLES OF ENGINEERING FINANCE

With the advent of mega-projects such as the Belt Road Initiatives (BRI) and the creation of new Trade Blocs and its Economic Corridors, the role of Professional Engineers have become more challenging. ***"Businesses of the future will require new strategies, innovation and creativity to ensure their competitiveness. 'Engineering Finance' gives a new and innovative way of developing a viable business model by integrating engineering with finance and other parameters to meet a viable business or project objectives in a very simplified approach.... Essentially, it requires a new breed of CEO/Global Professional Technopreneurs'.***

This short-talk will showcase the two Engineering Finance methodology has two tools:

- (i) PECO Cost-Efficiency Model**
- (ii) Techno-Financial Model.**

PART 3: (IF TIME PERMITS)

• THE MIGRATORY PATH FOR FUTURE ENGINEERS TO BE A CEO/GLOBAL PROFESSIONAL TECHNOPRENEURS

- Businesses of the future will be very challenging to engineers and the engineering fraternity. It requires a paradigm shift in the mind-set of engineers. It demands a new breed of 'Business Management Engineers'.

• ENGINEERING FINANCE METHODOLOGY IMPLEMENTATION FLOW CHART

- This is a hybrid 'Engineering' and 'Finance' Flow Chart amalgamated at the respective juncture.

• ROADMAP FROM RESEARCH TO (PRODUCT) DEVELOPMENT AND COMMERCIALISATION

- This is the Road Map from R&D to Commercialisation that most researchers failed to see, resulting in a worthless effort.

PART 2: FINANCIAL TERMINOLOGIES AND FUND DRAWDOWN SCHEDULE OR 'S' CURVE

• FINANCIAL TERMINOLOGIES

relevant to Project Financial Modelling. The Engineering Finance methodology dictates that ALL Decision-makings MUST be deduced from the financial model. This imply that decisions made by engineers on the Financial Viabilities of projects could be flawed, thus a dire need to understand the relevant financial terminologies.

• THE FUND DRAWDOWN SCHEDULE OR 'S' CURVE

It is essential that this computation is done by the Project Developers (not the contractors as the current flawed practice). This will help reduce the financial cost from the onset of the project implementation.