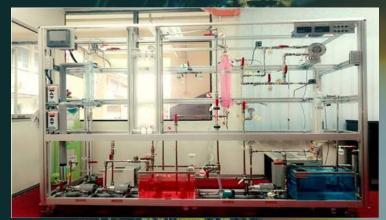
HARNESSING ENERGY THROUGH THE OCEAN



Micro OTEC Plant @ UTM OTEC



Ocean Energy



RESEARCH INTEREST

Bill development

Royalty

Concession

Protection and Control

Taxation

OTEC Spin Off Industries

Financial Modelling

Financial Analysis

Financial Services

Financial (Number crunching)

Internal Audit

Techno-economic

Treasury

analysis

Marketing

WHAT IS OTEC

Ocean Thermal Energy Conversion (OTEC) is a process that can produce electricity by using the temperature difference between deep cold ocean water and warm tropical surface waters. OTEC plants pump large quantities of deep cold seawater and surface seawater to run a power cycle and produce electricity. OTEC is firm power (24/7), a clean energy source, environmentally sustainable and capable of providing massive levels of energy.

(Source: Makai Ocean Engineering)

"... or like darkness on a bottomless ocean spread with clashing billows and overcast with clouds: darkness upon darkness. If he streches out his hand he can scarcely see it. Indeed the man from whom God witholds His light shall find no light at all. The meaning of Al-Qur'an 24:40.

OTEC Hardware Platform OTEC Cycle Platform Mooring system Heat Exchanger Pump turbine Hybrid Solar Pond Power cable Cold Water Pipe Civil and Structures **Pipelines** Working fluid SOTEC Offshore Power Supply Process technology **Human Resources Development Human Resources Management**

Foresighthing

Job Evaluation

Talent Sourcing

Remuneration

Business ethic

Crisis Management

Safety performance

Corporate statement

Strategy and analysis

OSHE

Organisational Design

People Development

People Planning and Sourcing

Performance Management

Employee/Industrial Relations

Internal audit

Corporate Social Investment

Acentives Corporate Governance Financial Accounting Tonts IP/Ownership Legal Commercialisation OTEC Power Plant UTM OTEC RESEARCH PLANNING 2016 Management OTEC Park and Governance Others Knowledge management Salinity Gradient Underwater Current (OpenHydro) Geology and Geophysics Smart Grid Information technology OTEC Hydrogen Generation Lithium extraction Distribution

Law of the Sea

Administrative Law

Data Protection/ Standard

Energy Law

Trade Finance Market research **Business Model** Management **Business Plan** Accounting Corporate Finance Product conceptualism Product development Product construction Product architecting Strategic product management

EIA Related

- Biology (Ciguatera, Marine Flora and Fauna)
- Chemical (Chemical Properties of
- Climate change (carbon footprint)
- Industrial Hygiene
- Water management
- Biodiversity and ecosystem
- management Discharge of water and waste

Temperate Agriculture/Aquaculture

Deep Sea Water

- Analysis
- District Cooling
- Deep Sea mineral water

Socioeconomic Transformation



GET IN TOUCH

OUR MAIN OFFICE IS LOCATED AT:

UTM OCEAN THERMAL ENERGY CENTRE (UTM OTEC)
UTM KUALA LUMPUR
BLOCK Q, JALAN SULTAN YAHYA PETRA,
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Ocean Thermal Energy Conversion



UTM OTEC established since 3 January
2013 at Universiti Teknologi Malaysia
Kuala Lumpur Campus aimed to build an
OTEC Pioneer Plant off Sabah.
Currently, UTM OTEC focused on

Commercialisation, Development & Research on OTEC and its Spin Off Industries.