



MTJA

RESEARCH CESS FUND (RCF)

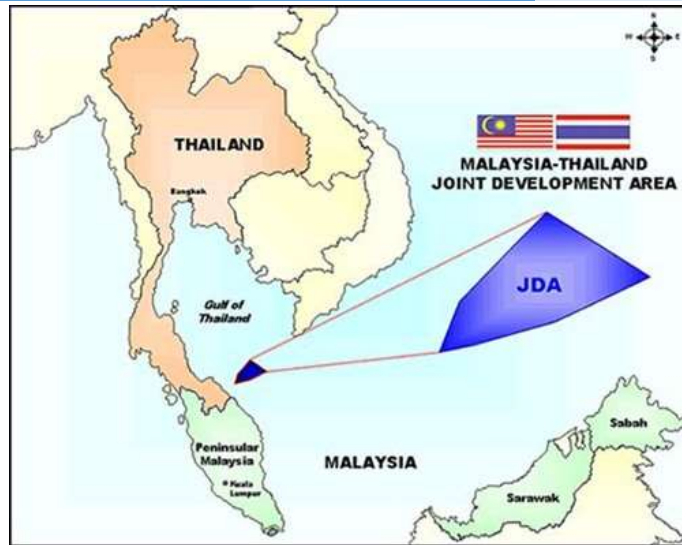
BRIEFING SESSION

11th December 2018

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Malaysia–Thailand Joint Authority (MTJA) Overview



Malaysia-Thailand Joint Development Area (MTJDA)

1. The overlapping continental shelf approximately 7,250 square kilometers, located in the Gulf of Thailand near South China Sea
2. Area agreed by two Governments in 1979 to be jointly explored and exploited and equal benefits of the two countries
3. Supervised and administered by MTJA

Malaysia-Thailand Joint Authority (MTJA)

Memorandum of Understanding was signed between the Prime Minister of Malaysia and the Prime Minister of Thailand on the establishment of MTJA. Any costs incurred in the petroleum exploration and production will be equally responded by two Governments

MTJA Chronology



MOU Signed



MTJA Established



Commercial gas
Discovered



Signing
Block B-17-01

B-17&C-19
First gas

B-17-01
First gas

1979

1990

1992

1994

1995

1999

2004

2005

2010

2016

Signing of Agreement
on MTJA Constitution
and enactment of
MTJA Act

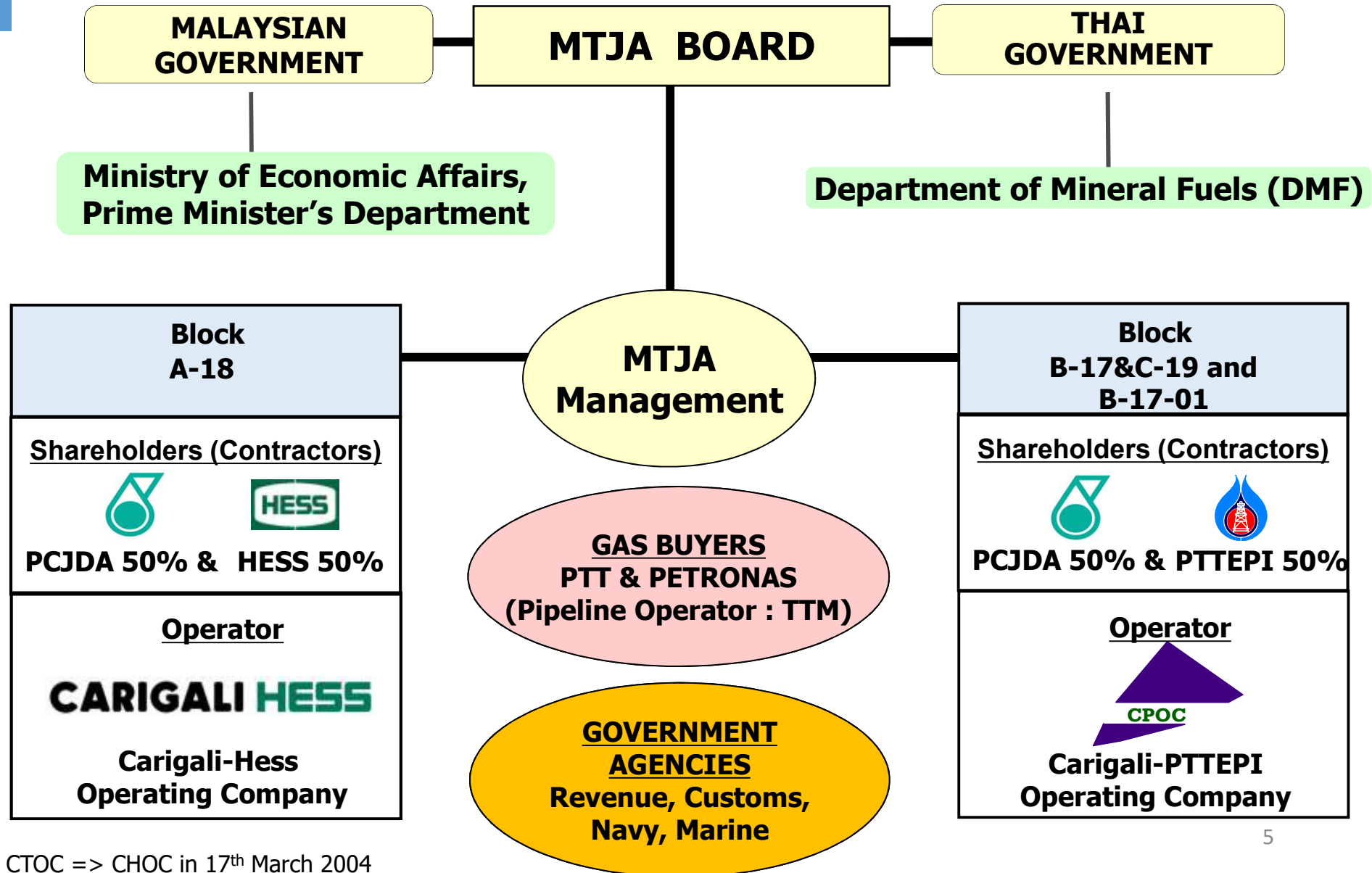
Signing of two PSC
Block A-18 and
Blocks B-17 & C-19

Gas Sale
Agreement
(GSA)
A-18

Gas Sale
Agreement (GSA)
B-17&C-19
A-18 First gas



MTJA Organization Overview



CTOC => CHOC in 17th March 2004

What is RCF?

1. In accordance to Production Sharing Contract Article 9.1 and 9.2, Research Cess Fund is contributed by “ **0.5 % of Cost Oil/Gas and Contractor's portion of Profit Oil/Gas payable to MTJA on monthly basis.** ”
2. Research Cess Fund monthly payment by the Contractors is being made once production commenced:
 - Year 2005 from Block A-18 by Carigali Hess Operating Company
 - Year 2010 from Blocks B-17 & C-19 by Carigali PTTEPI Operating Company

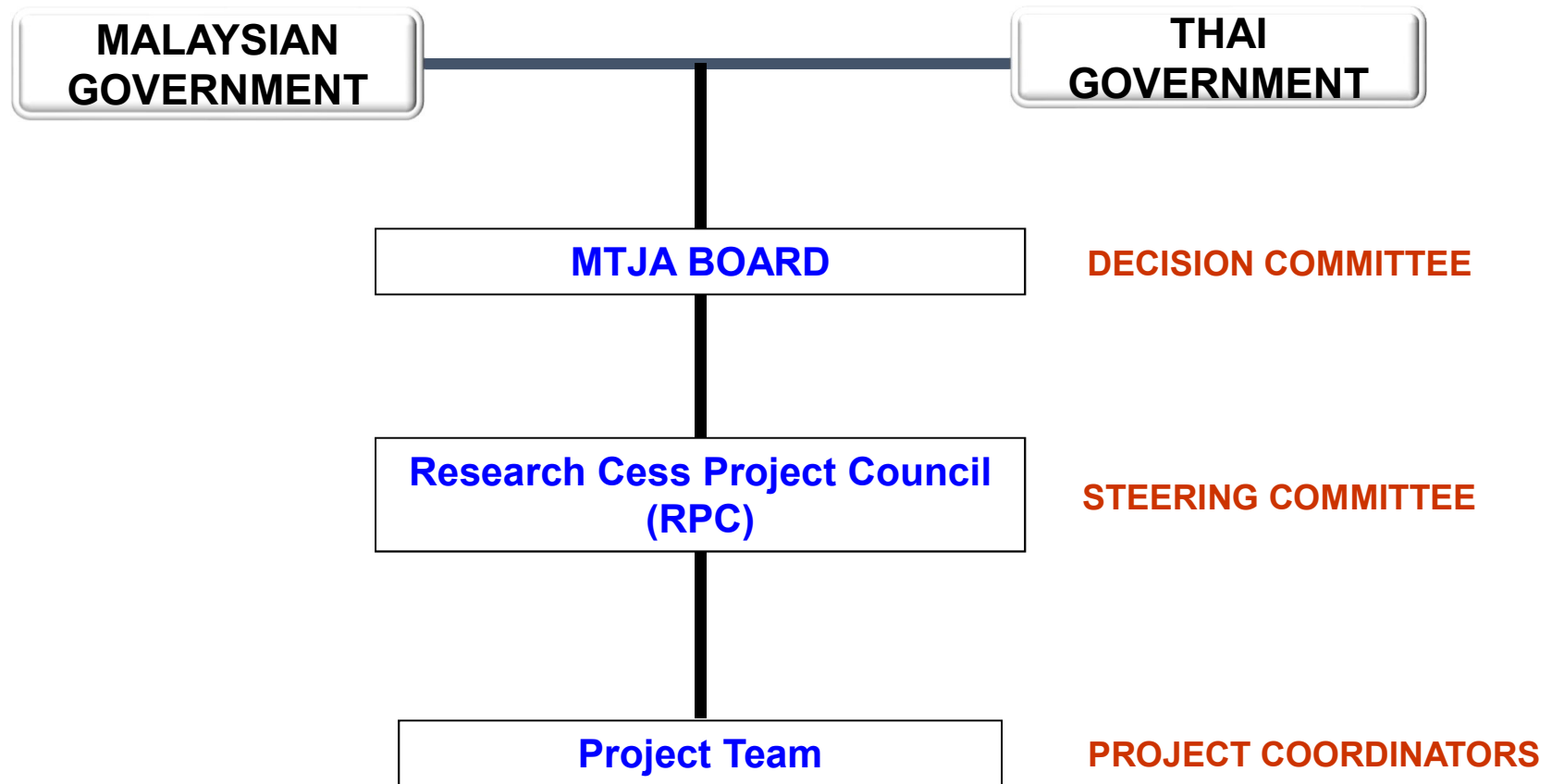
RCF Objectives

1. Objective of Research Cess Fund is **for the purpose of supporting any research and development in the fields of science and technology relating to exploration or exploitation of petroleum or natural resources for the Joint Development Area (JDA).**

(Regulation 7, Part IV Malaysia Thailand Joint Authority (Payments of Royalty and Other Proceeds from Petroleum Production to the Governments) Regulations 2004)

2. Research project should be beneficial to the MTJA, PSC Operators, and both countries, Malaysia and Thailand.

RCF – Approval & Project Execution



Project team is a support group consist of MTJA, CHOC, CPOC and any member assigned by MTJA or Governments.

RPC Member

MTJA Research Cess Project Council (RPC) was formalized on 20th February 2013 which consist of 10 members. Below is the current MTJA Research Cess Project Council (RPC) members

Chairman
Dr. Witsarut Thungsuntonkhun
Chief Executive Officer
MTJA

Prof Dato' Dr. Mazlin Mokhtar
Principle Fellow,
Institute for Environment & Development,
Universiti Kebangsaan Malaysia



En. Abdul Muluk Abd Wahab
Deputy Chief Executive Officer
MTJA

En. Joaquin Martinez
General Manager
Carigali Hess

Prof. Dr. Wan Hasiah Abdullah
Professor,
Department of Geology, Faculty of Science
University Malaya



Mr. Kumphon Kumnerdsiri
E&P Manager
MTJA

En. Hazanie Jamian
General Manager
Carigali PTTEPI

Mr. Warakorn Brahmopala
Director,
International Petroleum Bureau,
Department of Mineral & Fuel (DMF)



En. Abdul Latib bin Awang
E&P Assistant Manager
MTJA

Mrs. Prapai Numthavaj
Senior Advisor
Petroleum Institute of Thailand



Governments representatives

MTJA representatives

Operators representatives

-Confidential-

RPC – Roles & Responsibilities

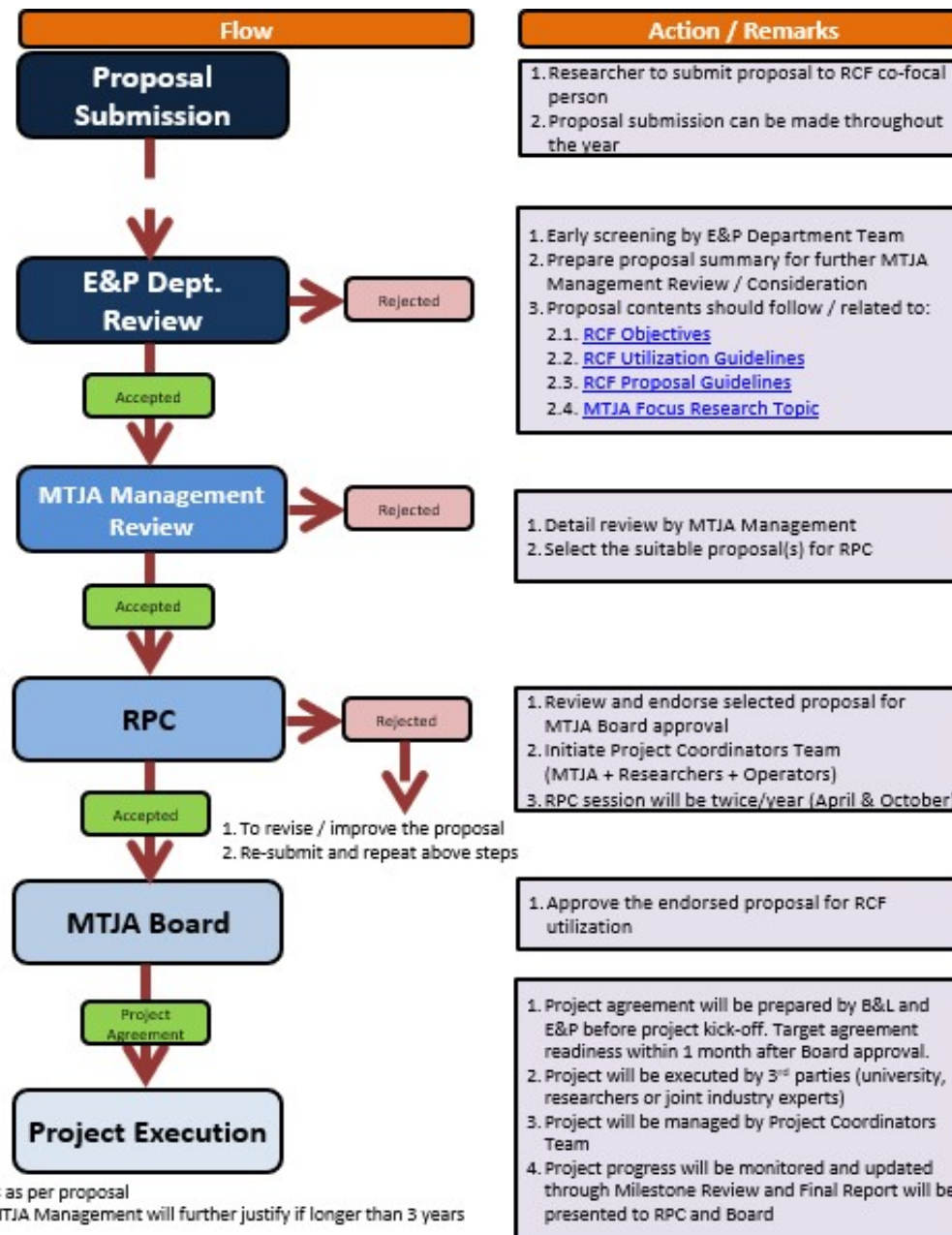
Research Cess Project Council:

1. To study and review research project proposals through independent evaluations.
2. To recommend the most promising project proposals to MTJA Board for final funding decision.
3. To ensure the research project proposal is in line with MTJA research objective.
4. To appoint several research project focal points/coordinators from MTJA and Contractors.

Research Project Coordinators:

1. To coordinate the research projects and conduct the preparatory work for the council member to consider.

RCF Application Workflow



*Project duration is as per proposal

*3 years max but MTJA Management will further justify if longer than 3 years

General Guidelines of Utilizing RCF

1. Fund to be utilized for research type of work, fundamental and advance.
2. Research should address problems/issues pertaining JDA operations.
3. Research to be carried out by Third Parties, i.e. University or Joint Industry effort with priority to local content.
4. Research to be managed by MTJA.
5. Research projects selection and expenditures for research projects to be approved by MTJA Board Members.
6. Research that has potential for Intellectual Property (IP) and commercialization in later stage.
7. Reasonable research time frame and budget.
8. Eligibility and good track records of researchers.

Research Proposal Content Guidelines

1. Project title
2. Proposal objective
3. Project Introduction and background
4. Research Project objective and strategy
5. Project details:
 - Work-scope and Methodology
 - Duration and Schedule
 - Cost estimate and cost comparison
 - Organization structure
 - Performance track record – past experience, financial and Health-Safety-Environment (HSE) record.
 - Reporting
6. Evaluation & Justification
 - Technical evaluation
 - Commercial evaluation
 - Intellectual Property (IP) and commercialization
 - Beneficial to JDA & both Malaysia and Thailand
7. Conclusion and Recommendation

List of RCF Projects (2014 – 2018)

No	Research Project	Universities / Researchers
1.	MTJA Strategic Plan of 2013/2014 and MTJA Strategy Roadmap & KPI Study	Schlumberger Business Consulting
2.	Environmental Impact Assessment (EIA) Studies for Malaysia-Thailand Joint Development Area.	Integrated Envirotech Sdn. Bhd. (IESB)
3.	JDA Hydrocarbon Prospectivity and Basin Study	Schlumberger PetroTechnical Services (SPS)
4.	The Mechanism of Sand Production and Its Control by Using Improved Sand Screen in Oil and Gas Abstraction	Universiti Teknologi PETRONAS (UTP)
5.	Palm Oil Derivatives and Oleo-chemical for Drilling Application	Universiti Teknologi Malaysia (UTM)
6.	Separation of CO ₂ From High-pressure Natural Gas Stream Using New Fibrous Adsorbent in a Pressure-swing Adsorption Process	Universiti Teknologi Malaysia (UTM)
7.	Development of Hybrid Process for Oil Recovery and Sand Cleaning in Oil and Gas Production	Chulalongkorn University
8.	Enrichment of Methane Concentration From Methane-carbon Dioxide (Co ₂) Mixture Obtained From Oil & Gas Well	Universiti Kebangsaan Malaysia (UKM)
9.	Energy Recovery in Petroleum Processing via Integrated High Performance Technologies	UTM-Imperial College London
10.	Carbon Dioxide (CO ₂) Conversion to Higher Value Products	Chulalongkorn University
11.	Investigating the Purification of Natural Gas by Selective Adsorption and Diffusion Processes Using Nano-Materials	Ramkhamhaeng University
12.	Characterization, Extraction and Application of Graphene from Unwanted Industrial Waste in Water Based Mud (WBM) and Ester Based Mud (EBM) Drilling Fluids	Universiti Malaya (UM)
13.	Compositional Kinetic and Genetic Hydrocarbon Analyses in the North Malay Basin of JDA	Universiti Malaya (UM)
14.	Solvent Development and Column Design for Carbon Dioxide Capture from Natural Gas and LNG Processing	Chulalongkorn University
15.	Trace Quantity Removal of Hazardous Arsenic and Mercury from Produced Water Generating in Malay and Pattani Basin via Hollow Fiber Supported Liquid Membrane (HFSLM)	Chulalongkorn University

Research Potential Area / Focus Topic

No.	Category	Research Area / Topic
1	Facilities	<ol style="list-style-type: none"> 1. Decommissioning 2. Pipeline/Platform integrity 3. Asset Integrity Monitoring system / Pipeline inspection 4. Plant reliability improvement 5. Optimize the facilities performance and minimize operational problem (ex: Acid gas removal, Separator, Mercury Removal Unit, Dehydration, etc)
2	HSE	<ol style="list-style-type: none"> 1. Environmental impact assessment of the JDA 2. Environmental monitoring 3. Process Safety Management
3	Sand Production	<ol style="list-style-type: none"> 1. Sand production and implication 2. Reduce the sand production 3. Sand control equipment 4. Sand removal
4	Power	<ol style="list-style-type: none"> 1. Alternative/Green Energy for platform 2. Wave energy
5	Sub-surface / RE	<ol style="list-style-type: none"> 1. Depositional environment 2. Reservoir management 3. Water Production Handling 4. Down hole equipment 5. Alternative Drilling mud 6. Reservoir modeling 7. Sand prediction
6	CO ₂	<ol style="list-style-type: none"> 1. Separation of CO₂ from Natural gas 2. New technology of capture or storage 3. Monetize the CO₂

RESEARCH CESS FUND
Malaysia-Thailand Joint Authority (MTJA)

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For more info: <https://www.mtja.org/research.php>

Thank You & ขอขอบคุณครับ