



# CCOP

## EPPM Program

### P1W3

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Coordinating Committee for Geoscience  
Programmes in East and Southeast Asia (CCOP)



**Coordinating Committee for Geoscience  
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- ◆ Accomplishments within Project 1 (P1), so far
- ◆ Way forward





# EPPM Program

## ◆ CCOP-Norway Cooperation Program for Enhancing Public Petroleum Management of the CCOP Member Countries (EPPM)

- The goal is to create the highest possible value for society from petroleum resources in order to improve the quality of life of the people in the CCOP Member Countries.



# EPPM Program

- ◆ Agreement between Norway & CCOP signed on 10 July 2008
- ◆ 4-year, **July 2008- June 2012**
- ◆ Budget: **NOK15 Million**
- ◆ Implementing agency: **CCOP TS**
- ◆ Cooperating agency: **NPD & PETRAD**
- ◆ Beneficiaries: **CCOP Member Countries**



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# EPPM Program

## ◆ 3 Projects

- **(P1) *Petroleum Resource Management with focus on Natural Gas***
- **(P2) *Natural Gas Field Development and Environmental Issues***
- **(P3) *Metadata on Natural Gas Resources in the CCOP Region***



# EPPM Program

## ◆ Outputs

- Trained and more knowledgeable professional staff in the MC
- Working Group and Expert Group formed
- Project Report
- Improved Natural gas database that is easily accessible
- Project website for information, reporting, knowledge sharing and preservation
- Networking and cooperation among MC is further strengthened



# **EPPM Strategic Focus**

- ◆ **Natural Gas development & Environmental issues**
- ◆ **Practice of Knowledge Management**





# P1- Petroleum Resource Management with focus on Natural Gas

- ◆ **Objectives:** To enhance the capability and capacity of MC in assessment of the undiscovered petroleum resources with focus on natural gas
- ◆ **Implementation thru cross-border case study**
  - Supported by series of workshops, field works & trainings



# P1

## ◆ Cross-border Case study area: **North Sumatra – Mergui basin**

- Shared by Thailand,  
Malaysia &  
Indonesia



## **P2 - Natural Gas Field Development and Environmental Issues**

- ◆ **Objectives:** To enhance the capacity and capability of MC in natural gas development and clean development mechanism & environmental issues
- ◆ **Implementation:** series of 6 workshops
  - Natural gas development technologies
  - Case study of SINOPEC's Puguang gas field (Sichuan basin)- high H<sub>2</sub>S & CO<sub>2</sub>



# **P2 - Natural Gas Field Development and Environmental Issues**

- **CO<sub>2</sub>- alternative use, IOR & EOR technologies**
- **Gas hydrates**
- **Carbon Capture & Storage, CCS (into geological reservoir),**
  - **Legal framework, HSE in CCS**
  - **Gas flaring**
  - **Clean Development Mechanism**
- **CCS potential reservoir**
  - **geological risks, selection criteria, technologies for assessment & monitoring**



# P3 - Metadata on Natural Gas Resources in the CCOP Region

- ◆ **Objectives:** To set up an easily accessible metadata on natural gas resources of the CCOP Countries for knowledge sharing & preservation on natural gas resource exploration, exploitation and environmental impact mitigation





# **P3 - Metadata on Natural Gas Resources in the CCOP Region**

## **◆ Implementation**

### **- Series of workshops on**

- ☞ Requirements Analysis, metadata contents & definitions referring to international standard(s)**
- ☞ Database structure design & software development**
- ☞ Developing capacities for software usage**
- ☞ Population & validation of data base**

## **◆ Collaborating with existing metadata work group in CCOP**



# **P1W1: Workshop on the North Sumatra – Mergui Basin Cross Border Case Study, KRABI, THAILAND 12-14 MAY 2009**

- ◆ **Common understanding of the case study basin**
- ◆ **Way forward – building up of database for the case study**
  - Basin analysis workflow process
  - Agreement on the deliverables
  - Regular consultation meeting of the case study countries
- ◆ **20 participants** *(from 9 MC)*



# P1M1- LEMIGAS, Jakarta



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# P1M1 Highlights

- ◆ Gravity data from the 3 countries will be used & integrated – to show the case study basin configuration
- ◆ In addition to the agreements in P1W1-Krabi, the group agreed on the scale
  - Maps – 1: 500,000
  - Seismic sections – 5cm/sec, vertical up to 6 sec.
- ◆ Additional data: seismic & well data
- ◆ Interpretation of the integrated data- will be a focus of discussions & workshop in sequence stratigraphy





# P1W2





# **P1W3: Basin Modeling, Map Integration & Fractured Basement**

- ◆ **Objectives:** To conduct the basin modeling of North Sumatra – Mergui basin in order to have a **better understanding of the big geologic picture of the basin** to enhance geological interpretations and predictions - translating into a higher drilling success rates.
- ◆ A technical fieldwork is added in the agenda with focus in fractures & fractured basement





# THANK YOU!

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