



# ASCOPE – CCOP – PETRAD Meeting

Bali, 1 October 2010

Updated with the the 23rd ASCOPE E & P BDC  
Meeting

Hanoi, 3-4 Nov 2010



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

## ASCOPE – CCOP – PETRAD Meeting

to Develop a Project Concept for a (4- year) Regional Program on CO<sub>2</sub>-CCS Challenges, 1 October 2010

- ◆ **Objectives:** To develop a capacity-building program that will focus on exploration and production of CO<sub>2</sub>- rich gas reservoirs, capture of CO<sub>2</sub> from industrial plant, transportation of CO<sub>2</sub>, use of CO<sub>2</sub> for EOR, mapping of suitable storage areas for CO<sub>2</sub>, storage of CO<sub>2</sub> and related issues such as HSE etc



# Attendance

- ◆ Dr. I Putu Suarsana - PERTAMINA
- ◆ Mr. Bob Wikan h. Adibrata – PERTAMINA
- ◆ Mr. Moh. Irfani - PERTAMINA
- ◆ Mr. Wahyu Dradjad Santoso – PERTAMINA
- ◆ Mr. Yahya Talla –PETRONAS
- ◆ Ms. Intan Nahariah Bt. Yaacob – PETRONAS
- ◆ Mr. Zubaidi Bin Abang Zamhari – PETRONAS
- ◆ Mr. Generoso P. Revilla - PNOC-EC
- ◆ Dr. Witsarut Thungsuntonkhun – DMF (Thailand)
- ◆ Dr. Trin Intaraprasong - DMF (Thailand)
- ◆ Mr. Chanwichai Suksawat – PTT-EP
- ◆ Dr. Øystein Berg – PETRAD
- ◆ Dr. Olavur Ellefsen – Simprentis
- ◆ Ms. Eva Halland – NPD
- ◆ Prof. Terje Martin Halmø – Risavika Gas Center & University of Bergen
- ◆ Dr. Per Christer Lund – Norwegian Embassy – Tokyo (Innovation Norway)
- ◆ Mr. Simplicio P. Caluyong – CCOP Technical Secretariat



# Technical Presentations

## ◆ PERTAMINA

- Proposal for a CCS Pilot project
- Area to be proposed as CCS injection project

## ◆ Norway

- Updates on CCS developments in Norway
- Norwegian capabilities developed through the years – researches, pilots & demonstration projects, case studies, etc



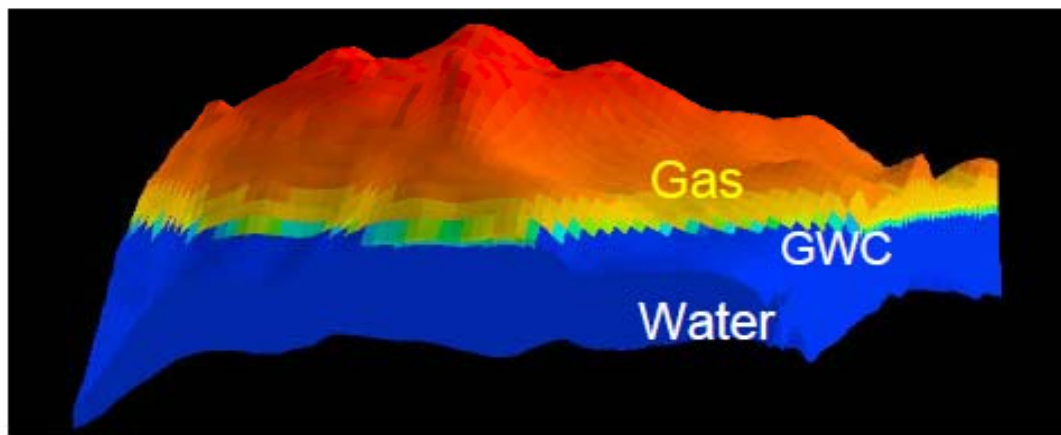
# Ascope Target

- To start Implement the CCS as a real project for cooperation
- Increasing the effectiveness of using CO2 for enhanced Oil Recovery
- To provide guide line of how to implement the CCS in ASEAN Countries
- Pertamina will provide the field as pilot implementation in ASEAN

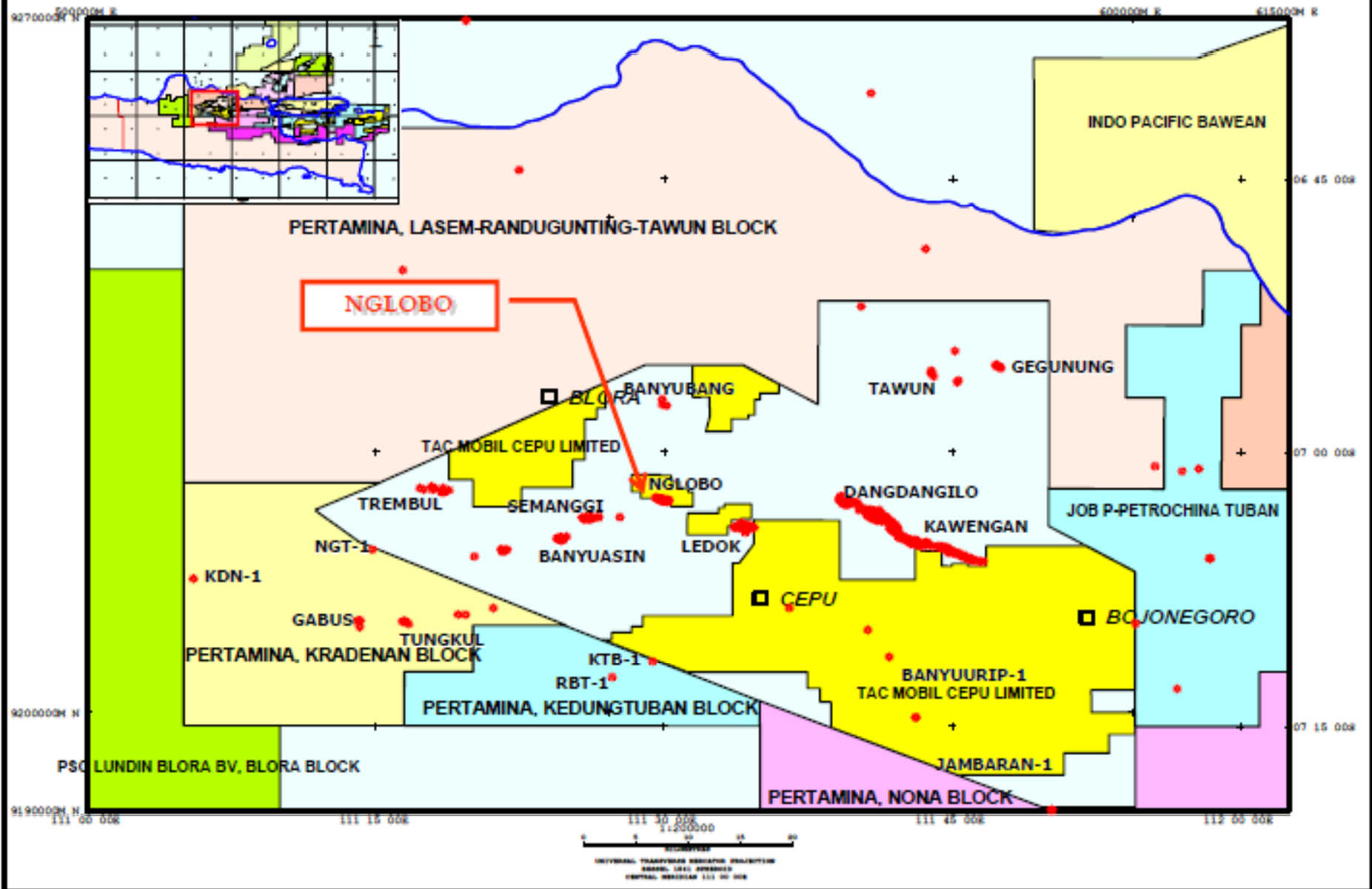
# Alternative Sources of Gas

Proposed by : ASCOPE BDC EP

- High CO<sub>2</sub> Gas Reservoir
- Coal Bed Methane (CBM)

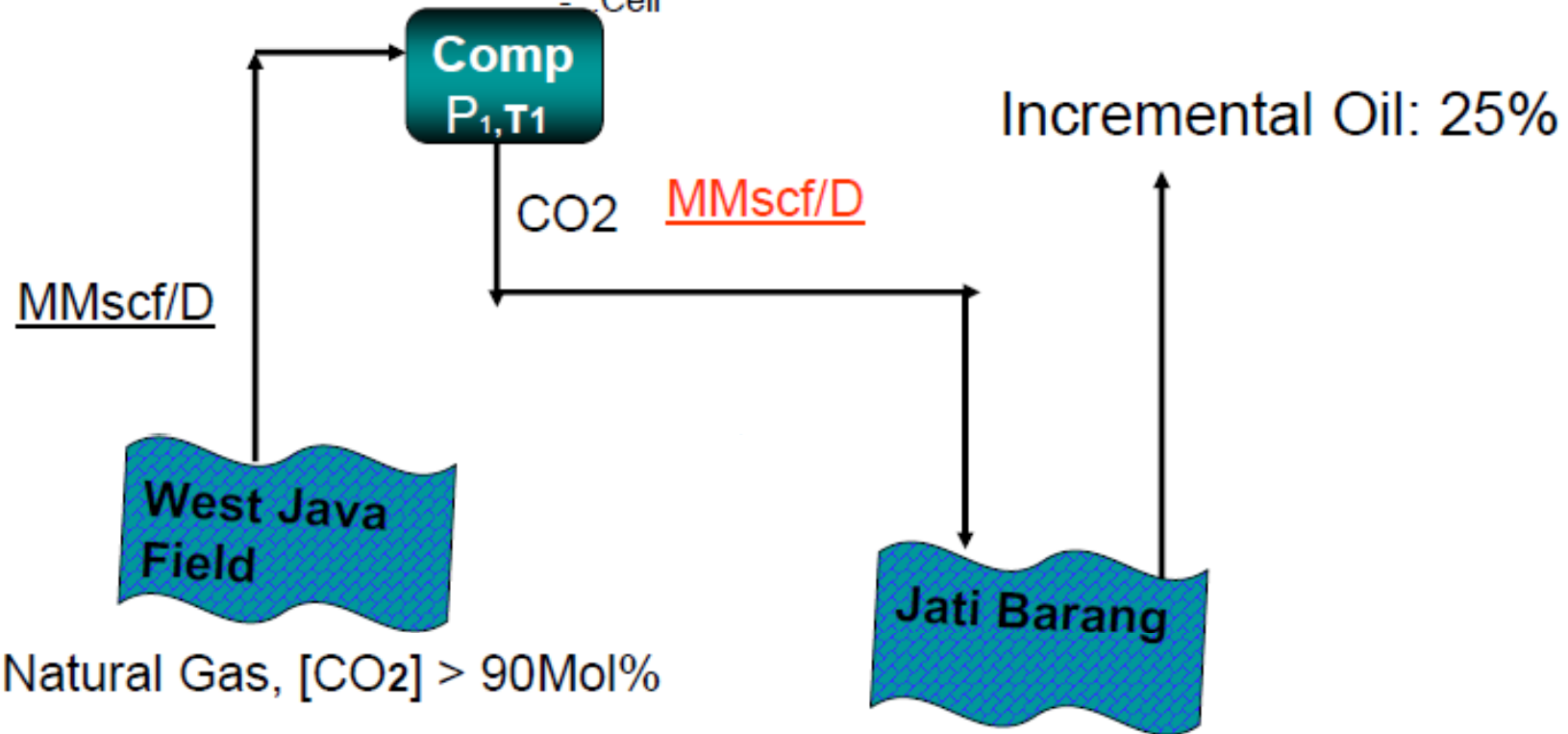


# PETA SITUASI BLOK CEPU REGION JAWA



# CO<sub>2</sub> Flooding

Amien Process  
-Alternative: - Membrane  
- Cyclone  
- Cell



Future Plan: CO<sub>2</sub> injection in Kawengan- Central Java, CO<sub>2</sub> From Cepu Block Field



A light blue map of East and Southeast Asia is centered on the slide. The map shows the outlines of China, India, and the Southeast Asian archipelago. The text is overlaid on the map.

◆ **Pilot project proposal is supported by all ASCOPE representatives present**

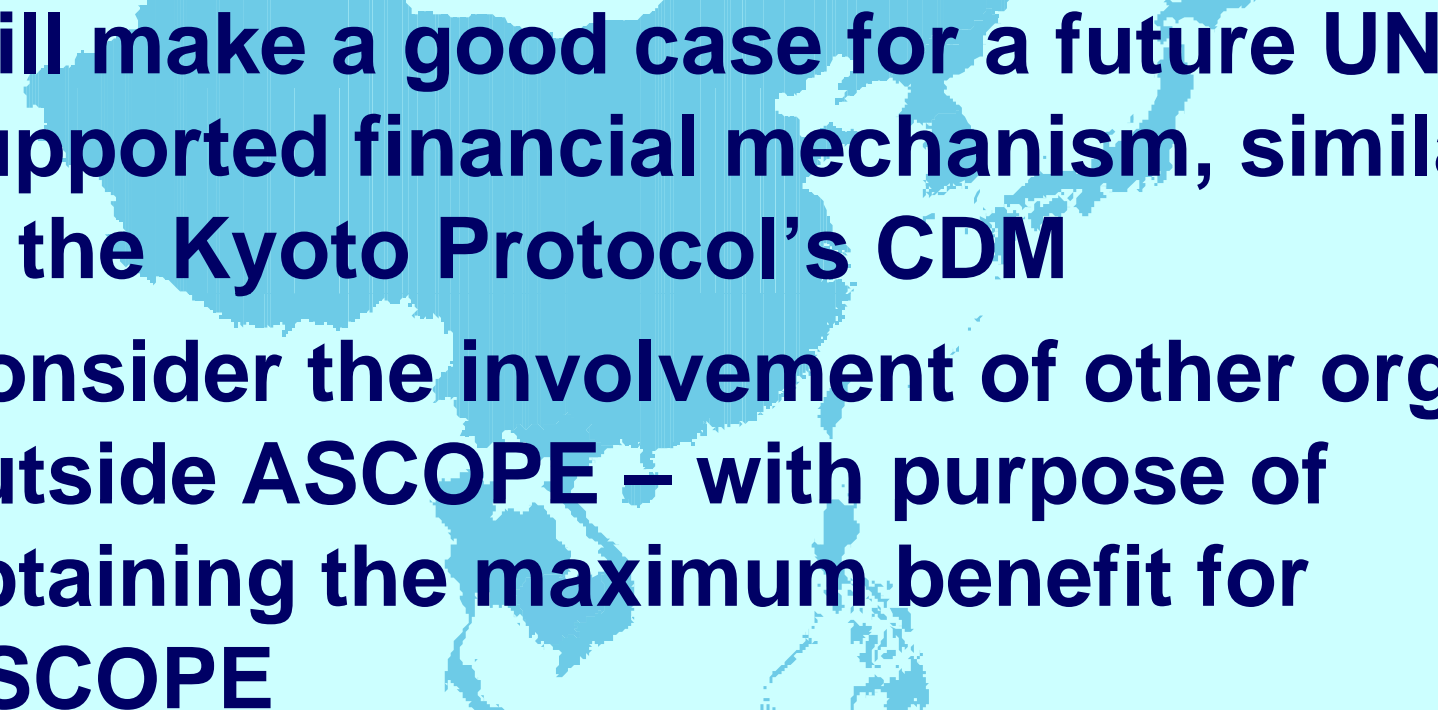


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# Comments & Recommendations

- ◆ The PERTAMINA proposal , if approved, will be the first CCS pilot in the region
- ◆ Will be an opportunity for ASCOPE to learn in process & experiences of CCS
- ◆ The Governments can also participate - to support their capacity building objectives towards CCS legal framework, among others



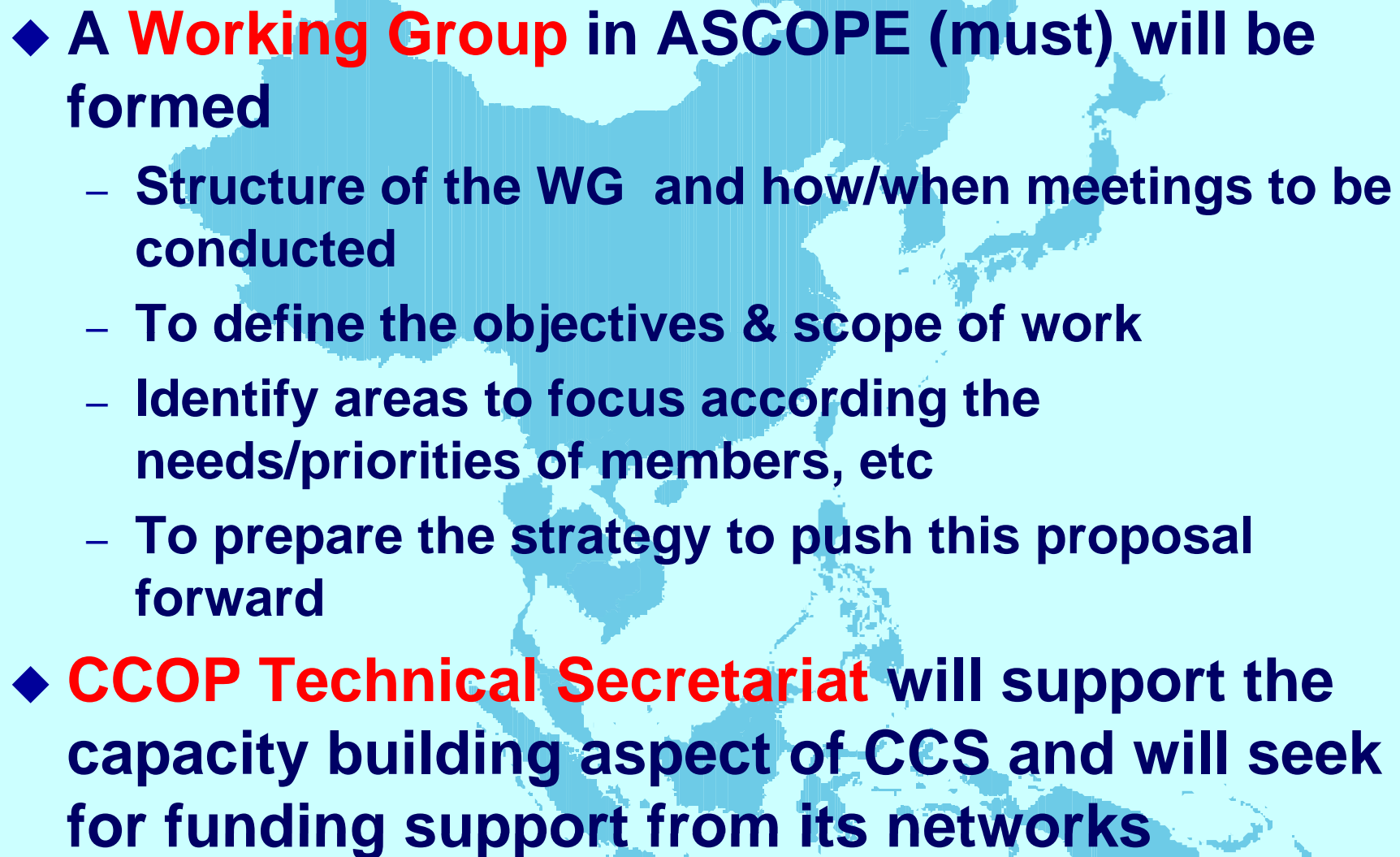
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- ◆ **Will make a good case for a future UN-supported financial mechanism, similar to the Kyoto Protocol's CDM**
  - ◆ **Consider the involvement of other orgs outside ASCOPE – with purpose of obtaining the maximum benefit for ASCOPE**



# Norwegian expertise

- ◆ **Norway is involved in many existing CCS Projects;** has the policy, technology and the willingness to transfer the technology on CO<sub>2</sub> Capture and Storage
- ◆ Capturing CO<sub>2</sub> will make a good case for GHG impact mitigation
- ◆ Universities and research institutions in Norway are open for collaboration in a CCS pilot
- ◆ It is important for the proposed CCS Pilot Project to highlight the business opportunities – to make it attractive to all parties
- ◆ Norway will form an CCS expert group through **PETRAD**



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- ◆ **A Working Group** in ASCOPE (must) will be formed
    - Structure of the WG and how/when meetings to be conducted
    - To define the objectives & scope of work
    - Identify areas to focus according the needs/priorities of members, etc
    - To prepare the strategy to push this proposal forward
  - ◆ **CCOP Technical Secretariat** will support the capacity building aspect of CCS and will seek for funding support from its networks



# The Way Forward

- ◆ **CCS Pilot Proj WG to be led by the ASCOPE E & P BDC with **PERTAMINA** as sponsor (**Dr. Putu Suarsana**) – first meeting scheduled in January 2011**
  - To define the objectives & scope of work
  - Identify areas to focus according the needs/priorities of members, etc
  - Prepare the proj proposal documents
  - To prepare the strategy to push this proposal forward



# http://www.ccop.or.th/eppm

← → ↻ ☆ http://www2.ccop.or.th/eppm/index.php



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More...

Here you will find the latest information about the CCOP - Norway Program for Enhancing Public Petroleum Management of the CCOP Member Countries (EPPM Program), the 3 Projects under the EPPM Program, the capacity building case studies and workshops under each Project, dissemination seminars, information about the recently conducted Workshops as well as of past Workshops/Seminars, upcoming events, and discussion forum with information on who is online.

The EPPM Program is a 4-year program commencing in July 2008 and is funded by the Norwegian Government to benefit the CCOP Member Countries. 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. For the implementation of the technical activities, CCOP partnered with the Norwegian International Programme for Petroleum Management and Administration (PETRAD) and Norwegian Petroleum Directorate (NPD).

### Recent Publication

- [Proceedings of the 40th CCOP Annual Session \(Part II\)](#)
- [CCOP Newsletter Vol 32 No. 3/4 \(July - Dec 2007\)](#)

### Courtesy Visit to New Permanent Representative of Thailand to CCOP

July 20, 2010



On 14 June 2010, the CCOP TS Director, Prof Dr He Qingcheng, along with the three Sector Coordinators paid a courtesy visit to the new Director-General (DG) of the Department of Mineral Resources (DMR), Thailand, Mrs. Pornthip Pucharoen. She was officially installed as the new DG of DMR on 28 April 2010...



# THANK YOU!

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**Coordinating Committee for Geoscience  
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