



CCOP – KIGAM Unconventional Oil and Gas Project:

Mapping of Black Shale Formations for the Prediction of Shale resources (**UnCon Project**)

National Coordinators Meeting & Technical Session (UnCon-M3)

22-24 Sep 2015, Chiangmai, Thailand

A. Background and Objectives:

The CCOP Technical Secretariat in cooperation with KIGAM, will be conducting the UnCon-M3 in Chiangmai, Thailand. The objectives are to use a geology-based assessment methodology to assess the potential of oil and gas shale resources in the CCOP member countries. The technical session will look deeper into the various methodologies used in the assessment of oil and gas shale resources. The agenda will include a technical session on the overview of black shale mapping and reporting of the CCOP member countries on their shale potential and workshop on the assessment methodologies.

B. Participants and Resource persons:

1. Representatives from oil and gas regulatory and supervisory agencies, research organizations, national oil and gas companies, geological agencies, environmental agencies, and academic institutions of CCOP member countries.
2. Resource persons from BGS, KIGAM and other CCOP member countries.

C. Venue and Date: Imperial Mae Ping Hotel, Chiangmai, Thailand / 22-23 Sep 2015 and field trip on 24 Sep 2015.

D. Implementing / coordinating organizations

1. CCOP Technical Secretariat
2. KIGAM
3. Department of Mineral Fuels (DMF), Thailand

E. Draft Program:

#	Time	Item	Person/Organization
1	21 Sep	Arrival of participants/resource persons	CCOP TS

Day 1: Tuesday, 22 Sep 2015			
2	0830	Registration	CCOP TS
3	0900	Opening Ceremony <ol style="list-style-type: none"> 1. Welcoming Remarks <ol style="list-style-type: none"> a. CCOP Technical Secretariat 2. Opening Remarks <ol style="list-style-type: none"> a. KIGAM Exchange of Tokens	CCOP TS Dr. Adichat Surinkum Director, CCOP Technical Secretariat Dr. Byeong-Kook Son Principal Researcher Petroleum and Marine Research Division CCOP TS
	0945	Group Photo / Coffee - Tea	CCOP TS
4	1015	Introduction and Background of the Meeting	Mr. Simplicio P. Caluyong <i>CCOP Technical Secretariat</i>
		Session on Methodologies in the assessment of oil and gas shale resources: <ol style="list-style-type: none"> 1. <i>Mapping for the volume calculation of shale beds</i> 2. <i>Characterization of shale (TOC, mineralogy, etc)</i> 3. <i>Resources calculation</i> 4. <i>Case studies</i> 	
5	1030	Shale Volume calculation	Dr InGul Hwang KIGAM
6	1050	Characterization of Shale	Dr Byeong-Kook Son KIGAM
7	1120	Resource Assessment methodology – comparison between the USGS and EIA/ARI methods	Dr Kyung-Book Lee KIGAM
	1200	Lunch	
8	1330	Case Study 1: Resource Assessment methodology <ul style="list-style-type: none"> • Country overview (geology)- different assessments, regulation relevant to resource evaluation • Resource assessment- BGS approach • BGS method used- general • BGS method- differences in approach between 3 areas 	Dr Edward Hough British Geological Survey (BGS)

		<p>assessed</p> <ul style="list-style-type: none"> • What can be improved? • Getting from resource to reserve 	
	1500	Coffee / tea break	
9		<p>Workshop on methodologies and its application - BGS method</p> <ul style="list-style-type: none"> • using sample data sets and data from CCOP countries • presentation of results and discussions • take-away from the workshop 	
10		Summary of Day 1	Chairperson/Resource persons
11	1830	<p>Dinner</p> <p><i>Attire: Smart Casual</i></p>	Host: PTTEP, Thailand (venue: <i>TBC</i>)
Day 2: Wednesday, 23 Sep 2015			
12	0830	Overview of Day 1 and Order of the Day	Chairperson
13	0840	Case Study 2: Resource Assessment methodology	Ms Djedi Widarto PERTAMINA (Indonesia)
14	0900	Case Study 3: Application of the ARI methodology in the assessment of oil/gas shale resources– SINOPEC experience	SINOPEC (<i>TBC</i>)
15	0930	Extended discussions on the Methodology workshop	All participants
	1000	Coffee/ tea break	
16	1030	The Project Plans and the Way Forward: Brainstorming session	All Participants
	1200	Lunch	
	1330	Continue with the Brainstorming session Extended Discussion (if needed)	All Participants
	1500	Coffee/ tea break	
17	1530	<p>Evaluation of Workshop</p> <p>Awarding of tokens of appreciations and certificates</p> <p>Field trip presentation</p> <p>Closing Ceremony</p>	CCOP TS
	1700	End of Workshop / Meeting	
		<p>Dinner</p> <p><i>Attire: Smart Casual</i></p>	Host: CCOP TS (venue: <i>TBC</i>)
Day 3: Wednesday, 24 Sep 2015			

18	0800 - 1600	Field Trip (Chiangmai & Vicinity)	CCOP TS / DMF
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