



CCOP CO₂ Storage Mapping Program (CCS-M)

CCS-M Workshop (C1W1): Indonesia Case Study 25-27 February 2015, Bali, Indonesia

A. Background and Objectives:

The CCOP Technical Secretariat in cooperation with Badan Geologi (Geological Agency), Ministry of Energy and Mineral Resources (ESDM) – Indonesia, supported by the Norwegian Ministry of Foreign Affairs and Global CCS Institute (GCCSI), will be conducting the CCS-M Workshop (C1W1) in Bali, Indonesia on 25-27 February 2015. The objectives are to have a deeper understanding of the methodologies for the selection of technically accessible CO₂ geological storage reservoir and estimation of storage capacity. The agenda will include hands-on exercises to assess and test the CCOP Guideline on the Methodologies for selecting CO₂ storage sites and estimation of capacities using data from selected basins in Indonesia. Invited resource persons will be coming from Australia, Europe and CCOP member countries.

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 and ASEAN Council on Petroleum (ASCOPE) members.
2. Resource persons from Australia and CCOP member countries.

C. Venue and Date: Bali, Indonesia – 25-26 February 2015 and field trip on 27 February 2015.

D. Implementing / coordinating organizations

1. CCOP Technical Secretariat
2. Global CCS Institute
3. Royal Norwegian Embassy- Jakarta, Ministry of Foreign Affairs (Norway)
4. Badan Geologi, Ministry of Energy and Mineral Resources (Indonesia)

E. Draft Program:

#	Time	Item	Person/Organization
1	24 Feb	Arrival of participants/resource persons	CCOP TS/Badan Geologi
Day 1: 25 Feb 2015			
2	0830	Registration	CCOP TS/Badan Geologi
3	0900	<p>Opening Ceremony</p> <p>1. Welcoming Remarks</p> <ul style="list-style-type: none"> • CCOP Technical Secretariat <p>2. Opening Remarks</p> <ul style="list-style-type: none"> • Permanent Representative of Indonesia to CCOP <p>Exchange of Tokens</p>	<p>CCOP TS</p> <p>Dr. Adichat Surinkum <i>Director, CCOP Technical Secretariat</i></p> <p>Dr. Surono <i>Director – General, Badan Geologi Ministry of Energy and Mineral Resources, Indonesia</i></p> <p>CCOP TS/Badan Geologi</p>
4	0930	<p>Keynote Address #1</p> <p>Status of CCS Development in Indonesia</p>	Dr. Usman Pasarai <i>LEMIGAS, Indonesia</i>
	1000	Group Photo / Coffee - Tea	CCOP TS
5	1030	<p>Keynote Address #2</p> <p>Global Status of CCS</p>	Mr. Christopher Consoli <i>Senior Adviser – Storage, Asia Pacific, Global CCS Institute</i>
6	1115	Introduction, Background and Update of CCS-M	Mr. Simplicio P. Caluyong <i>CCS-M Coordinator CCOP Technical Secretariat</i>
7	1145	Overview of CCS Pilot Project at Gundih Field, Central Java	Prof. Dr. Wawan Gunawan A. Kadir <i>Professor and Project Director of Gundih CCS Project Institut Teknologi Bandung (ITB), Indonesia</i>
	1230	Lunch	
8	1400	Development of a Methodology to assess geological storage sites	Ms. Tess Dance <i>CSIRO Energy, Australia</i>
9	1430	The CCOP Guideline on the Methodologies for Selecting Geological CO₂ Storage and Estimation of Capacities	Mr. Simplicio P. Caluyong <i>CCS-M Coordinator CCOP Technical Secretariat</i>
	1500	Coffee / tea break	

10	1520	Workshop (1): Selection of Geological Storage sites <ul style="list-style-type: none"> • <i>Application of the CCOP Guideline using data from selected basin in Indonesia</i> • <i>Presentation of data (Indonesia)</i> • <i>Discussions, Q & A</i> • <i>Group Presentation</i> 	All participants
11	1700	Summary for Day 1	Chairperson
12	1830	Welcome dinner <i>Attire: Smart Casual</i>	Host: Badan Geologi <i>(venue: TBC)</i>
Day 2: 26 Feb 2015			
13	0830	Overview of Day 1 and Order of the Day	Chair: Sim Caluyong
14	0840	Case study on Estimation of Storage Capacities	Ms Allison Hortle <i>Geo-fluids Team Leader CSIRO Energy, Australia</i>
15	0910	Introduction to Workshop 2: Geological Storage capacity estimation	Mr. Rick Causebrook <i>General Manager, Research ANLECRD, Australia</i>
16	0930	Workshop (2): Geological Storage capacity estimation <ul style="list-style-type: none"> • <i>Using data from Indonesia</i> • <i>Application of CCOP Guideline</i> • <i>Discussions, Q & A</i> • <i>Group Presentations</i> 	All participants
	1000	Coffee/ tea break	
	1020	..continue with Workshop 2 Group Presentation	All participants
17	1145	Deployment of key CCS technologies – specific recommendations towards a secure, clean and competitive energy future	Mr. Christopher Consoli <i>Global CCS Institute</i>
	1230	Lunch	
18	1400	United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources 2009 (UNFC – 2009): a tool for sustainable development <ul style="list-style-type: none"> • <i>Development of draft specifications for the use of UNFC-2009 to Classify Injection Projects</i> • <i>Comparison of Classification systems</i> 	Sim Caluyong <i>CCOP TS</i>
19	1430	The Way Forward in CCS-M <ul style="list-style-type: none"> • Extended discussion on the CCOP Guideline with a view of publishing an updated (improved) version • CCS-M case studies and 	All Participants

		application of the Guideline in other CCOP Countries <ul style="list-style-type: none"> • Data management and use of GIS in publishing CCS-M study results • Other matters 	
	1515	Coffee/ tea break	
20	1535	Briefing on the Field trip	Badan Geologi
21	1545	Evaluation Awarding of Certifications Closing Ceremony	All Participants CCOP TS Director of CCOP TS
	1700	End of Day 2	
		Day 3: 27 February 2015	
22	0800	Field Trip <ul style="list-style-type: none"> • With English Guide • Lunch and snacks provided 	All Participants
	1830	Farewell Dinner	Host: CCOP TS Venue- TBC