

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

EPPM P2W6: Workshop on developing strategies for public awareness and acceptance of Carbon Capture and Storage (CCS) into the geological reservoirs

7-9 June 2011, Bangkok

Summary Report:

The workshop is the 6th activity under *Project 2 (P2), Natural Gas Field Development and Environmental Issues* of the EPPM Program. This is organized by the CCOP Technical Secretariat with the cooperation of PETRAD (Norway) and Department of Mineral Fuels, Thailand. The objective is to enhance the capacities of the CCOP Member Countries for a sustainable energy policy with Carbon Capture and Storage (CCS) into the geological formation as part of the solution to global climate change. The workshop focused on helping the Member Countries develop strategies for public acceptance of CCS.



A total of 41 participants from 9 CCOP Member Countries (Cambodia, China, Indonesia, Korea, Malaysia, Philippines, Thailand, Timor-Leste and Vietnam) and 3 experts from Norway and one from Australia, also attended the workshop. The distinguished guests of the opening ceremony were

- Dr. Tawsaporn Nuchanong, Deputy Director-General, Department of Mineral Resources, Ministry of Natural Resources and Environment, Thailand
- Dr. Oystein Berg, Managing Director, PETRAD



- Prof. Dr. He Qingcheng, Director, CCOP Technical Secretariat



The resource persons that were invited through the PETRAD network were Ms. Goril Tjetland, CCS adviser of Bellona Foundation (Norway) and Dr. Jens P. Tronskar, Vice President & Chief Technology Officer, DNV Singapore. Their presentations focused on the “big picture” on CCS - the climate change issues & possible solutions with case studies, the CO2 value chain and the latest in R & D and policy developments. Also invited was Ms

Anne – Maree Dowd, a social scientist from Australia’s Commonwealth Scientific and Industrial Research Organization (CSIRO) who led in the public awareness exercise on day 2- a very interesting part of the workshop.

The status of CCS implementation in the CCOP region, highlighting on opportunities and challenges experienced, were presented by Thailand (DMF), Indonesia (LEMIGAS) and Korea (KIGAM).

Observations and Conclusions



1. *“Climate change is happening more rapidly than anyone thought possible. Should humankind stop worrying about global warming and instead start panicking? My conclusion is that we are still left with a fair chance to hold the 2°C line, yet the race between climate dynamics and climate policy will be a close one” Hans Joachim Schellnhuber, Founding Director, Potsdam Institute for*

Climate Impact Research and Member, Intergovernmental Panel on Climate Change (IPCC).

2. CCS poses a greater challenge for industry and society. While the technologies and best practices developed through the years in the oil and gas sector is seen as major driver to provide the confidence that these technologies will be safe to society and environment, this belief however, was heavily tainted by the Deepwater Horizon oil spill in the Gulf of Mexico in 2010.
3. For the last 5 years, Europe has invested heavily in R & D for CCS capture, transportation and storage- the challenges now is the need to move from R & D and demonstration projects to large scale CCS (and to this

fast!).

4. Successful CCS Projects integrate communication and outreach as a critical component of the Project from the beginning.
5. From the CCS public awareness exercise:
 - a. Know & identify your stakeholders – highlight the direct benefits to the community from the Project;
 - b. Have a clear strategy on who/what/how to deliver your message, open a channel of communication to community and stakeholders;
 - c. Engage early with a 2-way communication- adjust plans if necessary; and
 - d. Each country has different way of engaging the public (but with same purpose- of winning the public’s acceptance to the CCS Project).

Aside from learning from the presentations and workshop, the activity also provided an opportunity to learn from practices & experiences from various countries. Notably in the areas of upstream oil and gas sector developments as well initiatives related to addressing the climate change issue.



Ms. Anne-Maree Dowd provided to each organization a copy of CSIRO’s “Communication/Engagement toolkit for CCS Projects” that was used in the workshop. This material should be helpful to countries who would like to develop a strategy in engaging the public for understanding and acceptance of a CCS Project, or similar projects.

A 1-day field trip was organized to visit Ayutthaya and Bang Pa-In Summer Palace, about 2 hours from Bangkok.