



*CCOP-NORWAY EPPM PROGRAM*  
*The 3<sup>rd</sup> Seminar*

*11-12 November 2010, Bangkok, Thailand*

**Presentation by the CCOP**  
**Member Country: VIETNAM**

**PHAM TUAN VIET**  
**NGUYEN THI HONG ANH**  
**PETROVIETNAM**



## **OUTLINE**

- ➡ Impact of EPPM technical activities**
- ➡ Enhance knowledge about impact of green house gas (GHG) to climate change**
- ➡ Post-EPPM program recommendations**



## **Impact of eppm technical activities**

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### **Vietnam Participants in EPPM Technical activities in 2009-2010:**

**-EPPM-P2W1: 2 participants**

**-EPPM-P3W1: 2 participants**

**-EPPM-P2W2: 2 participants**

**-EPPM-P3W2: 2 participants**

**-EPPM- Carbon Capture & Storage: 2 participants**

**-EPPM-Workshop in Danang, Viet Nam: 20 participants**

**-EPPM-P2W3: 2 participants**

**-EPPM-P1W2: 2 participants**



## **IMPACT OF EPPM TECHNICAL ACT.**

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**Viet Nam participants in EPPM technical activities in 2009-2010 (cont.):**

**-EPPM-P2W4: 2 participants**

**-EPPM-P1W3: 2 participants**

**-EPPM-P3W2: 2 participants**

**-EPPM-P2W5: 4 participants**

**Total 44 participants (11 women)**



## IMPACT OF EPPM TECHNICAL ACT.

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### ◆ The case study data and topics relate to challenges:

Most topics are related to our challenges: Gas development with high CO<sub>2</sub> and H<sub>2</sub>S; Carbon capture & storage; Use CO<sub>2</sub> for IOR and EOR; Development options and strategy of marginal field; Gas Hydrates as potential energy source.

However, Vietnam not directly involving in these case studies, can only access limited amount of information about the case studies, thus reduce the opportunity for participants to learn and benefit from the lessons and outcomes of these studies.



## IMPACT OF EPPM TECHNICAL ACT.

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### ◆ The knowledge learned from EPPM Workshops:

PetroVietnam has benefited and gained valuable experience from the case study on the Puguang Gas Field as a typical case of natural gas field development with high CO<sub>2</sub> and H<sub>2</sub>S.

PetroVietnam has studied and applied the CO<sub>2</sub> for IOR & EOR in White Tiger Field.

PetroVietnam applied CO<sub>2</sub> capture from Phu My fertilizer plan.

Viet Nam begin upon different studies on Gas Hydrates.



## IMPACT OF EPPM TECHNICAL ACT.

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### ◆ Conclusions and recommendations

Knowledge and experience from the EPPM case studies have started to be applied in the oil and gas exploration affiliates of PetroVietnam as well as in the management of PetroVietnam head office.

Simultaneously, Petrovietnam keeps studying and considering contract models that provide competitively economic conditions to attract international oil companies.



## IMPACT OF EPPM TECHNICAL ACT.

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Because the number of experts participating in seminars and workshops are limited, with short discussion time for each exercise, we have not yet gained much experiences, especially in new issues.

PetroVietnam kindly requests the assistance or sponsor from CCOP to organize in Viet Nam Workshop on “Gas Hydrates”.





## ENHANCE KNOWLEDGE ABOUT IMPACT OF GHG TO CLIMATE CHANGE

### ❖ National Target Program (NTP)

Vietnam signed the United Nations Framework Convention on Climate Change (UNFCCC) on Jun 1992, ratified on Nov 1994.

Vietnam signed the Kyoto Protocol on Dec 1998, ratified on Sept 2002. Vietnam is a non-annex I country.

*National Target Program to Respond to Climate Change* was approved by the Government on Dec 1998.



## ENHANCE KNOWLEDGE ABOUT IMPACT OF GHG TO CLIMATE CHANGE (cont.)

### Highlights of NTP:

✓ *Website:*      <http://www.monre.gov.vn>      <http://www.isge.monre.gov.vn>  
                         <http://www.moit.gov.vn>      <http://www.mard.gov.vn>

✓ *Strategic objectives:*

- Assessment of climate change impacts
- Development of feasible action plans to respond to climate change
- ➔ **To ensure sustainable development of Vietnam**
- ➔ **To develop towards to low-carbon economy**
- ➔ **To joint international community's effort in mitigating climate change**



## ENHANCE KNOWLEDGE ABOUT IMPACT OF GHG TO CLIMATE CHANGE (cont.)

### Highlights of NTP (cont.):

#### ✓ *Activities:*

1. Assessment of climate change impacts in VN
2. Identify measures to address climate changes
3. Development of science and technology program on climate changes
4. Strengthen organizational and institutional capacity and policy on climate changes
5. Awareness raising and human resources development
6. Enhancement of international cooperation
7. Mainstream of climate change in strategies and plans
8. Development of action plans to respond to climate change



## ENHANCE KNOWLEDGE ABOUT IMPACT OF GHG TO CLIMATE CHANGE (cont.)

### Highlights of NTP (cont.):

#### ✓ *Implementation:*

- Established Steering Committee (chaired by the Prime Minister), Program Executive Board (standing office of the SC), Executive Board (ministries, sectors, provinces, cities...)

- 3 implementation phases:

2009 – 2010: Start up

2011 – 2015: Implementation

After 2015: Development



## ENHANCE KNOWLEDGE ABOUT IMPACT OF GHG TO CLIMATE CHANGE (cont.)

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### ❖ MOIT plans regarding NTP

Implementation plan responding to climate change, issued Aug 2010.

Development plan of bio-fuels to 2015, orientation to 2025, issued Nov 2007.

National target program on energy saving and effective utilization, issued Apr 2006.



## ENHANCE KNOWLEDGE ABOUT IMPACT OF GHG TO CLIMATE CHANGE (cont.)

### ❖ PetroVietnam's activities regarding NTP

#### Reduction of GHG emission projects:

- ✓ *Oil field associated gas recovery*
- ✓ *Bio-fuels*
- ✓ *Gas fired power plants*
- ✓ *CO2 recovery*
- ✓ *Inventory on utility and energy use, GHG emissions...*

#### Respond to climate change:

- ✓ *Research on impacts of climate change to petroleum installations based on the base scenarios of Vietnam climate change issued by the MONRE*



## POST-EPPM PROGRAM RECOMMENDATION

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- ❖ **Sharing experience in inventory on GHG emissions as well as the energy saving technology applications in petroleum industry**



Thank You