



# Carbon Capture and Storage; CCS, in Thailand

Present by

**Wuttipong Kongphetsak**

Senior geologist



Department of Mineral Fuels  
MINISTRY OF ENERGY

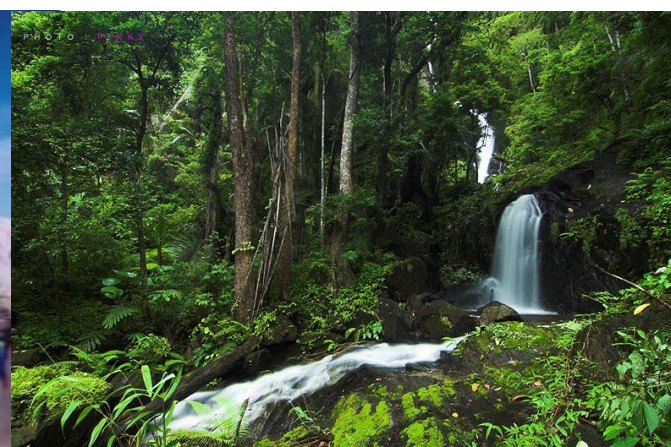
**ASEAN CLEAN ENERGY FORUM 2020**

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## OUTLINE

- **Thailand Climate Change and Energy Policy**
- **CCS Activities and Result in Thailand**
- **Conclusion**





## Thailand Climate Change Master Plan 2011-2050

### Ministry of Natural Resources and Environment

<http://www.mnre.go.th/mnre/>



**ONEP**

- EIA
- Thailand Climate Change Master Plan 2011-2050

<http://www.onep.go.th/>



- CDM

<http://www.tgo.or.th/>



## Alternative Energy Development Plan

## Energy Efficiency Plan

### MINISTRY OF ENERGY

Energy Policy and Planning Office  
<http://www.eppo.go.th/>

Department of Alternative Energy  
Development and Energy Efficiency  
<http://www.dede.go.th/>

Department of Mineral Fuels  
<http://www.dmf.go.th/>



**PTT Groups**



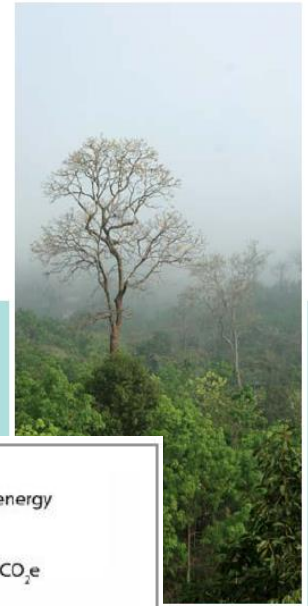
**EGAT**

## Greenhouse Gas Mitigation Plans

### Reduce Agricultural Burn



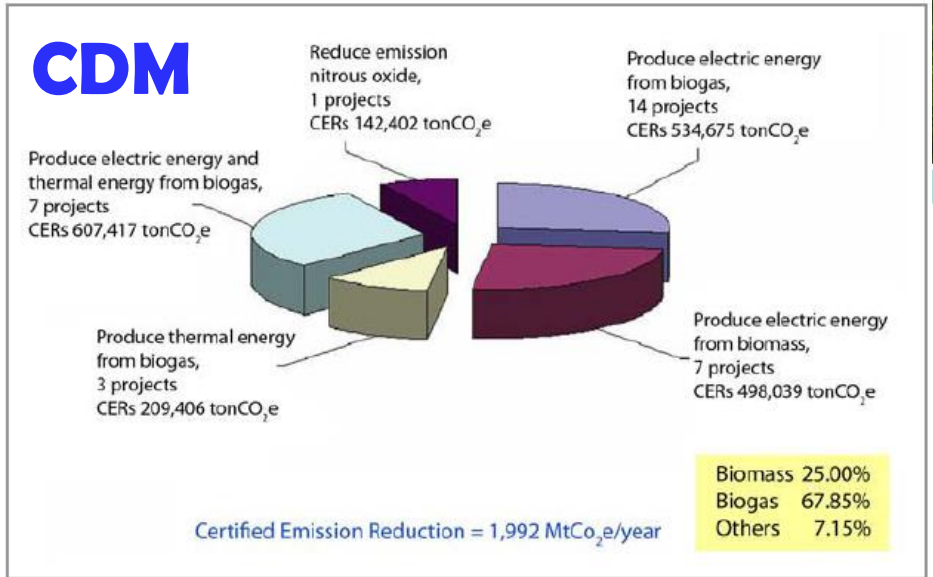
### Forestation



### Energy Efficiency

Promotion of Labeling to reduce GHG

### Alternative Energy





## Ministry of Energy CCS Task Force

**Ministry  
of  
Energy**

**Geological Storage Potential Study**

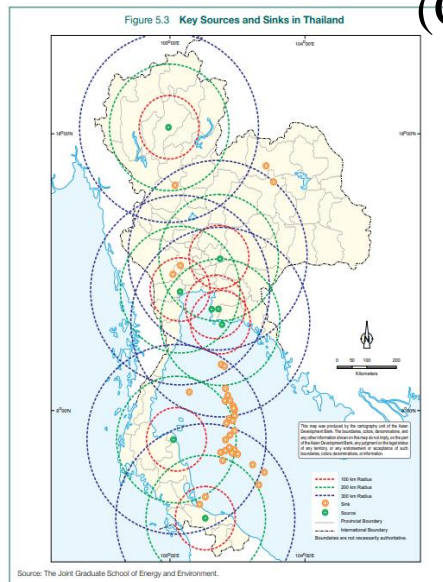
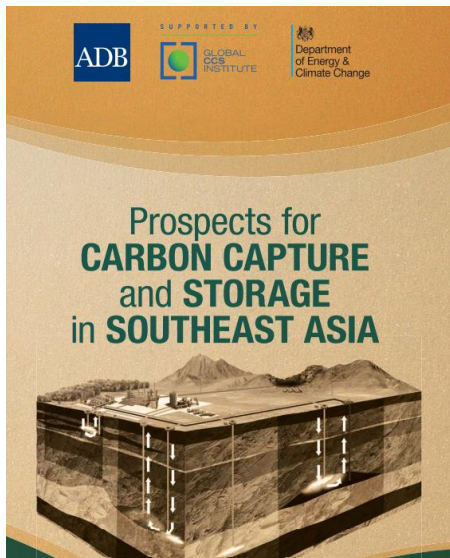
(Cooperation with Tetra Tech)

**Prospects Carbon Capture and Storage in Southeast Asia** [www.adb.org](http://www.adb.org)

(Cooperation with ADB)

**Feasibility & Regulation Study**

(Cooperation with PTIT)





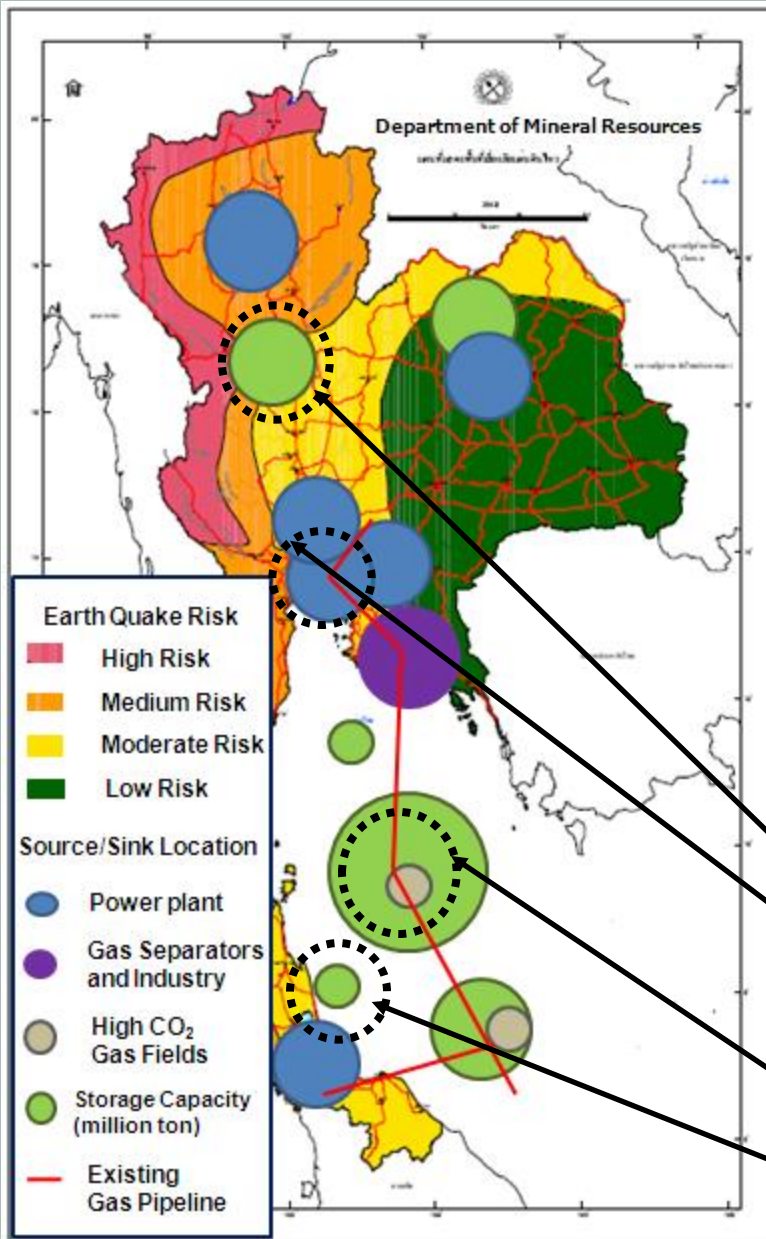
## Geological Storage Potential

- **Estimated Total Storage 1,935 million Ton (only in petroleum reservoir, not include aquifer storage)**
- **More than 90% in the Gulf of Thailand**
- **Storage/Emission per year = ~ 8 years**

## CCS Potential

**Pitsanulok Basin  
Suphanburi Basin**

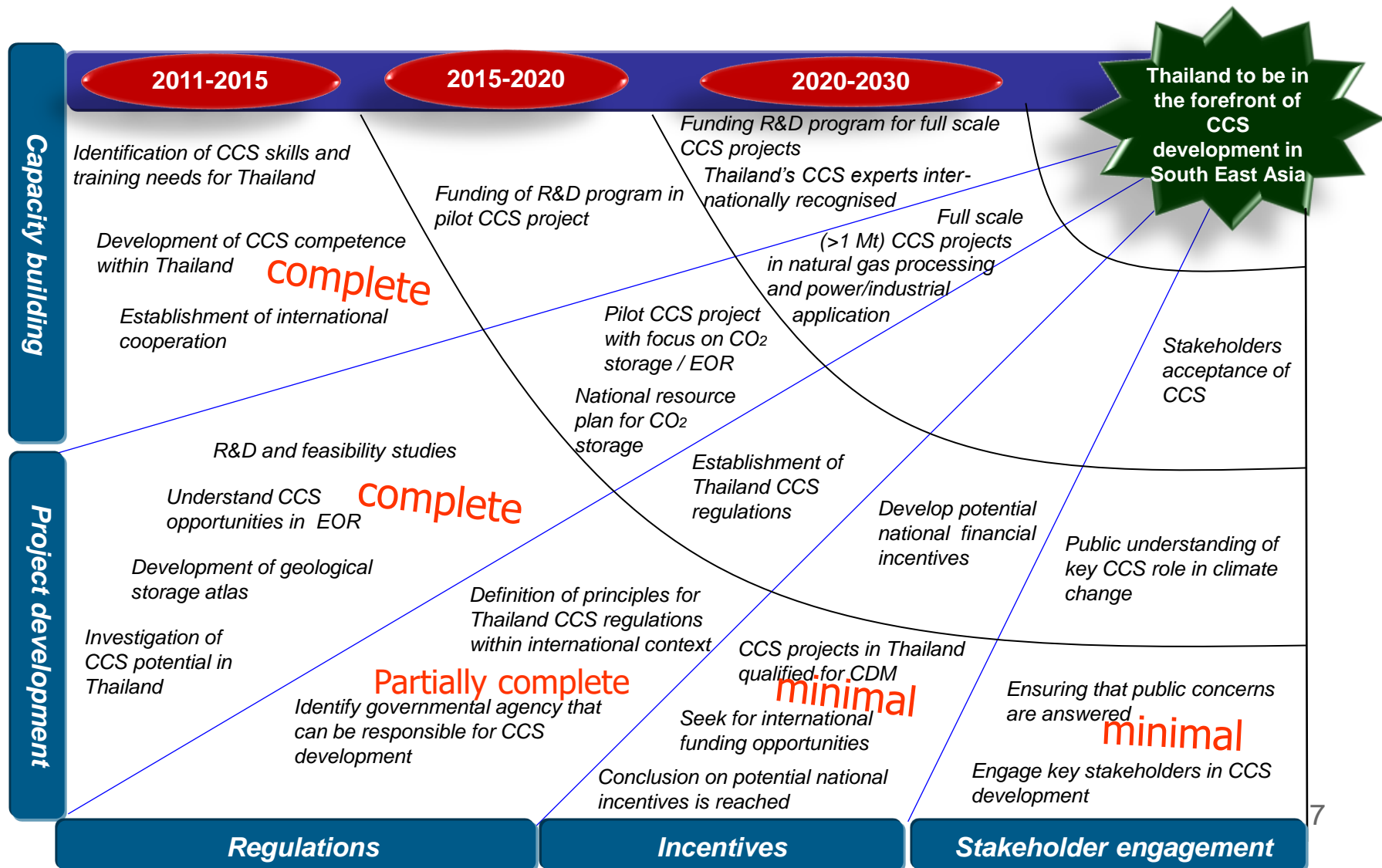
**Pattani Basin  
Songkhla Basin**





# Roadmap for CCS in Thailand

## Thailand CCS Roadmap for E&P Industry





- **CCUS is technically possible in Thailand**
- **Financing remains a long term issue**
- **Oil and gas fields in Thailand are approaching end of field life; hence, there are potential pilot project(s)**
- **Existing regulatory framework can support pilot project(s), but full-scale project require major modifications**





**Thank you**

**Questions**

