

# 12.a. APEC Oil and Gas Security Initiative

**The 69th Meeting of APEC Energy Working Group (EWG69)**

26-27 February 2025 – Gyeongju, Republic of Korea

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# Outline

- Oil and Gas Security Exercise in 2013
- Oil and Gas Security Initiative
  - Oil and Gas Security Exercise
  - Oil and gas Security Network
  - Oil and Gas Security Studies



# Oil and Gas Security Exercise in 2013

*APEC Energy Ministerial Meeting Declaration adopted in St. Petersburg, Russia in 2012*

*The Energy Ministers unanimously agreed to Japan's initiative and instructed the EWG and APERC:*

- Work on activities to improve the response to oil and gas emergency situations, including emergency response workshops and exercises.
  - Perform these activities in collaboration with the International Energy Agency (IEA) and the Association of Southeast Asian Nations (ASEAN).
- *APERC decided to carry out "**two Fora**" and "**two Case Study Exercises**" in 2013/2014 in cooperation with the APEC member economies, international/ regional organizations including the IEA and ASEAN, and also IEEJ Headquarters.*
- *The objectives of the **Exercise** are **1)** to investigate the domestic systems for emergency preparedness in each APEC economy; **2)** to develop possible scenarios of oil and gas emergency situations; and **3)** to accumulate the necessary information and analysis by mobilizing capable experts in the APEC region.*



# The 1<sup>st</sup> OGSE fora

## ❖ *Kick-off meeting: The 1<sup>st</sup> Oil and Gas Security Forum (18-19 April 2013 in Tokyo, Japan)*

- 11 experts were invited from APEC member economies and international organizations; 13 APEC member economies sent their delegates to the forum.
- The experts and delegates actively discussed the oil and gas security situation in the APEC region, experience of energy security exercises in international organizations, APEC developed economies and APEC developing economies and also how to organize case study exercises in Thailand and Indonesia.



The First Oil and Gas Security Forum



# Case Study Exercises (1)

## ❖ *1<sup>st</sup> Case Study Exercise was a joint exercise by Southeast Asian APEC economies in September 2013 in Thailand*

- All 7 ASEAN/APEC economies participated in the Exercise: Brunei Darussalam; Indonesia; Malaysia; the Philippines; Singapore; Thailand and Viet Nam.
- Experts from IEA, ASEAN Council on Petroleum (ASCOPE), Heads of ASEAN Power Utilities/Authorities (HAPUA), Economic Research Institute for ASEAN and East Asia (ERIA), Indonesia; Japan; Korea; Thailand; APERC and IEEJ researchers.
- The Exercise presented two stages of emergency scenarios. The first stage, which consisted of three phases, dealt with a common oil emergency situation for the participating economies.
- The second stage, on the other hand, presented scenarios which are unique only to each economy.



The Joint SEA Exercise



## Case Study Exercises (2)

### ❖ *2<sup>nd</sup> Case Study: The Jakarta Exercise held in October 2013*

- Experts from IEA, ASEAN Centre for Energy (ACE), ASCOPE, HAPUA, ERIA, Indonesia; Japan; Korea; APERC and IEEJ researchers participated.
- In order to investigate the Indonesian system for emergency preparedness in oil, three hypothetical emergency scenarios were developed by APERC.
- Scenarios involved both force majeure and man-made disruptions.



The Jakarta Exercise



## The 2<sup>nd</sup> OGSE fora

❖ *Wrap-up meeting: The 2<sup>nd</sup> Oil and Gas Security Forum (25 March 2014 in Tokyo, Japan)*

- Experts and delegates reviewed and commented on the reports of *the Joint Southeast Asian Exercise* and the *Indonesia Exercise* as well as the result of APERC's research works, all of which consisted of the draft report of the *OGSE Project*.



The Second Oil and Gas Security Forum



# Oil and Gas Security Initiative (OGSI)

◆ The **2014 APEC Ministers Meeting (EMM 11)** in Beijing instructed APERC to continue its work on energy security in collaboration with the IEA, ACE, and other international organizations

**Oil & Gas Security Exercise (OGSE)**  
on a voluntary basis.

**Oil & Gas Security Network (OGSN)**  
by officials in charge of oil and gas security policy in each economy;

- Network Forum
- OGS Newsletter

**Oil & Gas Security Studies (OGSS)**  
on research topics related to oil and gas security in the APEC region.

- The **OGSI** produced the **Oil and Gas Security Exercise Model Procedure (OGS-EMP)** (APEC Oil and Gas Security Initiatives (OGSI)), a guidebook that provides a step-by-step approach for economies to conducting supply emergency exercises. The strategies were based on lessons learned from the OGSE.
- The **OGS-EMP** was published in 2015 and has been used in several exercises since then.



# Oil and Gas Security Exercise (OGSE)

- **Six member economies** hosted an **Exercise**. The OGSE was suspended in 2020 due to the pandemic but activated again in 2023. Following were the economies that hosted the Exercise:
    - 1) OGSE in the Philippines (July 2016)
    - 2) OGSE in Australia (October 2017)
    - 3) OGSE in Peru (May 2018)
    - 4) OGSE in Chile (December 2019)
    - 5) OGSE in Thailand (September 2023)
    - 6) OGSE in Indonesia (February 2025)
  - The OGSE Reports (The Philippines; Australia; Peru; Chile; and Thailand) are posted on the [APERC website](#).
  - The latest **OGSE in Indonesia** was held from **3 to 6 February 2025**. Oil and gas experts from international organizations and member economies participated in the Exercise.
    - The preliminary report was presented at the APERC Workshop, and we will draft the report soon.
    - We would like to express our gratitude to the economies that conducted the OGSE and sent experts.
- *With the increasing concerns on oil and gas security and fast-evolving threats and disruptions in oil and gas supply, we highly encourage APEC member economies to conduct the Exercise.*



# Oil and Gas Security Network (1)- OGSN Forum

## Continuing dissemination of information on oil and gas security through forums and Newsletter

- **Seven OGSN Forums** have been held since 2015 as follows.
  - 1) OGSN Forum in Kitakyushu in April 2015
  - 2) OGSN Forum in Kagoshima in March 2016
  - 3) OGSN Forum in Irkutsk in June 2017
  - 4) OGSN Forum in Tokyo in March 2018
  - 5) OGSN Forum in Sendai in April 2019
  - 6) OGSN Forum (held online due to COVID-19) in April 2023
  - 7) OGSN Forum in Osaka in March 2024
- Members consist of government staff and officials in APEC who are mainly in charge of the oil and gas policies.
- The forum has consisted of presentations and discussions on the oil and gas security measures of APEC members.
- Results of **OGSE** are also presented.



# Oil and Gas Security Network (2)- OGS Newsletter

**December 2014**

(**Issues No 1-32**, in collaboration with IEEJ)



**April 2020** (**Issue No 33**, APERC independence, writers are solely APERC researchers)



**December 2024**

(**Issue No 61**, latest issuance)



**February 2025**

(**Issue No 62**, ongoing)

## Covering various topics

Oil or gas supply security of APEC member economies

OGSS reports; Outlook results; APEC Fossil Fuel Reports

Outcome of events (OGSF/EGCFE, APERC Annual Conference, etc)

Energy transition, net-zero, decarbonisation

COVID-19; Hydrogen; CCS; Oil and gas prices

## Interview with the Expert

Oil and Gas security experts

Government officials in APEC member economies

APERC Board of Trustees

Academe; Economists, Research Fellows, OGS advisors, etc.

➤ **OGS Newsletters** are sent to the *EWG members, OGSE experts, OGS Forum experts and participants, as well as within APERC (researchers, Advisory Board members, the Board of Trustees).*



# Oil and Gas Security Studies (OGSS) (1)

- Started in **2015**; **Series 1-17** were in collaboration with IEEJ.
- **OGSS 18** – after APERC independence, studies were conducted and written by APERC researchers.
- **19 OGS Studies** since 2015 were published on the [APERC website](#), and these were as follows:

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No. 1 Oil Supply Security and Emergency Policy in APEC Region

No. 2 The Impact on Oil Distribution by the Great East Japan Earthquake, and Future Issues and Countermeasures

No. 3 The Energy Reform in Mexico: Implications for the Asia-Pacific Region

No. 4 Prospects and Compromise Points of the Arab Spring Impact on Energy Security in the Asia-Pacific Region

No. 5 Petroleum Product Trading and Security

No. 6 Melting of the Arctic Sea Ice Significance for the APEC Economies' Energy Security

No. 7 Plans for Fuel Supplies during Disasters in Expectation of Nankai Megathrust Earthquakes

No. 8 Oil and Gas Security Indexation

No. 9 Superiority of LPG A Disaster-Resistant Energy Source

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# Oil and Gas Security Studies (OGSS) (2)

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No. 10 Impact of Low Oil Price on Energy Security

No. 11 Natural Gas Security in APEC

No. 12 Investments in Natural Gas Supply Chain Under the Low-Price Environment

No. 13 Oil and Gas Security Indexation 2017 Update

No. 14 Energy Security of APEC Economies and Changing Downstream Oil Environment

No. 15 Small-scale LNG in Asia Pacific

No. 16 Emerging Energy Security Risks in Changing Global Energy Landscape

No. 17 Changing LNG Market Dynamics – Implications for Supply Security in the APEC Region

No. 18 The Impact of COVID-19 on Oil and Gas Security

No. 19 Oil and Gas Security During the Energy Transition



# Oil and Gas Security Studies (OGSS) (3)

- The final report of the **20<sup>th</sup> OGSS** (***What are the Energy Security Implications of Recent Declines in Both APEC and Global Spare Petroleum Refining Capacity?***) was presented at the EWG 68 meeting and is planned to be published on the APEC and APERC websites in the 1Q 2025.
- The **21<sup>st</sup> OGSS** study themed “***The Energy Security Implications of Declining LNG Investment***” is currently being carried out. The key issues and preliminary findings of the study will be presented during the upcoming **8<sup>th</sup> OGSN Forum** in Hong Kong, China on 8 April 2025.
- The topic on “***The Implications of Underinvestment in Upstream Oil Sector Chain to Oil Supply Security of APEC***” will be considered for the **22<sup>nd</sup> OGSS**.

➤ *Topics suggestions are discussed in the OGSN Forum and approved at EGCFE.*



**Thank you.**

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