



**Asia-Pacific
Economic Cooperation**

2013/EWG46/022

Agenda Item: 13d

Methane Hydrates – Development Report

Purpose: Information

Submitted by: Japan



**46th Energy Working Group Meeting
Da Nang, Viet Nam
18–21 November 2013**

1. Deep Methane Hydrate

1. Offshore Production Test

- From March 12-18, 2013
- World's first experiment of methane hydrate gas production in a sea area using the depressurization method
- Total output: 120,000 cubic meters
Ave. daily output: 20,000 cubic meters

2. Future plans

- Improve technologies for commercialization by 2018



{ Flare from offshore production test }

3. Cooperation with Other Countries

- US: Signed Statement of Intent in 2008. Have continued cooperation including an on-shore production test.
- India: Announced Joint Statement of cooperation in Sep, 2013.

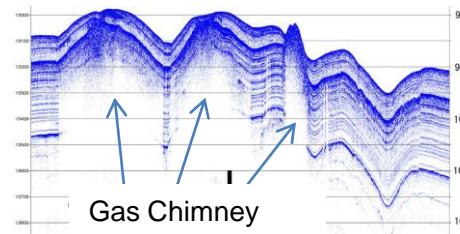
2. Shallow Methane Hydrate

1. Actions to understand resource reserves

- Shallow methane hydrates mainly exists in the Sea of Japan side
- Will conduct research starting in 2013 to 2016 in order to understand the resource reserve
- Conducted geological research in 2013 and discovered 225 areas where gas chimneys may exist. Currently, analyzing data

2. Future Plans

- Conduct detailed and wide-area geological research and also gather shallow methane hydrate samples in 2014



{ Example of cross-section diagram of the sea bed }

