

## **Appendix Summary of the Workshops**

### **1st workshop (4 February 2016)**

Attendees:

- Mr Shigeru Kimura (Chair): Special Advisor to Executive Director on Energy Affairs, ERIA
- Dr Tetsuo Morikawa, Gas Group Manager, IEEJ
- Mr Siddharth Singh: Area Convenor and Research Associate, TERI
- Dr Han Phoumin: Energy Economist, ERIA
- Mr Rafiqan Ghani: Fleet Operations & Technical Services, Petronas LNG
- Dr Gusti Suarnaya Sidemen: Deputy Director for Technical and Environmental Regulation and Compliance, Ministry of Energy and Mineral Resources
- Dr Shao-Yuan Wu: National Institute for South China Sea Studies
- Mr Siri Jirapongphan, Executive Director, Petroleum Institute of Thailand

#### **Session 1: Introduction:**

Dr Morikawa and Dr Singh outlined the scope of the study.

#### **Session 1: Presentation by members**

Dr Sidemen and Mr Ghani presented sea lane security issues in Indonesia and Malaysia, respectively. Dr Sidemen detailed existing measures like navigation aids, emergency response schemes, and regional cooperation. Mr Ghani outlined Malaysian authorities in relation to sea lane security and introduced his own experiences of sea lane passage as an LNG tanker captain.

#### **Session 2: Presentation by members**

Dr Wu presented China's stance on sea lane security mainly in the South China Sea. He identified environmental issues (oil leakage, explosion, and GHG emissions) and terrorism and piracy are the challenges for sea lane security, and suggested cooperation through China's Maritime Safety Authority. Dr Jirapongphan's presentation was distributed by ERIA to the participants due to his absence.

#### **Session 3: Discussion and way forward**

Participants agreed on the report contents and division of roles.

## **2nd Workshop (10 May 2016)**

### **Attendees:**

- Mr Shigeru Kimura (Chair): Special Advisor to Executive Director on Energy Affairs, ERIA
- Dr Tetsuo Morikawa, Gas Group Manager, IEEJ
- Mr Siddharth Singh: Area Convenor and Research Associate, TERI
- Dr Han Phoumin: Energy Economist, ERIA
- Dr Gusti Suarnaya Sidemen: Deputy Director for Technical and Environmental Regulation and Compliance, Ministry of Energy and Mineral Resources
- Dr Shao-Yuan Wu: National Institute for South China Sea Studies
- Dr Siri Jirapongphan, Executive Director, Petroleum Institute of Thailand

**The objectives of the meeting were to** 1) critically review chapter submissions, 2) discuss integration of full report, and 3) discuss report dissemination strategies.

### **Session 1: Briefing of draft final results of oil and LNG trade flow in 2040 by IEEJ**

Mr Kimura delivered the opening remarks, followed by a presentation by Dr Morikawa on the findings highlighted in the first chapter. The discussion that followed focused on standardisation of units and related issues.

### **Session 2: Presentation of Thailand's country strategy**

Mr Jirapongphan presented Thailand's concerns over sea lane risks and their country strategy to mitigate risks. The development of alternate channels of navigation and the diversification of energy infrastructure was discussed. It was decided that specific measures will be highlighted in the final chapter draft.

### **Session 3: Briefing of draft final results of risk analysis of sea lane security of oil and LNG**

Mr Singh presented the chapter on sea lane risks and discussed risk mitigation measures. This was followed by a discussion on the inclusion of Western Indian Ocean into the report. Further, a discussion was had on quantitative risk assessment of sea lane security. It was eventually decided that while Western Indian Ocean will be included, quantitative assessment will be dropped for the purpose of this report.

### **Session 4: Presentation of Indonesia's and China's country strategy**

Mr Sidemen and Dr Shao-Yuan Wu presented the country strategies to mitigate sea lane risks for Indonesia and China, respectively.

### **Session 5: Roundtable Discussion on 'Risk Mitigation Strategies'**

Working group participants discussed risk mitigation strategies and the structure of the report. It was decided that there would be a separate chapter listing risk mitigation strategies followed by country specific strategies.

