

APEC Energy Working Group A short Introduction

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APEC Energy Working Group (EWG)



Launched in 1990, the EWG helps further APEC goals to facilitate energy-related-trade and investment and seeks to maximize the energy sector's contribution to the region's economic and social well-being, while mitigating the environmental effects of energy supply and use.

The EWG meets formally twice a year to discuss developments and progress on energy policy issues; 54 meetings to date.

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EWG and sub-fora

- Expert Group on Clean Fossil Energy (EGCFE)
- Expert Group on Energy Efficiency & Conservation (EGEEC)
- Expert Group on Energy Data & Analysis (EGEDA)
- Expert Group on New & Renewable Energy Technologies (EGNRET)
 - Low-Carbon Model Town Task Force (LCMT TF) (2010-)
 - Energy Resiliency Task Force (ERTF) (2015-)
 - Biofuels Task Force (BTF) (2005-2011)
 - Energy Trade and Investment Task Force (ETITF) (2009-2013)
- **Supported by two research bodies**
 - Asia Pacific Energy Research Centre (APEREC) (1996-)
 - Asia Pacific Sustainable Energy Center (APSEC) (2015-)

Key Policy Goals and Initiatives/Activities

- Energy Intensity Reduction 45 % by 2035
- Renewable Energy Doubling by 2030
- Reform of Inefficient Fossil Fuel Subsidy
- Energy Security Initiative
 - Oil & Gas Security Initiative
 - Energy Resilience and Modernisation of Infrastructure
- Energy Smart Communities Initiative
 - Low Carbon Model Town
 - Knowledge Sharing Platform
- Green Energy Finance Initiative, LNG Trade Facilitation Initiative,...

42 projects on going in 2018

- Reducing Energy Intensity Goal: 8 projects
- Renewable Energy Doubling Goal: 9 projects
- Community-base low carbon development: 4 projects
- Improving energy resiliency: 2 projects
- Improving oil & gas security: 2 project
- Clean use of fossil fuels: 5 projects
- Promoting energy trade & investment: 5 project
- Planning for longer-term energy future & Others: 7 projects

Peer Reviews

- Peer Review on Energy Efficiency (PREE)
- Peer Review on Low Carbon Energy (PRLCE)
- Peer Review on Fossil Fuel Subsidy Reform
- Peer Review on Efficient Power (PREP)

APEC Energy Security Initiative

Five Measures, Endorsed by Leaders in 2002

- Real-Time Energy Information Sharing
- Joint Oil Data Initiative
- Sea-lane Security
- Emergence Response of Oil Supply
- Non-oil & Longer-term Measures

Longer-term Measures added in 2004

- Energy Investment; Natural Gas Trade; Energy Efficiency; Renewable Energy; Clean Fossil Energy; Hydrogen and Alternative Transportation Fuels; Methane Hydrates; Nuclear Energy; Petroleum infrastructure/Crude oil and refined products

Top 10 Net importers in 2015/16 (provisional)

Oil	Mt	Coal	Mt	Natural gas	bcm
US	348	PR China	247	Japan	116
PR China	333	India	199	Germany	79
India	203	Japan	189	PR China	69
Japan	165	Korea	134	Italy	65
Korea	139	Chinese Taipei	66	Turkey	46
Germany	91	Germany	53	Korea	44
Italy	67	Turkey	36	Mexico	43
Spain	65	Malaysia	29	France	43
Netherlands	59	Thailand	23	UK	38
France	57	Brazil	20	Spain	28

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Source: Key World Energy Statistics 2017, IEA

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Oil and Gas Security Initiative

Objective

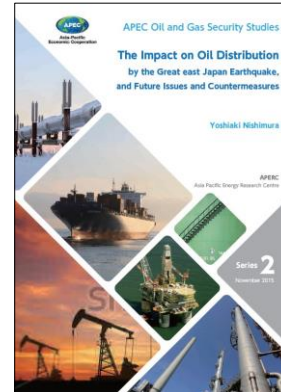
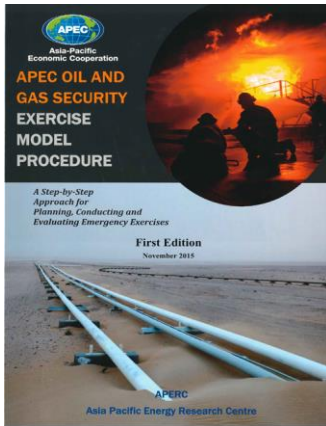
OGSI is to improve oil and gas security in APEC region by carrying out security exercises, accelerating information sharing and transmission, and conducting research on issues that have impact on regional oil and gas security.

Achievement

- ✓ Oil and Gas Security Exercise
 - Establish "Oil and Gas Security Exercise Model Procedure (EMP)".
 - Voluntary exercises have been taken place in 5 economies since 2015, including Thailand, Indonesia, the Philippines, Australia, and Peru.
- ✓ Oil and Gas Security Network
 - 3 OGSN Forums have been held (Kitakyushu, Kagoshima, Irkutsk)
 - Bi-monthly OGS Newsletters have been sent to member economies' officials
- ✓ Oil and Gas Security Studies
 - 6 studies were already published; 2 studies are underway

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Energy Smart Community Initiative (ESCI)

- Launched in November 2010 by the U.S. and Japan
- Contributed greatly to the advancement of green growth, and APEC's energy intensity and RE doubling goal.



Knowledge Sharing Platform esci-ksp.org

- ✓ Web-based tool collecting more than 600 projects to facilitate best practices sharing in energy smart fields, including smart transportation, smart building, smart grid and smart jobs.
- ✓ 3 **ESCI Best Practices Awards Programs** have been held.



Low Carbon Model Town

- ✓ **Feasibility studies** on 6 APEC cities with different characteristics completed: Tianjin (China), Samui Island (Thailand), Da Nang (Viet Nam), San Borja (Peru), Bitung (Indonesia), Mandaue (The Philippines)

In the past, several PPSTI projects had energy linkages

- PPSTI 02 2017A: APEC Research Center for Advanced Biohydrogen Technology (ACABT) – Smart Power Management for Self-Sustained Green Community in the APEC Region
- PPSTI 03 2017A: Policy Dialogue on Fuel Economy Platform
- PPSTI 02 2015A: Regional Workshop on Measurement Challenges in Renewable Energy and Climate
- PPSTI 07 2013A: Development of Bioenergy Crops as Renewable Energy Sources for APEC Economies
- IST 02 2012A: APEC Smart City Industrial Technology Cooperation Forum
- IST 05 2012A: APEC New and Renewable Energy Technology Development and Application Forum

Innovation Technology and Policy Dialogue on APEC Renewable Energy Market Connectivity

Sub-Fund. Innovative Development, Economic Reform and Growth (IERG); Forum: PPSTI, co-endorsed by EWG (TBD); Proposed by People's Republic of China

To meet Leaders' Goal on doubling the share of renewables in the APEC energy mix by 2030, this project aims to enlarge the market share of renewable energies (RE) in member economies' energy supplying structure through network building of innovation.

Seminar 1 will be held in late 2018 in China, focusing on technology and policy case regarding RE technologies marketization experience.

Seminar 2 will be held in mid-2019 in Chile, **in conjunction with PPSTI or EWG meeting**, focusing on the mechanism of cooperation on RE technologies application, to help developing economies on capacity building, e.g. RE technologies option, project investment and policy recommendation.

