



**27th WORLD GAS  
CONFERENCE**

**WASHINGTON DC**

**JUNE 25-29 2018**

# Triennial Work Program The USA IGU Triennium June 2015 – June 2018

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Proposed Triennial Work Program

Working Committee -1 & Program Committee - A

Novy Urengoy

3-6 February 2015

# Fueling the Future

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# The Areas of Strategic Importance for the USA Triennium

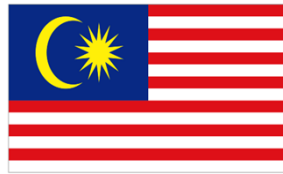
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All work activities must support one of the three areas of Strategic Importance for the USA Triennium:

- **ACCESS** – development of supply, removal of barriers towards infrastructure development
- **MARKETS**- increasing opportunities to grow demand, integration of gas with other forms of energy, removal of market barriers
- **SOCIAL LICENSE** –improvement to safety and reliability, reduction of the environmental impact, driving higher energy efficiency, improving community engagement

# IGU Committees for the USA Triennium

★ **Exploration and Production Committee**  
(WOC-1)  
Mr. M Redhani B A Rahman  
PETRONAS  
Malaysia



**Gas Storage Committee**  
(WOC-2)  
Mr. Nikita Barsuk  
JSC GAZPROM  
Russia



**Gas Transmission Committee** (WOC-3)  
Mr. Martin Slaby  
NET4GAS  
Czech Republic



**Distribution Committee**  
(WOC-4)  
José M. Almacellas  
González  
GAS NATURAL FENOSA  
Spain



**Utilisation Committee**  
(WOC-5)  
Mohammad Reza  
Ghodsizabeh  
National Iranian Gas Co.  
(NIGC) Iran



# IGU Committees for the USA Triennium



## **Sustainability Committee (PGC-A)**

Ms. Gabriela Roselló  
TOTAL AUSTRAL S.A.  
Argentina



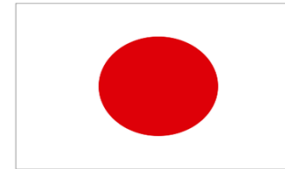
## **Strategy Committee (PGC-B)**

Mr. Ulco Vermeulen  
GASUNIE  
Netherlands



## **Gas Markets Committee (PGC-C)**

Mr. Sid-Ahmed Hamdani  
SONATRACH  
Algeria



## **LNG Committee (PGC-D)**

Mr. Masanori Oki  
OSAKA GAS CO., LTD.  
Japan



## **Marketing and Communications Committee (PGC-E)**

Ms. Barbara Jinks  
AUSTRALIAN GAS  
INDUSTRY TRUST  
Australia



## **R&D and Innovation Committee (PGC-F)**

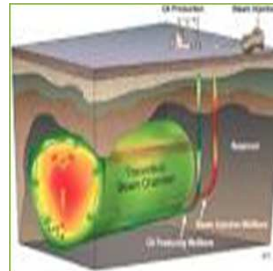
Dr. Gerald Linke  
E.ON NEW BUILD &  
TECHNOLOGY GMBH  
Germany



# Recap on Current Working Committee -1

## WOC 1 : EXPLORATION AND PRODUCTION OF NATURAL GAS

WOC 1 focused on the assessment of conventional and unconventional resources, on key technologies for the exploration and production of natural gas and on new policies and fiscal regulations for upstream business



Technological Advances in E&P of Natural Gas

SG 1.1

Natural Gas Available Everywhere: Assessment of Global Gas Resources and Reserves

SG 1.2



Fiscal Regimes for the Production of Conventional and Unconventional Gas

SG 1.3



# Proposed Scope for WOC-1 in USA Triennium

## WOC-1 Exploration & Production of Natural Gas

**WOC-1 will focus on the exploration & production of conventional and unconventional gas resources, leveraging on the latest technological advances and challenges in accessing the resources. The committee will also investigate on the next big thing in exploration & exploitation of natural gas.**

Conventional  
Resources of  
Natural Gas

*SG Leader:*  
*Ekaterina Litvinova*  
*Gazprom*

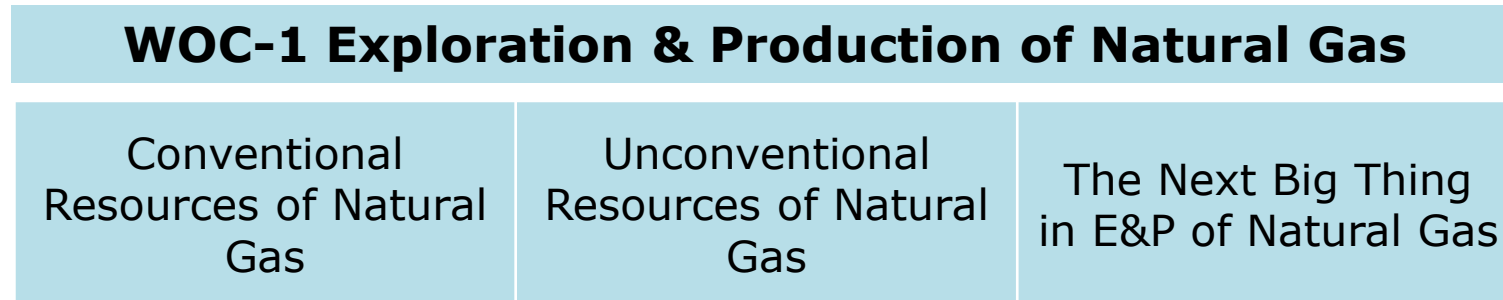
Unconventional  
Resources of  
Natural Gas

*SG Leader:*  
*Andres Weissfeld*

The Next Big Thing  
in E&P of Natural  
Gas

*SG Leader:*  
*Lenny Marlina Omar*  
*Petronas*

# Areas of Strategic Importance cut across the scope for WOC-1



← Areas of Strategic Importance →



← Geopolitical, Technology Advances, Fiscal Frameworks, Challenges and Best Practices →



# Proposed 1<sup>st</sup> Meeting of WOC-1 (USA Triennium)

**SEPTEMBER 2015 : KOTA KINABALU, SABAH**



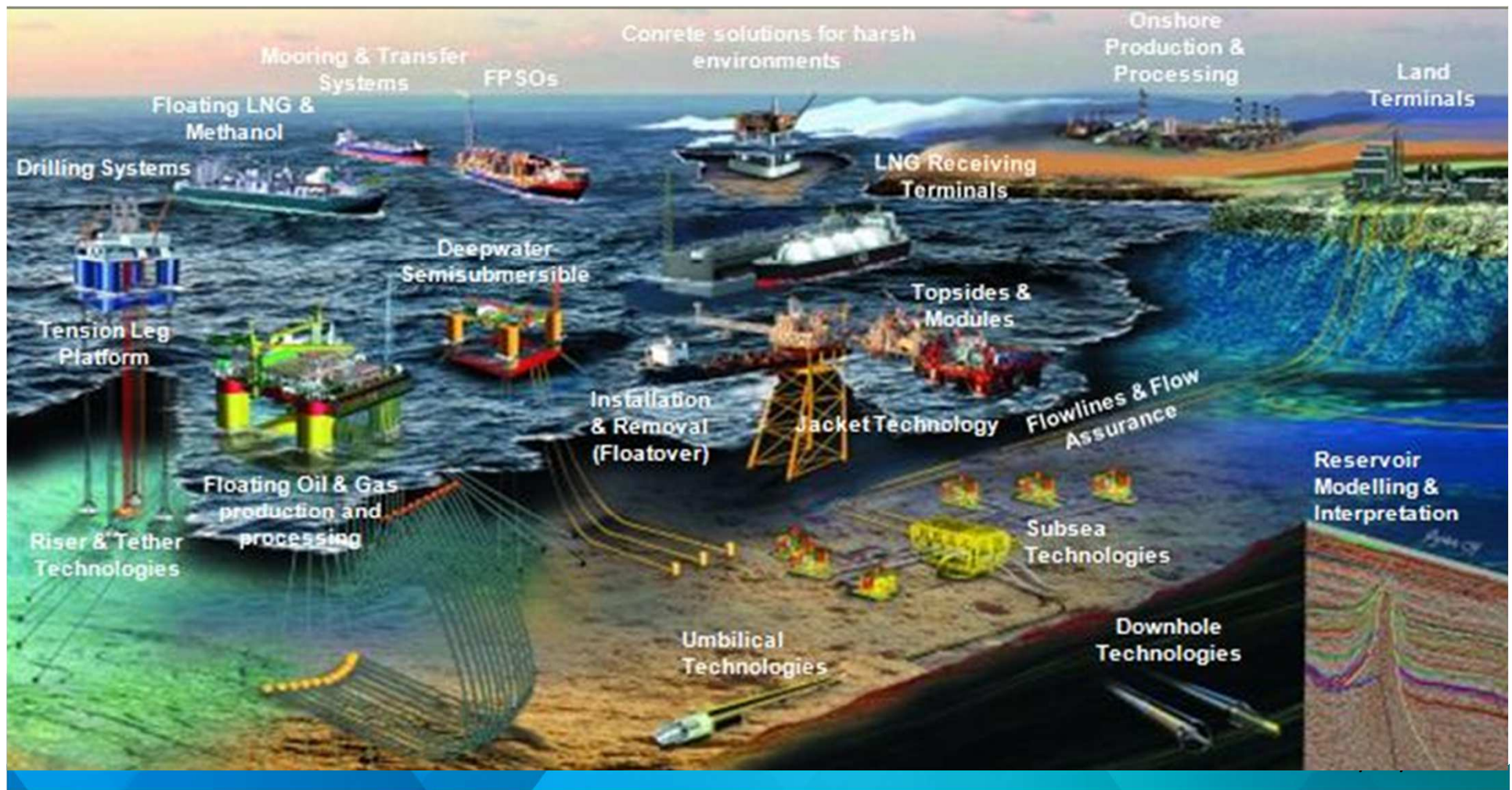
**Proposed Joint  
Committee Meeting  
with PGC-A**

# Exploration & Production of Natural Gas

Conventional Resources

Unconventional Resources

What's Next?





# Contacts for WOC-1

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- WOC-1 Chairman:
  - Redhani Rahman
  - mdredha@petronas.com.my
  
- WOC-1 Secretary:
  - Xaxa Zulkifli
  - im\_xaxanuhani@petronas.com.my
  
- A mailing list will be created once members have been confirmed and discussions can take place through emails as necessary

# Next Triennium: Proposal on Scope & Deliverables for Working Committee-1

Scope	Study Group 1.1 Conventional Resources of Natural Gas	Study Group 1.2 Unconventional Resources of Natural Gas	Study Group 1.3 The Next Big Thing in E&P of Natural Gas
Above-ground: Access/ Geopolitical/ Fiscal Framework	<ul style="list-style-type: none"> <li>• Harsh environment - Arctic</li> <li>• New Play types – Tight Reservoir, Ultra Deep Exploration</li> <li>• Fiscal/ Non-fiscal framework</li> </ul>	<ul style="list-style-type: none"> <li>• Potential development of shale oil and gas outside North America</li> <li>• Fiscal/ Non-fiscal framework</li> </ul>	<ul style="list-style-type: none"> <li>• Brand New Opportunities</li> <li>• Eg: US Atlantic Coast, Unconventional Offshore – Methane Hydrates</li> </ul>
Technological Advances	<ul style="list-style-type: none"> <li>• Elaborating on recent advances of technologies in the value chain (E-D-P-M), across play types and geography</li> <li>• Recent technologies on Seismis, Drilling, Monetization Technologies – GTL, FLNG, CNG etc</li> </ul>	<ul style="list-style-type: none"> <li>• Technological advances in unconventional technology dispels environmental activism</li> </ul>	<ul style="list-style-type: none"> <li>• More automation, less manpower intensive operations on Natural Gas E&amp;P:</li> <li>• Eg:               <ul style="list-style-type: none"> <li>• Super Material</li> <li>• Digital field Concept (integrated information stream)</li> <li>• Smart Platforms (optimizing energy consumption via alternative sources e.g. wind, tidal or solar)</li> </ul> </li> <li>• Methane hydrates becomes the new unconventional resource</li> </ul>
Challenges & Lesson Learnt	Case Studies & Best Practices (CSR, Publicity)		



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