

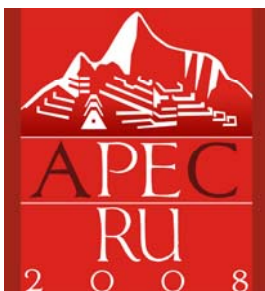


**Asia-Pacific
Economic Cooperation**

2008/SOM3/SCSC/CONF/034

**International Standardization for the Petroleum and
Natural Gas Industry Possible Cooperation of APEC
Members with OGP/SC and ISO/TC-67**

Submitted by: International Association of Oil & Gas Producers (OGP)



**7th Conference on Standards and Conformance
Cusco, Peru
10-11 August 2008**

APEC/SCSC
**7th CONFERENCE ON STANDARDS AND
CONFORMANCE**

Peru - Cusco, 10 to 11 August 2008

International Standardization for the Petroleum and Natural Gas
Industry
Possible Cooperation of APEC Members with OGP/SC and ISO/TC-67

ENG. WILSON BARBOSA de OLIVEIRA
Petrobras - Brazil
Corporate Technical Standardization Manager

OGP Standards Committee
Vice-Chairman

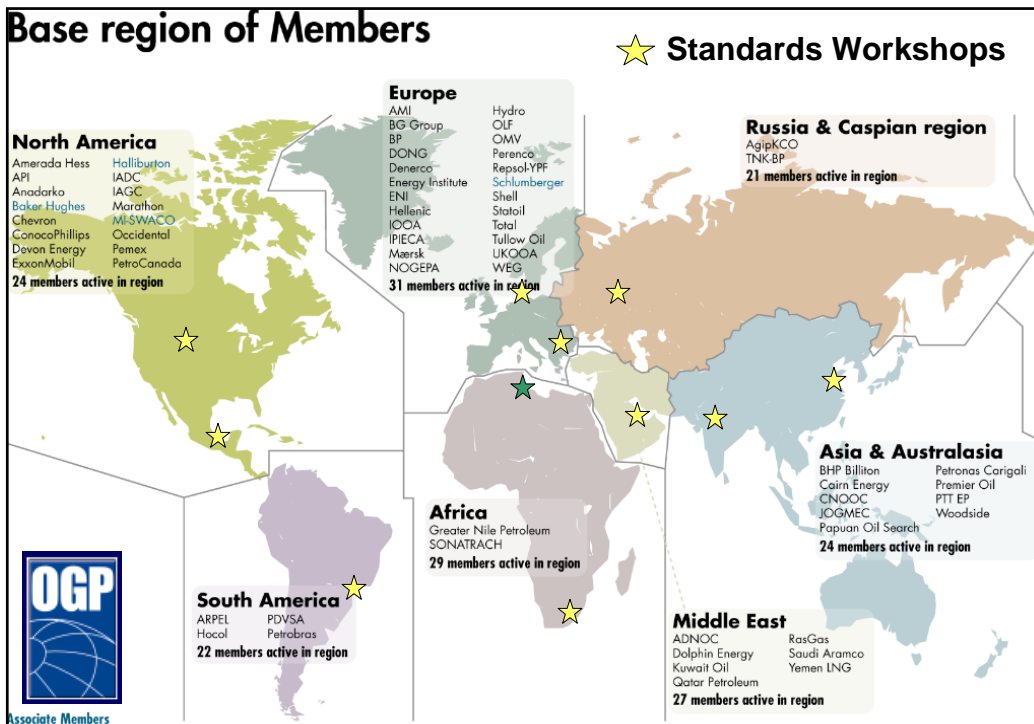
ISO/TC-67
Brazil Representative



WHAT IS OGP?

- Formed in 1974 to develop effective communication between the upstream industry and international regulators
- Members
 - National & regional associations
 - Publicly traded, private & state oil & gas companies
 - Major service companies
- Members produce more than half of the world's oil and about one third of its gas
- Offices in London and Brussels





OGP VISION

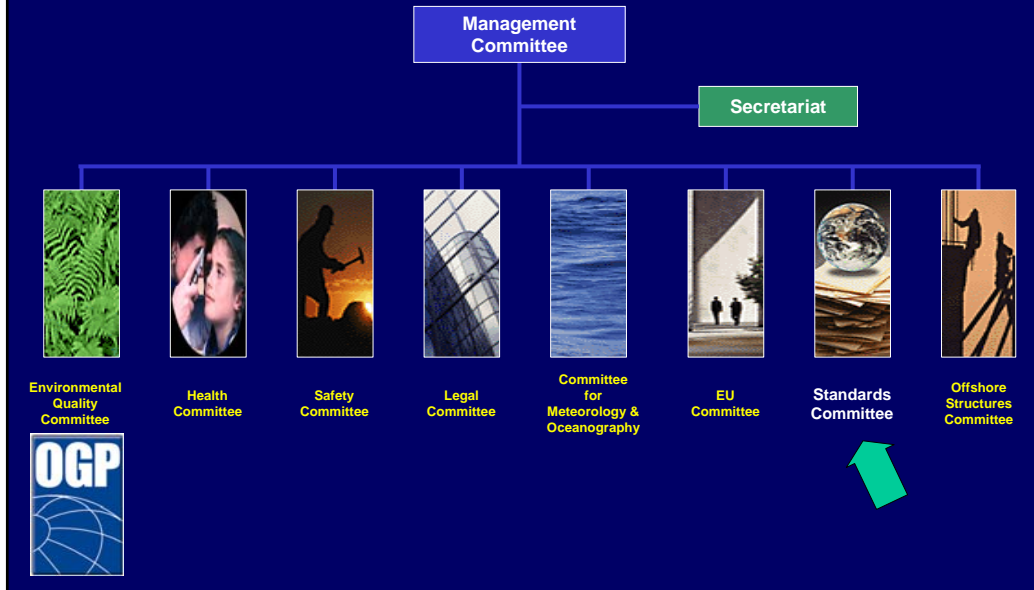
To work on behalf of all the world's upstream companies to promote responsible and profitable operations

OGP MISSION

- To represent the interests of the upstream industry to international regulatory and legislative bodies
- To achieve continuous improvement in safety, health and environmental performance and in the engineering and operation of upstream ventures
- To promote awareness of Corporate Social Responsibility within the industry and among stakeholders



OGP ORGANIZATION



GLOBAL EXPERIENCE

- OGP has access to a wealth of technical knowledge and experience with its members operating around the world in many different terrains.
- OGP collate and distil this valuable knowledge into a range of reports and guidelines. Some for general use while others are restricted to OGP members.



OGP STANDARDS COMMITTEE MEMBERSHIP

OGP
SC
meets
twice
a year.
Met
30 Jul
2008



MEMBERS ¹⁾	COMPANY	COUNTRY	OTHER FUNCTIONS
Wilson Barbosa de Oliveira	Petrobras	Brazil	OGP/SC Vice-Chair
Anatoly Baryshnikov	Eni	Italy	CEN/TC12 AH8 Chair
Gail Baxter	Marathon	USA	
Felicia Decusara	Petrom	Romania	
Alf Reidar Johansen	OGP/SC	Norway	OGP/SC Manager
Joachim G. Koenig	OMV	Austria	
Tom Kelleher	Petro-Canada	Canada	
Alain Loppinet	CEN	France	CEN/TC12 Chair
Martin Maeso	Energy Institute	UK	
David Miller	API	USA	API Std. Progr. Dir.
Saif S Al Naimi ³⁾	Qatar Petroleum	Qatar	
Abdullah Humaid ⁴⁾	Saudi Aramco	Saudi Arabia	
Manuel Paga Castellanos	RepsolYPF	Spain	
Terry Qin ²⁾	CPSC	China	
Neil Reeve	Shell	Netherlands	IFAN President, OGP/SC Chair, ISO/TC67 Interim Chair
Daniel Rioche	Total	France	
Trevor Vyze	ISO	Switzerland	Technical Group Mgr.
Ross Smith	BP	USA	
Mike Swidzinski	ConocoPhillips	UK	
Richard Torgersen	ExxonMobil	USA	
Mirmohamad Rouzbeh	Petropars	Iran	

Notes: 1) Plus corresponding members from: BG, Chevron, Mærsk and Premier. Alternates:
2) Du Delin & Xiaohong Chen, CPSC 3) Muayad Ajjawi, 4) Fathi Abughaban

OIL & GAS STANDARDS HISTORY

- Historically, the American organisations API, ANSI, ASME, ASTM & AWS etc. developed the standards frequently used by the upstream world wide oil & gas industry.
- North Sea operating companies developed lots of in-house and project specifications to fit their needs not covered by the American standards.
- Growing EU interest for developing European upstream standards emerged in view of EU's "new approach" for technical standards to support the general safety requirements in the EU directives.

– A change in developing oil & gas standards & specifications was required



ISO INITIATIVE & OGP SUPPORT

- OGP supported the ISO initiative in 1987 to reactivate ISO / TC67 (created in 1947) to develop ISO standards for the upstream – the petroleum & natural gas industry
- This created a **global arena** for standards development, where all ISO members and nations concerned have a role to play
- ANSI, USA were offered and accepted responsibility for the ISO / TC67 secretariat
- First meeting of the revived ISO/TC 67 in Paris 1989
- A new era in the global upstream industry standardisation had started





Standards Bulletin

International Association of Oil & Gas Producers

EXECUTIVE SUMMARY

A set of international standards for a wide selection of vital oil and gas industry materials, equipment and offshore structures is emerging from the International Standards Organization (ISO). The response to ISO TC 67 (ISO/TC 67) is using a more than 100 experts international ISO TC 67 issued, increasing the number of new publications in 2006. A further 16 are planned for publication this year. This

GULF STATE COMPANIES FOCUS ON ISO STANDARDS

Qatar Petroleum organised, under the patronage of H.E. Abdullah Bin Hamad the Minister of Industry – and an international workshop in April 2006 in Doha. The workshop was to focus on standardisation for and increase the awareness of oil & gas companies and organisations in the region. It is the first time a standards workshop had been held in this area. The number of workshop delegates



<http://info.ogp.org.uk/standards/>



Catalogue of international standards used in the petroleum and natural gas industries

Report No. 342
January 2006

OGP STANDARDS COMMITTEE BUSINESS PLAN 2008

- Support development of ISO/IEC standards
- Progress development of OGP member identified standards
- Support work of Instrument & Materials groups
- Produce 2008 Standards Bulletin
- Hold technical workshops
- Better understanding of Regulators` use of standards
- Identify and address barriers to adoption of standards
- Benchmark OGP members work with the production and use of standards.



OGP/SC BUSINESS PLAN 2008 cont.

- **Key publications:**
 - Contribute to publication of 19 targeted ISO/TC67 standards
 - Report on regulatory use of international standards
 - 2008 Standards Bulletin
- **2008 Workshops:**
 - Provisionally planned for Western Europe & Beijing
 - Potential workshop on to discuss harmonisation and development of coating standards
- **Proposed budget:**
 - Roll Technical editing JIP into OGP mainstream
 - £35.000 for consultancy services



ISO STANDARDS FOR THE OIL AND GAS INDUSTRY

HOW IT WORKS!



ISO ORGANIZATION

- Consensus-based
- Market driven
- Technically current
- Internationally expertise
- Voluntary, not mandated
- Meet requirements of WTO Technical Barriers to Trade

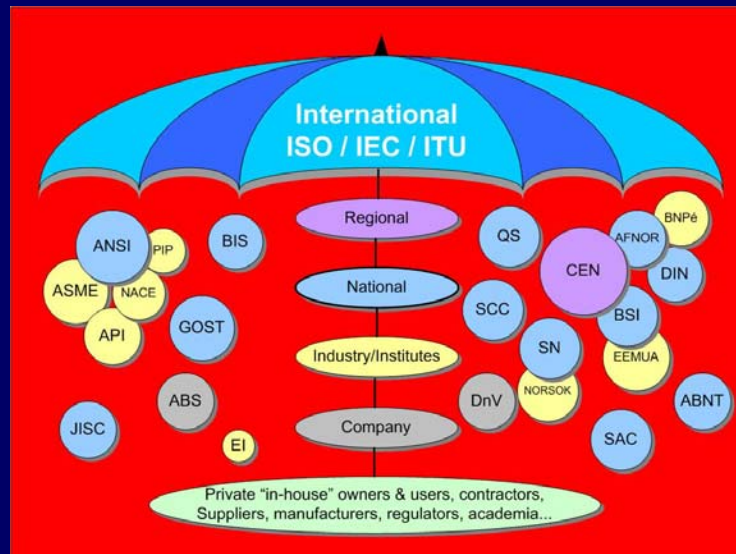


ISO ORGANIZATION cont.

- “One country, one vote”
- Equal footing for all countries
- Right to join any technical committee or policy committee of commercial/technical interest
- Voting rights on all standards
- Access to global community of technical experts



ISO, IEC and ITU ORGANIZATION



ISO FOR OIL AND GAS INDUSTRY

ISO technical committees cover many 'energy' and related sectors including:

- TC 27 – Coal
- TC 28 – Petroleum Products
- TC 67 – Materials, Equipment & Offshore Structures for the PPNGI
- TC 85 – Nuclear Energy
- TC 180 – Solar Energy
- TC 193 – Natural Gas
- TC 197 – Hydrogen Energy
- TC 203 – Technical Energy Systems (Basic Concepts)



ISO/TC-67 – MATERIALS, EQUIPMENTS and OFFSHORE STRUCTURES for PETROLEUM, PETROCHEMICAL and NATURAL GAS INDUSTRIES

- Secretariat – API on behalf of ANSI
- Created – 1947, and reactivated 1987
- Scope: Standardization of the materials, equipment and offshore structures used in drilling, production, transport by pipelines and processing of liquid and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries.
- Excluded: aspects of offshore structures subject to IMO regulations (TC8 – “Ships and Marine Technology”)
- Participating countries – 28
- Observing countries – 28
- Standards published - 135







ISO/TC-67

- **MISSION**
To create value-added standards for the oil and natural gas Industries
- **VISION**
Global standards used locally worldwide



VISION OF GLOBAL STANDARDS

API Adopt back of ISO 13706, as ANSI/API 661	European Standard (adoption of ISO 13706 via Vienna Agreement)
<p>Air-Cooled Heat Exchangers for General Refinery Service</p> <p>API Standard 661, Fifth Edition March 2002</p> <p>ISO 13706: 2000, Petroleum and Natural Gas Industries—Air-cooled Heat Exchangers</p> <p> American Petroleum Institute "Helping You Get The Job Done Right."</p> <p> </p>	<p>EUROPEAN STANDARDS EN ISO 13706</p> <p>NORME EUROPÉENNE EUROPÄISCHE NORM</p> <p>April 2001</p> <p>ICS 75.160.20</p> <p>English version Petroleum and natural gas industries - Air-cooled heat exchangers (ISO 13706:1999)</p> <p></p> <p>© 2001 CEN. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the publisher.</p>



ISO/TC-67 PARTICIPANTS

- Operators
- Service/supply companies
- Manufacturers
- Government regulators
- Consultants
- Academics
- Experts are nominated by their national standards body to participate in work effort



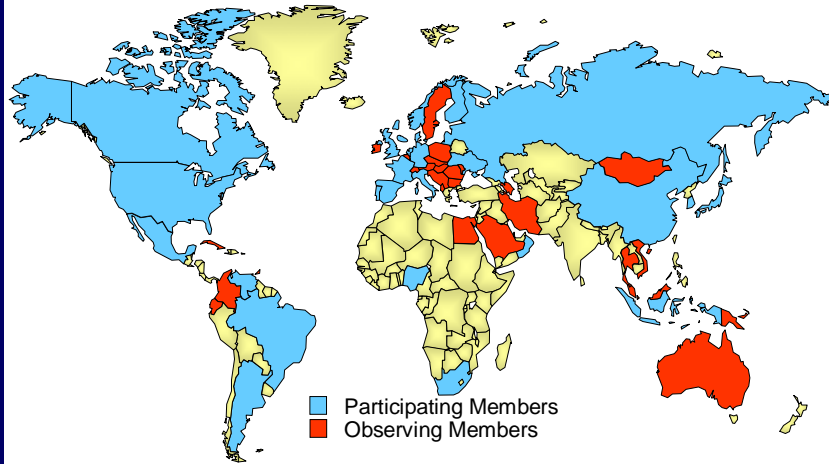
ISO/TC-67 MEMBERS

- **Participating Members = 28**
Argentina, Brazil, Canada, China, Denmark, Finland, France, Germany, Indonesia, Italy, Japan, Kazakhstan, Korea (Republic of), Mexico, Netherlands, Nigeria, Norway, Oman, Portugal, Qatar, Romania, Russian Federation, South Africa, Spain, Ukraine, United Kingdom, United States, Venezuela
- **Observing Members = 28**
Australia, Austria, Azerbaijan, Belgium, Bulgaria, Colombia, Croatia, Cuba, Czech Republic, Ecuador, Egypt, Hong Kong, Hungary, Iran (Islamic Republic), Ireland, Malaysia, Moldova (Republic of), Mongolia, Poland, Saudi Arabia, Serbia, Singapore, Slovakia, Sweden, Switzerland, Thailand, Trinidad and Tobago, Viet Nam

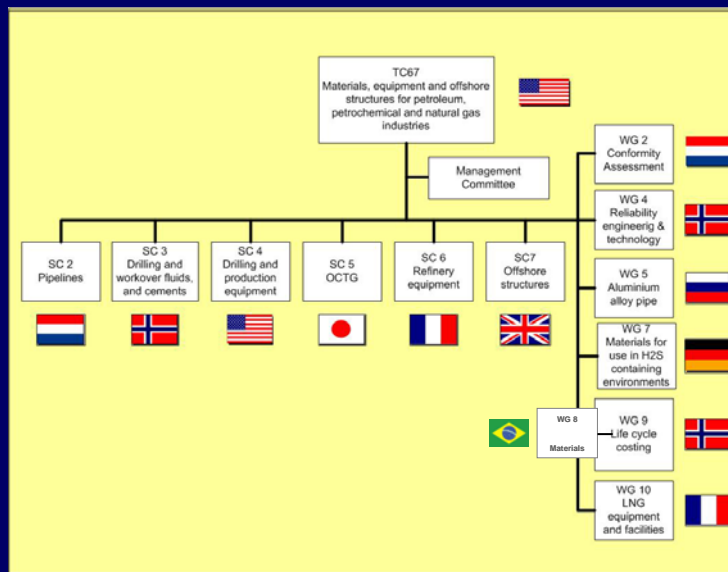


ISO/TC-67 MEMBERSHIP

ISO/TC-67 COUNTRY MEMBERS



ISO/TC-67 SC and WG ORGANIZATION



ISO/TC-67 MANAGEMENT COMMITTEE

- Representative from each “P” country
- Coordinates TC67 activities with ISO CS
- Seeks resources for SC – technical experts, funds, etc.
- Publishes the Business Plan (requirement of ISO Technical Management Board)
- Maintains N435-Policies and Procedures, N654-Management System, and N731-Management Plan
- Accepts TC publication targets, and works toward guiding documents through DIS and FDIS

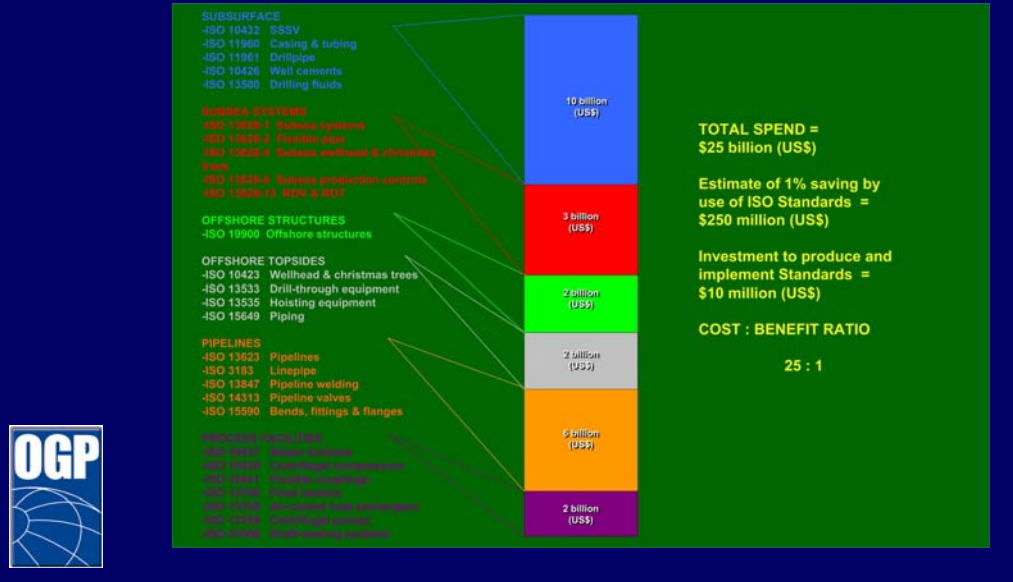


ISO/TC-67 MANAGEMENT COMMITTEE

- Brazil, Canada, China, France, Germany, Italy, Japan, Netherlands, Norway, Qatar, United Kingdom, United States
- Liaisons – OGP, IADC and CEN/TC12



COST SAVINGS OF TOP 30 ISO STANDARDS



HOW TO CO-OPERATE and PARTICIPATE

- **OGP:** Open to national and regional associations, publicly traded, private and state oil & gas companies, major service/supply companies
 - **OGP/SC:** Open to the OGP member companies
 - **OGP/SC Meetings:** Twice a year (usually) in any country involved or other by invitation
 - **ISO/TC-67:** Open to operators, service/supply companies, manufacturers, government regulators, consultants, academics
 - **ISO/TC-67 Plenary:** Annually in any ISO/TC-67 rotates among "P" member countries
2008 – China, Beijing
2009 – Canada, Calgary or Ottawa (tentative)
 - **ISO/TC-67 SC and WG:** Any date, any ISO/TC-67 rotates among member countries – usually in SC or WG member countries
 - **Workshops, Seminars and Conferences:**
 - Usually during the ISO/TC-67 and/or OGP/SC meetings
 - In conjunction with relevant events – local, national, regional, international
 - By invitation
 - Other suggested arrangements
-

KEY NOTES

Join the OGP, ISO and IEC global efforts in International Standards development

&

Capture the value added by **making use of** the new ISO/IEC Standards for the oil & gas industry



Global
Standards
Used Locally
Worldwide



THANK YOU

QUESTIONS?



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INFORMATIONAL

www.iso.org

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www.tc67.net

www.ogp.org.uk

