





ABNT / CB-50 – Materiais, Equipmentos e Estruturas Oceânicas para a indústria de Petróleo e Gás Natural

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Standardisation



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STANDARDS ARE VOLUNTARY AGREEMENTS WHICH ESTABLISH IMPORTANT CRITERIA FOR PRODUCTS, SERVICES AND PROCESSES.

ONIP, IN ORDER TO BETTER ARTICULATE BRAZILIAN STAKEHOLDERS, MADE AN AGREEMENT WITH ABNT AND JOINTLY THEY CREATED CB-50, IN 2002, TO MIRROR ISO TC67 ACTIVITIES.

AIMING COMPETITIVENESS OF BRAZILIAN PETROLEUM SECTOR,

ONIP WANTED TO STIMULATE SUPPLY CHAIN TO EXPORTS.

ONIP - Brazilian National Organization of the Petroleum Industry - Members





ABNT is ISO in Brazil



What is ABNT?

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- ❖ Nonprofit, private entity of public utility, founded in 1940
- ❖ Officially recognized by the Brazilian government as the only national standardization forum (CONMETRO Resolution 7, 24.08.1992)
- Founder member of ISO, COPANT and AMN
- IEC member since ABNT was created
- Signatory of the Code of Good Practices in Standardization from OMC
- Certification Body for products, services, systems and people



ABNT - aims

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- Manage the process of elaboration for Brazilian Standards
- Spread the use and adoption of standards
- Spread the standardization movement in the country
- Represent Brazil in the international and regional standardization forums
- Exchange good practices and information with other forums



ABNT in numbers

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Members

- 1 200

Staff

- 163 employees

Sources of revenue

- 49% sales of publications
- 25% certification
- 18% membership
- 08% others

Head office: Rio de Janeiro

Branch: São Paulo

Sale points:

Brasília

Bahia

Minas Gerais

Paraná

Rio Grande do Sul



Technical Work

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- Technical Committees
 - 160 in activity
- Technical meetings
 - 2722 meetings
 - 29 055 participants
- Published Standards
 - 7 908 Standards in force

- Participation on ISO
 - 344 Technical Committees
 - 234 P-member
 - 110 O-member



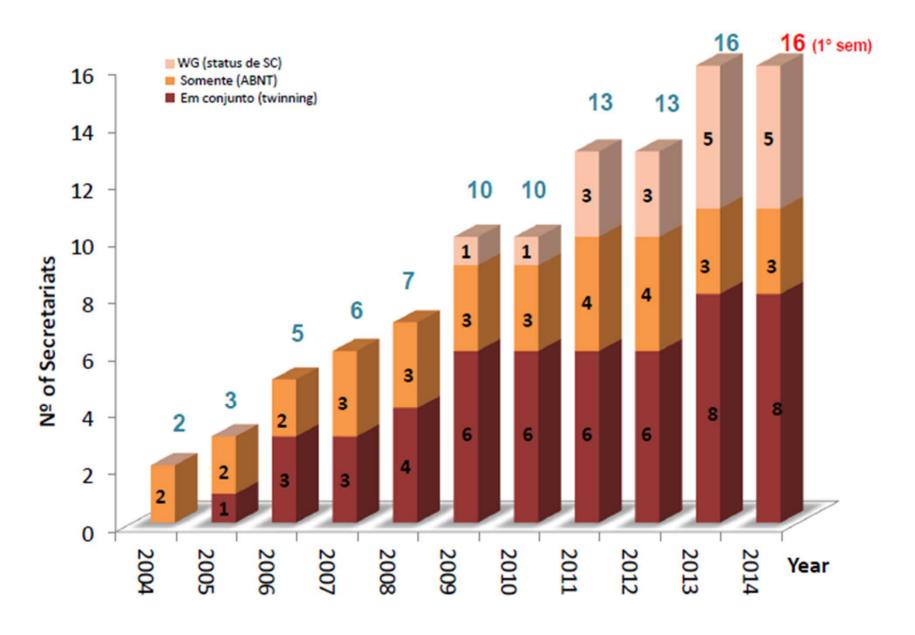


Brazil in ISO

- Participation in ISO TMB (Technical Management Board):
 - □ ABNT has been participating since 2006 (three consecutive reelections)
- Brazilian international participation has been increasing exponentially
 - ☐ Increase of more than 300% in the number of Secretariats
 - □ Frequent participation in ISO Council (achieved 98% of the possible voting options during the last election)
- ❖ ABNT has been seen as one of the preferential options for partnership (holding more than 30 % of the existing twinnings)



ISO committees – Secretariats Comparative Chart



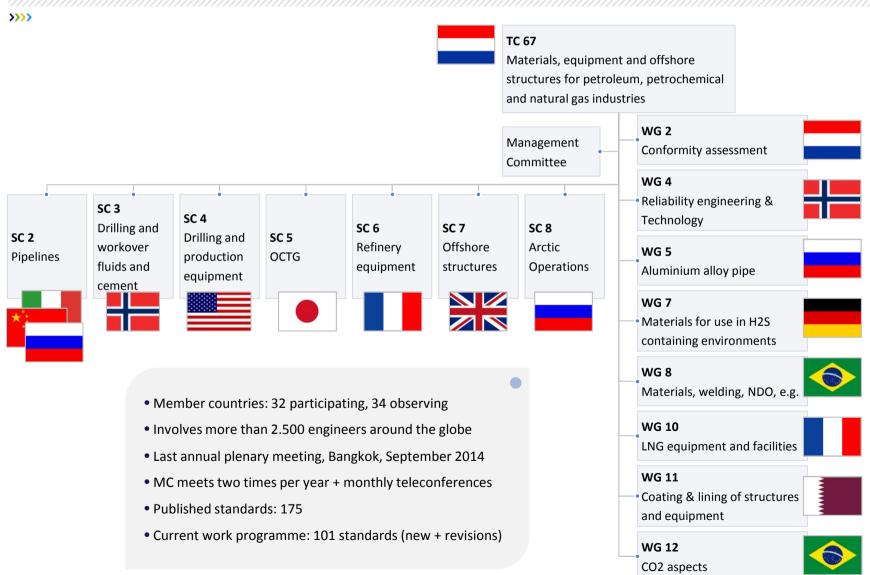


Brazil in ISO

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 - ❖ ISO General Assembly, in Rio de Janeiro September/2014
 - Recognition of the technical expertize
 - ABNT has won the Lawrence Eicher Award in 2011 (ISO/TC 34 – twinning with France)
 - ABNT has won the Lawrence Eicher Award in 2012 (ISO/TC 242 – twinning with EUA)
 - WINNER OF THE FIRST ISO PRIZE SME's engagement in Standardization

ISO/TC 67 Organisation and Secretariats (flags)





CB-50 – participation in ISO/IEC



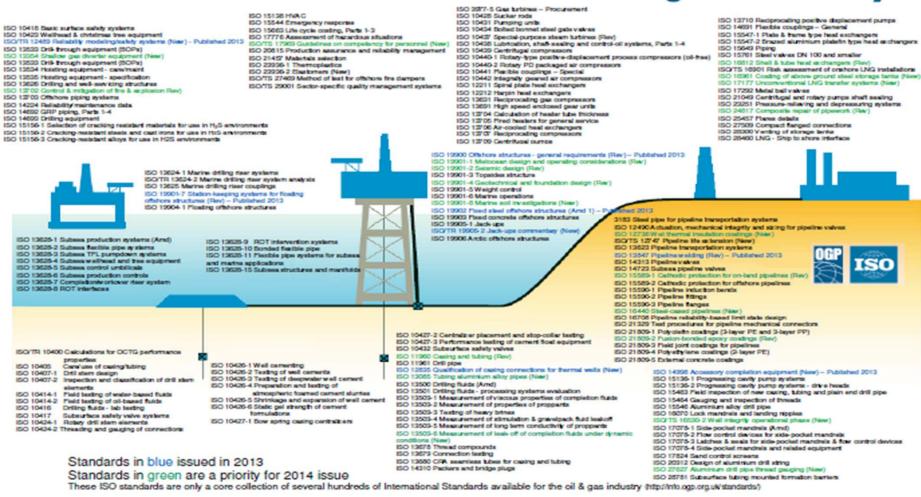
FORMAL PARTICIPATION IN INTERNATIONAL FORUMS

- WG8 and WG12 secretariat
- Coordination:
 - Ana Maria Teixeira convenor of ISO TC67/WG12
 - Luiz Otavio Amaral Affonso convenor of ISO TC67/SC6/WG 2- Lubrication, shaft sealing and control oil systems
 - Jorivaldo Medeiros convenor of ISO TC67/SC6/WG 5- Piping Systems
- Membership: currently 127 brazilian experts, from 38 brazilian companies, are members of project teams in ISO TC38, TC67, TC115, TC118, TC153 and IEC TC18. In average, experts from more than 11 companies have been participating in ISO international events. Every year Brazil has been hosting two events, at least.

ISO Standards for use in the oil & gas industry



ISO Standards for use in the oil & gas industry



ABNT/CB-50

is more than mirror of ISO/TC67



>>>> SECRETARIA TÉCNICA **COMISSÕES DE ESTUDO: SUBCOMITÊS:** Sistemas de Transporte por Dutos • SC1 - Tenaris/PB CE2 - PB Avaliação de Conformidade (WG2) **GRUPOS DE TRABALHO:** Tecnologia e Engenharia da Fluidos de Perfuração, Completação e WG4 - PB CE3 - PB Cimentação de Pocos Confiabilidade ¹ WG5 Tubos de Liga de Alumínio • CE4 - PB/Subsea7 Equipamentos de Perfuração e Produção Tubos de Revestimento, Perfuração e Materiais Resistentes a Corrosão • WG7 CE5 - V&M/Tenaris Produção Materiais, Controle de Corrosão, CE6 - PB/UTC Sistemas e Equipamentos de Processo WG8 Soldagem e END Gás Natural Liquefeito • **WG10** CE7 - PB Estruturas Oceânicas Revestimento e forros de estruturas e WG11 CEE-113 - PB Cabos de Aco e Acessórios equipamentos Aspectos do CO₂ • Amarras e Acessórios WG12 SC2/CE1 - BrasilAmarras/PB Produtos Tubulares de Aco • SC2/CE2 - PB/LEB CB-28/CE28.006 Cabos de Fibras Correntes, ligas de correntes Bombas Centrífugas de Processo • CB-04/CE04:20.02 SC2/CE3 - Lingatec/PB e acessórios Instalações Elétricas em Unidades Compressores de Processo CB-04/CE04:006.16 CB-03/CE03.18.01 - PB/WEG Marítimas Fixas e Móveis Válvulas em geral CB-04/CE04:006.16 16