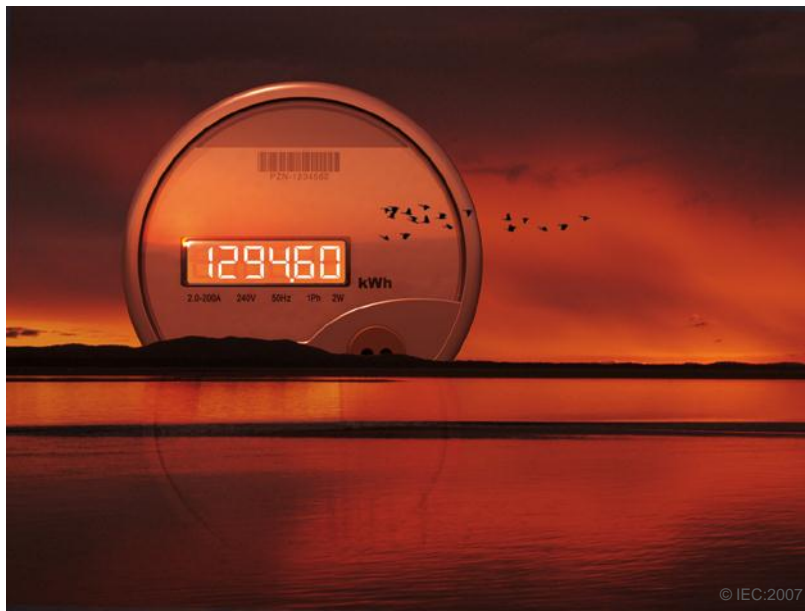




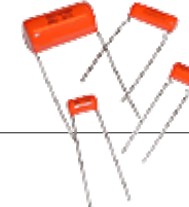
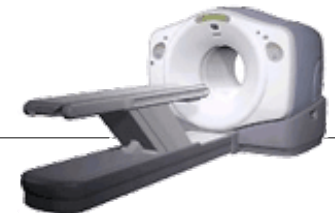
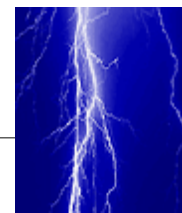
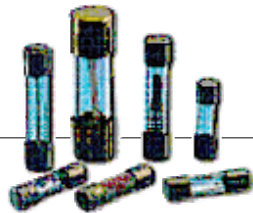
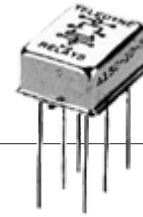
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# Helping project developers and policy-makers: Standards and development



**Gabriel Barta**  
**IEC Head of tech coord.**  
**IRENA, 2012-10-24**

- **Founded in 1906 to promote international co-operation on all questions of standardization and related matters in the field of electrotechnology**



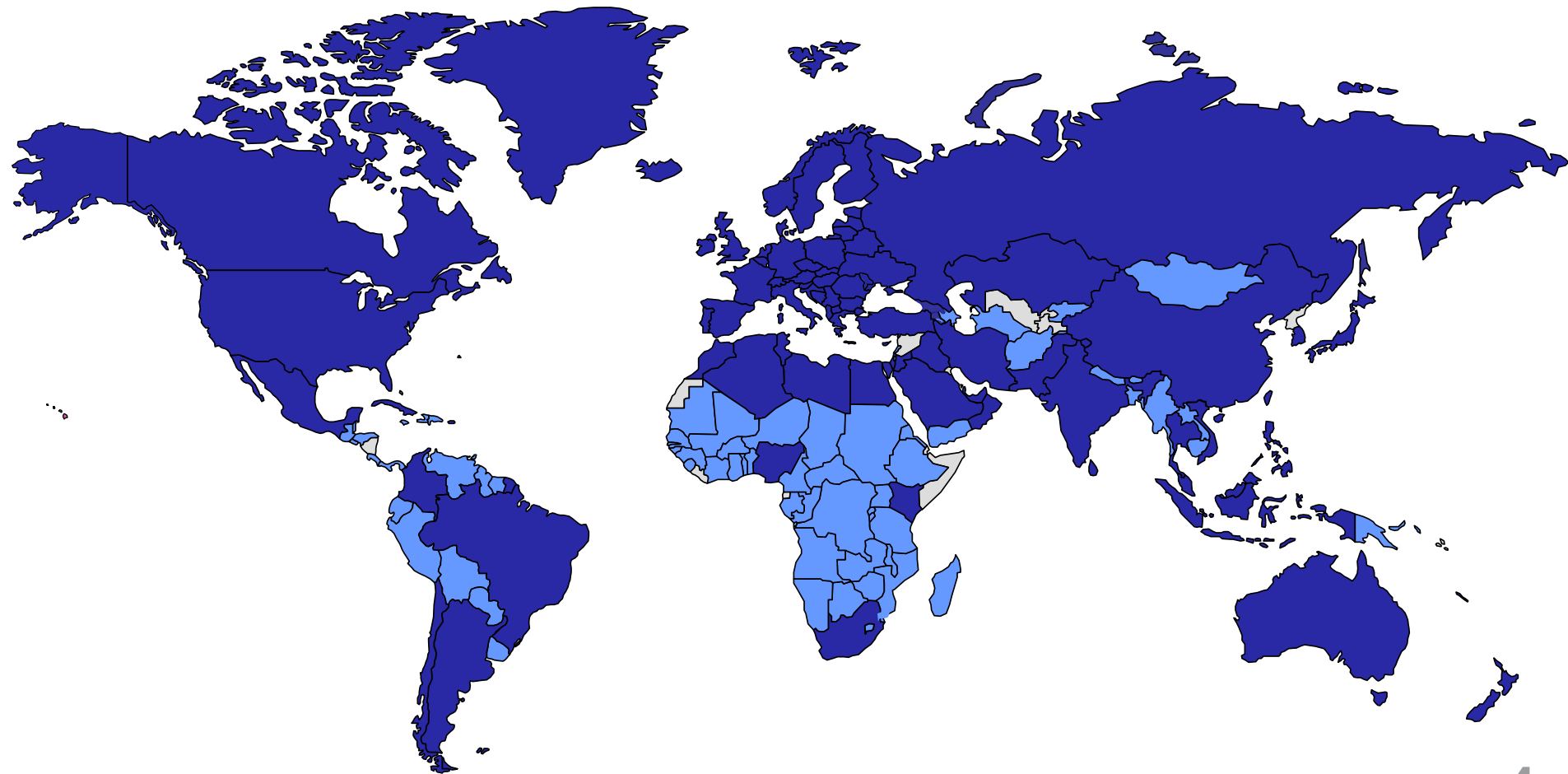
- **To achieve this mission, the IEC**
  - through its national committee members
  - through cooperative agreements and
  - directly
  
- **Encourages national use of**  
**IEC International Standards and**  
**IEC Conformity Assessment Systems**



# IEC Family: 164 countries

**82 Members**

**82 Affiliates**



- **Free Programme** to help developing countries comply with WTO TBT Agreement
  - Active participation, but not a kind of membership
- Affiliates **use IEC International Standards** on national level
  - Access to 200 IEC IS for national adoption
- Assistance to establish **National Electrotechnical Committees**
- Selection of **10 technical fields** to access and comment on working documents (up to and including CDV)
  - Experts with login

- Guidance on **IEC Conformity Assessment**
- Active participation in **IEC General Meetings**
  - Attendance to technical meetings as observers
  - Affiliate Forum
- A **Leader**, a **Secretariat**, two **Coordinators** (Africa and Latin America)
- A dedicated **website** zone and **assistance** through **virtual meetings**
  - [www.iec.ch/affiliates](http://www.iec.ch/affiliates)
- New **Affiliate Plus** status in 2009

# The IEC in numbers

- IEC family (members + affiliates) 82 + 82 = 164
- Number of technical cttees (TC/SCs) 175
- Number of working groups approx. 1 200
- Number of experts approx. 10 500
- Number of publications in catalogue 6 513
- Number of pubs issued in 2011 446
- Conformity assessment systems 3
- Valid certificates >500 000
- Regional offices (N.Am., S.Am., Asia) 4

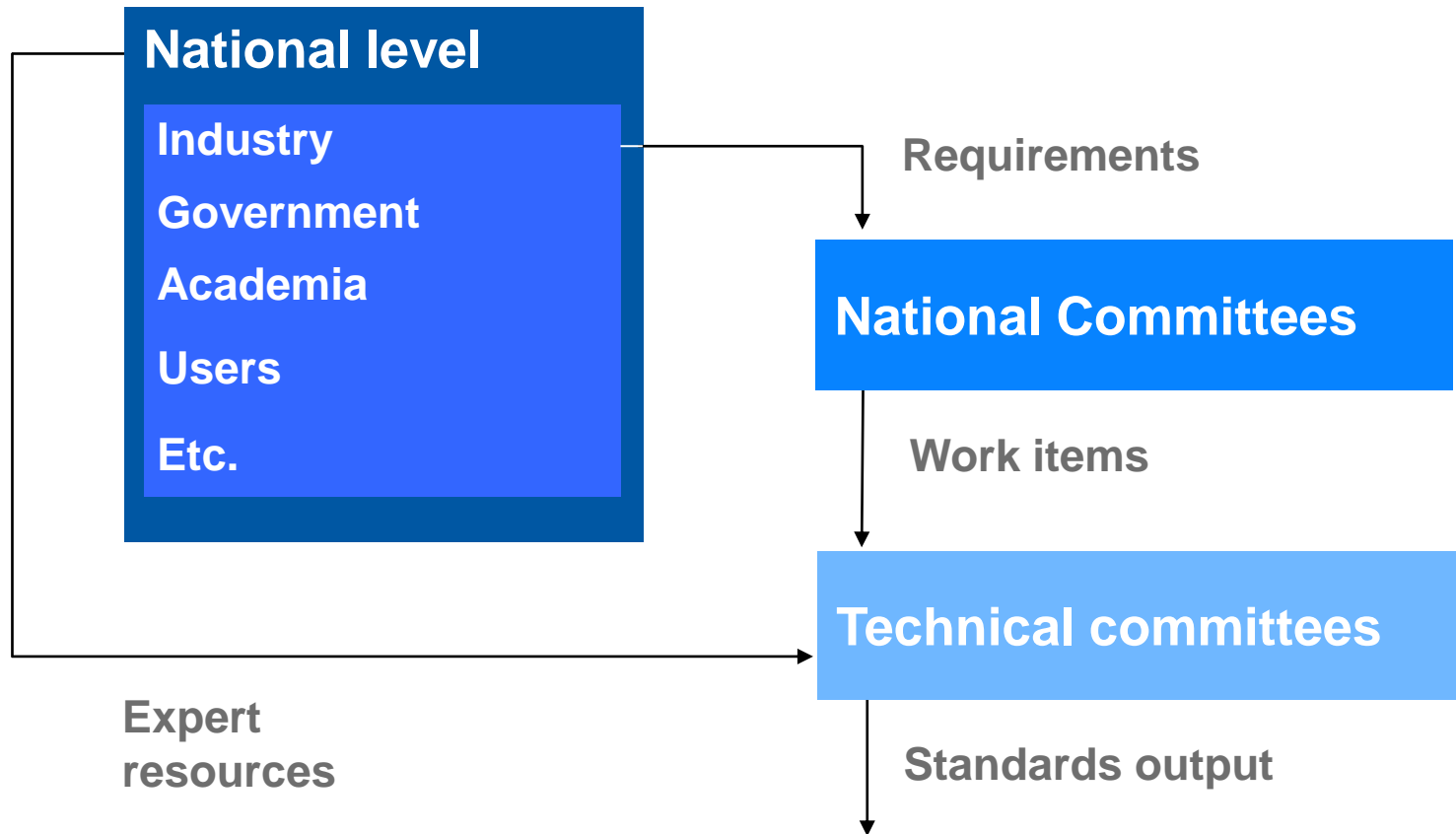




# Organization chart







- **Global**
- **One test, one certification, one mark**
- **Remove delays and costs of multiple testing and approval:**
  - **Products get to market more quickly and expense reduced**
  - **Trade barriers caused by different certification criteria in various countries reduced**
  - **New markets opened up**
- **Help to ensure a fair global trading system in accordance with WTO**

- **International standards are best source for governments for**
  - **legislation/regulation**
  - **issuing tenders**
- **Recognized source for WTO compliance**
  - **contributing towards fulfilment of the World Trade Organization's Agreement on Technical Barriers to Trades**
- **Standards provide detailed technical basis for laws and regulations**

- **TC 4: Hydraulic turbines & equipment**
- **TC 82: Photovoltaics**
- **TC 88: Wind turbines**
- **TC 114: Marine energy systems**
- **TC 117: Solar thermal plants**
- **...**
- **Dozens of working groups**
- **Hundreds of standards**

- **Standards cover all relevant aspects**
  - **products: performance, safety, testing**
  - **systems: design, interoperation, dynamics**
  - **installation, commissioning**
  - **operation, personnel competence**
  - **maintenance**
- **Certification provides confidence**
  - **Funding agencies & insurers reassured**
- **All stakeholders have contributed**

- **Assurance of significant properties**
  - safety, performance etc.
- **Yardstick of the state-of-the-art**
  - technology transfer, assurance of quality
- **How-to**
  - or at least a checklist
- **Best technical basis for regulations**
- **Guarantee of international equivalence**

- **Project managers**
  - Standards describe the desired final results
  - Standards provide technical elements needed
- **Funding agencies**
  - Standards & conformity assessment give assurance of quality and durability
- **Governments**
  - Standards show international agreement
  - Standards & CA provide a level playing field

- **Market Strategy Board**
- **Major White Papers**
  - *Coping with the Energy Challenge 2010*
  - *Grid integration of renewables... Oct. 2012*
- **Recommendations to governments, research, industry, regulators**
  - e.g. the importance of correct incentives
  - e.g. how to target research & investment





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# THANK YOU

