



Introduction to the IEC

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WTO TBT/SPS Workshop
Bangkok
2015-11

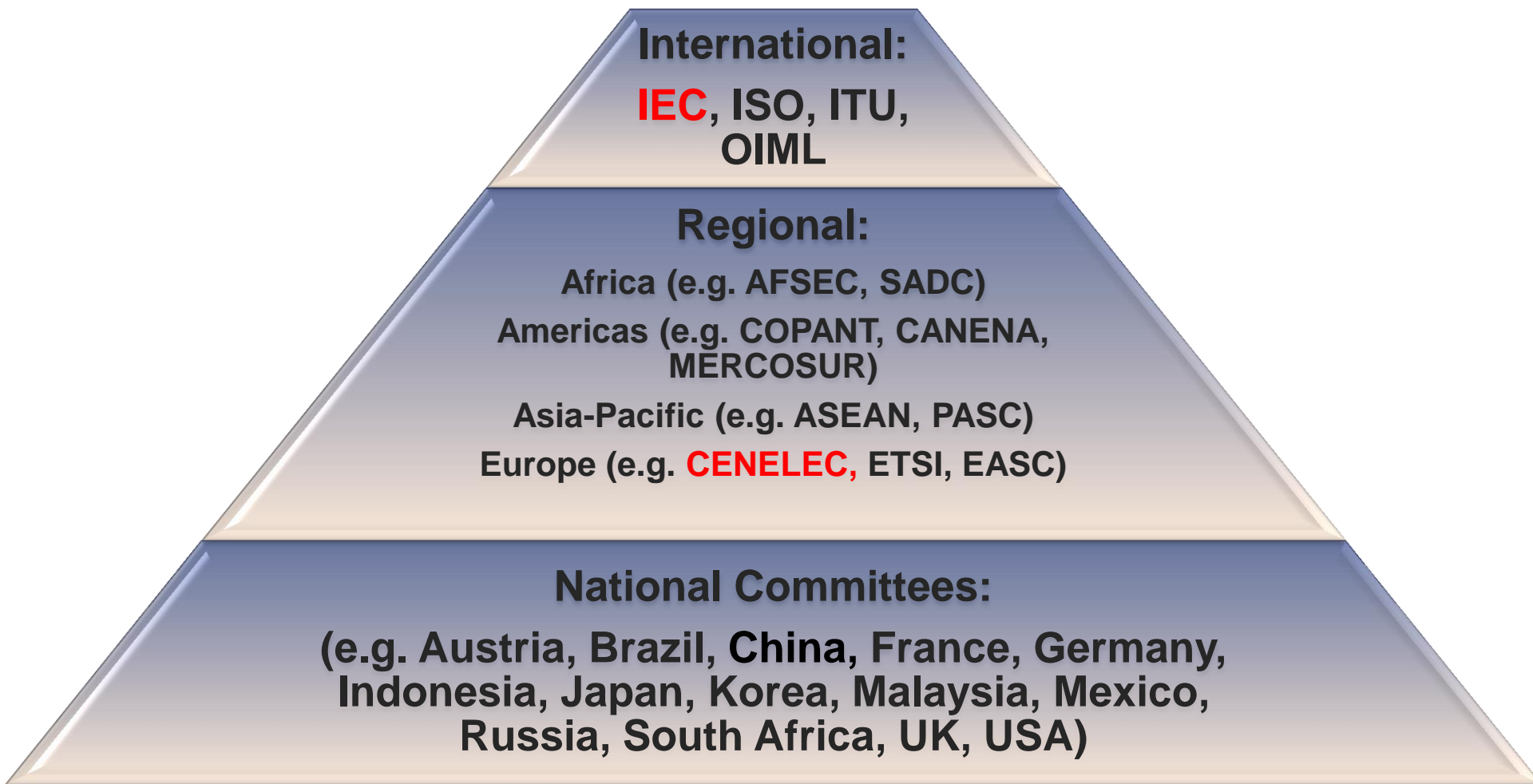


International
Electrotechnical
Commission

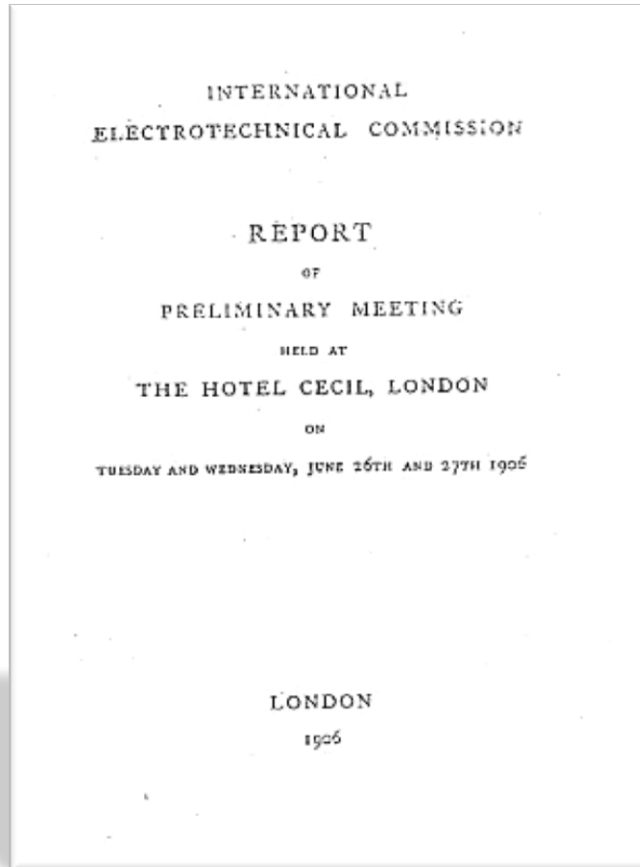
Contents

- **What is IEC?**
- **How are IEC international standards developed?**
- **What are IEC conformity assessment systems?**
- **Supporting the IEC community**

The world of standards



The organization



- The IEC is a not-for-profit, non-governmental organization founded in 1906
- One member per country
- International Standards and Conformity Assessment Systems for all electrical and electronic components, devices and systems

How you might “see” the IEC

Hydraulic turbines (TC 4)

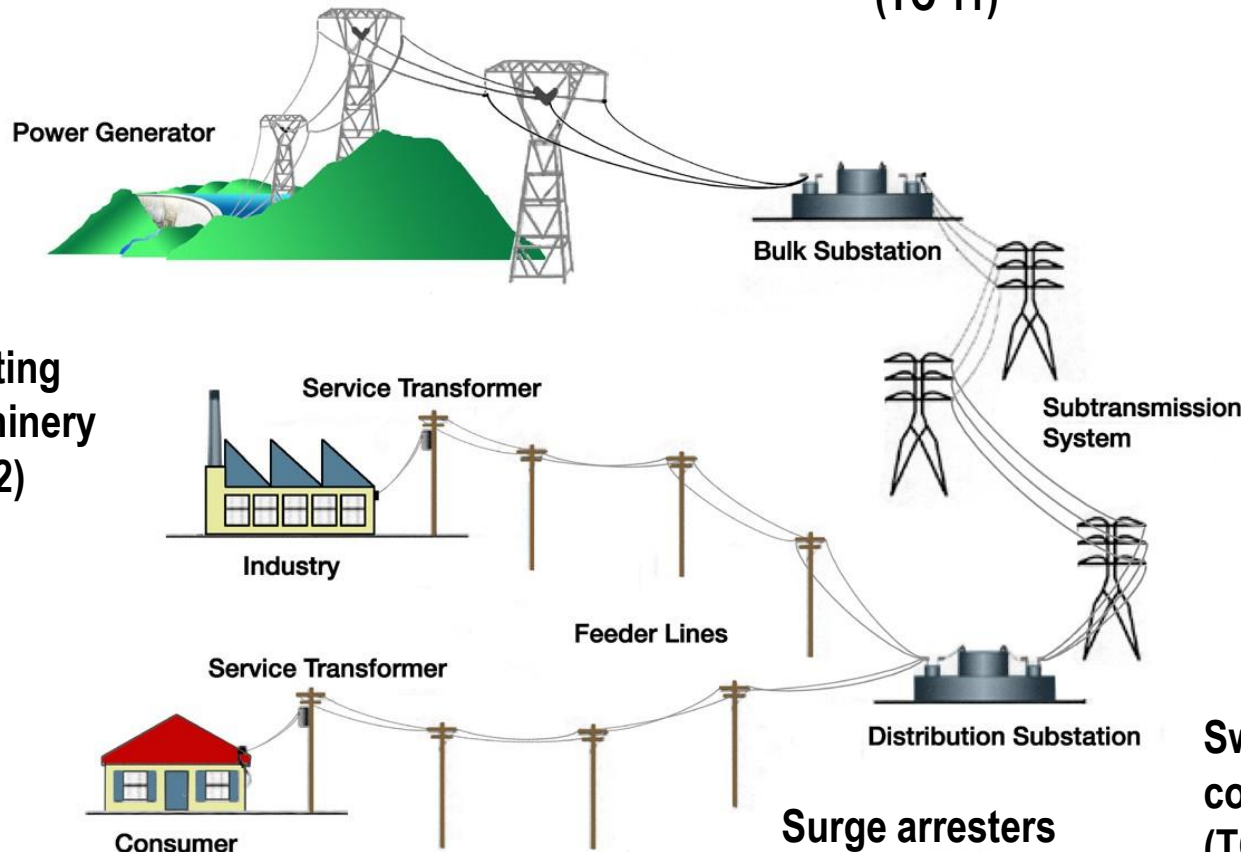
Solar photovoltaic energy systems (TC 82)

Wind turbines (TC 88)

Solar thermal electric plants (TC 117)

Overhead electrical
conductors
(TC 7)

Overhead lines
(TC 11)



Systems aspects for
electrical energy supply
(TC 8)
Grid Integration of
Large-capacity
Renewable Energy (RE)
Generation (SC8A)

Electric cables
(TC 20)

Switchgear and
controlgear
(TC 17)

Surge arresters
(TC 37)

Rotating
machinery
(TC 2)

But if you look further, at home

**Electrical accessories
(TC 23)**

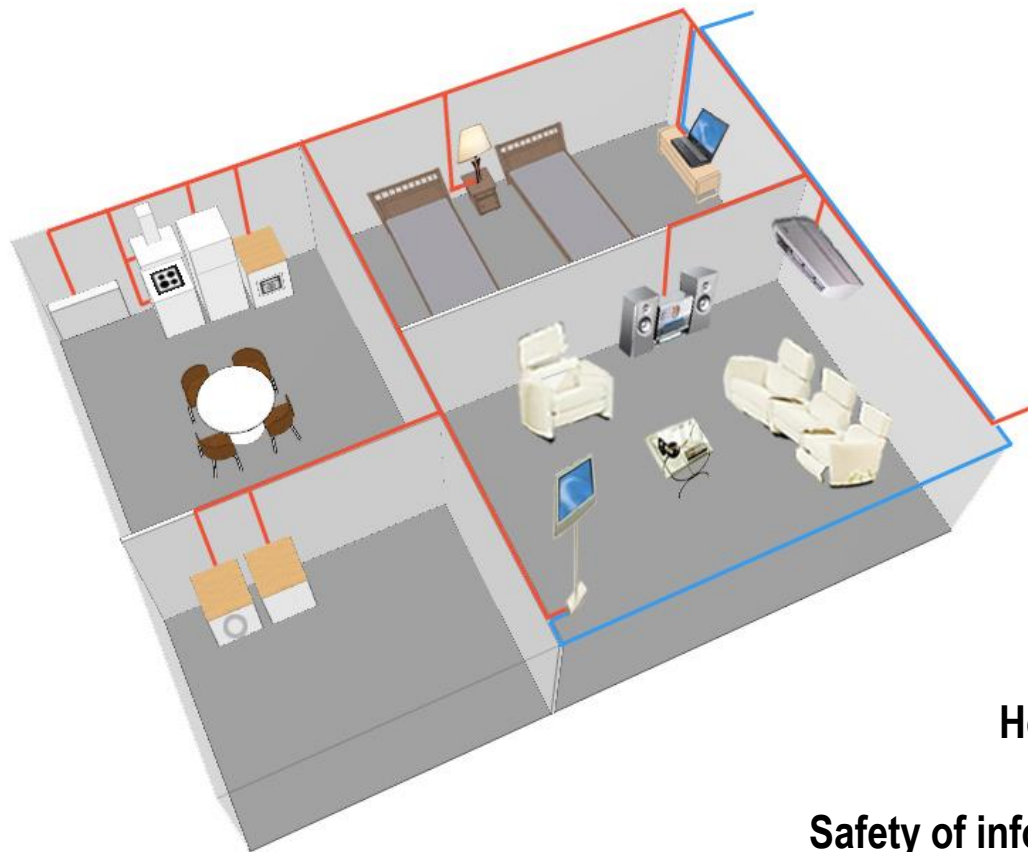
**Fuses
(TC 32)**

**Winding wires
(TC 55)**

**Electric cables
(TC 20)**

**Lamps and related
equipment
(TC 34)**

**Electrical installations and protection
against electric shock
(TC 64)**



**Electromagnetic
compatibility
(TC 77)**

**Multimedia
(TC 100)**

**Fibre optics
(TC 86)**

**Cables, wires,
waveguides
(TC 46)**

**Household appliances
(TCs 59 & 61)**

**Safety of information
technology equipment (TC 108)**

A satellite-style world map showing the continents and oceans. The text is overlaid on the map in a bold, yellow, sans-serif font. A small white crosshair is visible in the Atlantic Ocean near Africa.

global reach:
98% of world population
96% power generation

167 countries

83 Members 83 Affiliates

83 National Committees

ALBANIA (AM)

ALGERIA

ARGENTINA

AUSTRALIA

AUSTRIA

BAHRAIN (AM)

BELARUS

BELGIUM

BOSNIA-HERZEGOVINA (AM)

BRAZIL

BULGARIA

CANADA

CHILE

CHINA

COLOMBIA

CROATIA

CUBA (AM)

CYPRUS (AM)

CZECH REPUBLIC

DEM. PEOPLE'S REP. OF

KOREA (AM)

DENMARK

EGYPT

ESTONIA (AM)

FINLAND

FRANCE

GEORGIA (AM)

GERMANY

GREECE

HUNGARY

ICELAND (AM)

INDIA

INDONESIA

IRAN

IRAQ

IRELAND

ISRAEL

ITALY

JAPAN

JORDAN (AM)

KAZAKHSTAN (AM)

KENYA (AM)

KOREA, REP. OF

LATVIA (AM)

LIBYA

LITHUANIA (AM)

LUXEMBOURG

MALAYSIA

MALTA (AM)

MEXICO

MOLDOVA (MD)

MONTENEGRO (AM)

MOROCCO (AM)

NETHERLANDS

NEW ZEALAND

NIGERIA (AM)

NORWAY

OMAN

PAKISTAN

PHILIPPINES

POLAND

PORTUGAL

QATAR

ROMANIA

RUSSIAN FEDERATION

SAUDI ARABIA

SERBIA

SINGAPORE

SLOVAKIA

SLOVENIA

SOUTH AFRICA

SPAIN

SRI LANKA (AM)

SWEDEN

SWITZERLAND

THAILAND

THE FYR OF MACEDONIA (AM)

TUNISIA (AM)

TURKEY

UKRAINE

UNITED ARAB EMIRATES

UK

USA

VIETNAM (AM)

23 Associate Members

IEC Affiliate countries and invited countries

AMERICAS

Antigua and Barbuda
Barbados
Bahamas
Belize
Bolivia
Costa Rica
Dominica
Dominican Republic
Ecuador
El Salvador
Grenada
Guatemala
Guyana
Haiti
Honduras
Jamaica
Nicaragua
Panama
Paraguay
Peru
St Kitts and Nevis
St Vincent & Grenadines
Saint Lucia
Suriname
Trinidad and Tobago
Uruguay

AFRICA

Angola
Benin
Botswana
Burkina Faso
Burundi
Cameroon
Cape Verde
Central African Rep.
Chad
Comoros
Congo
Côte d'Ivoire
DRC Congo
Djibouti
Eritrea
Ethiopia
Gabon
Gambia
Ghana
Guinea
Guinea Bissau
Gui.Equatorial

Lesotho
Liberia
Madagascar
Malawi
Mali
Mauritania
Mauritius
Mozambique
Namibia
Niger
Rwanda
Senegal
Seychelles
Sierra Leone
South Sudan
Sudan
Swaziland
Tanzania
Togo
Uganda
Zambia
Zimbabwe

ASIA

Afghanistan
Armenia
Azerbaijan
Bangladesh
Bhutan
Kyrgyzstan
Lebanon
Maldives
Mongolia
Myanmar
Nepal
Palestine
Syria
Tajikistan
Turkmenistan
Uzbekistan
Yemen

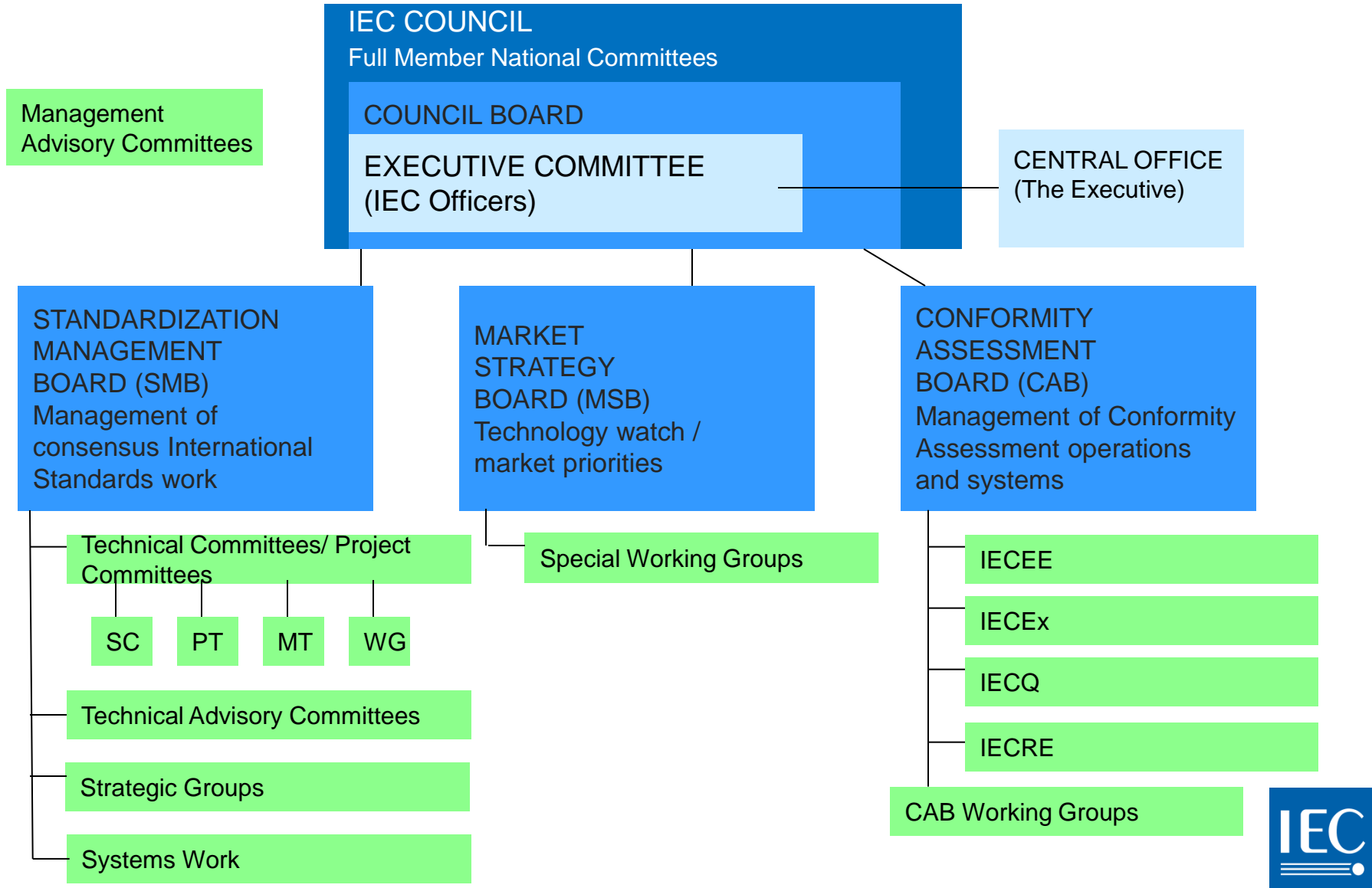
ASIA-PACIFIC

Brunei Darussalam
Cambodia
Fiji
Lao PDR
Papua New Guinea
Solomon Islands
Samoa
Tonga

Types of participation

- **IEC is a voluntary association of National Committees that fully represent electrotechnical interests in their countries**
 - Government, industry, testing laboratories, academia, consumer groups...
- **Membership – one member per country**
 - Full Members (60) ex: China, India, Japan, Korea
 - Associate Members (23) ex: Sri Lanka, Viet Nam
- **Affiliate Country programme**
 - 83 participants
 - 18 in Asia-Pacific

IEC structure



Council

- **IEC policy**
- **Long-term strategic objectives**
- **Financial objectives**
- **Presidents of Full Member National Committees, IEC Officers, Past Presidents, CB members,**
- **One statutory meeting each year at General Meeting**



CB: Council Board

- **Implements Council policy**
- **Makes policy recommendations**
- **Receives reports from SMB, CAB and MSB**
- **15 individual members elected by Council, IEC Officers**
- **Usually two meetings a year, one during GM, chaired by the President, Dr Junji Nomura**



MSB: Market Strategy Board

Vice President Yinbiao Shu – Convenor

Top-level Technology Officers appointed from industry and (ex officio) the IEC Officers as members. The MSB meets at least once a year

- **Provides IEC CB (Council Board) with strategic recommendations based on market and technology trends**
- **Provides leading information, internally and externally, on fast moving markets industry trends, technology, and environmental developments**



Market Strategy Board



SMB: Standardization Management Board

Responsible for the technical work

- **174 TCs/SCs**
 - Nearly 15 000 experts
- **Strategic Groups**
- **Advisory Committees**
- **Systems Work**
- **15 elected members**
- **Chaired by Vice President James E. Matthews III**



CAB: Conformity Assessment Board

- Responsible for setting the IEC's conformity assessment policy, promoting and maintaining relations with international organizations on conformity assessment matters
- 15 elected members
- Chaired by Vice President Ulrich Spindler



Key technical figures

Close to 15 500 experts

Number of publications (Q3 2014-Q2 2015): 574

- **New projects: 44%**
- **Maintenance: 56%**

Number of publications (Q1-Q2 2015): 310

Number of publications in catalogue: 6 955

New projects (Q3 2014-Q2 2015): 236

Average development time in months: 34,5

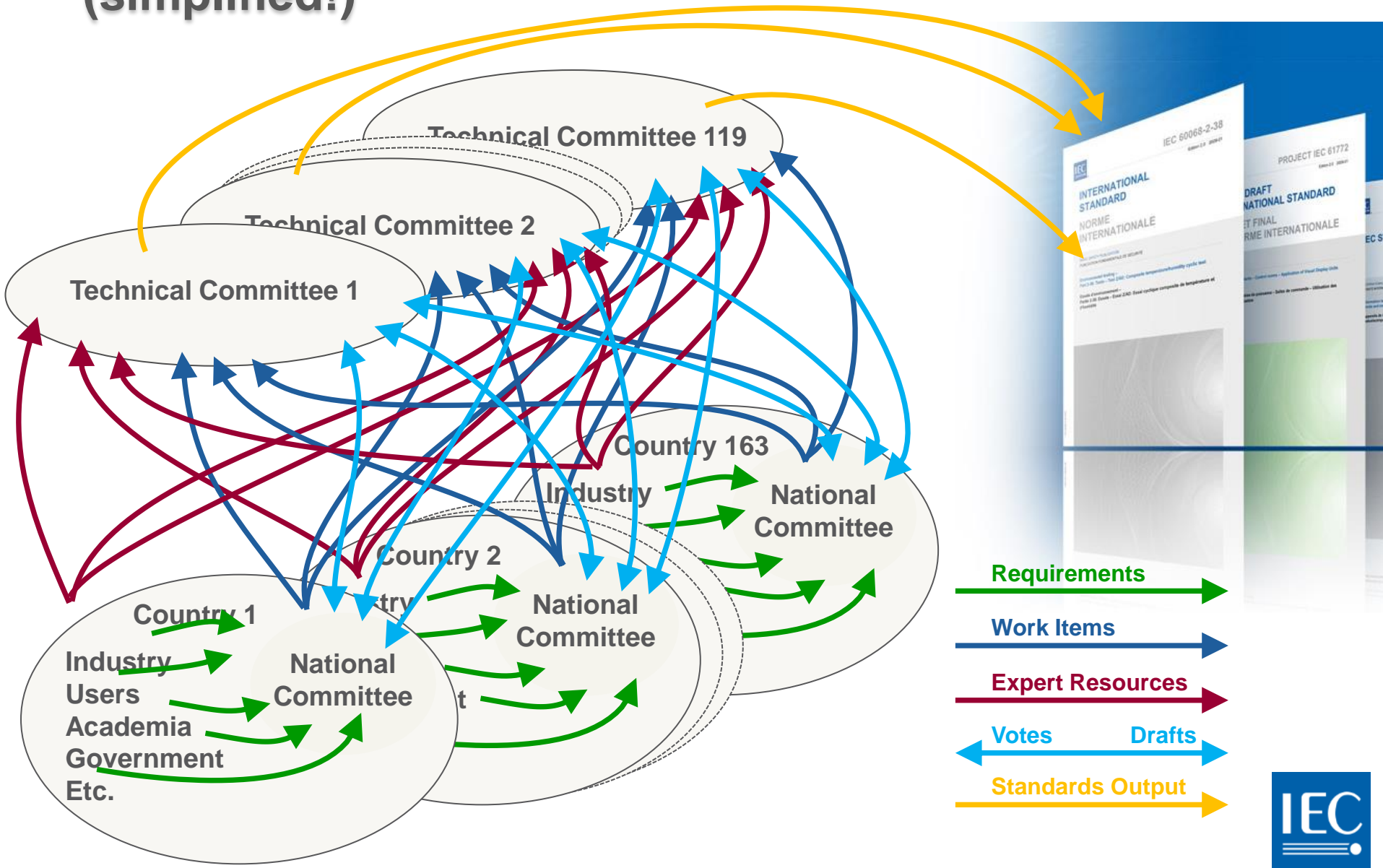
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How IEC Standards are developed

- **Technical Committees cover specific fields of activity**
 - **Working Groups/Project Teams**
- **Experts nominated by National Committees**
- **Established standards development process – ISO/IEC Directives**

International Standards workflow (simplified!)



Standards development stages

- **New Proposal** **NP**
- **Working Draft** **WD**
- **Committee Draft** **CD**
- **Committee Draft for Vote** **CDV**
- **Final Draft International Standard** **FDIS**
- **International Standard** **IS**

Two broad categories

- Normative publications
agreement on technical description of characteristics to be fulfilled by the product, system, service or object
- Informative publications
background information such as implementation, procedures or guidelines



Developed based on
result of full or limited
international
consensus among
IEC Members

Types of IEC publications

- **Normative publications**
 - International Standards (IS)
 - Technical Specifications (TS)
 - Publicly Available Specifications (IEC-PAS)
- **Informative publications**
 - Technical reports (TR)
- **Guides**



Increasing
consensus

International Standard (IS)

A document, established by **consensus** and **approved by IEC**, that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context



Technical Specification (TS)

Published when :

- Insufficient consensus for approval of an IS is available
- There is doubt that consensus has been achieved
- The subject is still under technical development
- Other reason precluding immediate publication of an IS



Publicly Available Specification (PAS)

A publication responding to an urgent market need, representing either:

- a consensus in an organization external to the IEC or,
- a consensus of experts within a working group

Published after verification that no conflict with existing IS by the committee concerned



Technical Report (TR)

Informative document

Data of a different kind, e.g.

- Scientific supporting material
- Data collection
- Results of surveys
- State of the art
- Supplementary information or explanation



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A



Refrigerators

B



❄️ freeZwel

A



B



❄️ freeZwel

A



\$ 500

B



\$ 300

❄️ freeZwel

A



Refrigerator safety
standard
IEC 60335-2-24

B



\$ 500
SDoC

\$ 300
SDoC



A



Refrigerator safety
standard
IEC 60335-2-24

B



\$ 500

\$ 300

Certified

Certified



 freeZwel

A



Refrigerator safety
standard
IEC 60335-2-24

B



\$ 500

Certified

\$ 400

Certified



CAB - Conformity Assessment Board

IECEE

System for
Conformity
Testing and
Certification of
Electrotechnical
Equipment and
Components

IECEX

System for
Certification to
Standards
Relating to
Equipment for
use in Explosive
Atmospheres

IECQ

Quality
Assessment
System for
Electronic
Components

IECRE

IEC General System for
Certification to
Standards relating to
plant, equipment and
services associated with
Renewable Energy
Systems

IEC Wind
Energy

IEC Solar
Energy Scheme

IEC Marine
Energy Scheme

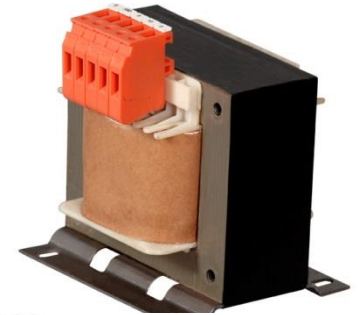
What value do the IEC CA Systems create ?

World trade & a level playing field.

- **One “reference” world-wide CA organisation**
- **Higher safety, quality & interoperability**
- **Aid regulatory recognition of safety & quality**
- **Create opportunity for smaller players**
- **Reduce industry’s time & cost to enter markets**
- **Global market access and encourage world trade**

IECEE

System for conformity testing and certification of electrotechnical equipment and components



IECEE covers

- IT and office equipment
- Electronics, entertainment
- Electrical equipment for medical use
- Installation accessories and connection devices
- Safety transformers and similar equipment
- Luminaires
- Switches for appliances and automatic controls for electrical household appliances
- Industrial Automation
- Electromagnetic Compatibility
- Hazardous Substances Testing Service
- Miscellaneous
- Portable tools
- Photovoltaics
- Household and similar equipment
- Measurement, Control and Laboratory equipment
- Low voltage, high power switching equipment
- Installation protective equipment
- Capacitors as components
- Batteries
- Cables and Cords
- Energy Efficiency
- Electric Vehicles
- Electric Toys

Safety-Performance-Environment



Safety

IEC Standards for electrical safety



Energy efficiency

IEC Standards for energy efficiency

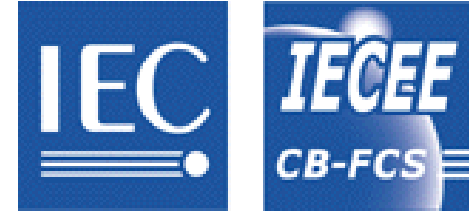
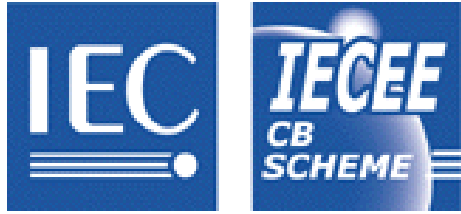


Environmental Protection

IECEE Hazardous Substances Programme

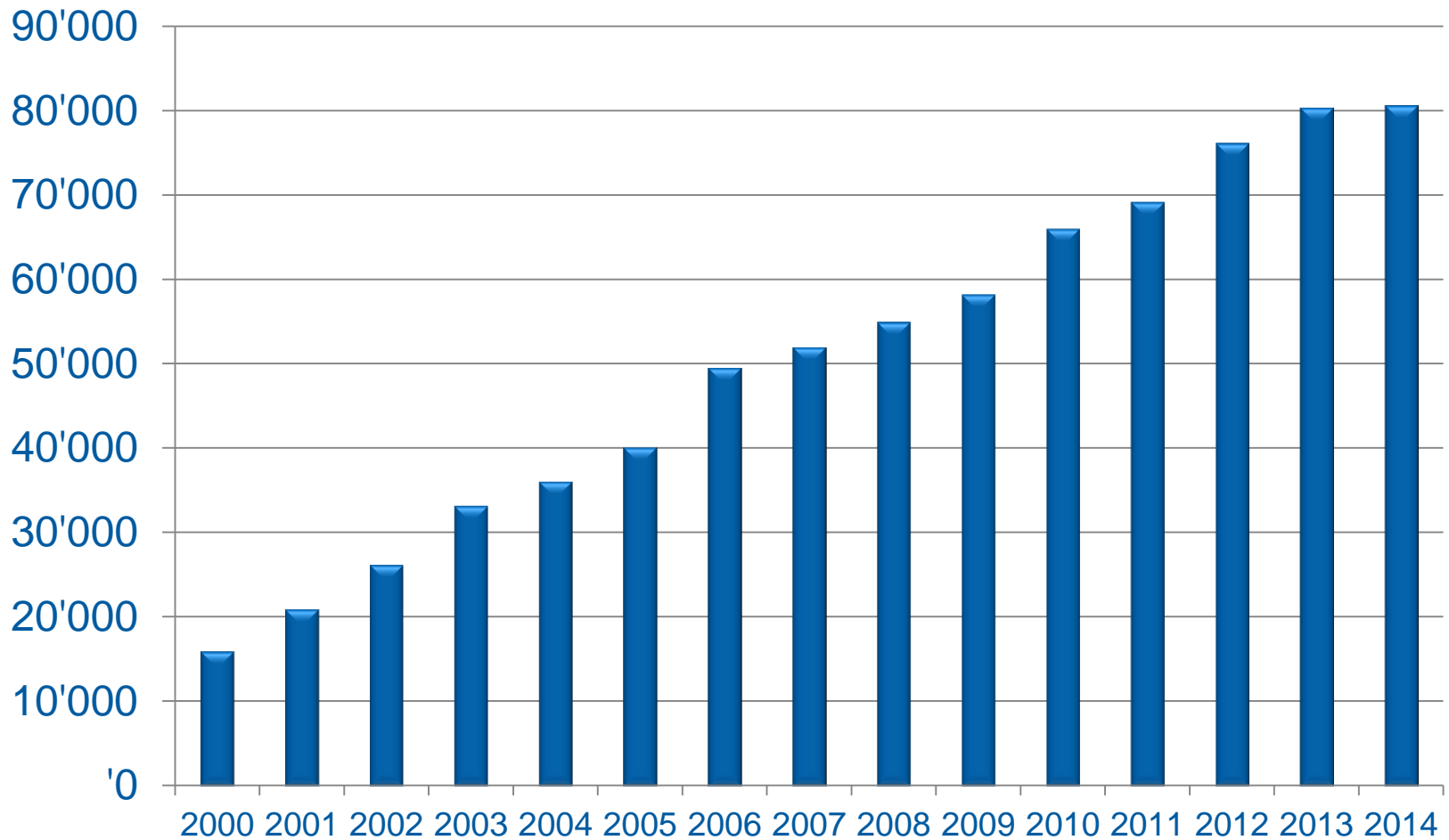


IECEE CB and FCS Schemes



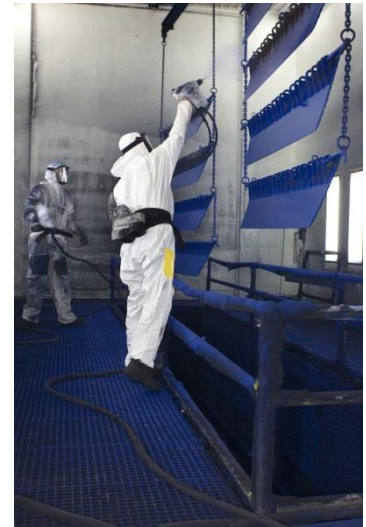
- “de facto” the most accepted proof of compliance by authorities and regulators
- Passport to market entry without further testing

Test certificates



IECEx

Worldwide system for certification to standards relating to equipment for use in explosive atmospheres



Schemes within the IECEx System

IECEx System

IECEx Equipment Scheme
Certification of Ex Equipment



IECEx Conformity Mark License
Scheme



IECEx Services Scheme
Certification of Ex Service Providers



IECEx Certified Persons
Scheme (CoPC)
Competency to work in Ex field (New)





IECEx On-Line Certificate System



INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM
FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT
FOR USE IN EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)

Information ▾ Publications ▾ Members' Area ▾ Certificates & Licences ▾ Meetings & Events ▾ Contact Home

News Releases

Explosions avoided

IECEx, UNECE and IEC Brazilian NC conference on safety in the Ex field

Preventing dust explosions

IECEx certification provides high level of protection

Mining: A high-risk activity

IECEx ensures protection and safety for Ex equipment and workforce

Competitive advantages

IECEx present at Australasian Oil and Gas Exhibition and Conference

IECEx launches first mobile app

to show international certificates for equipment used in explosive atmospheres

IECEx-AFSEC seminar in Africa



IECEx Malaysia 2014 Kuala Lumpur 19-20 February 2014

Organized by the IEC and IECEx, together with Department of Standards Malaysia, and in conjunction with UNECE (United Nations Economic Commission for Europe), the 2014 IECEx International Conference will take place on 19 and 20 February 2014.

[More information from the meeting website](#)

Quick links

IECEx Certificates and Licences

- Certification Bodies (ExCBs) - Equipment
- Certification Bodies (ExCBs) - Service Facilities
- Certification Bodies (ExCBs) - Certified Persons
- Certification Bodies (ExCBs) - Conformity Mark
- ExTAG Decision Sheets List
- IEC TC31 & IECEx Meeting Schedule

Featured



IECEx systems endorsed by UNECE



IECEx mobile apps

The image displays three overlapping sample IECEx certificates. The top certificate is an 'IECEx Certificate of Conformity' issued by the International Electrotechnical Commission (IEC) for an IECEx Certified Service Facility. The middle certificate is an 'IECEx CoC Certified Service Facility' issued by the International Electrotechnical Commission (IEC) for an IECEx Certified Service Facility. The bottom certificate is an 'IECEx Certificate Personnel Competence' issued by the International Electrotechnical Commission (IEC) for an IECEx Certified Service Facility. Each certificate includes fields for Certificate No., Issue No., Status, Applicant, Type of Service, Type of Protection, Scope of Service, Locations covered, and a list of personnel with their respective competencies.

The IECEx app:

is available for Apple and Android devices for free
provides real time information

has a searchable database of IECEx certificates

data is synchronized with the IECEx website (www.iecex.com)





UNECE United Nations Economic Commission for Europe

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Press Release

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Helping smaller countries protect their populations from danger in explosive environments New UNECE publication offers regulatory framework

Geneva, 22 March 2011 --

The United Nations Economic Commission for Europe (UNECE) has just issued a publication that helps address the hazards in environments with a high risk of explosion such as mines, refineries, chemical plants and mills.

The booklet "*Common Regulatory Framework for Equipment Used in Environments with an Explosive Atmosphere*" can be used by countries that lack regulation in this sector as a blueprint for their legislation, and also for aligning existing national regulations with internationally harmonized best practice.

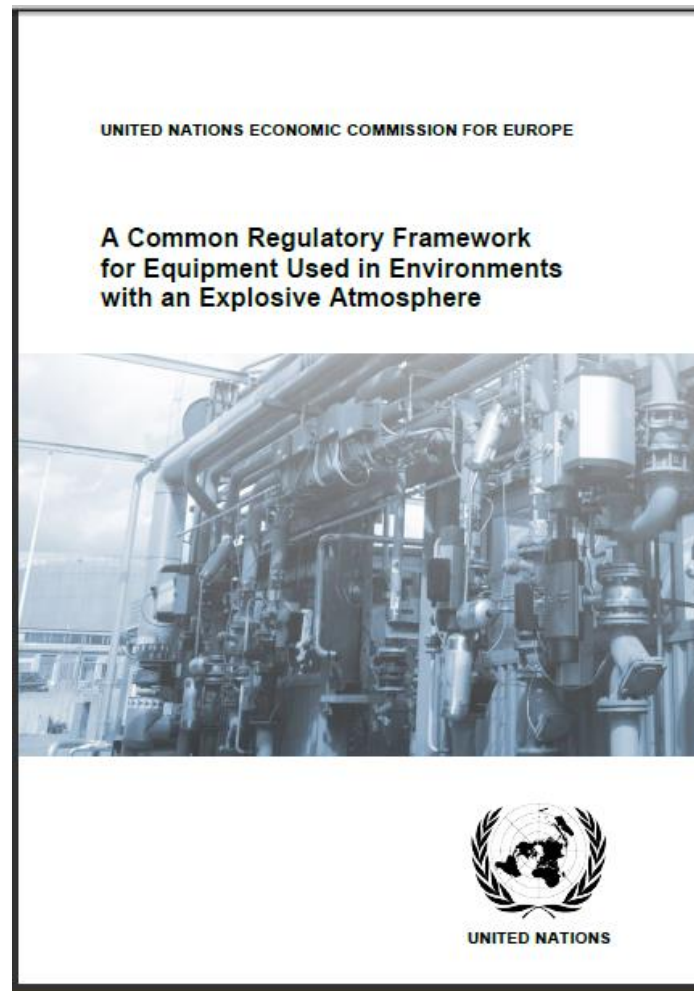
"Ex-equipment" for use in such hazardous environments needs to be specially designed, installed, maintained and repaired to eliminate potential sparks and open flames. This heterogeneous sector plays an important part in many areas of economic activity, and represents an important component of international trade.

This equipment therefore undergoes severe testing and certification, which is very costly. Because differing legislation often does not allow countries to accept the testing and certification done in another country, manufacturers generally must have devices re-tested and re-certified whenever they want to enter a new market. For some companies, this





New United Nations Publication, March 2011 endorsing IEC TC 31 Standards + IECEx as "world's best practice".

http://www.unece.org/press/pr2011/11trade_p03e.htm



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

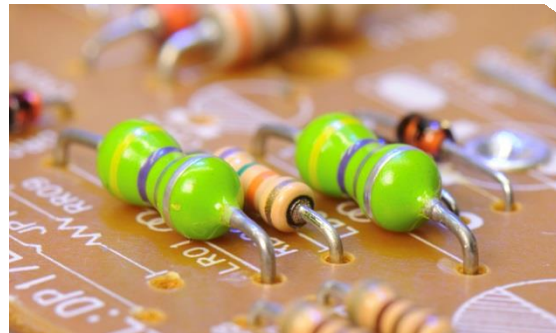
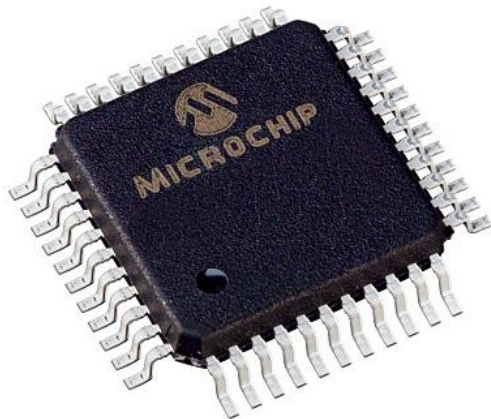
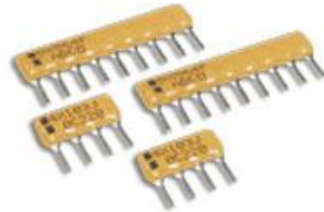
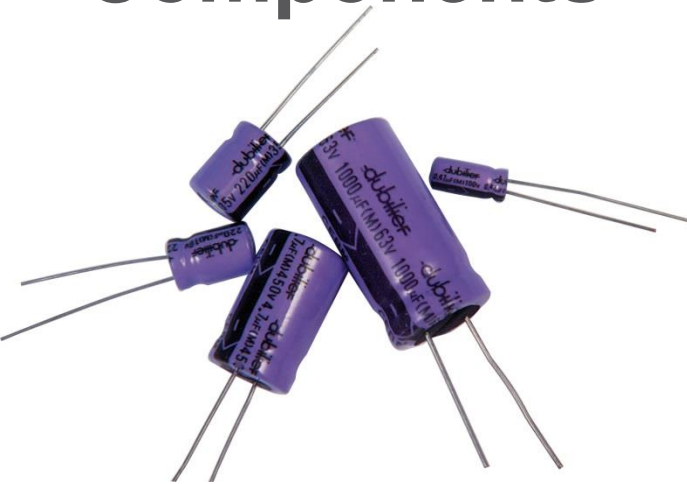
A Common Regulatory Framework for Equipment Used in Environments with an Explosive Atmosphere

UNITED NATIONS

IECQ

Quality Assessment System for Electronic Components





What is IECQ

- IECQ (IEC Quality Assessment System for Electronic Components) is a worldwide approval and certification system covering the supply of electronic components and associated materials and assemblies (including modules) and processes.
- It uses quality assessment specifications that are based on International Standards / Specifications prepared by the International Electrotechnical Commission (IEC) or National Standards / Specifications where an IEC Standard does not exist.



Schemes within the IECQ System

IECQ System

www.iecq.org

Approved Process Scheme (IECQ AP) (E.g. Electro Static Discharge etc.)

Counterfeit Avoidance Programme (IECQ CAP)

Approved Component Scheme (IECQ AC) (Production of Components + Assemblies)

Automotive Qualification Programme (IECQ AQP)

Scheme for LED Lighting (IECQ LED) SSL Lighting

IECQ HSPM Scheme “IECQ QC 080000” (Hazardous Substance Process Management)

IECQ Avionics Scheme (IECQ ECMP) (Electronic Component Management Plans)

IECQ Independent Testing Laboratory Scheme (IECQ ITL)



IECQ Hazardous Substances Process Management HSPM

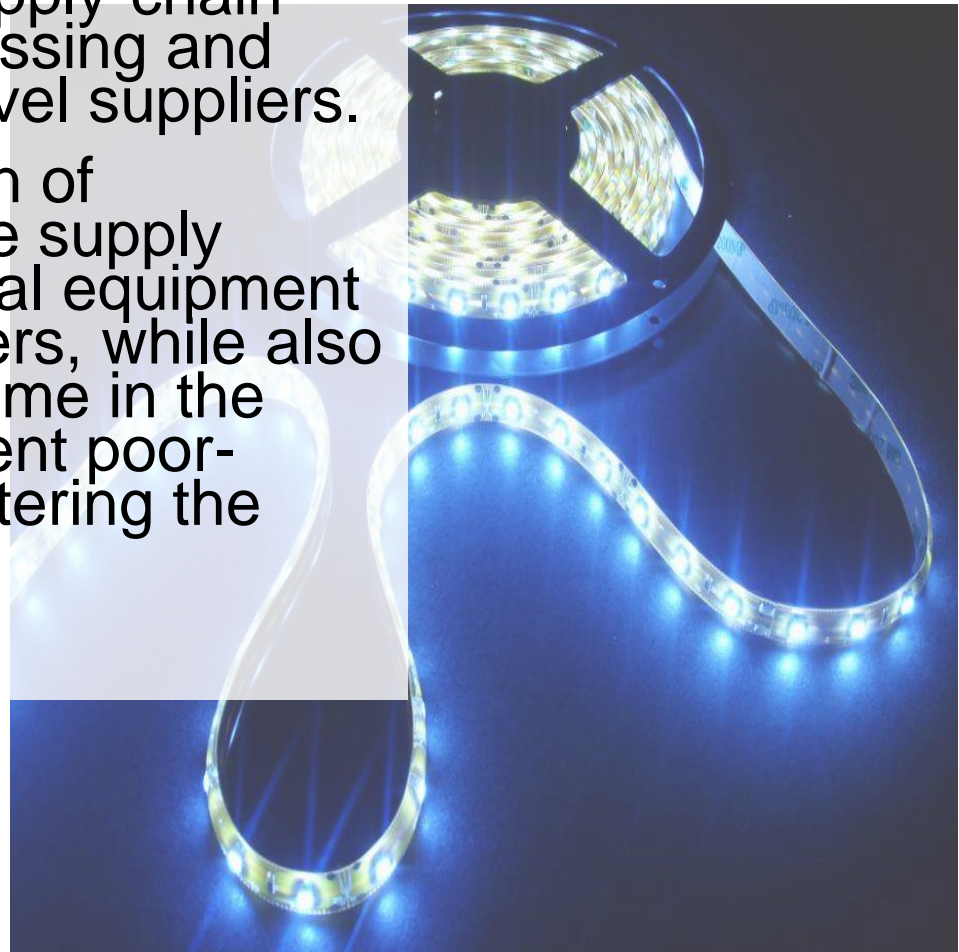
- IECQ HSPM provides the requirements used to demonstrate to the international market place that the organization has developed, documented, and implemented processes for managing the production, selection and use of electronic components, assemblies, processes and related materials in accordance with customer, local, national and international HSF requirements (like Sony SS 00259, Directive 2002/95/EC, Directive 2002/96/EC and other local environmental regulations) for their scope of activity.





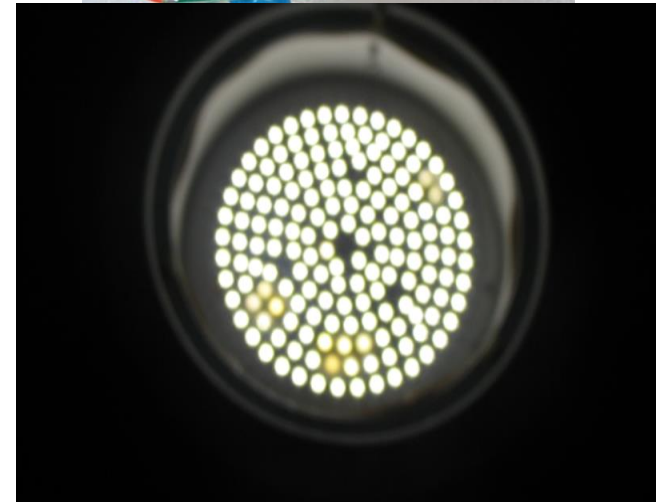
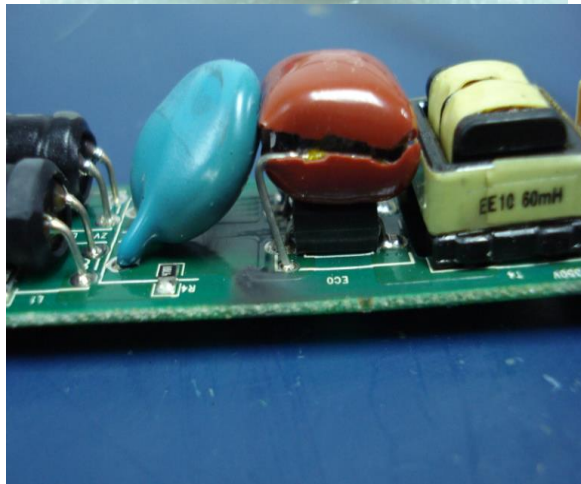
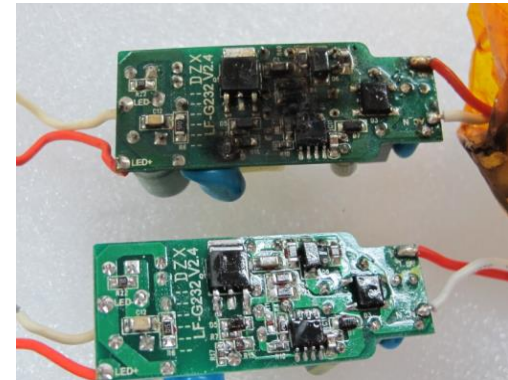
IECQ AC Scheme - LED Lighting

- The IECQ AC Scheme provides a “standardized way” of evaluating suppliers and is used as a powerful supply-chain management tool when assessing and monitoring the various tier-level suppliers.
- This removes the cost burden of monitoring and controlling the supply chain, from the OEMs (original equipment manufacturer) to their suppliers, while also protecting the OEM brand name in the market. This also helps prevent poor-quality LED systems from entering the market.



LED Industry concerns over quality and reliability

One faulty component can result in poor performance or even worse, the overall failure of the LED lighting system.





IECQ On-Line Certificates

1. Select
here



IECQ On-Line Certificates

- All Certificates located
- Public access
- Search features
- On Line version is



IECRE

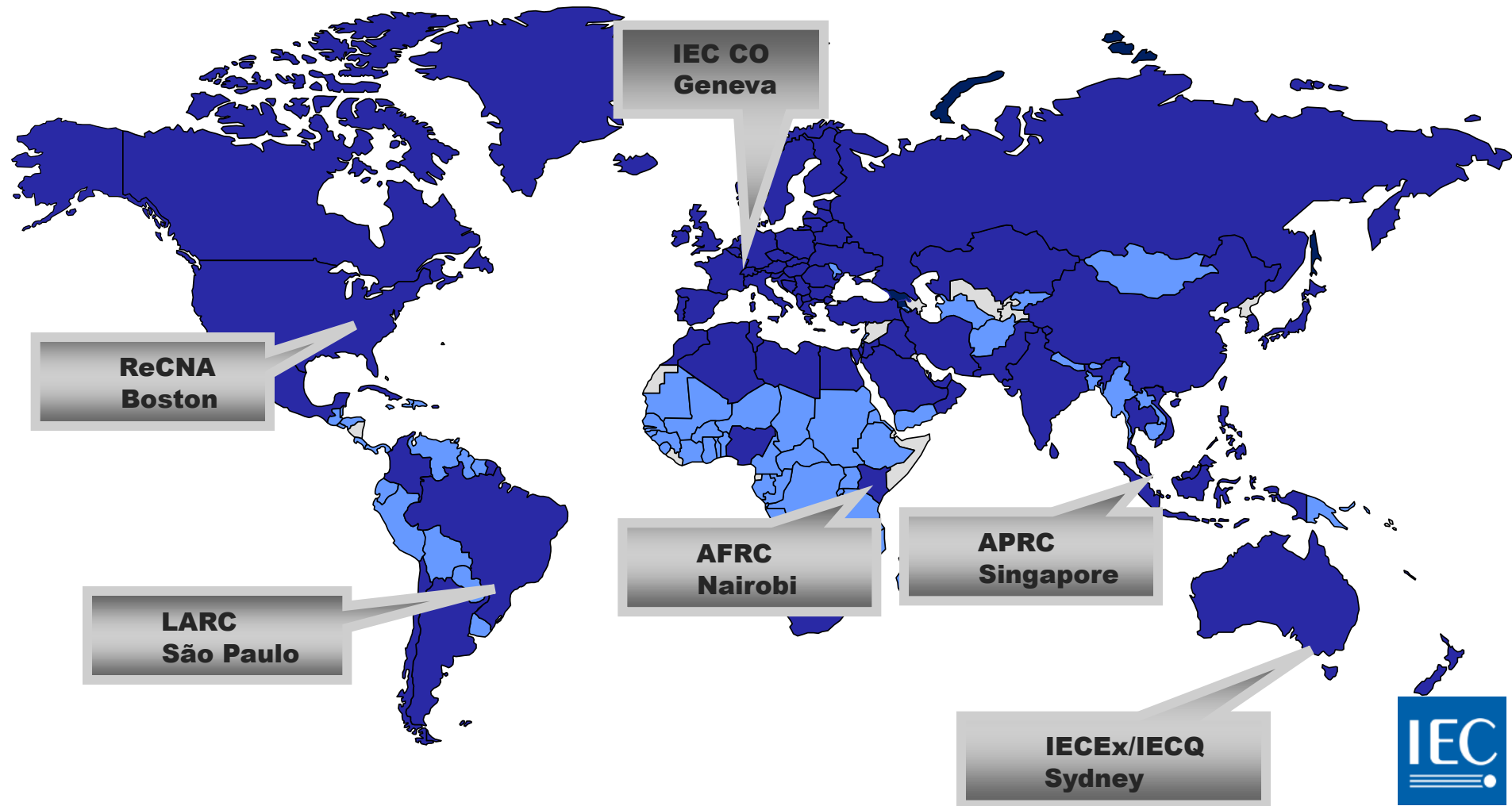
- REMC Officers
- Operational Management Committee (OMC) Officers
- Draft Rules of Procedures for each sector
- 16 Members
- First certificates expected in 2016



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IEC offices



IEC-APRC

- **21 February 2002**
- **Resource for members and affiliates**
- **Link to Central Office and IEC TC/SC Experts**



Mission

- **Promote awareness of IEC in the region**
- **Increase use of IEC International Standards**
- **Enhance participation of all countries in the region in the Commission's work**

All of the above will be achieved by improved communications with businesses, industries and governments in the region

IEC-APRC key activities

- **Promotional**
 - Participation in Regional Groups/Events
 - Information Sessions and Training Activities
 - Venue for AC/WG/MT meetings
- **Technical**
 - Support to 54 TCs/SCs
 - Advisory Committees – ACTAD and ACEE



A Unique Approach

- Affiliate **commitment** to use International Standards
- No participation fee, no right to vote, ***not a form of membership***
- **200** free IEC International Standards for adoption
- Selection of **10 technical fields** and access to working documents
- Attendance to **IEC General Meetings**
- A **Leader**, a **Secretariat**, **Coordinator for Africa**, a website.

Affiliate Secretariat

- **Françoise Rauser**
Executive Secretary



- **Thomas Robertson**
Project coordinator: ACAS and Mentoring



- **Sei Yun Park**
Assistant



Affiliate Leader

Rosario Uría

INACAL– Peru



- **Nominated by IEC General Secretary**
- **Voice of the Affiliates**
- **Promotes the Programme**
- **Chairs the Affiliate Forum**
- **Leads the Affiliate delegation during IEC General Meeting**
- **Presents a report to IEC Management boards (CAB and SMB)**

IEC Coordinator IEC for Africa

Evah Oduor
AFSEC Vice-President



- **Coordinates IEC Family participation in Africa**
- **Assists the Leader and the Secretariat for African issues**
- **Liaises with AFSEC**
- **Represents the IEC at regional level**

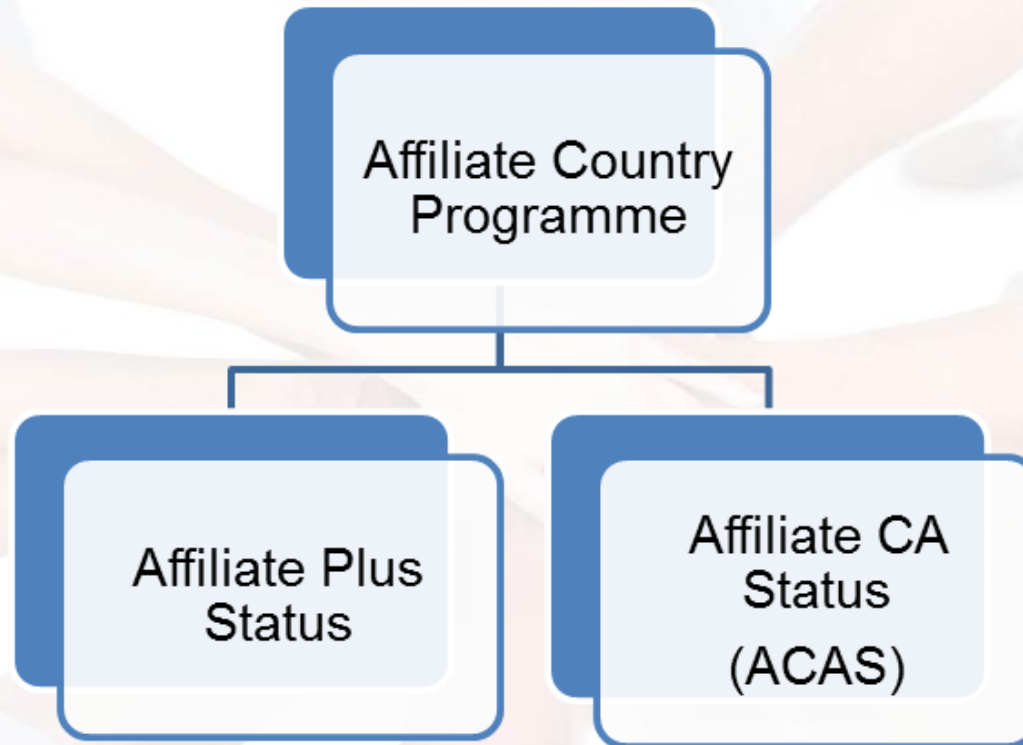
Results

- 84 Affiliates:
 - **Uzbekistan** (October 2015)
- 47 NEC (National Electrotechnical Committees):
 - **Antigua and Barbuda** (July 2015)
- Over 4900 national adoptions of IEC IS in Affiliate Countries:
 - **Cameroon** (January 2015)
 - Adoptions on line: <http://www.iec.ch/affiliates>
- Affiliate Plus: 23 countries
 - **Costa Rica** (May 2015)
- General Meeting 2015: 16 countries represented

Additional benefits

- **Affiliate Plus in 2009**
- **Mentoring in 2013**
- **ACAS in 2013**

Affiliate Country Programme Structure



Affiliate Plus

- **Criteria**
 - At least 50 adoptions of IEC IS
 - A NEC (National Electrotechnical Committee)
 - 24 countries have obtained Affiliate Plus
- **New benefits**
 - 400 free adoptions instead of 200
 - Priority for mentoring

Mentoring Programme



IEC Mentoring in a nutshell

- **Partnerships between:**
 - IEC NCs and IEC NCs
 - IEC NCs and Affiliate NECs
- **Voluntary programme lasting up to two years**
- **Progress report after one year and another at the end of the period**
- **Two levels of mentoring: management and technical**

Management mentoring for Affiliates

- Focus on reinforcing structure and functioning of the NEC
- Reaching out to stakeholders, including industry and SMEs
- Establishing mirror committees
- Adoption of IEC International Standards

Technical mentoring for Affiliates

- Enhancing the participation of experts
- Focusing on working process for commenting on technical documents during their development
- Guidance for understanding the requirements in IEC International Standards
- Running of mirror committees

Mentoring partnerships

- Rwanda – Austria (2013)
- Afghanistan – Malaysia (2014)
- Côte d'Ivoire- France (2014)
- DRC – France (2014)
- Ethiopia – Germany (2014)
- Uruguay – Norway (2014)
- Zambia – Austria (2014)
- Mongolia – Germany (2015)
- Bhutan – Sweden (2015)
- Peru – Mexico (2015)

Affiliate Conformity Assessment Status (ACAS)



ACAS package benefits

- Regional awareness events
- ACAS section on IEC Affiliate website
 - <http://www.iec.ch/affiliates/acas>
- Webinars (upon request)
- E-learning modules on IEC ACAS website
- Observer status at IEC CA System management meetings (based on prerequisite training conditions)

Two steps

- **Status → Pledge**
 - National adoption of at least one IEC International Standard used within the scope of one or more of the IEC CA Systems
 - Nomination of at least one individual to use the Level 0 and Level 1 ACAS Learning Modules
 - Commitment to sign the ACAS Declaration within 5 years
- **Status → Declaration**
 - Willingness to accept IEC CA certificates related to national adoptions of IEC International Standard(s)
 - Allows access to Level 2 ACAS Learning Modules
 - Observer status in management meetings

ACAS Pledge and Declaration

IEC ACAS Pledge – Learning Phase	
<p>The <u>(Organization of the country)</u>, located in <u>(City/Country)</u>, wishes to be granted the IEC Affiliate Conformity Assessment Status (ACAS) and, in doing so, pledges:</p> <ul style="list-style-type: none">• To be located in an IEC Affiliate Country;• That <u>(Country)</u> has declared the national adoption of at least one IEC International Standard used within the scope of one or more of the IEC Conformity Assessment Systems;• To nominate at least one individual to use the Level 0 and Level 1 ACAS Learning Modules;• To sign the ACAS Declaration within 5 years, failing which <u>(the Country)</u> ACAS becomes null and void.	
MM - 2014	
(Name of the Organization Director) Director	F.W.P. Vreeswijk General Secretary & CEO
Signature: _____	Signature: _____
Date: _____	Date: _____

IEC ACAS Declaration – Implementation Phase	
<ul style="list-style-type: none">- The <u>(Organization of the country)</u>, located in <u>(City/Country)</u>, wishes to be granted access to Level 2 ACAS Learning Modules and conditional observer status within one or more of the IEC Conformity Assessment Systems.- The <u>(Organization of the country)</u> declares that, as it relates to the IEC International Standard(s) adopted by <u>(Country)</u>, it accepts associated Certificates and Reports issued within one or more of the IEC Conformity Assessment Systems at national level and will promote their use.	
MM - 2014	
(Name of the Organization Director) Director	F.W.P. Vreeswijk General Secretary & CEO
Signature: _____	Signature: _____
Date: _____	Date: _____

ACAS events 2015

- **IECEx-UNECE – Poland, April**
- **IECEE- APRC – Singapore, June**
- **IECEx-AFSEC – Ghana, July**

ACAS countries

Afghanistan



Azerbaijan



Cameroon



Côte d'Ivoire



DR Congo



Ethiopia



Ghana



Mongolia



Peru



Rwanda



Sudan



Uruguay



Zambia





Thank you for your attention

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WTO TBT/SPS Workshop
Bangkok
2015-11



International
Electrotechnical
Commission