



# **Взаимодействие между МЭК и странами СНГ: – описание технических правил в рамках глобальной торговли и систем оценки соответствия МЭК**

**Антуанетта ПИТТЕЛУД**  
Уполномоченный по внешним  
связям — [api@iec.ch](mailto:api@iec.ch)  
МЭК [www.iec.ch](http://www.iec.ch) Skype antoinette-iec

**МГС**  
Пятигорск  
26 июня 2019





A satellite map of the world showing the continents and oceans. The map is centered on the Atlantic Ocean, with North and South America on the left and Europe and Africa on the right. The text is overlaid on the map.

# Глобальный охват

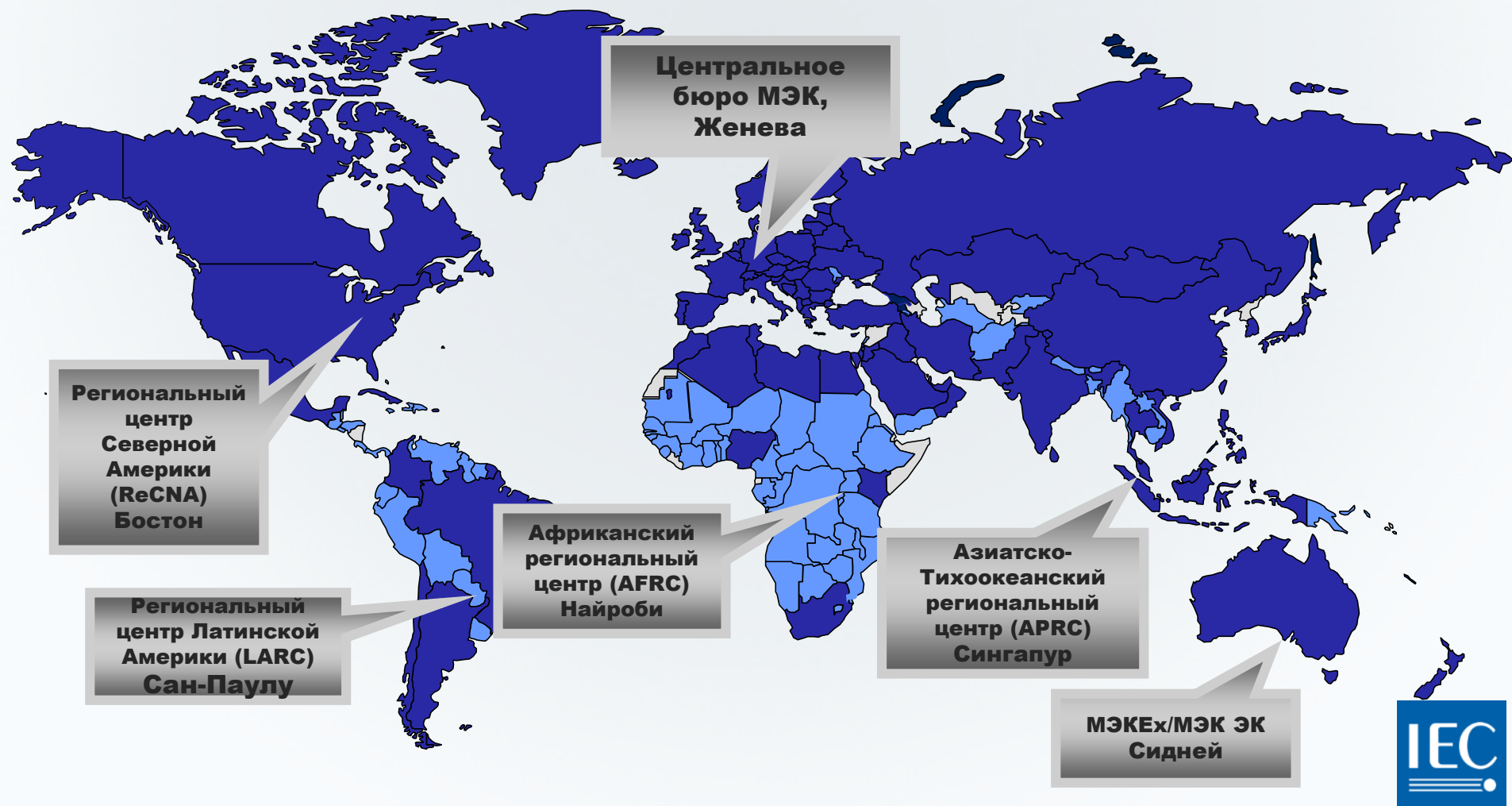
86 полноправных и ассоциированных  
члена,

87 аффилированных члена

98% мирового населения

96% общемирового производства  
электроэнергии

# МЭК – географическая близость к членам единой семьи







**Партнерство с другими  
организациями**

**35 agreements and MoU  
820 liaisons with  
207 other partners**

<http://www.iec.ch/dyn/www/f?p=103:218:0>



# МЭК-МГС

## Сочинское соглашение 2014



A close-up photograph of two hands shaking, symbolizing agreement or partnership. The hands are positioned diagonally across the frame, with the fingers interlaced. The background is a plain, light color.

# **CENELEC Frankfurt agreement:**

## **~ 80+% aligned standards**

**Many IEC standards adopted by  
CENELEC are harmonized  
standards in the EU official  
journal**

[https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/low-voltage\\_en](https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/low-voltage_en)



# ASEAN Single Market

- **ASEAN Joint Sectoral Committee on Electronic Equipment**
- **Tasked with implementation of ASEAN Harmonized Regulatory Regime on Electrical and Electronics Equipment**
- **More than 100 IEC International Standards identified as reference for adoption or direct use by the ASEAN regulators of electrical and electronic equipment**

## CHAPTER 5

### LIST OF REGULATED ELECTRICAL EQUIPMENT

Note: Regulated Electrical Equipment are to be tested to the specified standards. Equipment that are tested and certified to the same standards of later revisions are also acceptable.

No	Category	Description of Regulated Equipment	Detail of Equipment	Standards	
				National Standard	Equivalent International Standard
1	PLUG TOP/ PLUG	(a) Plug • makes a detachable connection between the contacts of a socket-outlet and the conductors of a flexible cord; • has insulating sleeves on the line and neutral plug pins for insertion into a socket-outlet; and • has a maximum rating of 15 A;	Flat Non-Rewirable Two Pole Plug with supply cord (max. 2.5A)	MS 1578:2003	BS EN 50075:1991
			13 A Fused Plug	MS 589-1:2011	BS 1363:PT.1: 1995 +A1, A2, A3
			15 A Plug	MS 1577:2003	No corresponding international standard
		(b) Coupler • is for attachment to a flexible cord; and • makes a detachable connection between the conductors of the cord and the pins or contacts of any low voltage appliance or equipment of a type intended or generally used for household applications	Appliance Coupler	MS IEC 60320-1:2010	IEC 60320-1:2007
			Interconnection Coupler	MS IEC 60320-1:2010 MS IEC 60320-2-2:2011	IEC 60320-1:2007 IEC 60320-2-2: 1998

# GSO Gulf Standardization Organization



- GSO has endorsed so far more than 5000 IEC International Standards
- Members
  - UAE (ESMA)
  - Bahrain (BSMD)
  - Saudi Arabia (SASO)
  - Oman (DGSM)
  - Qatar (QS)
  - Koweit (KOWSMD)



# WORLD MAP







# Правильное направление инноваций

- **Учеба на ошибках и преодоление препятствий на пути развития**
- **Сравнительная оценка значимости инновации и конкуренции**
- **Упрощение макркетинга и реализации**
- **Повышение качества и репутации на рынке**



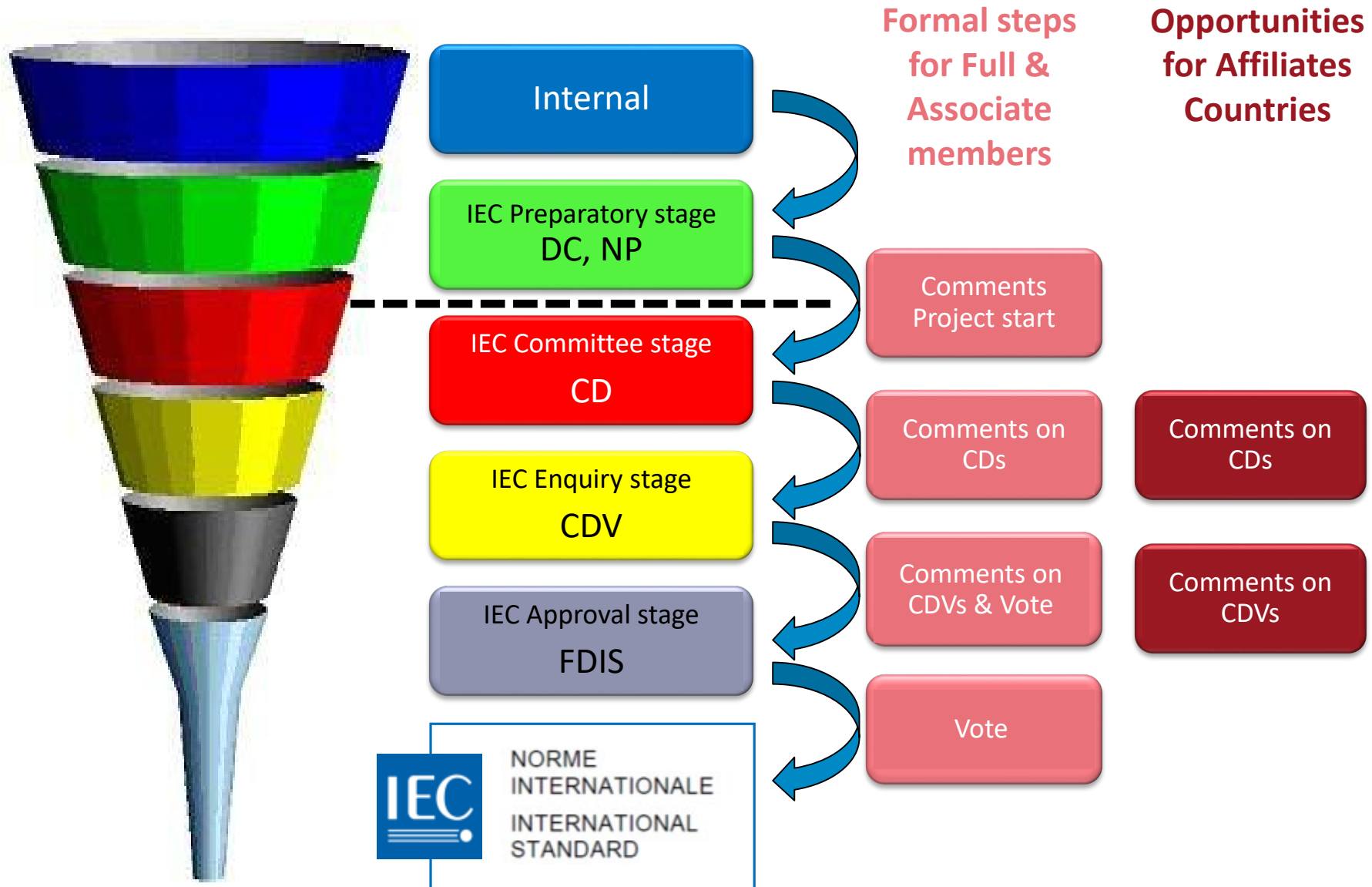
# Кто пишет международные стандарты?





# How do we get to a standard

## Opportunity to influence



## CAB - Conformity Assessment Board

### **IECEE**

System of  
Conformity  
Assessment  
Schemes for  
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

### **IEC RE**

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

**IEC** Wind  
Energy Scheme

**IEC** Solar  
Energy Scheme

**IEC** Marine  
Energy Scheme



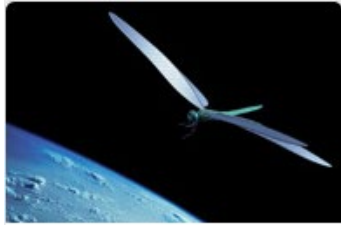
# IECEE 2'846 IEC standards used

<https://www.iecee.org/certification/overview/>

## System for conformity assessment schemes for electrotechnical equipment and components



# e-Learning modules - Е-изучение ACAS



## IEC Affiliates

IEC Programme for  
developing countries

Affiliate Country list

Affiliate Country  
Programme

Your participation

National adoptions

**ACAS**

General Meetings

Forum & Workshops

Facts & Figures

Contact

- Level 0
  - Introductory e-Learning modules
  - Available for all Affiliate participants with IEC login
- Level 1
  - Intermediate e-Learning modules
  - Available only for Affiliate participants nominated through the ACAS Pledge signed by their country
  - Short test at end of Level 1 for access to Level 2
- Level 2
  - Advanced e-Learning modules
  - Available for Affiliate participants who have passed the test for the previous levels, and whose country has signed the ACAS Declaration
  - At the end, participants will receive a "Recognition of Achievement" attesting that they have successfully completed an ACAS e-Learning course



# Признание Достижения

## Recognition of achievement



# Признание Достижения

## Recognition of achievement





# Признание Достижения

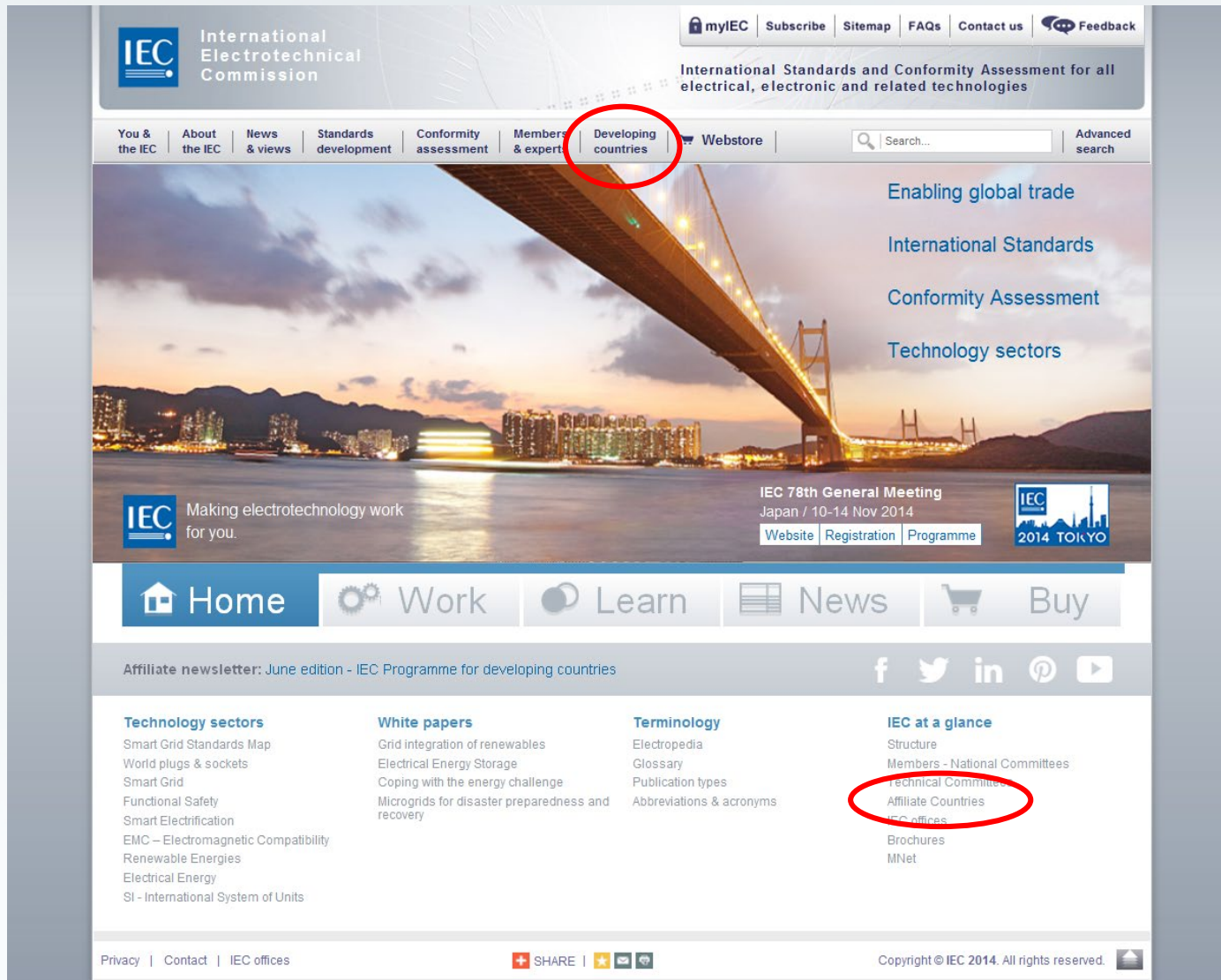
## Recognition of achievement



# Признание Достижения Recognition of achievement



# IEC Website (Affiliates section)



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Enabling global trade  
International Standards  
Conformity Assessment  
Technology sectors

**IEC** Making electrotechnology work for you.

IEC 78th General Meeting  
Japan / 10-14 Nov 2014  
Website | Registration | Programme

**IEC** 2014 TOKYO

Home | Work | Learn | News | Buy

Affiliate newsletter: June edition - IEC Programme for developing countries

**Technology sectors**  
Smart Grid Standards Map  
World plugs & sockets  
Smart Grid  
Functional Safety  
Smart Electrification  
EMC – Electromagnetic Compatibility  
Renewable Energies  
Electrical Energy  
SI - International System of Units

**White papers**  
Grid integration of renewables  
Electrical Energy Storage  
Coping with the energy challenge  
Microgrids for disaster preparedness and recovery

**Terminology**  
Electropedia  
Glossary  
Publication types  
Abbreviations & acronyms

**IEC at a glance**  
Structure  
Members - National Committees  
Technical Committees  
**Affiliate Countries**  
IEC offices  
Brochures  
MNet

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# Affiliate Welcome page



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→ **Affiliate Country Programme**

**IEC Affiliates**  
IEC Programme for developing countries

- Affiliate Country list
- Affiliate Country Programme
- Your participation
- National adoptions
- ACAS
- General Meetings
- Forum & Workshops
- Facts & Figures
- Contact

## IEC Affiliate Country Programme

Launched in 2001, the IEC Affiliate Country Programme is aimed at developing countries around the world. The Programme offers such countries a form of participation in the IEC without the financial burden of actual membership, making full use of IEC 100% electronic environment. The [WTO](#) (World Trade Organization) has complimented the IEC on the creation of the programme which provides an appropriate tool to enhance the participation in International Standardization from WTO Members in developing countries.

### Removing trade barriers

Through its global reach, the Affiliate Country Programme results in increased awareness, use and adoption of IEC International Standards in developing and newly industrialized countries. It also helps develop trade with these new markets, as participants adopt the IEC's International Standards and use its conformity assessment systems.

This is of particular interest to industry, which can export to and import from these areas with the assurance that their products and services will operate safely and efficiently.

En Fr

Feedback

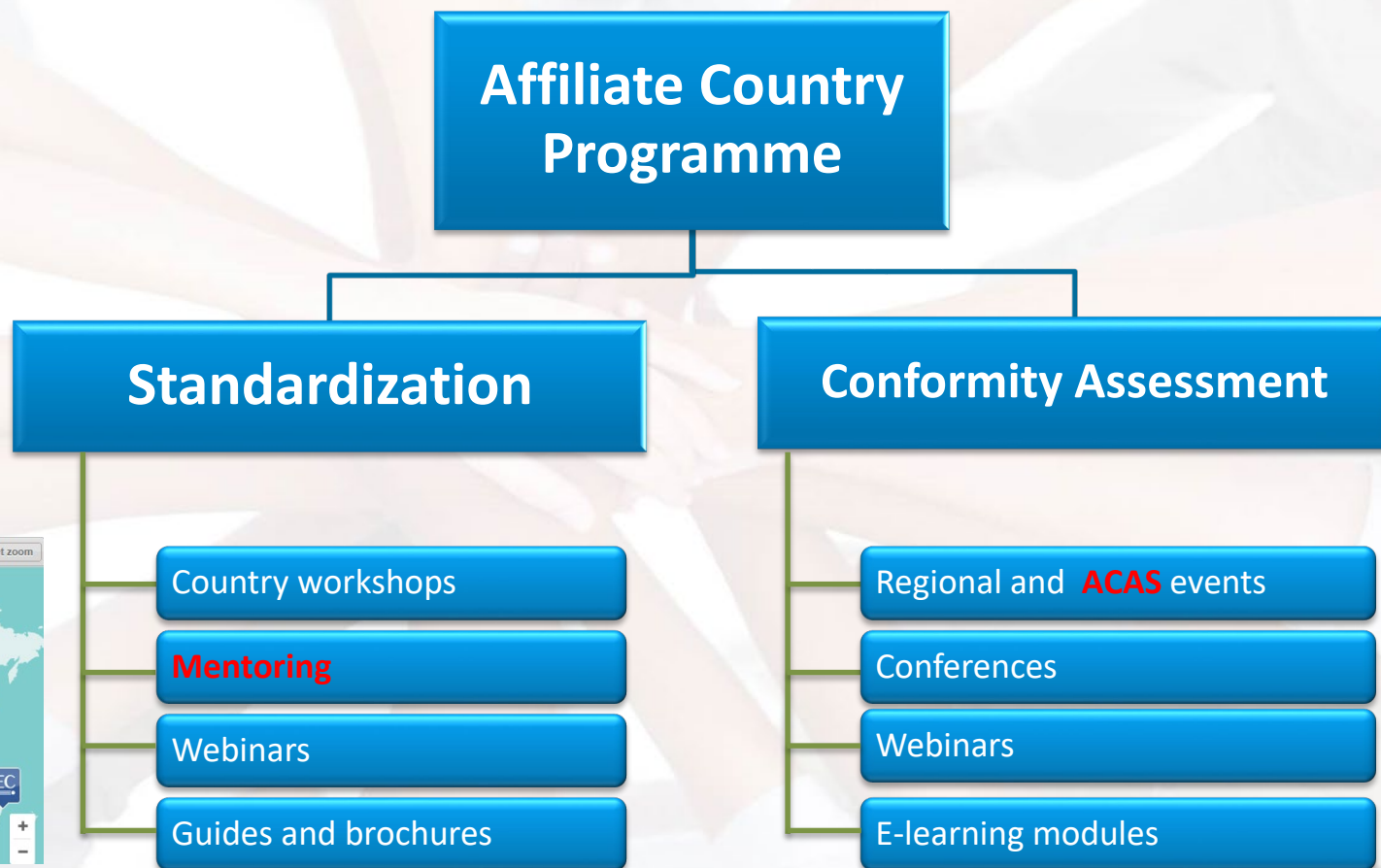
French language button

# Международная партнерская программа МЭК

- Affiliate Leader
  - Rojas Manyame
- Electricity Control Board
- Namibia
- Since 2018
- Affiliate Secretariat
  - CO Geneva



# Affiliate technical assistance in quality infrastructure





# Заявление о принятии МС МЭК подаётся на сайте <http://std.iec.ch/adoptions>

- В МЭК существует база данных по принятым международным стандартам МЭК – члены должны вносить данные о принятии напрямую
- страны-партнеры должны подать заявление о том что:
  - Принятия международных стандартов МЭК были осуществлены в соответствии с Руководством ИСО/МЭК 21 и процедурой, предусмотренной для аффилированных стран
  - В таком случае, в соответствии с национальным законом, данные стандарты могут указываться в национальных законах или регламентах
  - Все переводы были сделаны точно

# Принятие международных стандартов МЭК для аффилированных стран

- страны-партнеры могут принимать МС МЭК посредством вспомогательной процедуры (см. <http://www.iec.ch/affiliates/adoptions/procedure.htm>)
- Они бесплатно получают 200 МС МЭК (включая исправления и новые издания)
  - 400 если они имеют статус Партнер Плюс
- Им не разрешается продавать эти файлы, которые они получили бесплатно
- Они могут делать копии для членов их НЭК
- Копии для заинтересованных сторон можно приобрести в Центральном офисе МЭК со скидкой 90% если запрос делается через контакты для аффилированных стран
- Если аффилированным странам необходимо принять больше чем 200 МС МЭК (либо 400 в статусе Партнер Плюс), то дополнительные МС МЭК следует приобретать через центральный офис МЭК со скидкой 50%.
- **Облегченная процедура принятия для аффилированных стран МЭК:**

<http://www.iec.ch/affiliates/adoptions/procedure.htm>

# Как получить документы для принятия из первоисточника

- Для национальных комитетов МЭК:

Публикации МЭК в формате Microsoft Word для национального принятия

- Посетите сайт МЭК: <http://std.iec.ch/iec-lib/revisablefile.nsf/welcome?readform>
- Обратитесь в Центральное бюро : Техническая информационная поддержка и службы [tiss@iec.ch](mailto:tiss@iec.ch)

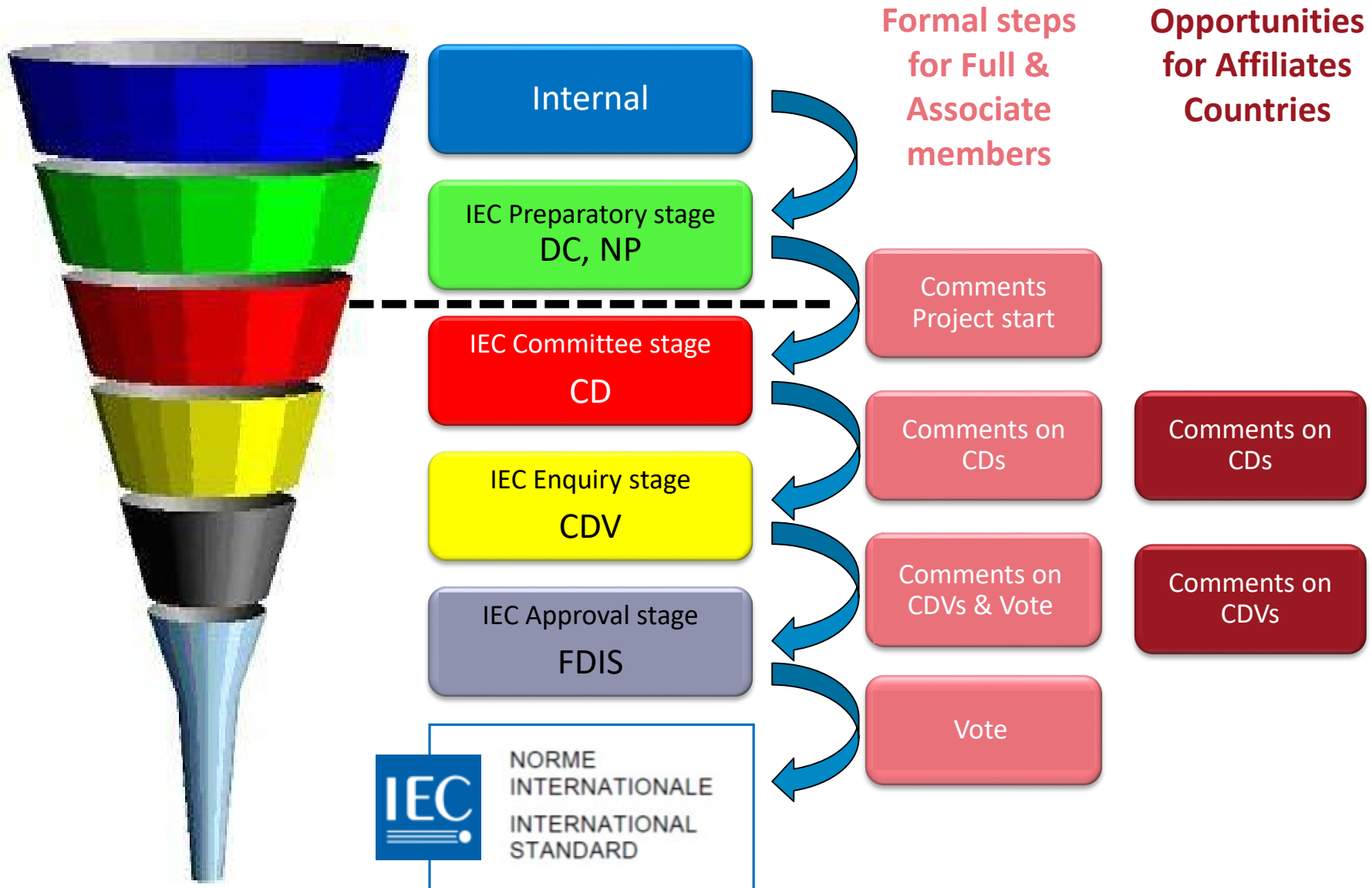
- Для аффилированных стран МЭК:

- Посетите раздел сайта, посвященный принятию на национальном уровне:  
<http://www.iec.ch/affiliates/adoptions/procedure.htm>
- Свяжитесь с аффилированным секретариатом:  
[affiliates@iec.ch](mailto:affiliates@iec.ch)



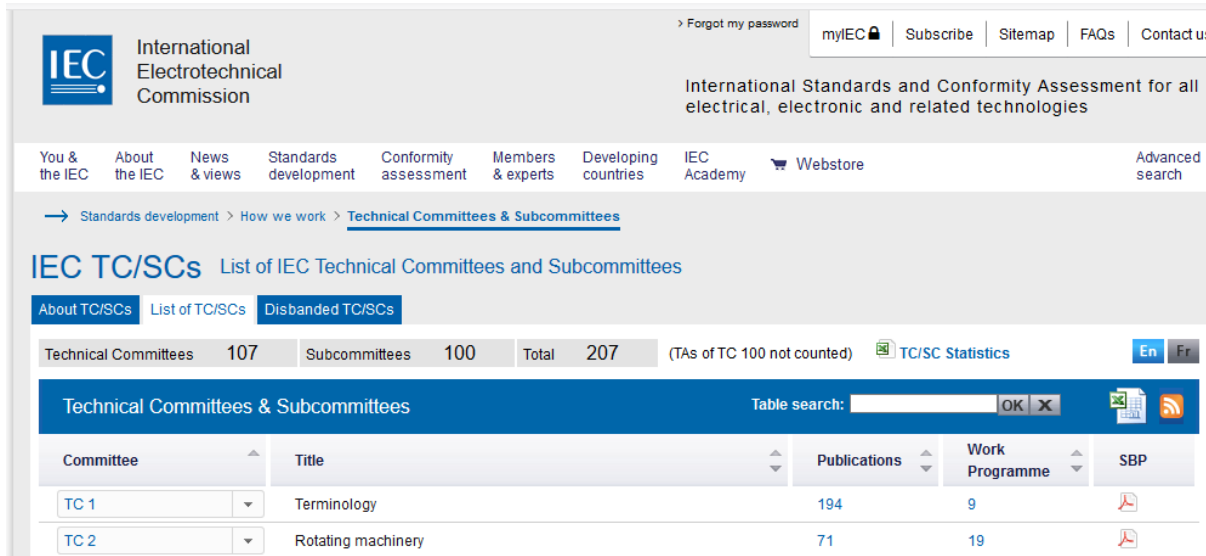
# How do we get to a standard

## Opportunity to influence



# How to select Technical Committees & Subcommittees (TCs/SCs)

- select up to 5 TCs/SCs or up to 10 TCs/SCs (if your country has a NEC)
- consult the full list of TCs and SCs on our website [www.iec.ch](http://www.iec.ch):  
Standards development > How we work > Technical Committees & Subcommittees
- select TCs or SCs in the fields of interest for your country
- nominate one or more expert(s) within your country
- send a request to the Affiliate Secretariat in order to be granted access to the selected working documents: [affiliates@iec.ch](mailto:affiliates@iec.ch)



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→ Standards development > How we work > Technical Committees & Subcommittees

## IEC TC/SCs

List of IEC Technical Committees and Subcommittees

About TC/SCs | List of TC/SCs | Disbanded TC/SCs

Technical Committees 107 | Subcommittees 100 | Total 207 (TAs of TC 100 not counted) | [TC/SC Statistics](#) | En | Fr

Committee	Title	Publications	Work Programme	SBP
TC 1	Terminology	194	9	
TC 2	Rotating machinery	71	19	

# How to find the CDs and CDVs to comment on

- go to the List of Affiliate Countries and click on your country
- click the tab Documents Open for Comments
- choose documents with a reference ending “/CD” or “/CDV” (sort by Type to find)
- download the file by clicking on the PDF format
- use the login granted by the Affiliate Secretariat

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→ About the IEC > Global reach > Affiliate Country Programme > List of Affiliate Countries > Senegal

Senegal IEC Affiliate country

General | Selected TC/SC | Adoption of IEC Standards | Documents Open for Comments | NEC

MrsXXXXXXXXXXXXX Log out En Fr

Group by : Autofilter Reset

IEC Vote	CLC Vote	Reference	Type	Committee	P / O Status	Circulation Date	Closing Date	CLC	Downloads
All	All	All	All	All	All	All	All	All	
		17/1051/CD	CD	TC 17		2019-04-05	2019-06-28	Y	2724 kB
		20/1871/CD	CD	TC 20		2019-04-19	2019-07-12	N	463 kB
		31/1479/CD	CD	TC 31		2019-05-24	2019-08-16	Y	700 kB
		34/607A/CD	CD	TC 34		2019-04-05	2019-06-21	Y	1406 kB
		59/704/CD	CD	TC 59		2019-05-17	2019-08-09	N	502 kB
		64/2374/CD	CD	TC 64		2019-05-03	2019-06-28	Y	400 kB



# How to comment:

- download the "Form Comments.dot" from our website:  
Standards Development > TC/SC resource area > Forms
- read the CD or CDV document and record your comment on the comment form
- individual experts should fill in and send it to the Secretariat of the NEC or to your NSB if your country does not have a NEC
- after the national consolidation, the NEC Secretary or the NSB should send the comment to the Affiliate Secretariat : [affiliates@iec.ch](mailto:affiliates@iec.ch)

Template for comments and secretariat observations					Date:	Document:	Project:
MB/ NC <sup>1</sup>	Line number (e.g. 17)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment <sup>2</sup>	Comments	Proposed change	Observations of the secretariat

# Armenia (AM) IEC Affiliate country



Armenian National Institute of Standards  
(SARM)  
Department for Standardization,  
Metrology and Certification  
Komitas Avenue 49/2  
0051 Yerevan  
Armenia

President  
Secretary

**To be nominated**  
**To be nominated**

Year joined the Affiliate Programme **2001**

IEC standards adopted **0**

Standards ordered from quota **45/200**

TCs/SCs selection **0**

# Azerbaijan (AZ) IEC Affiliate country



Azerbaijan Standardization Institute  
(AZSTAND)  
E.Isakzadeh str. 7th cross-street  
AZ-1029 Baku  
Azerbaijan

President  
Secretary

**To be nominated**  
**To be nominated**

Year joined the IEC

**2011**

ACAS Pledge

**1**

Mentorship

IEC standards adopted

**2**

Standards ordered from quota

**28/200**

TCs/SCs selection



# Belarus (BY) IEC Full Member



IEC National Committee of Belarus  
BELST  
93, Starovilensky Trakt  
BY-220053 MINSK  
Belarus

President

**Mr Valentin TATARITSKY**  
**Mr Yury Pashyk**

Secretary

Year joined the IEC

**1993**

IEC IS adopted (IEC database)

**398**

Secretariats

**0**

P-member in TCs/SCs

**3**

Number of experts

**417/7**

# Беларусь

## 14 молодых специалистов из Беларуси.



**Kathrin Moukha**  
Testing & Certification

Belarus



**Alex Buel**  
Testing & Certification

Belarus



**Pavel Medzenka**  
Testing & Certification

Belarus



**Siarhei Nazaranka**  
Testing & Certification

Belarus



**Vitali Zubko**  
Testing & Certification

Belarus



**Ruslan Lakomiy**  
Testing & Certification

Belarus



**Aleh Liashchynski**  
Testing & Certification

Belarus



**Mikalai Masheda**  
Testing & Certification

Belarus



**Natalia Pevneva**  
R&D establishment

Belarus



**Mikita Pashyk**  
Testing & Certification

Belarus



**Anatoli Shchatko**  
Testing & Certification

Belarus



**DZMITRY HARELIK**  
Testing & Certification

Belarus



**Yuliya Rouba**  
Testing & Certification

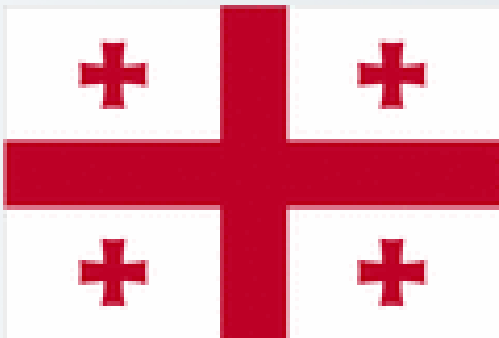
Belarus



**Aliaksandr Hrachek**  
Testing & Certification

Belarus

# Georgia (GE) IEC Associate Member



IEC National Committee of Georgia  
Georgian National Agency for Standards  
and Metrology  
67, Chargali street  
GE-0178 TBILISI  
Georgia

President  
Secretary

**Mr Sulkhan Tabaghua**  
**Ms Ketevan Kvlividze**

Year joined the IEC  
IEC IS adopted (IEC database)  
Secretariats  
P-member in TCs/SCs  
Number of experts

**2002**  
**0**  
**0**  
**4**  
**8/0**

# Kazakhstan (KZ)

IEC Associate Member



IEC National Committee of Kazakhstan  
KAZMEMST  
11 Mangilik El avenue  
Centre of Measurement Standards  
KZ-010000 ASTANA  
Kazakhstan

President  
Secretary

**Mr Arman Shakkaliyev**  
**Mrs Diana Kartbayeva**

Year joined the IEC  
IEC IS adopted (IEC database)  
Secretariats  
P-member in TCs/SCs  
Number of experts

**2001**  
**35**  
**0**  
**4**  
**25/3**



# Kyrgyzstan (KG) IEC Affiliate country



President  
Secretary

Year joined the IEC

Affiliate Plus status

ACAS Pledge

Mentorship

IEC standards adopted

Standards ordered from quota

TCs/SCs selection

Center for standardization and metrology  
under the Ministry of economic regulation  
of the Kyrgyz Republic

NISM

197, Panfilov street

720040 Bishkek

Kyrgyzstan

**To be nominated**

**To be nominated**

**2003**

**7**

**195/200**

# Moldova (MD) IEC Associate Member



IEC National Committee of Moldova  
Moldovan Electrotechnical Committee  
Secretariat held at the Institute for  
Standardization of Moldova (ISM)  
Str. E. Coca, 28  
MD-2064 CHISINAU  
Moldova, Republic of

President  
Secretary

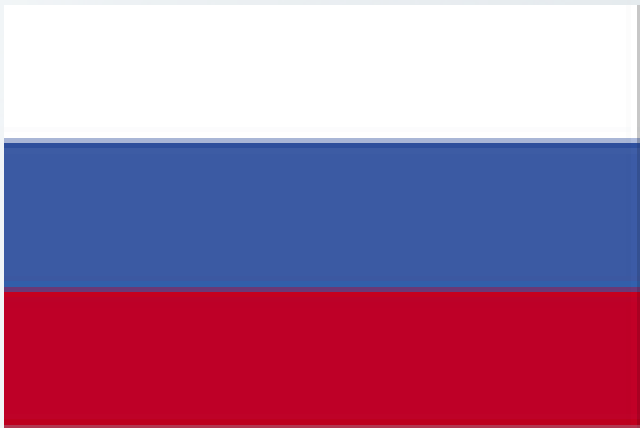
**Mr Iurii Socol**  
**Mrs Tatiana Crotic**

Year joined the IEC  
IEC IS adopted (IEC database)  
Secretariats  
P-member in TCs/SCs  
Number of experts

**2012**  
**230**  
  
**10/1**

# Russian Federation (RU)

IEC Full Member



President  
Secretary

IEC National Committee of the Russian Federation  
The Federal Agency on Technical  
Regulating and Metrology  
Presnenskaya nab. 10  
Building 2  
RU-123317 Moscow  
Russian Federation

**Mr Alexey Abramov**  
**Mrs Natalia P. Pankratova**

Year joined the IEC  
IEC IS adopted (IEC database)  
Secretariats  
P-member in TCs/SCs  
Number of experts

**1911**  
**1116**  
**3**  
**127**  
**593/432**

# Russian Federation

14 IEC YPs so far

National IEC YP programme running



**Evgeny Rashchevskiy**  
Association

Russian Federation



**Oxana Semenova**  
Association

Russian Federation



**Andrei Puzan**  
Manufacturer

Russian Federation



**Maxim Filippov**  
Association

Russian Federation



**Ilya Ovechkin**  
Testing & Certification

Russian Federation



**Sergey Dzyubanenکو**  
Manufacturer

Russian Federation



**Olga Petrova**  
Manufacturer

Russian Federation



**Aleksei Koriakin**  
R&D establishment

Russian Federation



**Andrey Zalogin**  
Testing & Certification

Russian Federation



**Evgenii Novikov**  
Testing & Certification

Russian Federation



**Anna Porshina**  
Testing & Certification

Russian Federation



**Anna Timofeeva**  
Testing & Certification

Russian Federation



**Yulia Blazhievskaaya**  
R&D establishment

Russian Federation



**Daria Shkarbanova**  
R&D establishment

Russian Federation



# Tadjikistan

- **Not an Affiliate country yet**
- **Next steps:**
  - **Inform the IEC Affiliate Secretariat about the contact who could sign the Pledge**

# Turkmenistan (TM)

IEC Affiliate country



Major State Service Turkmenstandartlary  
(MSST)  
Seydi, 14  
744000 Ashgabat  
Turkmenistan

President  
Secretary

**To be nominated**  
**To be nominated**

Year joined the IEC  
Affiliate Plus status  
ACAS Pledge  
Mentorship

**2001**

IEC standards adopted  
Standards ordered from quota  
TCs/SCs selection

**0/200**

# Ukraine (UA) IEC Full Member



IEC National Committee of Ukraine  
UkrNEC  
Secretariat held at Ukrainian Scientific,  
Research and Training Center on  
Standardization, Certification and Quality  
Problems  
2 Svyatoshynska Str.  
UA-03115 KIEV  
Ukraine

President  
Secretary

**Mr Gennadii Kachalenko**  
**Mr Volodymyr Ustimenko**

Year joined the IEC  
IEC IS adopted (IEC database)  
Secretariats  
P-member in TCs/SCs  
Number of experts

**1993**  
**263**  
**15**  
**80/16**

# Украина



Oleksii Polikarpov  
Testing & Certification

Ukraine

**1 год участия в  
программе МЭК для  
молодых  
специалистов**



# Uzbekistan (UZ) IEC Affiliate country



President  
Secretary

Year joined the IEC

Affiliate Plus status

ACAS Pledge

Mentorship

IEC standards adopted

Standards ordered from quota

TCs/SCs selection

Uzbek Agency for Standardization,  
Metrology and Certification  
(UZSTANDART)

Farobiy st. 333A

Olmazor district

UZ-100049 Tashkent

Uzbekistan

**To be nominated**

**To be nominated**

**2015**

**140/200**

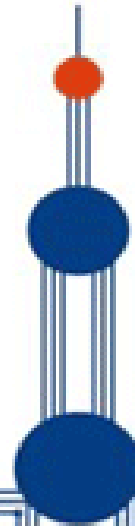
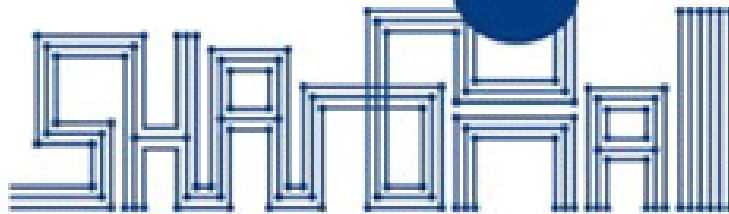
**TC 82**

# See you at the next IEC GM in Shanghai 21-25 October 2019

**83<sup>rd</sup> General Meeting  
Shanghai  
2019**



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**26 июне 201**



International  
Electrotechnical  
Commission