

## Activities of African countries in IEC technical committees



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Programme &  
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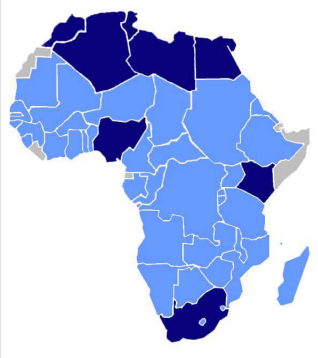
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**IEC** IEC in Africa: 47 countries



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**IEC** IEC family keeps growing in Africa

- **8 Members**
  - 4 Full Members: Algeria, Egypt, Libya, South Africa
  - 4 Associate Members: Kenya, Morocco, Nigeria, Tunisia
- **39 Affiliate Countries on the continent**
- **7 new countries since AFSEC inauguration**
  - Full members: Algeria and Libya (ex Affiliate) in 2008
  - Associate member: Morocco in 2010
  - Affiliates: Central African Republic, Chad, Congo and Gambia in 2008

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### IEC national adoptions - Members

- 3 IEC African NCs reported national adoptions
- Kenya: 531
- Nigeria: 74
- South Africa: 884
- Others to report

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### IEC national adoptions - Affiliates

- |                     |                    |
|---------------------|--------------------|
| ▪ Benin: 170        | ▪ Mauritius: 30    |
| ▪ Botswana: 75      | ▪ Rwanda*: 88      |
| ▪ DRC: 52           | ▪ Senegal: 8       |
| ▪ Côte d'Ivoire: 48 | ▪ Sierra Leone: 27 |
| ▪ Eritrea: 21       | ▪ Sudan: 7         |
| ▪ Ethiopia: 196     | ▪ Uganda*: 110     |
| ▪ Ghana*: 204       | ▪ Zambia*: 84      |
| ▪ Malawi: 200       | ▪ Zimbabwe: 16     |

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### National adoptions: top 6 in Africa

- IEC 60884 – Plugs and sockets (SC 23B)
- IEC 60227 – Polyvinyl chloride insulated cables (TC 20)
- IEC 60335 – Safety of household electrical appliances (TC 61)
- IEC 60669 – Switches for household installations (SC 23B)
- IEC 60086- Primary batteries (TC 35)
- IEC 60095 – Lead-acid starter batteries (TC 21)

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## Rights of IEC Participants

Full Members	Associate Members	Affiliates
May submit votes on <u>a</u> ll TC/SC and Council documents via electronic voting system	May submit votes/ comments on documents of <u>4</u> selected TC/SCs via electronic voting system	May not vote
May submit comments on all TC/SC and Council documents	May submit comments only on TC/SC documents but not on Council documents	May submit comments on the documents of <u>10</u> selected TC/SCs by e-mail
Fully participate in international standardization activities	Limited participation of countries with limited resources	A type of participation, but not membership

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## Technical committees: how they work

- Technical committees (TC) and subcommittees (SC) are made up of
  - a secretariat
  - a chairman
  - members, which are the national committees (NC)
- All NCs are free to take part in the work of any TC, either
  - actively (P-members), carrying the obligation to vote on drafts and to attend meetings; or
  - as observers (O-members), with a right to vote on FDIS

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## Technical participation/ IEC Members

- Algeria: TC 20, TC 82
- Egypt: 37 TC/SCs + O-status in 8 TC/SCs
- Kenya: SC17D, TC21, TC35, TC 82
- Nigeria: TC 44, TC 77, TC 82
- South Africa: 67 TC/SCs + O-status in 51 TC/SCs
- Tunisia: TC 20, TC 23, TC 61, TC 77

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### Technical participation/ Affiliates (1)

- Angola: 82
- Benin: 17, 17D, 20, 23, 37, 61, 61C, 61D, 64, 82
- Botswana\*: 20, 23, 34, 59, 61, 81, 82
- Côte d'Ivoire: 17, 20, 23, 32, 34, 35, 59, 61, 64, 81, 82
- DRC: 2G, 3, 13, 17, 23, 34, 35, 64, 66,82
- Ethiopia: 20, 21, 23B, 34, 35, 59, 61, 64, 66, 99
- Gabon: 23B, 23E, 34A, 61
- Gambia: 7, 18A, 20, 21, 23, 23B, 61, 61C, 64, 82
- Ghana: 59, 61, 82

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### Technical participation/ Affiliates (2)

- Malawi: 15, 20, 21, 23, 32, 34, 35, 61, 81, 82
- Rwanda: 8, 13, 17, 20, 23, 32, 34, 46, 59, 61, 82
- Senegal: 17, 20, 23, 34, 35, 59, 61, 64, 82
- Seychelles: 61, 66
- Sierra Leone: 15, 16, 20, 22, 32, 46, 59, 70, 108, 82
- Sudan: 2, 7, 17, 20, 23, 26, 35, 61, 100, 82
- Tanzania\*: 14, 17, 20, 22, 34, 35, 61, 64, 79, 82
- Uganda: 17, 20, 23, 34, 35, 59, 61, 64, 81, 82
- Zambia: 20, 46
- Zimbabwe: 14, 15, 17, 20, 23, 34, 36, 59, 61, 64

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### Top 10 IEC technical fields in Africa (1)

- TC 61: Safety of household and similar electrical appliances (50 countries)
- TC 23: Electrical accessories (46 countries)
- TC 34: Lamps (29 countries)
- TC 59: Performance of household and similar electrical appliances (18 countries)
- TC 17: Switchgear and controlgear (15 countries)

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### Top 10 IEC technical fields in Africa (2)

- TC 20: Electric cables (15 countries)
- TC 21: Secondary cells and batteries (14 countries)
- TC 36: Insulators (12 countries)
- TC 32: Fuses (8 countries)
- TC 108: safety of electronic equipment (8 countries)

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### Affiliates are getting involved

- 12 national electrotechnical committees (NEC) established
  - Côte d'Ivoire, Gambia, Ghana, Mauritius, Niger, Rwanda, Senegal, Sierra Leone, Sudan, Uganda, Zambia and Zimbabwe
- First comments on
  - IEC 62257 – rural electrification
  - IEC 60884 – plugs and sockets
  - IEC 61000-2-2 – electromagnetic compatibility / environment

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### Participation General Meeting/Members

- Egypt : 7
- Libya: 4
- Nigeria: 7
- South Africa: 9
- Tunisia: 1

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### Participation in General Meeting/ Affiliates

- Burundi: 1
- Cameroon: 1
- Congo: 1
- Ghana: 6
- Guinea: 1
- Malawi: 1
- Namibia: 3
- RDC: 3
- Rwanda: 2
- Senegal: 2
- Sudan: 4
- Swaziland: 2
- Uganda: 1
- Affiliate Coordinator for Africa (Kenya)

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### African Affiliates in Seattle

TC/SC	BI-1	CM-1	CG-1	RDC-3	GH-6	GN-1	MW-1	NA-3	RW-2	SN-2	SD-4	SZ-2	UG-1	Total-28
TC 1								2		2	2			6
TC 3 workshop								1			1			2
SC 30	1										1			2
SC 30	1										1			2
SC 17A											1			1
SC 17B					1									1
SC 17C											1			1
SC 17D									2	2				4
TC 23				1				1	2	1				5
SC 23A				1						2			1	4
SC 23E										1				1
TC 31		1												1
SC 34D									2					2
TC 46		1												1
SC 47A											1			1
SC 59A								1						1
TC 59				5				1	1	1	1			9
SC 59C														0
SC 59D									1					1
SC 59E								1						1
SC 59M														0
TC 61				5				1	2	2	1	1		11
TC 81				5				1						6
TC 89				4				1						5
TC 95				4						1				5
TC 100 / TA 4														0
TC 100 / TA 12				1										1
TC 111										2	1			3
TC 112										2				2
TC 115				4				1						5

BI Burundi, CM Cameroon, CG Congo, RDC Congo (Democratic Rep. of), GH Ghana, GN Guinea, MW Malawi, NA Namibia, RW Rwanda, SN Senegal, SD Sudan, SZ Swaziland, UG Uganda

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### Next steps for AFSEC

- Establish IEC mirror committees
- Share resources to work on IEC projects
- Share resources to adopt IEC Standards
- Harmonization, if necessary
- For Africa to bring a larger contribution to the IEC family

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## Get Africa on board

- Asia and Latin America are already there
- What about Africa?
- We are at a starting point, and
- IEC will be on AFSEC's side along the way
- But how can IEC help ?
- Let's move together to get Africa on board
- IEC needs your feedback NOW...

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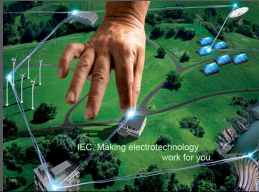
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INTERNATIONAL  
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## Thank you



[www.iec.ch](http://www.iec.ch)

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