

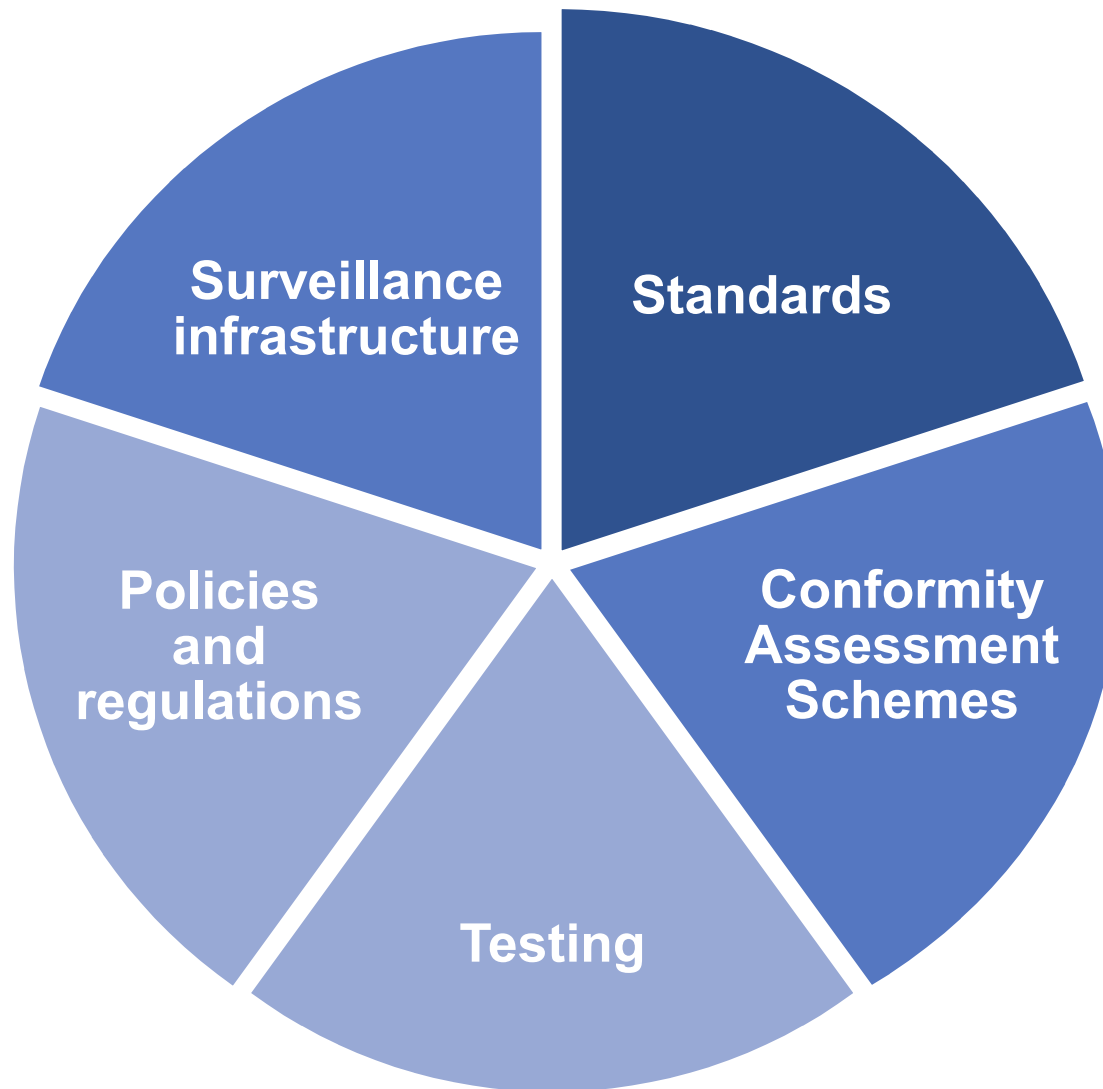
A photograph of a man wearing a white turban and a white shirt, smiling as he looks at a tablet. A young boy in a light green shirt is standing next to him, also looking at the tablet. The background is a blurred outdoor setting with dry grass.

Integration of quality infrastructure into public policy and regulation in South Asia

Vimal Mahendru
IEC Ambassador

IRENA DDW (ACEF 2018)
June 5-8, 2018
Manila, Philippines

Quality infrastructure wheel

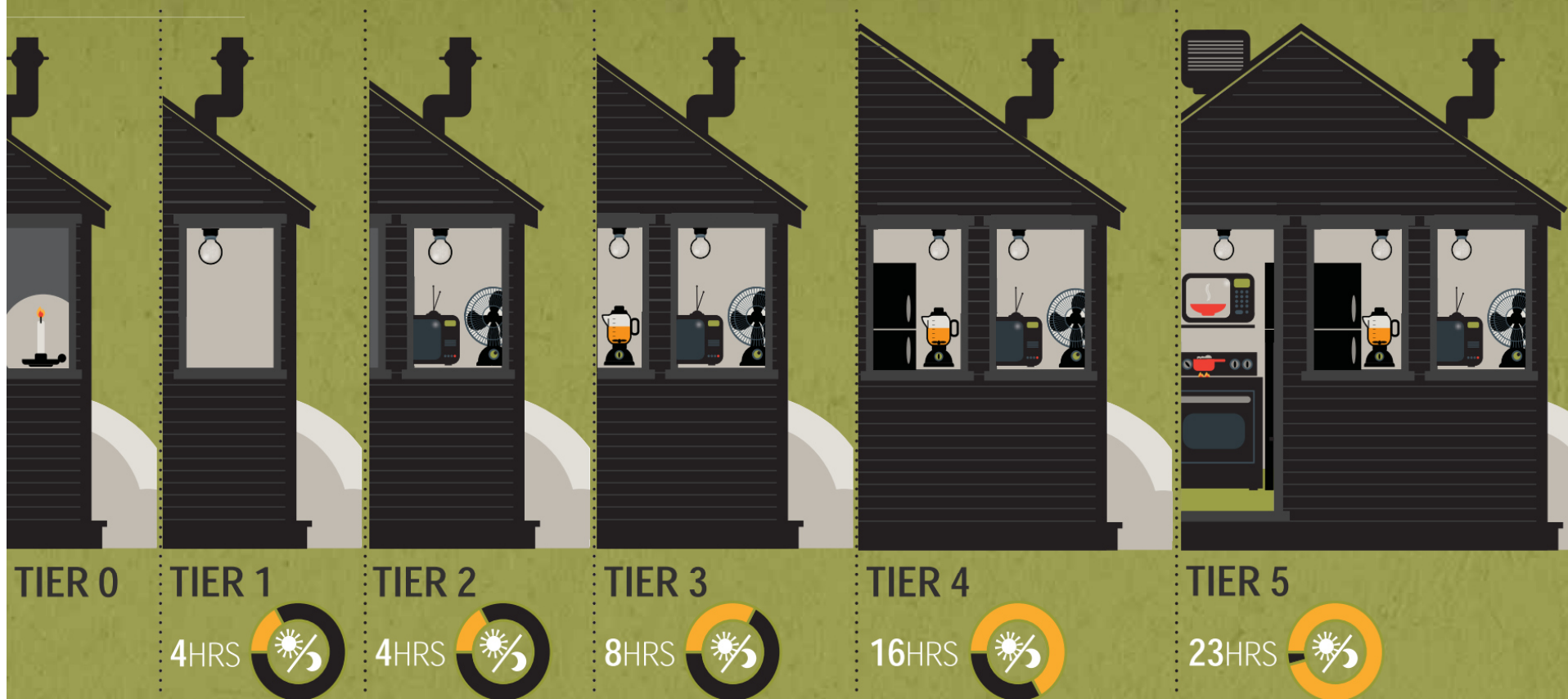


A photograph showing a person from behind, wearing a blue and black striped shirt and dark pants, cooking over an open fire. The fire is burning in a large, cylindrical metal pot. The person is holding a long-handled spoon and stirring the contents of the pot. The background is dark and smoky, suggesting an outdoor or semi-outdoor cooking area. The text "1 in 5 has no access to electricity" is overlaid in yellow with a black outline.

1 in 5 has no access
to electricity



Measuring energy access: the multi-tiers



World Bank Multitier Framework for Energy Access
(<https://www.esmap.org/node/55526>)

Policy on Quality Infrastructure,

Example from India

1986 - The Parliament empowers Bureau of Indian standards,

2014 - BIS receives mandate to create standards for enabling rapid electricity access,

2014 - India (BIS) gets involved with IEC for electricity access standards development

2017 - Indian DC Standard for electricity access for Tier 2 and Tier 3 published, with ongoing marketing and awareness, and embedding in government projects

2019 - IEC standard for electricity access addressing ESMAP Multi Tier Framework published

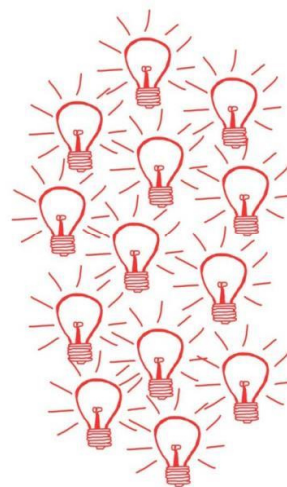


About the IEC

World's leading provider of International Standards and Conformity Assessment Systems in electrotechnology

Not-for-profit, non-governmental organization founded in 1906

- 85 members
- 86 affiliates
- >200 committees
- 20 000 experts
- 10 000 International Standards
- 4 Conformity Assessment Systems
- >1 million certificates issued



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Some key standardization work by the IEC

- Decentralized rural electrification (62257 Series)
- Solar PV Standards
- Micro and Pico hydro power Standards
- Wind turbines (61400 Series)
- Energy storage (62933 Series)
- LVDC Standards (being developed)
- Low Voltage Electrical Installations (60364 Series)
- Lighting and other device level Standards

Benefits of IEC Standards

- **Governments & regulators**
 - Best technical source for laws and regulations
 - Compliance with WTO Technical Barriers to Trade (TBT) Agreement
 - Protection of populations
- **Businesses**
 - Product safety and quality
 - Interoperable ecosystems
 - Cost reductions
 - Early warning of developing markets



WORLD TRADE
ORGANIZATION



1 NO POVERTY



2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



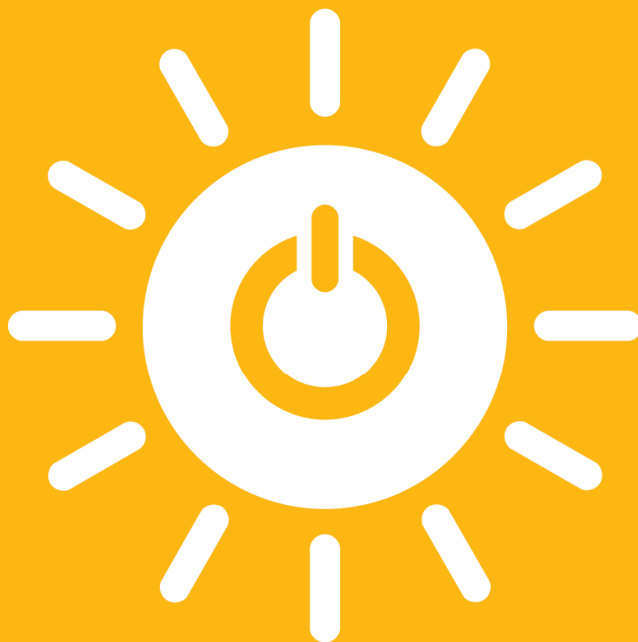
11 SUSTAINABLE CITIES AND COMMUNITIES



13 CLIMATE ACTION



7 AFFORDABLE AND CLEAN ENERGY



10 REDUCED INEQUALITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



IEC

17 PARTNERSHIPS FOR THE GOALS



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Thank you!

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