



DECADE OF >>> ACTION

Sustainable Development Goals and impact on IEC standardization

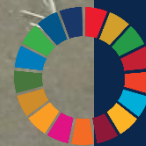
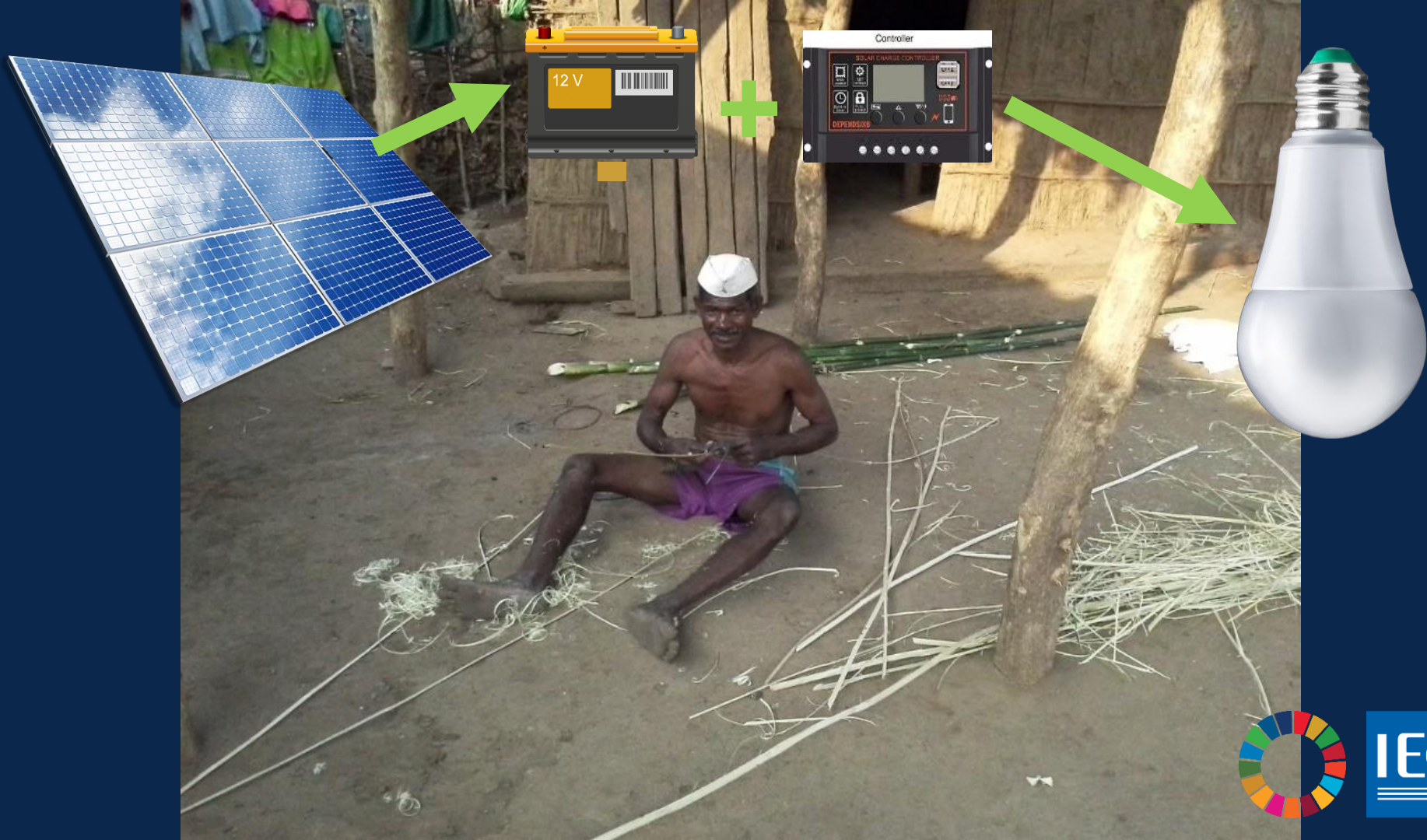
Philippe Metzger
IEC General Secretary

Vimal Mahendru
IEC Ambassador

Thomas Korssell
Secretary, SE NC

9 September, '20
IEC Academy Webinar







SDG 7 – Ensure access to affordable, reliable, sustainable and modern energy for all

- 5 targets, 6 indicators
- Comprehensive work on voluntarily disclosing achievements on an annual basis
- Progress reports published by UNDP



<https://unstats.un.org/sdgs/indicators/database/>



SDG 7 Targets	SDG 7 Indicators
7.1 By 2030, ensure universal access to affordable, reliable and modern energy services	7.1.1 Proportion of population with access to electricity 7.1.2 Proportion of population with primary reliance on clean fuels and technology
7.2 By 2030, increase substantially the share of renewable energy in the global energy mix	7.2.1 Renewable energy share in the total final energy consumption
7.3 By 2030, double the global rate of improvement in energy efficiency	7.3.1 Energy intensity measured in terms of primary energy and GDP
7.a By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology	7.a.1 International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems
7.b By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States and landlocked developing countries, in accordance with their respective programmes of support	7.b.1 Installed renewable energy-generating capacity in developing countries (in watts per capita)



SDG-12 – Ensure sustainable consumption and production patterns

- 11 targets and 13 indicators,
- Detailed progress report online
- Special focus on Water, Food and Energy



<https://unstats.un.org/sdgs/indicators/database/>



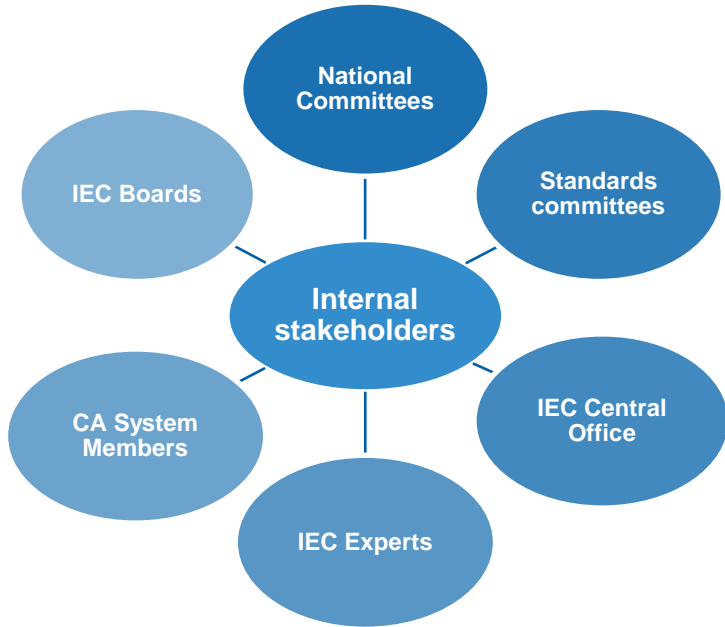
SDG 12 Targets	SDG 12 Indicators
12.1 Implement the 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns, all countries taking action, with developed countries taking the lead, taking into account the development and capabilities of developing countries	12.1.1 Number of countries developing, adopting or implementing policy instruments aimed at supporting the shift to sustainable consumption and production
12.2 By 2030, achieve the sustainable management and efficient use of natural resources	12.2.1 Material footprint, material footprint per capita, and material footprint per GDP 12.2.2 Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP
12.3 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses	12.3.1 (a) Food loss index and (b) food waste index
12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment	12.4.1 Number of parties to international multilateral environmental agreements on hazardous waste, and other chemicals that meet their commitments and obligations in transmitting information as required by each relevant agreement 12.4.2 (a) Hazardous waste generated per capita; and (b) proportion of hazardous waste treated, by type of treatment
12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse	12.5.1 National recycling rate, tons of material recycled
12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle	12.6.1 Number of companies publishing sustainability reports
12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities	12.7.1 Degree of sustainable public procurement policies and action plan implementation
12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature	12.8.1 Extent to which (i) global citizenship education and (ii) education for sustainable development are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment
12.a Support developing countries to strengthen their scientific and technological capacity to move towards more sustainable patterns of consumption and production	12.a.1 Installed renewable energy-generating capacity in developing countries (in watts per capita)
12.b Develop and implement tools to monitor sustainable development impacts for sustainable tourism that creates jobs and promotes local culture and products	12.b.1 Implementation of standard accounting tools to monitor the economic and environmental aspects of tourism sustainability
12.c Rationalize inefficient fossil-fuel subsidies that encourage wasteful consumption by removing market distortions, in accordance with national circumstances, including by restructuring taxation and phasing out those harmful subsidies, where they exist, to reflect their environmental impacts, taking fully into account the specific needs and conditions of developing countries and minimizing the possible adverse impacts on their development in a manner that protects the poor and the affected communities	12.c.1 Amount of fossil-fuel subsidies per unit of GDP (production and consumption)

Key actions by IEC

1. **Reflecting** the commitment to SDGs through its work
2. **Engaging** all aspects of IEC; standardization, conformity assessment, market watch
3. For IEC community, **Outreach**, training, sensitization
4. **Review** mechanism to monitor and provide **feedback** on progress of IEC Standards and SDGs



Listening to all stakeholders



UN Organizations

REN21, UNECE, UNEP, SE4ALL, UN Foundation, UNISDR, UNIDO, ICAO, IMO, IMF, World Bank, WHO (to be completed)



SDGs in IEC standards work

- **Approval of new projects**
(the **NP** form includes the list of SDGs)
- **Maintenance projects of existing standards**
(the **RR** form includes the list of SDGs)
- **Technical Committees' Strategic Business Plan**
(the **SBP** form includes the list of SDGs)
- **Activity report to the Standardization Management board**
(the **RSMB** form includes the list of SDGs)
- **Establishment of a new technical committee**
(the **NTC** form includes the list of SDGs)
- **Publication of a new standard**
(the marketing form includes the list of SDGs)



SDGs in IEC forms

Several IEC forms used for standards work now include a section where it is possible to check the SDGs which are expected to be supported

Please select any UN Sustainable Development Goals (SDGs) that this committee will support. For more information about SDGs, please visit our website at <https://www.iec.ch/SDG/>

- | | |
|---|---|
| <input type="checkbox"/> GOAL 1: No Poverty | <input type="checkbox"/> GOAL 10: Reduced Inequality |
| <input type="checkbox"/> GOAL 2: Zero Hunger | <input type="checkbox"/> GOAL 11: Sustainable Cities and Communities |
| <input type="checkbox"/> GOAL 3: Good Health and Well-being | <input type="checkbox"/> GOAL 12: Responsible Consumption & Production |
| <input type="checkbox"/> GOAL 4: Quality Education | <input type="checkbox"/> GOAL 13: Climate Action |
| <input type="checkbox"/> GOAL 5: Gender Equality | <input type="checkbox"/> GOAL 14: Life Below Water |
| <input type="checkbox"/> GOAL 6: Clean Water and Sanitation | <input type="checkbox"/> GOAL 15: Life on Land |
| <input type="checkbox"/> GOAL 7: Affordable and Clean Energy | <input type="checkbox"/> GOAL 16: Peace, Justice and Strong Institutions |
| <input type="checkbox"/> GOAL 8: Decent Work and Economic Growth | <input type="checkbox"/> GOAL 17: Partnerships to achieve the Goal |
| <input type="checkbox"/> GOAL 9: Industry, Innovation and Infrastructure | |



1 in 7 has no access to
electricity

2 in 5 have no access to
clean cooking



Image adapted from www.vox.com



Measuring energy access: the multi-tiers



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



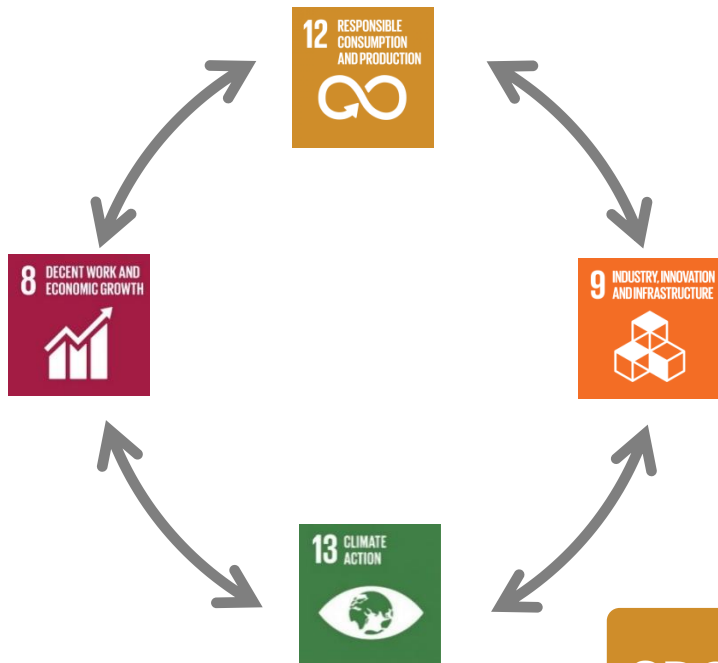
IEC Systems Committee Low Voltage Direct Current (SyC LVDC)



- System standard enabling Tiers 2~3 of the World Bank framework
- To be completed in H2, 2021
- Applicable across the world
- To power small homes and small businesses



IEC Advisory Committee on Environmental Aspects (ACEA)



- Environmentally conscious design, IEC 62430, IEC/TR 62824 (IEC TC 111)
- Refurbishment and testing after repair of medical equipment, IEC 63077, IEC 62353 (IEC TC 62)
- Dependability of products containing reused parts, IEC 62309 (IEC TC 56)

SDG12 focuses on saving Food, Water, Energy

IEC TC 29 – Electroacoustics

- Developing framework for testing hearing devices
- Instrumentation specifications and methods of testing, which eventually enables to have lower sound and noise levels



IEC TC 119 – Printed electronics

- New materials and processes enabling the circular economy
- Promoting through standards, “**Repair, Reduce, Reuse, Repurpose and Recycle**”



The SDGs journey at the Swedish National Committee



A SUSTAINABLE FUTURE FOR ALL



- RAISE AWARENESS
- STRATEGICALLY
- ARTICLES AND NEWS
- SOCIAL MEDIA



THE POWER OF SOCIAL MEDIA

- KEY MESSAGES – SDG 2030
- TARGET GROUPS
- EASY ACCESS
- LINKEDIN
- GOVERNMENTAL COLLABORATION





STANDARDS FOR A SUSTAINABLE FUTURE

- ENGAGEMENT
- KNOWLEDGE
- INNOVATIVE TECHNOLOGIES
- COLLABORATION
- RESPONSIBILITY
- A MORE SUSTAINABLE WORLD



THANK YOU

THOMAS KORSELL

CEO
Secretary of the Swedish
national committee of IEC
SEK SVENSK ELSTANDARD

[linkedin.com/company/
sek-svensk-elstandard](https://linkedin.com/company/sek-svensk-elstandard)

[elstandard.se/standards-for-a-
sustainable-future/](https://elstandard.se/standards-for-a-sustainable-future/)



The IEC SDGs Briefing Paper

In 2019, the IEC Standardization Management Board (SMB) formed a group (ahG 84) to evaluate the present and future contributions of IEC to SDGs. In February 2020, the final report of this group was submitted to the SMB and approved with an overwhelming majority. This briefing paper is based on the findings and recommendations of ahG 84.

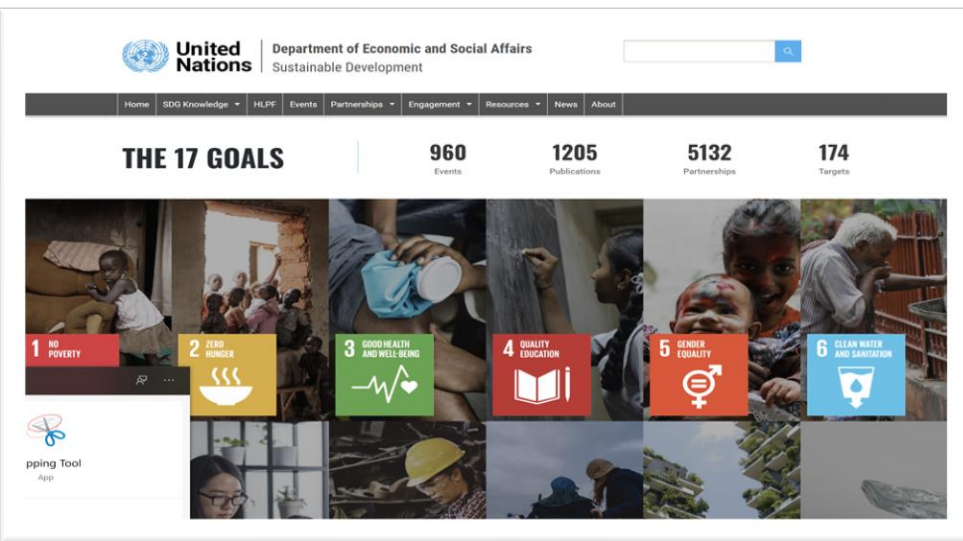
<https://basecamp.iec.ch/download/briefing-paper-how-the-iec-helps-achieve-the-sdgs-en/>



How the IEC helps achieve the SDGs

Working towards a sustainable future

Q & A



For further information

UN SDGs website (sdgs.un.org/goals)

IEC website (www.iec.ch)

IEC SDGs micro-site (www.iec.ch/sdg)

IEC templates (<https://go.iec.ch/templates>)

IEC global webinars (www.iec.ch/academy)



IEC: we make a difference



Prokerala.com





DECADE OF ACTION

- Download the SDG Briefing Paper; distribute extensively
- Participate in your national SDG strategy,
- Share good practices, challenges and learnings





Image adapted from www.movemeback.com



Get engaged!