

## Annex D



# SMB/7185/R

### STRATEGIC BUSINESS PLAN (SBP)

IEC/TC OR SC: <b>TC 25</b>	SECRETARIAT: <b>Italy</b>	DATE: <b>2020-12-02</b>
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Please ensure this form is annexed to the Report to the Standardization Management Board if it has been prepared during a meeting, or sent to the Central Office promptly after its contents have been agreed by the committee.

#### A. STATE TITLE AND SCOPE OF TC

**TITLE:** IEC TC 25, Quantities and units.

**SCOPE:** To develop International Standards on quantities and units to be used in electro-technology. The standards provide provisions relating to: terms, definitions, signs, letters and symbols.

The TC 25 International Standards contribute to help ensure that the corpus of documents published by IEC are consistent and coherent as to their references to quantities and related units – a fundamental requirement to facilitate world trade by removing technical barriers between countries and/or regions.

#### B. MANAGEMENT STRUCTURE OF THE TC

The structure of TC 25 is shown on the TC 25 dashboard @ <https://www.iec.ch/tc25>.

As of the date of this SBP, TC 25 comprises:

- a Joint Working Group with ISO/TC 12 *Quantities and units*, having the purpose to develop and maintain the IEC parts of the standards series IEC 80000 and ISO 80000;
- a Maintenance Team having the purpose to maintain standards relating to:
  - (I) letter symbols to be used in telecommunications and electronics, in rotating electric machines and in transmission and distribution of power generation;
  - (II) conventions concerning electric circuits;
  - (III) quantities and transformations in the modal components in three-phase AC systems in the field of electric power engineering;
- an Advisory Group having the scope to assist the Chair and the Secretariat in tasks concerning coordination, planning and steering of the committee's work or other specific tasks of advisory nature.

Internal liaisons with IEC committees responsible for domains complementary to that of TC 25 are established. Close cooperation is maintained with IEC TC 1, *Terminology*, especially concerning some parts of the International Electrotechnical Vocabulary (IEV). Important for the development and maintenance of the standards series IEC 80000 and ISO 80000 (Quantities and units) is the long-time liaison with ISO/TC 12, *Quantities and units*. IEC TC 25 also maintains liaisons with several external organizations including BIPM, CIE, ITU, IUPAP, OIML, and UNICODE.

### C. BUSINESS ENVIRONMENT

The International Standards developed by TC 25 are used as a reference by other IEC committees. The evolution of applications relating to electromagnetic and optical technologies applied to communication and information technology, data transmission, processing and storage, as well as those relating to power technologies, requires the development of reference standards defining the respective quantities and units. The standards series IEC 60027 has a significant impact on other International, regional and national standards, as well as on regulations. Various parts of the standards series IEC 60027, IEC 80000 and ISO 80000 are mentioned in the ISO/IEC Directives, Part 2.

### D. MARKET DEMAND

The customers and users of TC 25 standards include:

- all the people involved in the drafting of technical documents, in particular standards and technical drawings, whenever quantities and related units are involved;
- certification bodies, instrument calibration and testing accredited laboratories and manufacturers of all types of electrical equipment;
- teachers and students, especially those in electrical engineering and physics;
- all the other IEC committees.

Indeed, the standardization of units and of symbols for quantities and units is an essential prerequisite for the design and construction of every type of electrical and electronic equipment.

### E. SUSTAINABILITY DEVELOPMENT GOALS

INDICATE THE SUSTAINABLE DEVELOPMENT GOALS (SDGs) THAT ARE ADDRESSED BY WORK WITHIN THE TC/SC. INDICATE EACH SDG INDICATOR AFFECTED (REFERENCE SPREADSHEET AVAILABLE AT [HTTPS://WWW.IEC.CH/SDG/](https://www.iec.ch/SDG/)), AND PROVIDE SPECIFIC INFORMATION ABOUT HOW THE TC/SC IS ADDRESSING THE SDG. CONSIDER BOTH DIRECT AND INDIRECT IMPACTS OF THE WORK OF THE TC/SC.

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

### F. TRENDS IN TECHNOLOGY AND IN THE MARKET

TC 25 International Standards are essential:

- (I) to facilitate international trade and to support international business;
- (II) to ensure effective communication among laboratories and industrial partners;
- (III) to facilitate research and development within the worldwide scientific and technical community;
- (IV) to guarantee an efficient application of technologies at a worldwide level for industry and science.

The boundaries between the traditional fields of the IEC are shifting, and the need to apply standardized quantities and units is more important today than ever before.

**G. SYSTEMS APPROACH ASPECTS (SEE DIRECTIVES PART 1 ANNEX SP)**

TC 25 has not activities attributable to the systems approach aspects.

**H. CONFORMITY ASSESSMENT**

For the nature of topics treated by TC 25, the International Standards produced by TC 25 do not contain anything relating to conformity assessment.

**I. 3-5 YEAR PROJECTED STRATEGIC OBJECTIVES, ACTIONS, TARGET DATES**

STRATEGIC OBJECTIVES 3-5 YEARS	ACTIONS TO SUPPORT THE STRATEGIC OBJECTIVES	TARGET DATE(S) TO COMPLETE THE ACTIONS
Ensure that the TC 25 International Standards on quantities and units (as well as terms, definitions, signs and symbols) are fit for purpose for use in all fields of activity of the IEC.	On an annual basis, identify evolving and new technology sectors that might require the development of new standards or the maintenance of existing standards.	By December of each year
	On an annual basis, review the current structure in line with the SMB guidance to keep the organization as lean as possible and to take advantage of all available work structures SC/WG/PT/MT for effective operation.	By December of each year
Nurture relationships with organizations having an A liaison with TC 25. Increase A liaisons with international organizations where this would be beneficial to TC 25.	Continuously consider market trends and impacts. Identify areas for improvement /development.	By December of each year
	Monitor new activities in IEC and ISO and consider the impact on TC 25. Determine where TC 25 input/expertise will be needed.	By December of each year
	Encourage participation of new market players, especially those from emerging economies and developing Countries.	By December of each year
Identify new technical fields of activity requiring support from TC 25 activities. Establish appropriate working groups or subcommittees for such activities as necessary	Encourage NCs to provide input on a continuous basis.	Ongoing

Note: The progress on the actions should be reported in the RSMB.