



Fastställer all svensk standard inom elområdet
Publish all electrotechnical standards in Sweden

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Electrotechnical standards - development

- ❖ **SEK Svensk standard is a non-profit organisation with more than 300 registered stakeholders represented by almost 850 active experts who participate in the technical work of SEK (Sweden), CENELEC (European Standardization organisation) and IEC (International Standards organisation).**
- ❖ **The working areas cover more than 280 different Technical Committees and nearly 1800 working groups with more than 30000 participating experts from about 170 countries.**
- ❖ **SEK has today more than 8500 valid electrotechnical standards.**
- ❖ **All standards are developed by Technical Committees (working groups) on a *voluntary* basis in *openness, transparency* and by *consensus*. All standards are made available, but not free of charge, after the final approval.**
- ❖ **Standards only work when the content are up-to-date and corresponds to the state-of-the-art market requirements and, of course, are properly used. → It is crucial to have updated and capable technicians and knowledgeable experts in the development of standards writing understandable and comprehensible technical documents.**
- ❖ **Future important working areas 1) Energy transition, 2) Environment and Sustainability (circular economy), 3) Digitalization, Cybersecurity and AI**

Electrotechnical standards - users

- ❖ Millions of business, organisations and authorities are applying and using electrotechnical standards every day.
 - ❖ Standards often provide solutions to technical problems.
 - ❖ Standards ensure the components and products we use are safe and reliable, and that different appliances and pieces of equipment can connect and work together in different systems.
 - ❖ Standards make our lives safer, simpler, more comfortable and more efficient.
 - ❖ Participation in the standardization gives
 - influence of the content in standards → ensure that your products fits to standards
 - insight of future standards and contents → strategic impact for your company
 - meeting likeminded as well as customer and competitor → Network building
 - development of standards give technical insight and education by the world leading experts → Improve your CV...
- Participation in SEK technical work is free of charge for academic employees.

Electrotechnical standards – latest technical areas

- ❖ Quantum Technologies
- ❖ Sustainable Electrified Transportation
- ❖ Bio-digital Convergence
- ❖ Rotating electrical machines for the traction of road vehicles
- ❖ Robotics for electricity generation, transmission and distribution systems
- ❖ Electrical equipment under extreme climate, environmental and disaster conditions
- ❖ Metaverse
- ❖ Brain-computer Interfaces
- ❖ Standardization of Sustainability Technologies
- ❖ Artificial Intelligence and Governance of Artificial Intelligence

Read more on:

<https://elstandard.se/>

<https://www.cencenelec.eu/>

<https://iec.ch/>



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