

## IEEE Standards Development in India



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IEEE Standards Association (IEEE-SA), the standards development body of the IEEE, is a global SDO with over 1200 standards in active publication and more than 500 standards in active development across various technical societies. These standards are developed by over 20000 volunteers and 200 corporate members globally. The IEEE Standards Association is a global organization where participants (volunteers) come together to develop standards independent of any government organization and is governed by volunteers across the world.

The importance of India as an emerging market with a strong emphasis in next generation technology is well recognised. IEEE-SA recognizes India and its growing R&D engineers as a key community to work with as part of its standards initiatives with a focused engagement starting in 2010 in line with the increasing commitment of IEEE-SA to the Indian market. The engagement of the IEEE-SA started in a small way by creating a Standards Interest Group (SIG) in various key technology sectors to bring together the engineering community around core areas to understand, discuss and identify need for new standards. The SIG in many areas has now grown to a more formal engagement and participation of the technical experts in various standardization groups within the IEEE-SA. With the IEEE offices being established in June 2011, IEEE Standards has a strong staff leadership presence in India driving the vision and objectives of the organisation in the region.

IEEE-SA, through its global vision has strong partnerships in the region with government institutions, corporates and industries, R&D labs, academia and other relevant stakeholders important to the standards development activity in India. This focused engagement will not only enable a two-way dialog between IEEE and the Indian entities with regards to standards requirements including regulation and policy, but also disseminate IEEE's vast experience in standards development with key stakeholders and most importantly encourage development of future global standards from India.

A good standard provides a balanced blend of technical alternatives, economic needs and ensures that the standards are able to be adopted across regions and countries globally. The only way this can be achieved is by engaging technology experts all around the world including India to participate actively in standards working groups. This will enable engineers to understand the evolution and growth of various technologies and also ensure that the standards capture the Indian requirements adequately. For example, in the area of Smart Grid, IEEE-SA with over 100 standards and standards-in-development spanning the entire Smart Grid spectrum and is playing the role of an ecosystem facilitator in India investing in awareness and education initiatives as well. More standards are in the pipeline providing among the most comprehensive, globally accepted and validated set of standards that enable better interoperability, connection, communication and management of the various elements that go into a Smart Grid system.

### **Participation in IEEE-SA Standards Development Programs**

The IEEE Standards Association develops standards under two methods, the individual based process and the entity based process. In an individual based process, any individual can join as a member of the working group focused on the standards development project. Joining a working group for an individual based standard, IEEE-SA does not have any requirement for the individual to be a member of the IEEE or the IEEE-SA. In an individual process, each member of the working group will represent his/her own interest. The governance of each of the working group is defined by the policies of the working group. Once the working group has finalized a draft standard, this is submitted to a balloting process for approval as an official document of the IEEE. Only those who have an IEEE-SA individual membership are eligible to vote in the balloting process an individual project.

In the entity based model, corporates/entities participate as members of the working group. For an organization to participate in an entity-based standards program, the entity has to be a corporate member (either basic or advanced member) of the IEEE Standards Association. More than one individual from an entity can participate in the working group. However, the voting rule is governed by "one-entity-one-vote" irrespective of the size of the organization.

Additional details on the membership can be found at <http://standards.ieee.org/membership/>

### How can a Standards project be initiated?

Any “individual” or an “entity” can start a project within IEEE Standards Association. The first step in beginning a standards development project, whether an individual or entity/corporate activity, is the submittal of the Project Authorization Request (PAR). A PAR is a document that states the reason for the project which is identified through its scope and identifies the sponsor (typically an IEEE technical society) under which the standard will be developed including key stakeholders, and also recognising any other related work in that specific scope. Once the PAR is approved by the IEEE Standards Board, a formal working group will be formed to work on the development of the standard, going through a formal process of engagement to develop the draft standard which will be submitted through a ballot process for formal approval of the standard. IEEE Standards are effective for a period of 10 years after which the standard needs to be revised to remain as an active standard.

More details on the PAR could be found at: <https://standards.ieee.org/faqs/pars.html>

For more details on IEEE Standards Organisation please visit: <http://standards.ieee.org/>

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### Quotes of Barack Obama

Be conscious of God and speak always the truth

Don't let your failures define you

What makes a man is not the ability to have a child but having the courage to raise one

Scientists and engineers ought to stand side by side with athletes and entertainers as role models

We are a people of improbable hope

Reading is important, If you know how to read then the whole world opens up to you

The title of reverend wright's sermon that morning was “The audacity of hope”

Make a way out of no way

Words do inspire

The best anti-poverty program is a world-class education

I think perhaps education doesn't do us much good unless it is mixed with sweat

Each path to knowledge involves different rules and these rules are not interchangeable

I wish the country had fewer lawyers and more engineers

There is no excuse for not trying

We will outstretch the hand if you unclench your fist

Cynicism is a sorry kind of wisdom

We may not be able to stop evil in the world, but how we treat one another is entirely up to us

Change is never easy, but always possible

you can't let your failures define you, You have to let your failures teach you

You can put lipstick on a pig. It's still a pig

Our stories may be singular, but our destination is shared

It's important to make sure that we're talking with each other in a way that heals, not in a way that wounds

If you're walking down the right path and you're willing to keep walking, eventually you'll make progress

A change is brought about because ordinary people do extraordinary things

We don't ask you to believe in our ability to bring change, rather, we ask you to believe in yours