

Project Title: The standards required to be edited/developed in transmission sector and prioritizing them

Department:	Transmission Research Center	Employer:	Niroo Research Institute
Project Manager:	Amir Hossein Mohamadzadeh Niaki	Project Code:	PTPN13

Project Staff: Amirhossein Solat, Mojtaba Gilvanejad, Maryam Shabro, Mehran Soleymanifar, Salman Rezazadeh, Aliasghar Zekavati, Somayeh Ghaderi

Project Summary:

Standards are published documents that establish specifications and procedures designed to maximize the reliability of the materials, products, methods, and/or services people use every day. Standards form the fundamental building blocks for product development by establishing consistent protocols that can be universally understood and adopted. This simplifies product development and speeds time-to-market. It is only through the application of standards that the credibility of new products and new markets can be verified. In summary standards fuel the development and implementation of technologies that influence and transform the way we live, work and communicate.

Many of the national standards in transmission sector were edited in the past years, while the related international standards are modified and developed regularly. In addition, some of the existing national standards are required to be modified according to Iran climatic conditions. Moreover, some new standards should be developed based on the technological advancements and the advent of new equipment and technologies.

In this project, the national and IEC standards in transmission sector are recognized and investigated first. Then, the national standards are compared with corresponding IEC standards in terms of being up-to-date and technical and content adequacy. Moreover, the standards required to be updated based on Iran climatic conditions are determined. Accordingly, the need to modify the existing standards or developing the new standards is specified. At next step, inquiries are sent to Tavanir, Iran Grid Management Company (IGMC), Regional Electric Companies, and NRI research groups and technology development centers to complete the needs assessment process of transmission sector standards. At the end, the priority, time schedule and budget for editing/developing the standards are presented.

Project Results:

- Finding and categorizing the equipment and systems in transmission sector
- Extracting the list of national standards and related IEC standards
- Comparing the national standards with corresponding IEC standards in terms of being up-to-date and technical and content adequacy
- Determining the national standards which are required to be modified

- Determining the list of national standards which are required to be updated based on Iran climatic conditions
- Determining the new standards to be developed
- Determining the priority of editing/developing the standards
- Presenting the time schedule and budget for editing/developing the standards

Project Documentation:

- Technical reports of stages 1 to 5
- Project E-report