Features of standards harmonisation process in electricity and gas sectors

Development of Standardisation Technical Committees in Electricity and Gas sectors

Moldova, 28-30 September 2015
Stages of standards harmonisation

• The first step in the harmonisation of standards is to define the strategic objectives that the country (national approach) or countries (regional approach) want to achieve.

• The second step is to define a minimum set of standards (priority standards) to be adopted to achieve these objectives.
Third stage is familiarisation with (the study of) priority standards.

The fourth stage is the adoption of priority standards as interstate (regional) or national standards. The method of standards adoption shall be determined by the conditions of implementation of these standards.
The fifth stage is the modernisation of the national standardisation system. In particular, it means ensuring access to the international standards, the acquisition (activation) of membership in the international (regional) standardisation organisations, the establishment of technical committees mirroring to the international or regional ones.

The sixth stage is the implementation of standards.
First stage of harmonisation

Moldova’s strategic standardisation objectives are as follow:

• To fulfil the obligations under the Association Agreement and DCFTA Agreement with EU.

• To fulfil the obligations under the Energy Community Treaty.
Compilation of a list of priority standards: electric power

The list of priority standards was drafted based on the document of Energy Community Secretariat called Generally applicable standards – electric power - Reg. #: MC2 / 4-2 / 21-05-07ECS. The document was prepared in 2007 and contained a list of 190 standards and series of standards. After been updated the list amounted to 319 standards.
The structure of the European system

- EC regulations
- EC directives
- CEN/CENELEC standards

-law
- formal standards
- prestandards
- PAS/CWA
- company standards

PAS-Publicly Available Specification
CWA - CEN Workshop Agreement
The self-regulation principle (or self-responsibility) in the EU gas infrastructure
The INOGATE event:
a study tour “Gas Transmission Aspects”
April 9 – 11, 2014
Bonn and Essen, DVGW, Germany
The 3\textsuperscript{rd} stage is the study of functional gas standards

The notion of “functional standard” was introduced by MARCOGAZ and CEN / TC 234.

The introduction of CEN/TC 234 \textit{functional} standards obliges to cancel the conflicting standards, however, it requires more detailed national standards / technical regulations in the same field.

The introduction of CEN standards for \textbf{products} obliges to cancel the conflicting national standards in the same field.
The 3\textsuperscript{rd} stage is the study of functional gas standards

The functional standards describe:

- Design
- The choice of materials, equipment and component parts in accordance with standards for industrial products
- Construction
- Testing and commissioning
- Operation and maintenance
- Decommissioning

SCOPE: standardisation of functional requirements in the area of gas infrastructure from the point of gas supply into the ground transportation system to the inlet of a gas appliance.
The 3\textsuperscript{rd} stage is the study of functional gas standards

The main European functional standards for the pipelines with maximum operating pressure (MOP) over 16 bar is the **EN 1594: 2013 Gas infrastructure - Pipelines for maximum operating pressure over 16 bar - Functional requirements**.

The upcoming INOGATE event on "Gas infrastructure and European Standard EN 1594“ that will take place in Tbilisi will be dedicated to a detailed study of EN 1594 standard.
The 3rd stage is the study of functional gas standards

A workshop on priority standards for electric power is scheduled under the current project for the end of year. It envisages the participation of members of the relevant TCs.
4th stage is the adoption of priority standards

On the basis of 2014, the rate of acceptance of priority standards amounted to:

• Gas sector - 96.2%, and
• Power sector - 93.4%.
## The results of standards adoption - 2014

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5th stage: STANDARDS IMPLEMENTATION

Implementation of the main provisions of standards in the practice of energy companies:
- Introduction of standards into the company's information systems,
- Cancelling companies’ standards conflicting with the provisions of the European standards,
- Development of new company’s standards/
THANK YOU!

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