



CASE STUDY TITLE

Using Standards to Increase the Energy Efficiency of Industry and Buildings

SUMMARY

The objective of the case study is to show how international and European standards play a crucial role for the industry in many cases as well as in meeting regulatory requirements. National regulations promote energy efficiency and energy-saving policy by applying to the international and European standards.

BACKGROUND

According to the Association Agreement between the EU and Georgia, Georgia approximates national legislations to the EU regulations and directives and follows membership criteria of the Energy Union. The national regulatory policy defines the main requirements for energy-efficient and energy-saving and stimulates the use of environmentally friendly resources.

STRATEGY

Taking into consideration the regulatory requirements and criteria of conformity, the strategy covers the following activities in standardizations: (i) identification of relevant international or European standards and adopt as national ones; (ii) creation of a standardization technical committee (TC); and (iii) support for the translation of horizontal standards into the national language.

RESULTS & IMPACT

With respect to the Results and Impact, priority standards were identified, adopted and published. These include: (i) ISO 50001:2018 'Energy management systems — Requirements with guidance for use'; (ii) ISO 50002:2014

AT A GLANCE

COUNTRY

- Georgia

LEVEL

- National

SDG ADDRESSED

- SDG 7 - Affordable & Clean Energy

'Energy audits — Requirements with guidance for use'; (iii) EN 16247-1:2012 'Energy audits - Part 1: General requirements'; (iv) EN 16247-2:2014 'Energy audits - Part 2: Buildings'; (v) EN 16247-3:2014 'Energy audits - Part 3: Processes'; (vi) EN 16247-4:2014 'Energy audits - Part 4: Transport'; (vii) EN 16247-5:2015 'Energy audits - Part 5: Competence of energy auditors'; (viii) EN 16231:2012 'Energy efficiency benchmarking methodology'.

A new technical committee on 'energy efficiency' was created with the purpose of actively reviewing standards project. The same standards were translated into the national language for simplifying their implementation process.





RESULTS & IMPACT

Based on those standards all stakeholders have a basic document for meeting regulatory requirements and increasing the energy efficiency of their business activities, which has a positive impact on the economy.

CHALLENGES & LESSONS LEARNED

Challenges related to the process of implementing standards in relevant industries.

Technical committee membership gives all participants the best opportunity to be involved in the standards development process and use this knowledge and experience in practice.

All standards identified by stakeholders play an important role in the proper management of the business process, although the first guideline and basic document for energy efficiency measures was ISO 50001 (Energy Management) and relevant directives/regulations.

POTENTIAL FOR REPLICATION

The case study is mainly about the role of standards to meet legislative requirements. Standards support business sectors in meeting defined requirements, same time by using standards the energy efficiency of buildings or industries meets the best practice of this sector. Other countries that aim sustainable development of the respective sector of the economy are recommended to apply guidelines set by the above-mentioned documents.

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