

UDC: 006.91:621.317(497.11)

Tatjana Cincar Vujovic^{1*}

Applied metrology in Elektrodistibucija Srbije Ltd.

¹ Elektrodistibucija Srbije Ltd. Belgrade, Serbia

Professional paper

Highlights

- Developed metrology in the economy contributes to the improvement of the quality of products/services and improvement of competitive abilities on the market.
- Interlaboratory comparisons are one of the most important criteria for assessing comparability and ensuring confidence in measurement results.
- The measurement result is complete only if it is accompanied by a quantitative statement about its measurement uncertainty, which is important for obtaining a good measurement quality.

Abstract

Meeting the prescribed requirements for electrical energy meters should ensure a high level of protection against accidental or intentional tampering with the parameters and performance of the meter, with the legally relevant software in the meter, and with the measurement result, and assessing the conformity of electrical energy meters should ensure a high level of confidence.

Interlaboratory comparisons and proficiency tests are a very important aspect of quality control of measurement results and unambiguous confirmation of laboratory competence.

The paper presents the results of interlaboratory comparisons conducted by the Control Body of Elektrodistibucija Srbije Ltd. in the period from 2020 to 2023, with the aim of ensuring trust and reliability of the results of electrical energy measurements in the distribution system.

Keywords

Evaluation of results, interlaboratory comparison, uncertainty of measurement

Received: February 27th, 2024Reviewed: December 30th, 2024Modified: February 12th, 2025Accepted: February 13th, 2025

*Corresponding author: +381 11 36 55 524, +381 64 83 54 293

E - mail: Tatjana.Cincar-Vujovic@es.rs**Note:**

**The full text of this article is available only in the Serbian language.
In the English version, only its Abstract (above) is available.**

