

Calibrating your kWh meters

One kWh, is it exactly 1 kWh?

■ Accurate billing

KWh measurements often serve as the key input for billing consumers. They are also often used as input by consumers themselves for cost allocation purposes. As a distribution network operator or as the manager that is responsible for the metering in your company, you need to be certain that the kWh measurement you take is accurate. When you're dealing with high voltage installations, a minor measuring error can result in an economically significant difference in the invoicing.

■ Reliable calibration

The only way to guarantee the accuracy of your measuring devices is to have them calibrated by an independent, accredited organisation. In doing so, it's important that these calibrations be based on international standards. That guarantees the uncertainty margins and the reliability of the calibration.

■ Fully equipped laboratory

Laborelec has a fully equipped calibration laboratory with the most accurate energy standard. It can furnish an extensive accreditation portfolio that is recognised internationally.

Calibration to the highest standards

■ Calibration benches

The devices used to calibrate electricity meters must be routinely verified themselves. That's the only way to protect consumers. Laborelec's working standards are well suited to the task. We can carry out calibration on your site, minimising disruption to your calibration routine.



The technical Competence Center
in energy processes and energy use.
From innovation to operational assistance.



We share our expertise with you to guarantee the precision and validity of your energy meters.

■ Portable standards

In addition to calibration benches, Laborelec regularly aligns the portable standards used mainly for everyday checks or when new installations are placed.

■ kWh meters

As an independent body, Laborelec is regularly called upon to calibrate energy meters in the event of complaints or investigations into alleged fraud.

■ Higher standards

Energy meters have to be exceptionally accurate when the current or the voltage is high. Laborelec is also your partner for calibration of these higher standards – up to the 0.005% class. We can employ our reference standards, even for the highest class. Laborelec is the only lab in Belgium with the skills to carry out calibrations at this level of accuracy.

■ Accreditations

To receive a review of the domain for which we are accredited, along with corresponding uncertainty margins, simply email alain.deffrennes@laborelec.com. We will send you a copy of our accreditation certificates at the earliest opportunity.

■ You can also rely on us for:

- Calibration of instrument transformers
- Calibration of electrical measuring devices
- Quality tests on energy meters
- Onsite verification of your measuring installation



Five reasons for you to choose Laborelec:

- you have one-stop shopping for your energy needs;
- you get access to more than 40 years of experience;
- you get rapid service with reliable solutions;
- you increase the profitability of your installations;
- you benefit from independent and confidential advice.

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