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Labelec

Center of technical excellence

# Qualification & inspections

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Smart Grid and Smart Metering Laboratories are mainly focused on testing the conformity of equipment to be installed on the electrical grid to ensure the quality of energy system products and service providers.

## Main services

- DLMS/EDP companion standard tests for smart meters
- on-lab metering verifications
- on-site metering energy audits
- meter clock accuracy tests
- calibration services of power/energy, current/voltage and current transformer.

The Metering Lab is accredited by the Portuguese Accreditation Body according with the European Standards, being a reference standard lab in Portugal. Since 2013, it has been recognized by the Portuguese Metrology Institute as a Metrological Verification Body to carry out First Verification Operations of energy meters.



## Qualification

- Preparation of technical and functional specifications for equipment used in electrical grid
- qualification processes for energy equipment
- preparation of test procedures and technical specifications
- consultancy services for installing new laboratory units.

## Inspections

- Factory acceptance tests for energy equipment
- technical inspections to energy equipment suppliers
- technical inspections to electrical facilities
- on-site supervision, commissioning and start-up:
  - cold commissioning of LV, MV and HV transformer switchgear
  - protection relay functional testing
  - primary and Secondary injection test
- on-site quality diagnosis of PLC/PRIME and PLC/BPL communications
- maintenance works and technical audits on metering systems.



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