

MOBILE LABORATORY



Discover the ESCo services for energy efficiency!

Our experts will present you customized solutions to optimize the energy use.

1950

OUR FIRST MISSION: COUNTRY ELECTRIFICATION

The researches, projects, products and equipment developed in Icpe contributed to the development of the National Energy System.

PRESENT

INNOVATING THE FUTURE

Today, Icpe represents a complex structure, covering a wide range of innovative concerns, linked by the ELECTRIC way.

The main activities are focused on research, development, engineering, OEM fabrication and professional services having as a main goal obtaining innovative technologies and products, efficient and competitive, without harmful impact on the environment.



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SHOWROOM

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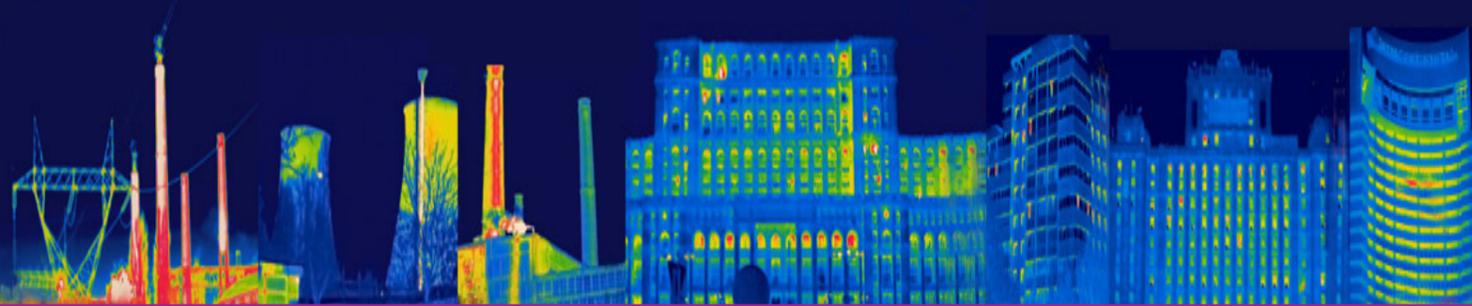
Technologies for a sustainable development



THERMAL EXPERTISE

THERMOVISION

ENERGY PERFORMANCE CERTIFICATE



MOBILE LABORATORY

The thermal survey of the buildings is performed by the Icpe Mobile Laboratory based on Law 372/2005, the emergency order No. 174 of 27th November 2002, as well as on the order No. 691/1.459/288.

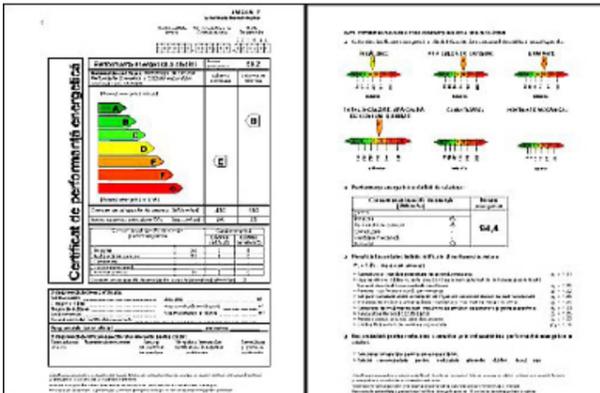
Since 1st March 2010, there has come into force Law 372/2005 regarding the energy performance of the buildings according to which there is instituted the obligatory character of obtaining an Energy Performance Certificate for all types of buildings which are energy consumers and which can be sold or hired out. Its purpose is the promotion of the building energy performance increase, taking into account the external climatic conditions and the building location, the inside temperature and economic efficiency requirements.

This Energy Performance Certificate is accompanied by images of building thermal diagnosing and it is issued by Icpe.

The thermography (thermovision) represents the measurement of the thermal field through the registration of the infra-red radiations and the visualization of the temperature distribution on the studied surfaces.

Thermovision is an non-destructive and non-contact method, useful for the possible errors detection during the industrial system operation without the interruption of the technological process.

At present, at the international level, the application field of the infra-red thermography is in a continuous development and expansion, especially due to the advantage of enabling the examination of some large and very large surfaces in a short time, in comparison with any other examination method. None of the classic non-destructive examination methods enables the examination of very large surfaces. The thermal images taken over by the infra-red camera are comparable with the images taken by camera in the visible field or with those that are photographically registered.



The energy performance certificate of the building is a technical document with an informative character which certifies the building energy performance through its comparison with the reference building established through the methodology, as well as the building integration into an energy performance class.

For the buildings which are being built, the certificate is elaborated through the owner and it is included in the documentation for the taking over of works. For the buildings which are sold or let, the certificate is elaborated through the owner and is presented when the sales contract and the lease contract is closed.



NOISE LEVEL MEASUREMENT

The application fields for which the mobile laboratory is able to carry out measurement of the noise level are:

- Industrial environment**
Measurement of the level of noise generate by installations, assemblies or other equipment under normal exploitation conditions, in the dedicated industrial activity space.
- Urban**
Noise level measurement for:
 - Streets and underground road passages, parks etc.
 - Functional areas in towns: schools, hospitals, stadiums, cinemas etc.
 - Inside the functional areas: commercial markets, open-air restaurants etc.
 - Industrial enclosure

Constructions
Measurement of the equivalent noise level in the residential buildings, technical and administrative and social&cultural buildings etc.

MEASUREMENT OF THE ELECTRO-MAGNETIC DISTURBANCE



The concept of electromagnetic compatibility (EMC) occurred with the introduction of microelectronics in automation systems, in power converters, in electrical and electronic systems in motor vehicles etc, event which contributed to the increase of the environment electromagnetic pollution level.

The main action of the electromagnetic fields upon the human body lies in the aggravation or appearance of the cardiac, vascular, neurological and psychiatric disease.

This influence, which depends on the electromagnetic fields intensity and on the exposure period, increases continuously because of the large number of electromagnetic fields polluting sources. For the health safety, the population must be informed on the exposure levels and on the biomedical research concerning the potential health effects.

The "Measuring Techniques – Metrology" team has the necessary competence and is capable of making these measurements. The laboratory applies an efficient management system and is recognized by the authorities due to the results and the impartial way of presenting the data interpretation.

References

