



**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.

When you opt for sustainable and cost-efficient maintenance



**Your center of expertise for equipment assessment**

**Many years of industrial experience**

As the knowledge center of the electricity industry, Laborelec has built up many years of experience with equipment assessment. The development of monitoring methods for the nuclear sector has taught us to set about things in both an extremely secure and cost-conscious way. That's why so many companies from the industrial world make use of our services. Our experts are completely independent of suppliers and constructors, and so always advise you in all objectivity.

**Specialised service thanks to research**

Laborelec also conducts research projects to assess equipment. This primarily consists of applied technological research, such as testing new devices and new equipment, or developing new inspection methods and maintenance techniques. In this work we have contact with a wide network of universities and research centers both in Belgium and abroad. Thanks to this background, we are well placed to develop new, highly-specialised services for our clients.



**Equipment Assessment**

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

Laborelec : your center of expertise for inspecting and assessing the condition of machines and electrical equipment

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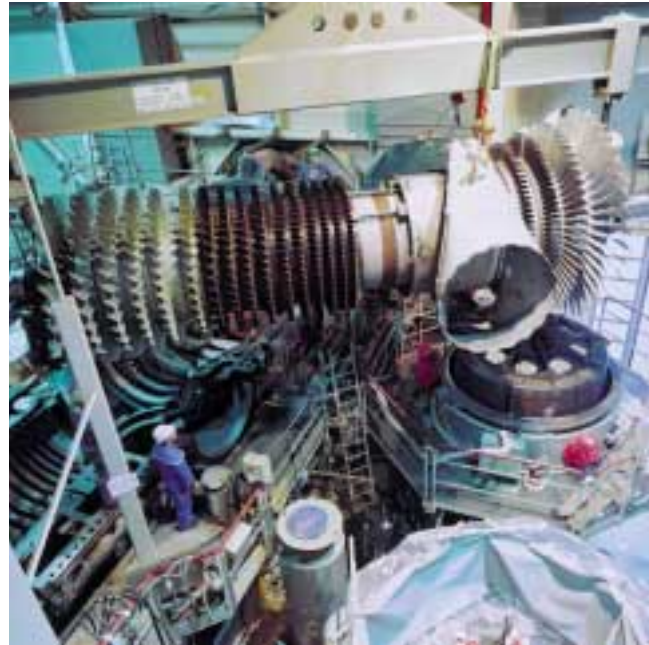
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## Cost efficient maintenance

*Whether you are concerned with rotaring machines, steam turbines, gas turbines, pumps, parts of your energy process like pressure tanks, boilers, heat exchangers, steam pipes ..., or electrical components, you need to keep your equipment in good condition to ensure its safety and reliability. On the other hand you want to keep low the cost of inspection and maintenance. With the help of relevant and state of the art methods, the Laborelec experts lead you to maximum efficiency.*



### Predictive maintenance

In contrast to the standard periodical maintenance, the predictive maintenance requires interventions only when necessary, without the slightest compromise on reliability. That is made possible by specialised techniques of condition monitoring and remaining lifetime calculation. Using these techniques, Laborelec's maintenance experts predict when the condition of the machine will decline appreciably and the risk of defects will increase significantly. The end result is maximum reliability with a minimum of maintenance effort.

### Complying with safety standards

We all agree that there is no room for compromise on safety issues. However there are many ways of achieving and guaranteeing the safety quality.

The inspection laboratory must possess a good knowledge of standards and specifications, combined with the correct control techniques.

If the standards are not achieved, you are advised about the necessary modifications. Laborelec offers you that combination, whether you require checks in nuclear power stations, or you are checking electrical components or household appliances.



**Specialised techniques for condition monitoring make increased reliability possible at a lower maintenance cost.**

## A total service offer

*You find experts at Laborelec in a wide range of disciplines. From vibrations to lighting, from oil analyses to non-destructive testing of equipment. That makes an integrated approach to maintenance possible, and that certainly increases efficiency. In addition our experts have a great deal of experience in drawing up predictive maintenance plans. For acute problems they perform rapid, effective interventions.*

### Monitoring installations and devising maintenance plans

To know the exact condition of a machine, numerous factors must be monitored. We take readings or provide permanent monitoring, analyse the results, and based on these, draw up an optimal maintenance plan. Among other things, we make use of the following techniques:

- Remaining lifetime calculation
- Analysis of lubricating oil
- Vibrational analyses
- Process and cooling water analysis
- Modelling of gas turbine components
- Destructive and Non Destructive Testing
- Thermography
- etc.



### Interventions when damage occurs

If an installation becomes damaged, you will want to know what caused it and the circumstances of the incident as soon as possible. So as to prevent further damage and avoid similar incidents in the future. Our experts collect all the necessary information to formulate real-life recommendations for the future on a scientific basis.

### Control of electrical equipment

Electrical devices and lighting equipment have to comply with numerous national and international standards, which are reflected in specifications. As a manufacturer or importer you need third-party proof that your equipment meets these safety requirements. Laborelec's BELTEST accredited laboratory carries out all the relevant tests, provide a clear and comprehensive report, and gives advice. Among other things, we test:

- The quality of lighting and road signs
- The electrical safety
- The quality and the safety of UV emitters