



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 the environment and profit need to go hand in hand...



Your center of expertise for water, combustion emissions and noise

Many years of industrial experience

As the knowledge center of the electricity industry, Laborelec has built up many years of experience with water, combustion and noise. In the rest of the industrial world, a wide variety of companies call on our services. Our experts are independent of all suppliers and constructors, and so always advise you in all objectivity.

Solidly-based know-how thanks to research

Laborelec also conducts research projects in the fields of water, combustion, fossil fuels and biomass. From fundamental research and theoretical studies to applied technological research. To do this, we are in contact with a wide network of universities and research centers both in Belgium and abroad. Thanks to this background, we are in a position to design highly specialised services for you whenever efficiency or accuracy is required.



Care for the environment

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

Laborelec : your center of expertise for water, combustion emissions and noise

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Environment and profit in harmony

The environmental standards in industry are getting ever stronger. Wastewater, process water and combustion emissions are being looked at more closely. But that does not inevitably have a negative impact on your return as a business. Laborelec's experts build a harmonious partnership between the environment and efficiency. They inspect your installation in its entirety, instead of only reacting once a problem has surfaced, and attempt to optimise the process itself.



Well-considered water management

New, specialised techniques reduce the total cost of water consumption and at the same time reduce the effect on people and the environment. The optimisation of processes, the purification and re-use of water, the environmentally friendly conditioning of cooling water : with modern methods rational and environmentally friendly water management is always possible.

The optimal combustion installation

Anyone considering the environmental management of an combustion installation first thinks about limiting emissions. The emissions standards imposed are becoming more rigorous. By cleaning the flue gases and improving the combustion you can avoid heavy penalties. In addition the fuel plays a large role. The authorities offer attractive advantages for the use of renewable fuels.

Complying with the noise standards

There are many ways of complying with the noise standards. But calculating the most efficient solution whereby you comply precisely with the standards is the work of specialists. And how can you know for sure that you are not exceeding the standards? Measuring the noise levels is work for experts.



A sustainable environment policy means not only complying with today's standards, but also anticipating tomorrow's.

Specialised services on demand

You can come to Laborelec for all aspects of water consumption, water conditioning, combustion processes, and to restrict noise emissions. Our experts offer you the A to Z of service: from information and advice, to helping you realise the project. But you can also rely on us for a specialised part of the job.

Information and advice

When modifications are necessary in order to achieve new standards or to reduce operating costs, it is useful to first understand the existing situation thoroughly. Laborelec scrutinises your process minutely, analyses its weaker points, and formulates possible ways of improving. For example for:

- Rational water consumption (process water, cooling water, etc.)
- The purification or conditioning of water
- Restricting emissions during combustion
- Improving the efficiency of combustion
- Restricting noise emissions



Help with projects

When constructing or modifying an installation, we investigate the environmental aspects of the design and make adjustments where necessary, possibly on the basis of a pilot installation. We can also follow up implementation and delivery. For example when you invest in :

- A more rational water use
- New techniques for water purification and conditioning
- Installations with membrane filtration
- The environmentally friendly disinfection of cooling water
- The construction or adaptation of combustion installations (with fossil or renewable fuels)
- An installation for flue gas purification
- Noise reduction on a industrial site

Specialised measurements and analyses :

- Chemical or biological analysis of water
- Detection of pathogens in water circuits
- The environmental impact of cooling water on waterways
- Determination of the ecotoxicity of water or ground
- Detection of PCBs in oil and foodstuffs
- Measurements in furnaces and flue gas vents
- Analysis of the emissions of combustion installations
- A chemical analysis of fuels (fossil or biomass)
- CFD computer simulations of combustion installations and flue gas vents
- Noise measurements