

# Power Quality Interventions

Direct and sustained improvement in energy quality

## ■ Disturbances in current and voltage

Disturbances in the electricity supply can have a variety of negative effects on your industrial plants: accelerated wear, overheating, improper operation, or even production standstills. They can also cause flickering lights or noise pollution.

## ■ Exposing the causes and consequences

Disturbances in the electricity grid can be caused by the voltage of the electricity supplier, or by the installations on the premises. By tracing the source of the disruptions quickly and taking appropriate measures, we can prevent further negative effects on your production.

## ■ Specialist work

Investigations of this type require detailed analysis, involving extremely accurate measurements at several locations in the internal and external electricity grid. This forms the basis for measures designed to improve the current or voltage ("Power Quality") or increase the immunisation of the plant. This is a job for specialists, such as the specialists at Laborelec.

## ■ Solutions in the short and longer term

Our experts formulate short-term solutions to keep disturbances or negative effects to a minimum. Urgent analyses are always possible: the team works with a flexible schedule, which can be changed at any time. They also work on longer-term solutions designed to remove all negative effects on the quality of the supply. They use simulations to check whether these measures are having the desired effect, which serve as your guarantee of success.



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



**Laborelec :**  
your partner for power  
quality cost reduction

### ■ For a wide range of power quality disturbances

To offer these services we use a broad spectrum of measuring equipment to identify current and voltage disruptions, and powerful calculation programs to analyse the measurement data and develop solutions - for high, medium and low voltages in electrical grids and industrial installations. The following disruptions are included :

- RMS values
- harmonics
- flicker
- voltage dips and interruptions
- voltage imbalance between phases
- frequency
- power fluctuations
- reactive power ( $\cos \varphi$ )

### ■ Recognised expertise

Laborelec's experience in Power Quality is nationally and internationally recognised (IEC, CIGRE, CIRED, UIE).

Our experts are also active in the area of standardisation, both nationally (BEC) and internationally (IEC 77 A).



### 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.

Rodestraat 125  
B-1630 Linkebeek

### Power Quality

**Emmanuel De Jaeger**

Tél : + 32 2 382 02 62

Fax : + 32 2 382 02 41

[emmanuel.dejaeger@laborelec.com](mailto:emmanuel.dejaeger@laborelec.com)

**Kurt Reynders**

Tél : + 32 2 382 03 71

Fax : + 32 2 382 02 41

[kurt.reynders@laborelec.com](mailto:kurt.reynders@laborelec.com)

[www.laborelec.com](http://www.laborelec.com)