

New electric loads

Seamless integration with the existing electricity grid

■ Preventive measures for a trouble-free start

Sometimes it can be difficult to predict how a new installation will interact with the electricity grid of your company and with plant that already exists. Is the quality of your electrical supply adequate, for example? Or will the new plant constantly stop due to small voltage irregularities? And vice-versa, will the new load have a negative effect on the quality of the grid and hinder neighbouring installations on your premises? Since operating reliability matters to you, so you would like to know the answers to these questions in advance.

■ Maximum operating reliability, minimum cost

Obviously, you could use any kind of immunisation technique on the market. This would virtually guarantee the faultless integration of a new installation in your plant. However, the costs involved can mount up pretty quickly. A detailed study can combine maximum operating reliability with a minimum investment cost, which can quickly lead to major savings in your installation costs.

■ Professional calculations

A study will determine how the quality of your power supply actually affects the new plant, and vice-versa. Laborelec handles this efficiently with well-chosen and professional measurements, calculations and simulations. We then go on to investigate the usefulness and effectiveness of measures such as UPS, harmonic filters, capacitor banks, etc. You receive written recommendations covering immunisation measures and their investment costs, enabling you to introduce new loads to your grid with peace of mind.



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



We will think along with you to prevent new loads from exerting a damaging effect on other industrial plants and the electricity grid.

■ A preventive study for new loads - it's essential!

A preventive study may be required, for example, to find the answers to questions such as :

- In which region is the mains quality suited to the high demands of an Internet hotel on the energy supply?
- Would a capacitor bank give rise to dangerous resonances, making the power fail repeatedly or damaging the capacitor bank?
- How can crucial plants be protected against voltage dips from the outset?
- Will the connection of a new, heavy electric motor cause voltage dips in the electricity grid ?
- What effect would a new induction oven have on the harmonics and on the reactive power?
- etc.

■ A good picture of the likely solutions

We give you a clear overview of the best possible combination of measures for your specific situation. This report also takes into account technical requirements and economic considerations.

Possible immunisation measures include :

- A harmonic filter
- A local or global UPS (Uninterruptible Power Supply, see UPS product file)
- A well-dimensioned capacitor bank
- A more powerful supply
- A new connection to another part of the grid
- etc.



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

Kurt Reynders

Tél : + 32 2 382 03 71

Fax : + 32 2 382 02 41

kurt.reynders@laborelec.com

www.laborelec.com

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.