# New power plants and power plant upgrades

# Assistance for a successful project

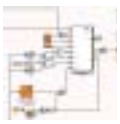
LABORELEC

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

# Contents





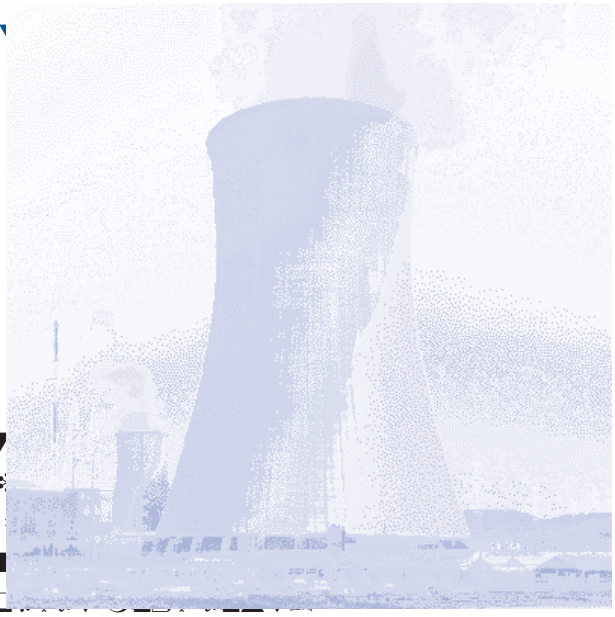




Whether you are planning a new power plant or modifying an existing one, you will face many crucial decisions. Each one will have important consequences for the future of your facility. By taking the right decisions, right from the start, you eliminate both unexpected problems and unnecessary costs. Laborelec's experts can help you evaluate your real needs and apply best practices to every aspect of your new or renewed installations. They won't replace your design engineers, but they will give advice based on their practical experience and research and development projects. They will analyse your specifications while they are still in the initial design stage, follow-up during the building phase, final commissioning and start-up of your installation, and help you implement sound maintenance programs.



*More information*

*Contact Gustaaf Boon at gustaaf.boon@laborelec.com or +32 2 382 05 65*



*Water treatment, conditioning, and control*

*A full range of water related activities, including:*

coralie.goffin@laborelec.com

# [illegible]

## *From process optimization...*

[illegible]

## *...to emission minimization*

[illegible]

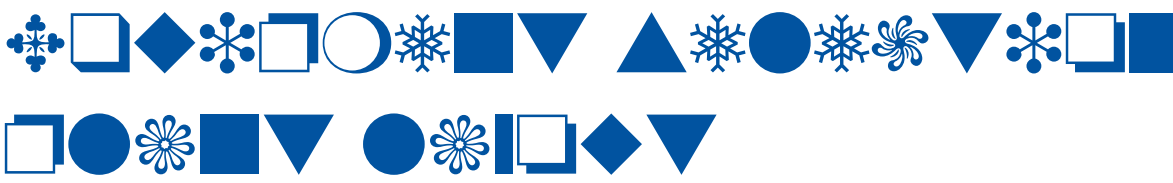
johan.vanormelingen@laborelec.com

# [illegible]

## *Complying with noise standards*

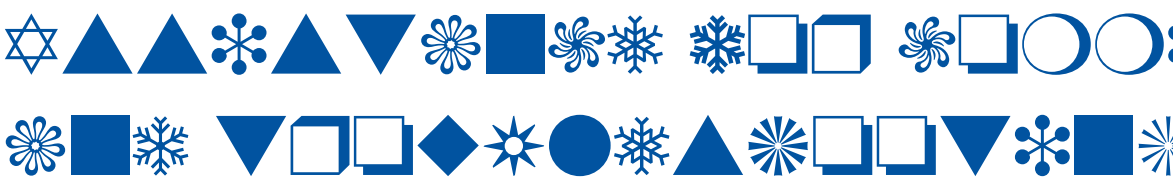
[illegible]

didier.tollenaere@laborelec.com



nico.breuls@laborelec.com for boilers and steam turbines

sigrid.gijbels@laborelec.com for gas turbines



*A strategy for the future*

steven.goedseels@laborelec.com

# Process control

## Optimized energy conversion

The process control of industrial plants for energy conversion is often very complex. Developing new control structures and optimizing the control loop parameters of non-linear processes is a highly specialized task. Laborelec can call upon extensive practical knowledge to help you optimize your control processes, from both a technical and economic point of view. They advice you in developing a reliable control system. Prior to the construction of your new plant, or the revamping of an existing one, LaborelecÕs dynamic modelling

techniques and simulation tools provide a proactive check to establish whether your future installation will have an unequalled level of reliability.

philippe.demlenne@laborelec.com

# Electromagnetic compatibility



## Tiny ripples can make huge waves

Electromagnetic compatibility must be carefully studied during the design and construction of new installations. Disturbances can dramatically affect electronic systems, often generating significant production losses. Supported by LaborelecÕs years of experience, you can choose the proper EMC methods. Their experts will assist you in writing your project specifications and in choosing the right materials, according to a comprehensive EMC philosophy. They will supervise the correct implementation of EMC requirements during structural work and provide you with technical guidance throughout the whole pre-operational phase. With their help, you are assured that your new installation complies with best practices and meets all EMC standards.

jean-michel.meunier@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.

LABORELEC

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


***Water***
Coralie Goffin 02 382 06 62
coralie.goffin@laborelec.com

***Combustion***
Johan Vanormelingen 02 382 03 10
johan.vanormelingen@laborelec.com

***Acoustics***
Didier Tollenaere 02 382 05 01
didier.tollenaere@laborelec.com

***Equipment selection and plant layout***
For boilers and steam turbines:
Nico Breuls 02 382 05 94
nico.breuls@laborelec.com

For gas turbines:
Sigrid Gijbels 02 382 05 25
sigrid.gijbels@laborelec.com

***Maintenance***
Steven Goedseels 02 382 04 94
steven.goedseels@laborelec.com

***Process Control***
Philippe Demlenne 02 382 03 11
philippe.demlenne@laborelec.com

***Electromagnetic Compatibility***
Jean-Michel Meunier 02 382 04 15
jean-michel.meunier@laborelec.com

***Global contact***
Gustaaf Boon 02 382 05 65
gustaaf.boon@laborelec.com



Rodestraat 125
B-1630 Linkebeek
Belgium
Tel: + 32 2 382 02 11
Fax: +32 2 382 02 41
HRB/RCB 307.906 - BTW/TVA BE-400 902 582

www.laborelec.com
Global contact: gustaaf.boon@laborelec.com +32 2 382 05 65



Responsable editor: Paul Lemmens