

Deba, the specialist in medium voltage cubicles



Installation • Maintenance • Expansion & Updates



www.deba.biz



Deba embodies medium voltage

Since 1979, Deba has specialized in the installation, the expansion, the modification, the renovation & the maintenance of medium voltage installations ranging from 3 to 24 kV, for indoor & outdoor usage. We are an independent family company that has become market leader in Belgium in the last three decades.

Today, Deba is part of the vertically integrated holding Het Veer, as a result of its uncompromising drive for quality & sustainability. When it became increasingly difficult to source cubicles that met our strict quality standards, we began to manufacture them in-house. And to continually guarantee the quality of our end products, we ultimately decided to manufacture switches and components in-house, as well. Both of these activities have meanwhile blossomed into independent subsidiaries, to enable Deba to keep its focus firmly on the installation of medium voltage cubicles. But what unites every member of the holding is a shared vision on quality, innovation, and service.



Deba: a bird's eye view

Today Deba serves about half of all Belgian enterprises, institutions, and governments who work with medium voltage. We operate with an emphasis on quality and on the environment. We also focus on standardisation and on a modular product concept, which is beneficial to both price and service

Throughout the years our production capacity increased and our attention to R&D evolved. Since 2011 our subsidiaries SGC – SwitchGear Company & Mevoco have been active all over Europe. Today, they export directly to neighbouring countries, they licence to foreign colleagues, and they maintain efficient partnerships. From Africa, Asia, South-America to the Middle East, and Australia. Their international success is built on Deba's foundations and its wealth of experience.

About Deba



Deba makes deciding effortless

How much power does your company need? And how do you determine this? Are you looking for a new cubicle or is it possible to expand and update your current installation? Is your present medium voltage installation both safe and compliant? And will it stay that way after an update?

These are just some of the questions you may have, to which you could not find a crystal-clear answer. Deba is ready to offer professional advice. Our expertise does not only extend to companies, but to governments and utilities, as well. We are experts when it comes to the electrical grid and we are able to determine the optimal solution in any given situation. As result we help you to make better and more efficient decisions.

Deba has the answer to the Royal Order of 21 December 2012

The Royal Order contains a number of regulations concerning the safety of older electrical installations in the workplace. It stipulates, among other things, that after an analysis, all open cubicles dating back to before 1981 need to be modified or replaced by safe installations. The reason is obvious: the risk of explosion, electrocution, and severe burns when operating these installations, is considerable.

Deba renovates and provides maintenance

Our service is not restricted to the installation of new cubicles. If logic and costs dictate a renovation, Deba modifies existing cubicles. Afterwards, your installation is as secure and safe as a new cubicle. And because (pre-emptive) maintenance saves considerable costs and headaches, we can regularly perform a check and a maintenance of your medium voltage installation, to guarantee that it keeps on performing well.

Deba delivers optimal medium voltage solutions



BEFORE

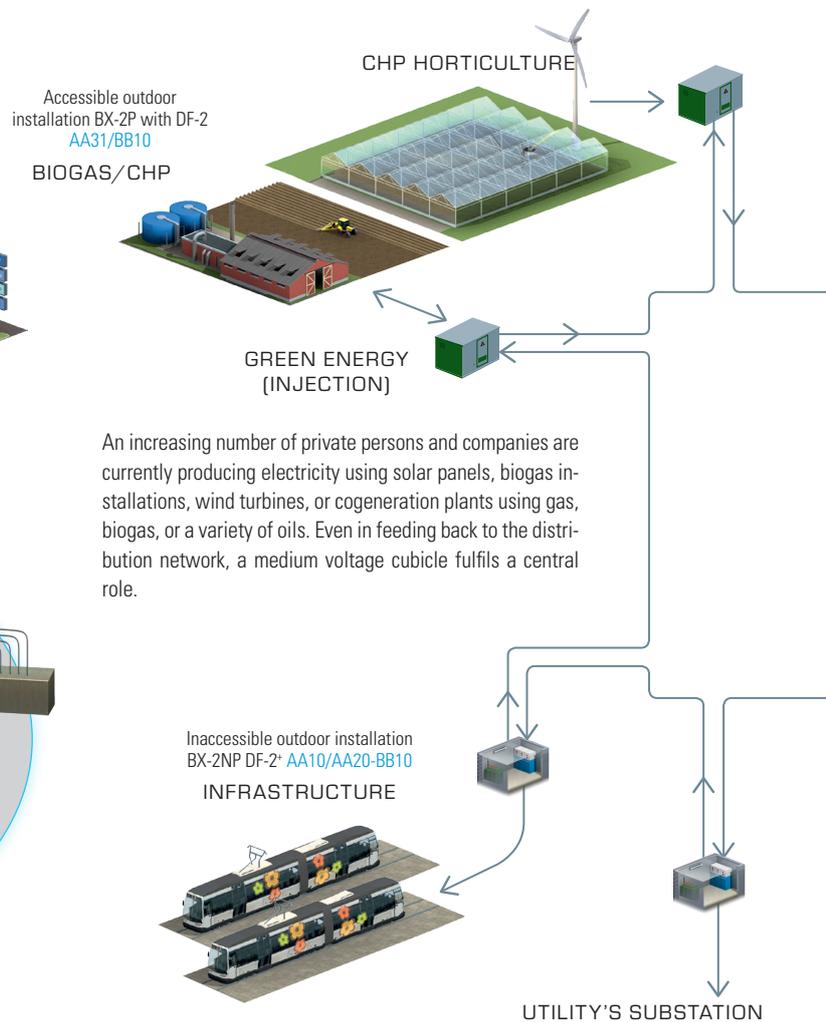
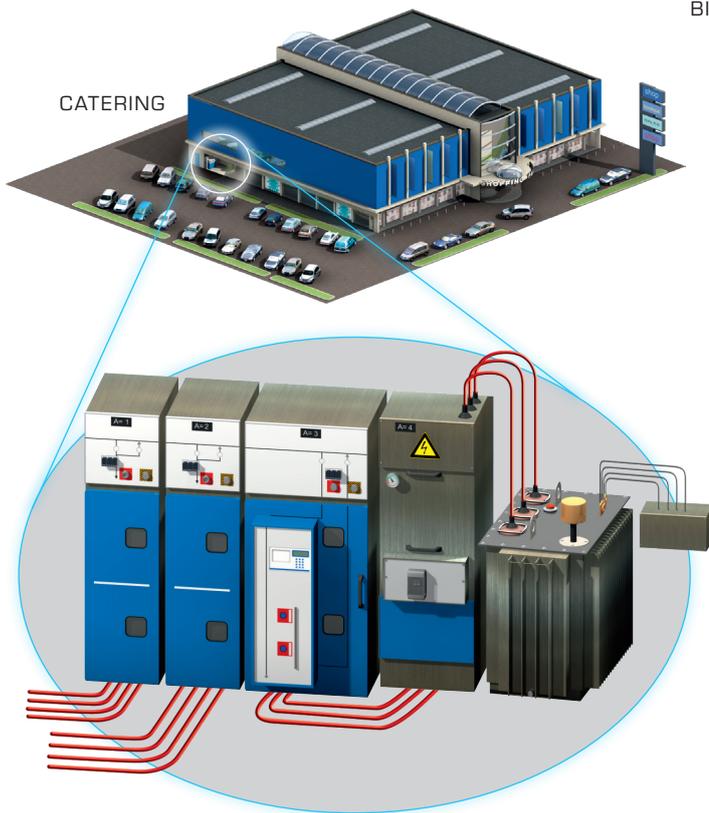
AFTER

Deba's cubicles in the medium voltage grid

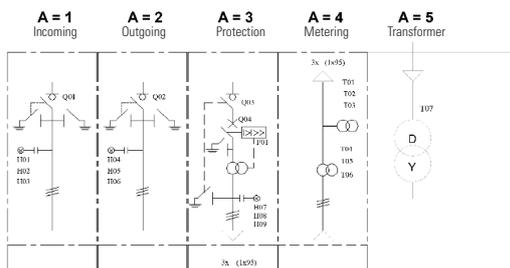
Power plants generate electric power up to a voltage of 380.000 V which is transported to substations via transformer cubicles. Substations distribute medium voltage (± 10.000 V to ± 15.000 V) and often contain cubicles manufactured by Deba.

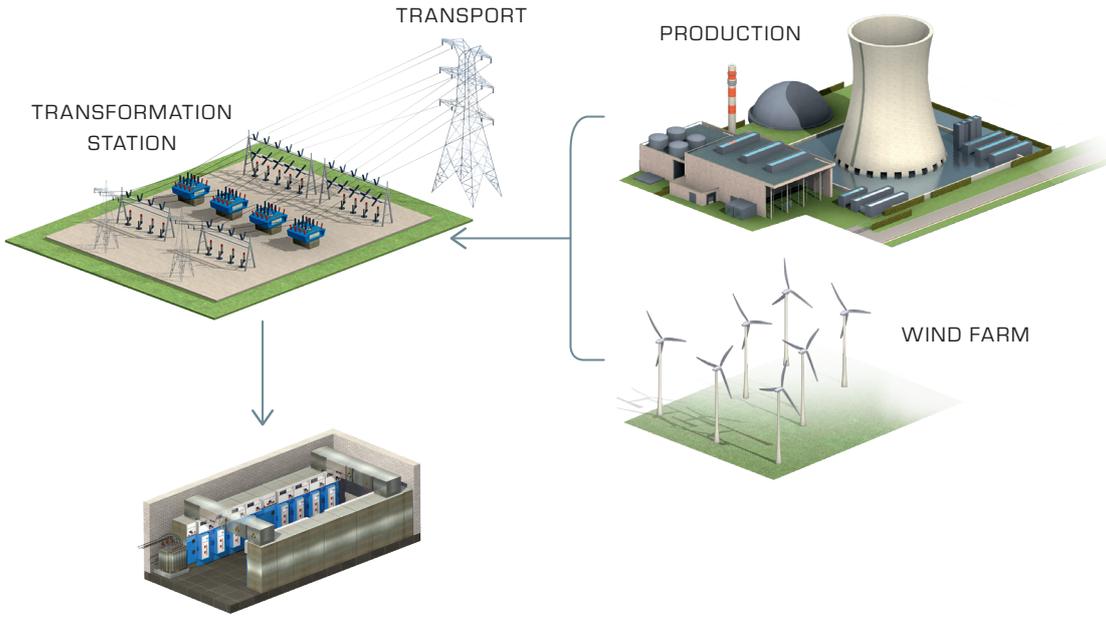
A medium voltage grid starts from every substation and provides a wide area with medium voltage. Wherever medium voltage enters residential areas, industrial production companies, horticulture companies, hotels, event venues... you will find a medium voltage cubicle fulfilling four essential functions:

- 1. SUPPLY:** the utility's medium voltage grid is branched off to allow for switching in the grid
- 2. PROTECTION:** the installation is secured using a load break switch with HRC fuses or using a circuit breaker with a protection relay
- 3. MEASUREMENT:** energy usage is measured on the high voltage or low voltage side
- 4. TRANSFORMATION:** medium voltage is transformed into low-voltage (690 V - 400 V - 231 V).



An increasing number of private persons and companies are currently producing electricity using solar panels, biogas installations, wind turbines, or cogeneration plants using gas, biogas, or a variety of oils. Even in feeding back to the distribution network, a medium voltage cubicle fulfils a central role.





Some references:

WELFARE SECTOR:

- hospitals
- shelters
- daycare
- nursing homes

AGRICULTURE & HORTICULTURE:

- livestock
- fruit and vegetable cultivation
- auctions
- plant nurseries

INDUSTRY:

- metal processing
- processing industry
- nutrition
- breweries
- slaughterhouses
- chemistry sector

TERTIARY SECTOR:

- offices
- schools
- hotels
- retail & wholesale
- shopping centres, malls

ICT:

- data centres
- ISPs
- communication networks

TRANSPORT & LOGISTICS:

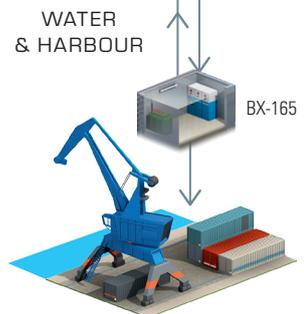
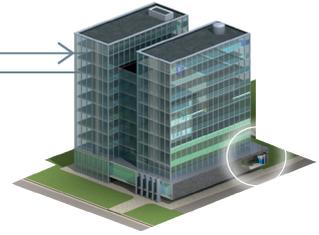
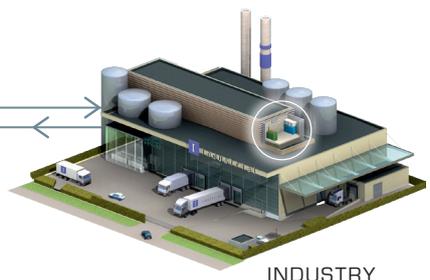
- harbours
- public transportation
- logistical centres
- transportation infrastructure
- pumping stations

RENEWABLE ENERGY:

- wind farms
- CHP (biogas)
- solar energy

ENERGY DISTRIBUTION:

- substations (HV / MV)
- distribution stations (residential)
- ...



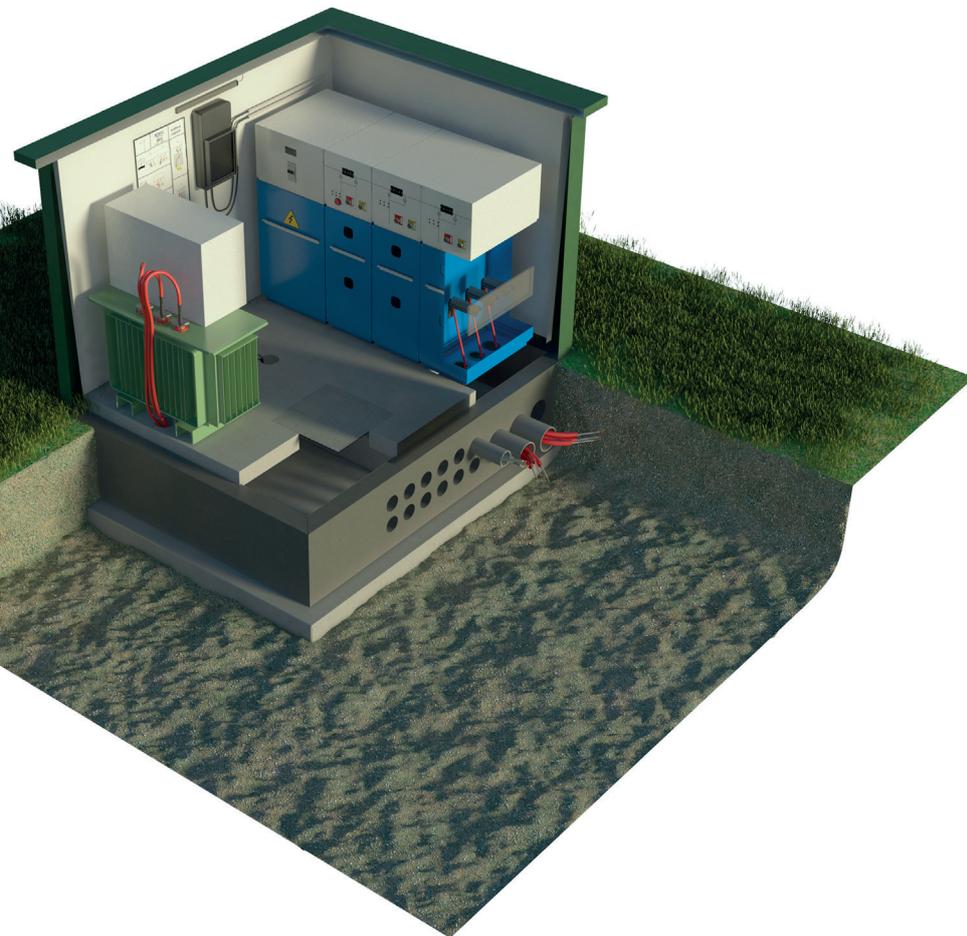
Installation in basement
DF-2* AA10/AA20-BB00

WELFARE SECTOR

Installation in technical room
on a roof DF-2 AA31/BB50

Your next
medium voltage
cubicle/installation?

Quickly up and running with a concrete prefab enclosure



Fast & complete installation

Deba's BX-2P enclosure is manufactured from a single piece, which enables an effortless installation. The prefab concrete enclosure contains a cable cellar, a vent, door, roof finishing, cable grommets, lighting, and a socket. Tailor-made finishing according to customer demands is available.

Safety first

Operator and environment safety is guaranteed thanks to the arc-proof cubicles. Additionally, arrival and departure functions are equipped with functional interlocks, which allows for safe access to any cubicle.

Most operators prefer an easily accessible enclosure. Since it offers protection against the elements and it allows all activities (switching, maintenance, modification) to be performed more quickly, more precisely and more safely.

Full service

Deba is responsible for the delivery and the inspection of the installation. After we finish, the distribution company and the contractor simply connect the installation to the medium and low voltage. We thoroughly test the electrical circuits and adjust them for commissioning.

Advantages

- Budget-friendly, compact and secure
- Ready-made system, including accessories and connection of all medium voltage equipment
- All in one service: Deba coordinates, delivers and installs
- Interior finishing according to your individual wishes and needs
- Optimal safety and quality guaranteed
- Available in one standard type, other dimensions on demand
- All models in stock
- Tailor-made variations available on short notice





A short circuit or another malfunction can cause an internal arc. In traditional medium voltage cubicles an arc can result in the electrocution of an operator, burns, and explosions. Deba's DF-2+ patented technology immediately eliminates this risk and effortlessly brings the installation in line with the Synergrid specifications and the Royal Order of December 21, 2012.

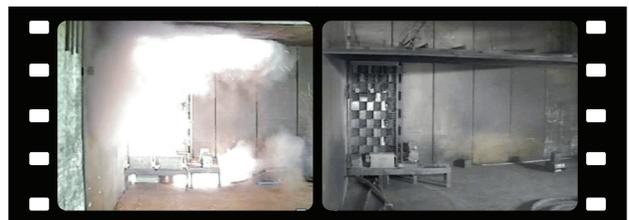
DF-2+ cubicles are equipped with a patented arc-killer which detects an arc and immediately suppresses it by redirecting it to the earth. The entire arc suppression time amounts to fewer than 50 milliseconds and prevents a short circuit from escalating into an explosion. The system prevents an overpressure scenario which results in the destruction of the switchgear and the room.

DF-2+ cubicles offer protection against internal arcs classified IAC category A, FLR 20 kA 1s, where FLR stands for Front, Lateral & Rear. It means the operator is shielded from the consequences of an arc, in front of, next to, and behind the cubicle.

On the rear side of the DF-2+ cubicles, four pressure valves are installed. They are evenly spread across the height of the cubicle and they are facing downward. The top valve protects the bus bar and the remaining three valves protect both the cable compartment and the equipment. The roof and the sides of the cubicle are reinforced and an efficient discharge of the smoke and gasses is installed by default.

Companies that opt for Deba's DF-2+ cubicles do not need to invest in specially constructed bunkers to install their medium voltage cubicles. Because Deba offers a budget-friendly solution which allows cubicles to be installed in regular basements, storage spaces, and existing rooms (room type BB00 according to Synergrid regulations.)

The patented Arc-killer with DF-2+ for optimal personal safety



without Arc-killer

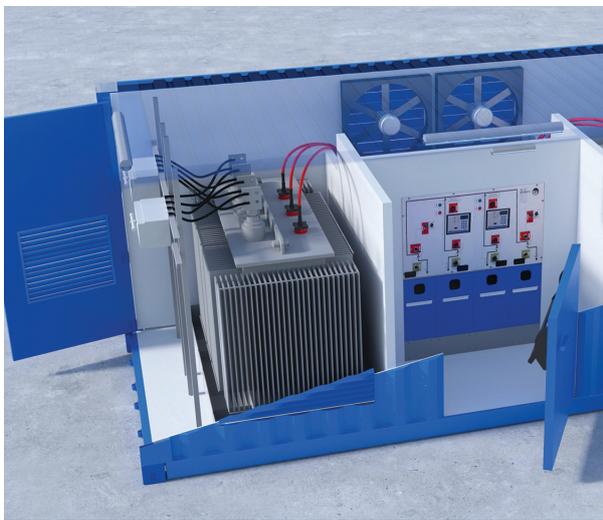
with Arc-killer

Other turnkey solutions by Deba

CX-2

Power containers

- Fully client-customizable
- Wide array of applications
- High-quality finish



GS-2

Galvanised steel enclosures

- Weather-proof
- Efficient & robust
- Extreme operator safety



Interested in our CX-2 or GS-2? Contact our sales department. We are at your disposal.
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