

E. VAN WINGEN

At the forefront of the
new energy paradigm

Leading technologies for integrated solutions

Europe's quest for a new energy paradigm that balances economic growth and environmental sustainability is thrusting Belgium's E. Van Wingen (EVW) to the forefront as a supplier of energy efficiency and green power solutions. The land-fill gas-fired power station it constructed and maintains at Mont-Saint-Guibert in the Belgian province of Walloon Brabant testifies to the feasibility of waste-fuelled green power as a reliable source of baseload electricity. The company's focus on optimized energy solutions for primary or backup supply needs is engineering intensive. It designs, builds, installs and services its products and projects. EVW became an EPLAN user in 2004 and upgraded to the next generation design software, EPLAN Electric P8, for the added productivity.

Part of EVW's growth potential lies in turnkey installations: industrial cogeneration and combined heating and power (CHP) plants, installations for peak power leveling and green power installations like Mont-Saint-Guibert.

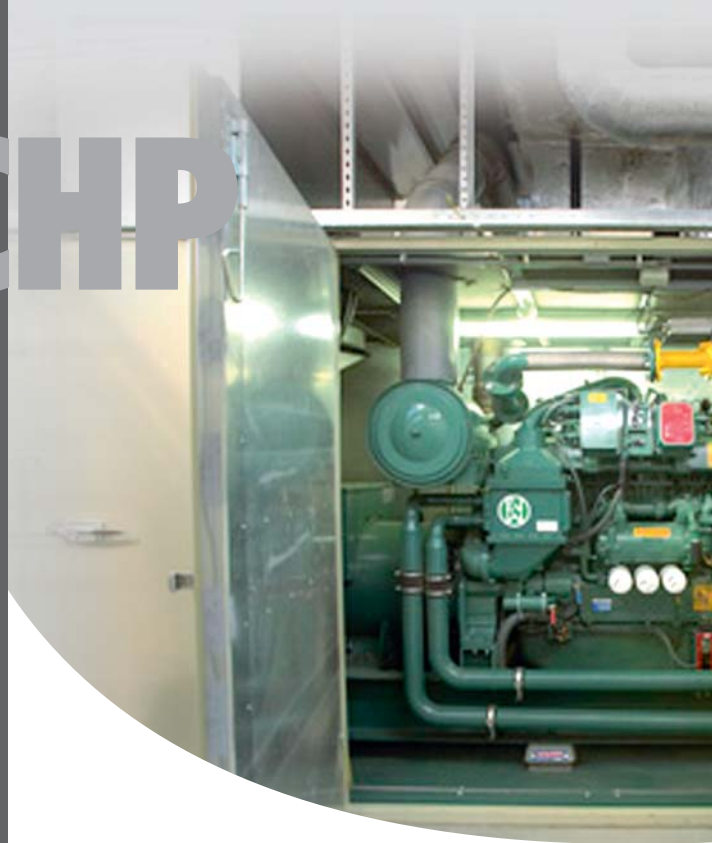
ePLAN your engineering

“The customers no longer expect a machine, they expect a total solution. Our Engineering department serves as project manager, from the inception through the entire execution to after care and even remote monitoring.”
Joeri Heleijn, EVW engineer and EPLAN Electric P8 user

CAE AND CHP

go
hand in hand

“The most important changes have been made to the motor wiring and the cabinet layout, and, of course, to the complete electrical circuitry. Instant adjustments and alterations were regularly carried out to the circuitry design during the project phase. This was true through to final completion. It was therefore critical to be able to make quick and efficient modifications. That dramatically reduces the length of our design time.”



The latter, comprising 13 small generators, produces up to 9.5 MWe of electricity from a dump site that is being filled at a rate of about 500,000 tons per year of non-hazardous, domestic waste. One of the largest in Europe and most successful landfill energy projects of its kind, Mont-Saint-Guibert reflects the sophisticated nature of a modern landfill energy project, with power sharing among all 13 gas-fired engines for maximum utilization of the installed generation capacity.

EPLAN provides a great productivity boost

Other typical projects for EWW include total energy installations which are increasingly popular, such as a CHP installation at hospitals, markets or at a sugar beet factory or large pig farm. Pure vegetal oil has been adapted as a CHP biofuel, powering plants like the 400KWe power and heat installation the company developed and installed for the Flemish municipality of Eeklo in East Flanders that runs on colza oil.

Integrating CHP concepts in heating and cooling projects or heat-based manufacturing projects is a precision engineering job. Cogeneration and trigeneration systems require custom designs in compliance with the latest regulations and standards. The increasing variety and complexity of EWW's projects made it desirable to get a more robust and fully featured electrical engineering software package, a move which launched Van Wingen into the world of EPLAN. EWW has two engineers working full-time with EPLAN, Ansfried Vergauwe and Joeri Heleijn, and they talk about the speed and flexibility of EPLAN Electric P8 the way an automobile enthusiast might expound on the speed and handling of a luxury sports car.

Now, projects can be moved through their various stages and adjusted in quick time. Referring to one recent project, Vergauwe talks about how easy and fast it is to make modifications.

OPEN

structure and
Online reports

'Difficult to make mistakes' with EPLAN

This sentiment is shared by Heleijn. "Thanks to the useful 'search/replace' function, we save lots of time when we are processing data. And the open database for parts management helps us find a part again much faster. We can dramatically shorten the design time of our electrical diagrams, without compromising accuracy. In actuality, with EPLAN Electric P8 it is even difficult to be able to make mistakes." For example, the use of EPLAN macros has a dual benefit of speeding up project work and maintaining a high level of accuracy when producing from scratch.

EPLAN interface is user friendly and easy to customize

EVW enjoys a reputation for technical excellence that it nurtures as part of its corporate culture. That helps sell customers on its products and services, and EVW demands as much from its suppliers and vendors. Vergauwe and Heleijn see their EPLAN Electric P8 software in that respect: a state-of-the-art design tool that enables them to meet the high expectations of both internal and external customers. The two engineers like the user-friendliness of EPLAN Electric P8 with its Windows[®] look and feel and personal settings as well as the open structure and online report generation. Their work is always available to the project engineers – who have to consult the diagrams and projects frequently – by way of an intelligent PDF file generated by the program. "Thanks to the export options of EPLAN Electric P8, we can convert the diagram/schematic to a PDF, DWG, DXF, TIFF or JPEG file, whatever the client requires, as quick as a flash," says Vergauwe, who had prior experience with EPLAN, beginning with EPLAN 5, the predecessor of EPLAN Electric P8.

For good measure, EVW holds one Select license of EPLAN Electric P8 and one Professional license, the fully featured version. EPLAN Electric P8 Professional has PLC & Bus extension, single line schematics, project management functionality, multi-language translation and graphical reporting capability as standard features and a unique ability to add options like an automatic schematic generator (ESG) and revision management. With EPLAN's service contract, EVW is guaranteed all innovations and upgrades.



“In EPLAN Electric P8, we see the same perfectionist spirit that is present in our company: quality, innovation, striving for progress, passionate support of the product, anticipating the needs of the customer. It’s as though we are made for each other..”

Ansfried Verguawe, EVW engineer and EPLAN user for more than a decade

“We are on exactly
the same wavelength”

SUMMARY

EPLAN Electric P8 the obvious tool

E. Van Wingen’s energy generation and energy security products, and project conception and implementation are growth businesses that require an engineering design platform capable of supporting the company’s key attributes. Speed counts. Time is money. So is getting the job done right the first time, with great precision. And the fully featured EPLAN Electric P8 was the obvious tool to provide these virtues.

ePLAN your **e**ngineering



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