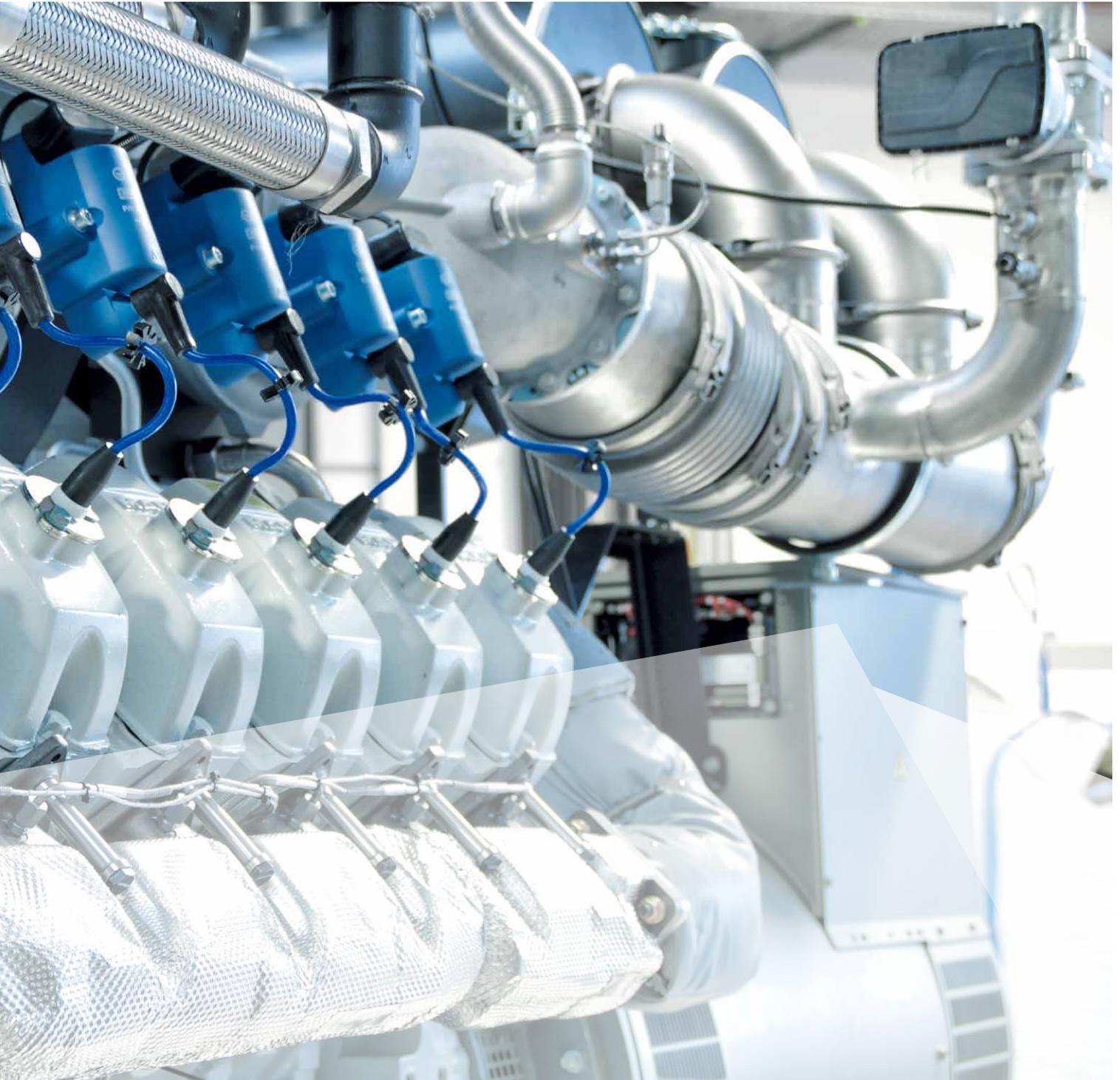


EVERYTHING (AND EVERYONE) IN VIEW



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Burkhardt GmbH, based in Mühlhausen, Germany, specializes in efficient combined heat and power (CHP) plants. Customers are supplied with heat and electricity from around 500 ultra-efficient plants. Visualization and user interfaces are created quickly thanks to the object-oriented engineering approach from atvise®. Additionally, global plant data is funneled into a central atvise® cloud environment. Burkhardt uses this data to identify potential improvements for future plant developments. Its service team can also provide fast, targeted maintenance.

Burkhardt's combined heat and power plants provide a reliable source of electrical and thermal energy from a variety of sustainable sources, including wood pellets, wood chips, and natural gas. The cloud solution from atvise® enables the central monitoring of plants worldwide, allowing convenient troubleshooting through remote access.



»atvise® consolidates thousands of data points from customer power plants worldwide, turning them into valuable information. We use these insights for the targeted further development of our power plants.«



Roland Kipfstuhl

Head of Software Development
at Burkhardt

menting spare parts management. We wanted to cover as much functionality as possible in a shared environment. Thanks to Bachmann's flexible solution, we were able to program this function with JavaScript and Python to perfectly match our business processes," explains Kipfstuhl. Open interfaces enabled seamless connection to the Burkhardt ERP system. Customers have access to a cataloged list of all installed assemblies and system parts via the visualization. "During a service call, they can simply compile their shopping cart via the user interface, and place a spare parts order directly in atvise®. The order is immediately entered into our ERP system, with our shipping and accounting departments notified," says Kipfstuhl.

Safety squared

Such a high degree of networking entails a high level of responsibility, as the specialists are well aware. "When operating a cloud solution, you have to be aware of potential cyber risks," says the head of software development. Therefore, Burkhardt regularly

commissions external partners to carry out detailed system penetration tests. The company refers to the penetration tests that Bachmann carries out at regular intervals on atvise®: "Based on this, we also comprehensively test other security-critical areas, such as VPN tunnels or port forwarding of the firewall," explains Kipfstuhl.

The multi-client capable visualization solution allows the precise definition of user roles – down to the specific rights assignment for each visualization element. This multi-client capability is essential to Kipfstuhl: "Thanks to clear group assignments, our technicians see their topics, and the customer sees theirs. If our support team were to simply connect remotely to the on-site visualization, the customer could observe sensitive information on their HMI, such as access data and passwords."

Higher centralization with single sign-on

Burkhardt is already well positioned in cybersecurity, thanks in no small

part to Bachmann's visualization solution. Nevertheless, it wants to focus even more on this area and implement additional security functions. "atvise® is always one step ahead of us. Bachmann is constantly delivering new functions that we often cannot implement immediately," says Roland Kipfstuhl with a smile. The next update will focus on central login options with "OpenID." This will extend the existing single sign-on (SSO) to connected third-party products.

BURKHARDT GMBH

- Specialist in energy and building technology
- Headquartered in Mühlhausen (Germany)
- Established in 1879, seven locations in Germany and Italy with about 470 employees

www.burkhardt-gruppe.de



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