



PART OF
REGIN GROUP 

Energy monitoring

Holistic & efficient

Holistic energy monitoring

Consistent, simple and intuitive

As a solution provider for building automation, simplicity and convenience are particularly important to us when it comes to energy monitoring.

Our energy monitoring solution offers a complete system from a single source: from data acquisition in the system to detailed analyses in the pro.Building Suite. This means no complex integration of third-party providers, no media disruptions and maximum reliability. The solutions are harmonised and intuitive to use – saving time and money.



Building operators

For building operators, energy costs represent a large proportion of operating costs. A transparent analysis and optimisation of energy consumption increases the efficiency of technical systems. In this way, costs can be reduced by between 10% and 30% year on year. The legal requirements of the Energy Performance of Buildings Directive (EPBD), energy management in accordance with ISO 50001 and energy audits in accordance with DIN-EN 16247 force building operators to be more transparent about energy consumption in the building. The DEOS energy monitoring system also enables sustainability reporting in accordance with ESG criteria and the CSRD directive. Thanks to the optimisation of energy consumption, the CO₂ footprint of buildings can be reduced, which is a plus for funding programmes and the company's own image.



Planners and energy consultants

As a planner or energy consultant, does planning an energy monitoring system often give you a headache? Do you not know how to connect the systems with each other? With seamless data integration from the technical system to the meters, DEOS energy monitoring provides the data securely – without any media disruptions. This provides a reliable basis for creating an overall energy concept and makes it easier to document and provide evidence to public authorities or funding bodies.



DEOS system partner

For our DEOS system partners, efficient commissioning and the seamless integration of system and energy data in a consistent system is possible. Complex programming of interfaces is no longer necessary. The plug-and-play structure can map the typical applications of technical monitoring with minimal programming effort. Small systems or large projects can be scaled flexibly without additional programming effort. The solution can be easily customised to the customer's needs. You can concentrate on the essentials while our system does the work in the background.

Motivation

Based on political and technological trends

Technical systems in buildings that are not regularly and continuously monitored for proper operation often work inefficiently and cause unnecessary costs. Changes in building utilisation or manual interventions by operators often result in heating and air conditioning systems becoming misaligned.

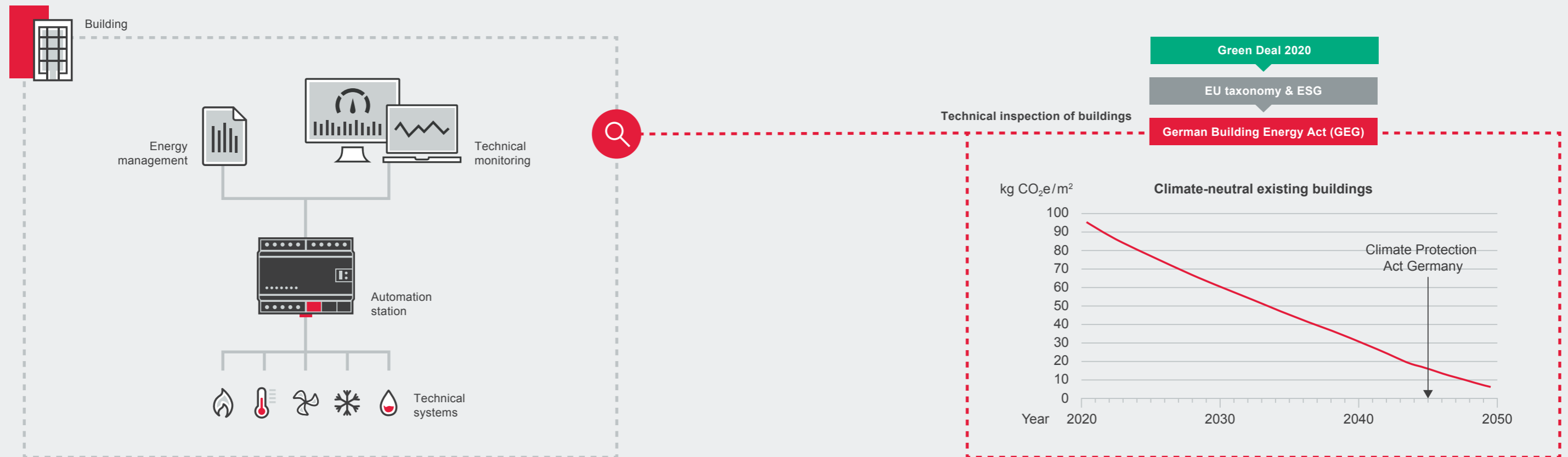
The automation solutions from DEOS create a seamless connection between the technical systems and the rooms in the building. The set parameters are monitored by technical monitoring. For example, the flow temperature can be controlled depending on the outside temperature.

This transparency makes it possible to recognise anomalies at an early stage and ensure efficient operation.

As part of the climate neutrality targets – at European level through the Green Deal and in Germany through the Climate Protection Act with the goal of climate neutrality by 2045 – legislators have also recognised that CO₂ emissions in buildings can be reduced through transparency in energy consumption. Accordingly, numerous European requirements have been transposed into German law in order to increase energy efficiency in buildings.

The EU taxonomy requires large investment funds to demonstrate the sustainability of their portfolios. Property owners with large portfolios in particular must therefore integrate their buildings' energy meters into an energy monitoring system. In addition, the Building Energy Act stipulates that energy monitoring must be installed in existing buildings with a heating or cooling capacity of more than 290 kW. This requires a technical analysis of the buildings by the operators.

The automation stations from DEOS offer a central interface here, via which meter data can be recorded using common bus protocols such as M-BUS, Modbus or BACnet. Another advantage is that the operating data of the technical systems, such as temperatures and measured pressures, can also be provided.



Functions & features

The right solution for every requirement



Cloud

The cloud-based energy monitoring solution offers the most comprehensive functionality and allows for the analysis and monitoring of energy data from any location. Thanks to its integration into the pro.Building Suite, large amounts of data can be efficiently evaluated and visualised. The templates for dashboards and reports enable comprehensive energy monitoring.

The server-based solution enables the centralised processing and storage of energy data within a building complex. In this case, several automation stations are networked via a server on site to provide detailed and long-term evaluations.



Server-based

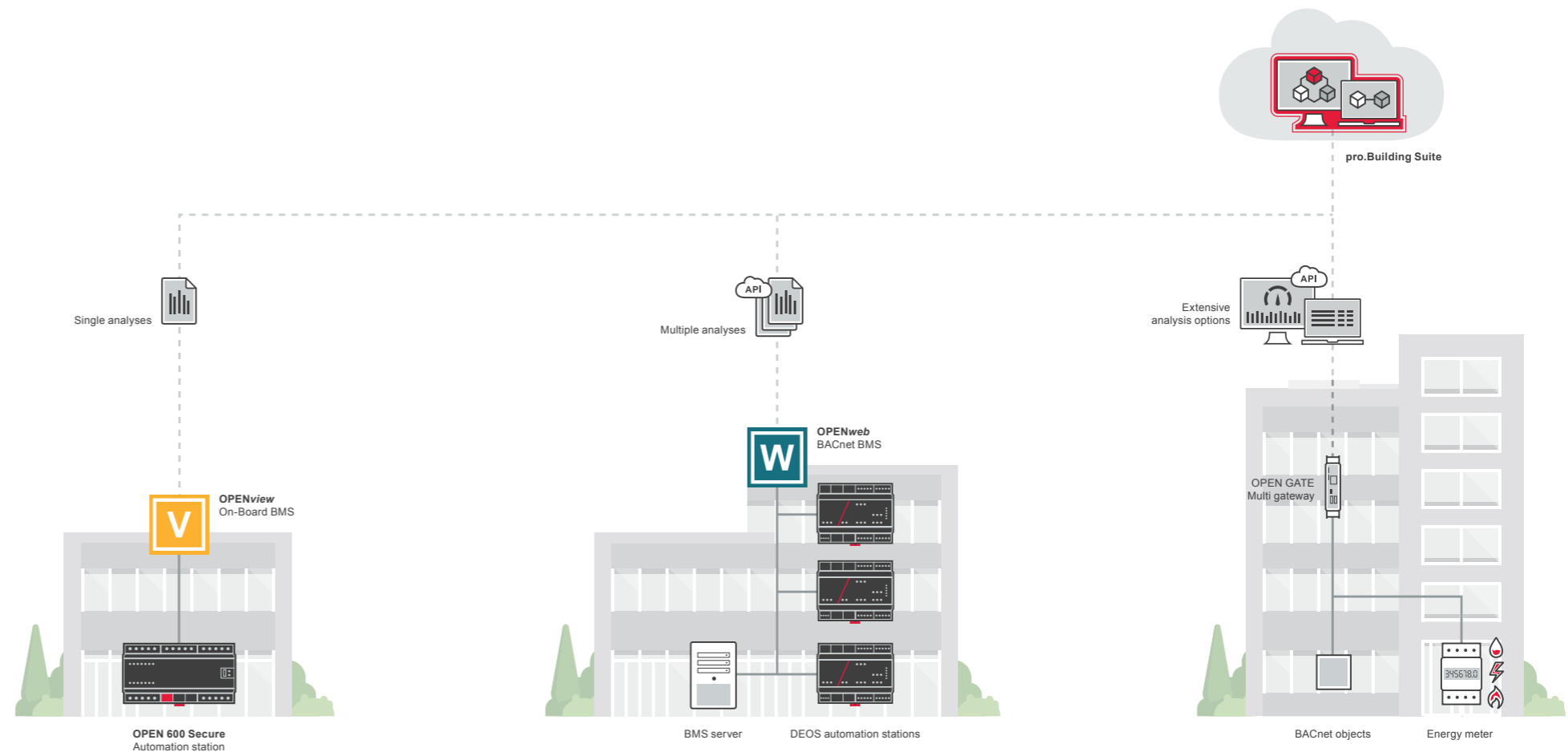
The on-board solution offers direct, local visualisation and evaluation of energy data within a building or system. It uses a direct connection to a DEOS automation station to process the data locally.



On-Board

Our solution

Holistic energy monitoring



On-Board

Server-based

Cloud

	On-Board	Server-based	Cloud
Visualisation	Bars/Lines	Bars/Lines	Bars/Lines/Circle/Traffic Light/Sankey
Data evaluation	Single analyses	Multiple analyses	Extensive analysis options
Time periods	Max. 2 years	Several years	Several years
Number of data points	250	20.000	20.000
Legal requirements according to EPBD	✓	✓	✓
Energy monitoring for technical systems	✓	✓	✓
Freely configurable interfaces	✓	✓	✓
Individual reports	—	—	✓
Comprehensive user administration	—	—	✓
Consumption information for tenants	—	—	✓

Harness the potential of our efficient energy monitoring solutions

Contact us!

Do you have any questions or would you like to learn more about our solutions? We are happy to provide you with personalised advice. Our team is looking forward to working with you to develop the best solutions for your requirements.

E-mail: info@deos-ag.com

Phone: +49 5971 91133-0



...or online

www.deos-ag.com/en/solutions/energy-monitoring



We are part of the Regin Group

The Regin Group is a European manufacturer of intelligent building automation and management systems as well as field products. For more than 75 years, our goal has been to sustainably improve energy efficiency in buildings and facilities through our technical solutions.

Today, the Swedish Regin Group consists of three strong product brands – Regin (SE), DEOS (DE) and Industrietechnik (IT). With our extensive product portfolio, we create integrated automation solutions – the best of three brands.

DEOS is your regional contact for the entire group portfolio in the DACH region.

For buildings and systems that inspire.



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DEOS AG . Birkenallee 76 . 48432 Rheine . Germany
Tel.: +49 5971 91133-0 . Fax: +49 5971 91133-2999
www.deos-ag.com . info@deos-ag.com

