

## Siemens adds cloud-based power monitoring to Port of Kiel's shore power system

- **Continuous monitoring of energy consumption in the terminal building and at the shore power connecting points**
- **IoT data platform enables data storage in MindSphere and easy remote access**
- **Systematic energy data management ensures efficient operations**

The Port of Kiel commissioned Siemens Smart Infrastructure to implement a cloud-based power monitoring solution for its shore power system. The shore power system, also from Siemens, will cover the electricity demand of all ships at the Ostseekai and Schwedenkai with green power while they are berthed at the Port of Kiel. This saves more than 8,000 tons of CO2 per year. The new power monitoring solution makes it possible to measure the energy consumption in the shore power operations building and at the Ostseekai and Schwedenkai connecting points, and store the data in MindSphere, the cloud-based IoT system from Siemens. The operators have access to all relevant electrical values at any time and from anywhere, allowing them to determine consumption, identify faults, avoid downtimes, and plan maintenance routines better.

“With our shore power system, we are playing a pioneering role and making an active contribution to climate protection,” said Dr. Dirk Claus, managing director at the Port of Kiel GmbH & Co. KG. “By systematically recording the power data and storing it in the cloud, the system operator can now determine the efficiency of the systems at any time, i.e. how much energy is actually being drawn. This allows to quickly respond to any anomalies if necessary.”

All data is captured using 7KM PAC series measuring devices, bundled, and transferred to MindSphere via the Powercenter 3000 IoT data platform, and

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visualized either via the integrated web server or the Sentron “powermind” app. The app can be used intuitively and requires no specific IT knowledge.

“Accurate knowledge of energy flows is crucial in order to ensure that operations run smoothly from a technical point of view and are ecologically as well as economically sustainable – whether in industry or infrastructure,” said Andreas Matthé, CEO of Electrical Products at Siemens Smart Infrastructure. “Our solution provides the Port of Kiel with an uncomplicated digital energy data management and makes the operation of its shore power system even more efficient.”

The Port of Kiel has ferry connections to Scandinavia and to the Baltic states and is the starting point for many cruises. In 2019, 32 different cruise ships called at the Port of Kiel a total of 174 times, bringing about 800,000 passengers to Kiel. The first shore power system was commissioned in May 2019 at Norwegenkai. The second facility, with connecting points at Ostseekai and Schwedenkai, was connected to the grid this year. It has a capacity of 16 megavolt amperes (MVA) and will be able to supply two ships in parallel for the first time.

This press release as well as a press photo can be found at <https://sie.ag/2N9vx5a>

The press release “Siemens builds Germany’s largest “power outlet” for ships for Port of Kiel” can be found at <https://sie.ag/2OgHXZp>

For more information on Siemens Smart Infrastructure, see [www.siemens.com/smart-infrastructure](http://www.siemens.com/smart-infrastructure)

For more information on power monitoring, see [www.siemens.com/powermonitoring](http://www.siemens.com/powermonitoring)

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**Siemens AG** (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. Active around the world, the company focuses on intelligent infrastructure for buildings and distributed energy systems and on automation and digitalization in the process and manufacturing industries. Siemens brings together the digital and physical worlds to benefit customers and society. Through Mobility, a leading supplier of intelligent mobility solutions for rail and road transport, Siemens is helping to shape the world market for passenger and freight services. Via its majority stake in the publicly listed company Siemens Healthineers, Siemens is also a world-leading supplier of medical technology and digital health services. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power that has been listed on the stock exchange since September 28, 2020.

In fiscal 2020, which ended on September 30, 2020, the Siemens Group generated revenue of €57.1 billion and net income of €4.2 billion. As of September 30, 2020, the company had around 293,000 employees worldwide. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).