

CUSTOMER CASE

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SIPP Hub helps Ellevio transition from scheduled to predictive maintenance

A pilot installation of the SIPP Hub monitoring and control equipment has commenced at Ellevio, one of Sweden's largest energy companies, creating conditions to work with connected substations which ultimately provides a higher degree of predictive maintenance. By connecting sensors to SIPP Hub and collecting real-time data while also using AI analysis to detect deviations, the need for field visits is reduced and maintenance management is optimised.



Currently, the project has been focused to the measurement and monitoring of SF₆ gas at one of Ellevio's substations in central Sweden. However, by connecting more sensors to the SIPP Hub, the solution can be used in virtually all areas. The data gathered will provide network owners with an immediate insight into the need for maintenance, while also detailing other factors that could impact on operational reliability.

“In the past, physical visits have been needed to collect this information. It is demanding and means that it can take months between data collection, analysis, and action. With the help of SIPP Hub, we can now receive current measured values on an ongoing basis, which provides better conditions for detecting microleakage of SF₆ gas, which we know has a negative environmental impact”, comments Mattias Airiman, Analyzes and Strategy Manager, Network Operation, Ellevio.

Easy and cost-effective to take the next step

As sensors, computing power and analysis tools have become cost-effective and significantly more accessible, it is now possible to continuously and in advance get a picture of the maintenance needs of critical assets at the substation. Once SIPP Hub is installed, the infrastructure required to easily and cost-effectively connect more sensors is now readily available.

“It is of course a great advantage to us when the web interface and communication platform, in the form of SIPP Hub, is in place. This means that an expansion does not have to become a new demanding project. Instead, it will be very easy and cost-effective to add more sensors for more areas of use, enabling us to get quick and secure access to various measurement values in the field”, Mattias Airiman continues.

Collected data can be integrated with Ellevio's own systems

By connecting sensors with SIPP Hub, Ellevio has created an environment for integrating the collected information directly into its own systems. This can mean, for example, that an alarm automatically creates a work order for action or that the analysis of data can be handled together with information from other parts of the business. This environment has the additional benefits of reducing and minimizing physical maintenance site visits. Smarter and more efficient maintenance also contributes to increasing the lifespan of existing facilities and equipment reducing the total cost of ownership.

“Gomero, which provides SIPP Hub, has consistently been a reliable partner. In addition to a high level of technical competence, they listen to our needs and have a very good understanding of our everyday life and the importance of working sustainably. Another important aspect is IT security. That issue is critical to all our business operations and Gomero has shown that safety is also a leading priority”, Mattias Airiman concludes.

About SIPP and SIPP Hub

Gomero's connected control equipment SIPP, has for a long time offered detection of oil leakage from the transformer and automatic environmental protection of the transformer bund. With SIPP Hub, completely new opportunities are created to connect more sensors and utilize Gomero's established and secure infrastructure to collect and analyze more data from more critical assets at the transformer station.

SIPP Hub enables customers to continue the transition from scheduled to predictive maintenance by connecting more equipment at the substation. At the same time, SIPP meets the customers' high demands on sustainability, safety, and cost savings. SIPP is the market leader in Sweden and helps over a hundred electricity grid owners in nine countries with predictive maintenance on the substation.

About Gomero

Gomero Group AB (publ) is a company that offers innovative solutions to customers in the energy sector for long-term sustainable economic growth through the development of systems and services for predictive maintenance - an area with very strong global growth. With Gomero's connected products, sensors, AI and data analysis, we ensure that maintenance work can be carried out optimally and with an increased degrees of automation.

Gomero's SaaS-based process support, IoT and increased digitization makes it possible to work efficiently with autonomous, connected devices – for example, at substations bunds and switchgear. For customers, this means increased reliability, reduced costs and better opportunities to work with need-based maintenance. It also creates better conditions for increased electrification and effective environmental and sustainability work. Gomero's customers include Ellevio, Vattenfall, Skagerak Energi, Fingrid and Deutsche Bahn.

About Ellevio

With close to a million customers, Ellevio is one of Sweden's largest electricity network companies. We take an active role in the journey towards a fossil-free society. Our electricity grids are the backbone that connects producers and consumers of electricity, which enables more renewable electricity production and electrification of transport and industry creating the conditions for new climate-smart services for our customers. We have almost 600 employees and employ a total of 3,000 people around the country. We are owned by the pension managers OMERS Infrastructure, Folksam, the First AP-fonden and the Third AP-fonden.