

Zug, April 30, 2019

Siemens to deliver power control system to Oslo's distribution network

- **Spectrum Power ADMS to provide reliable energy supply for 1.5 million people**
- **One multi-site system to handle all voltage levels**

Hafslund Nett, Norway's largest grid company has contracted Siemens to supply a new Advanced Distribution Management System (ADMS) for the operation of the regional power grid in Akershus, Oslo and Østfold. The fully integrated grid operating center will enable monitoring and control of the complete power grid covering all (high-, medium-, low-) voltage levels. At the same time, it will allow easy integration of third-party IT/OT systems, such as customer information systems, workforce management or geographical information systems. The project is expected to be operational at the beginning of 2022.

The scope of supply encompasses the ADMS, which integrates Distribution SCADA as well as Outage Management to track faults and restore the system in one common user environment. Furthermore, the Distribution Network Applications (DNA) that include automated Fault Analysis, Network Analysis, and Load Forecast is part of the order. These applications are used in real-time to support the operator in assessing the state of the entire grid; to improve the normal operation of the grid through control optimization; and to resolve abnormal grid conditions such as faults or limit violations.

"With our Spectrum Power portfolio, Siemens was able to offer an advanced grid control solution in one platform ", said Nils Klippenberg, Nordic Managing Director at Siemens Smart Infrastructure. "This will help our customer to ensure a high level of energy reliability, fast fault detection based on smart meter information, network-

wide optimization and blackout prevention measures.”

“Hafslund is looking forward to getting a modernized control center with Advanced Distribution Management functionality based on Spectrum Power 7. We have an extensive procurement process, and the choice fell on Siemens, as we concluded that Spectrum Power ADMS best fits in with our current and future needs,” said Sigurd Kvistad of Hafslund.

This press release and a press picture is available at

www.siemens.com/press/PR2019040253SIEN

For further information on Siemens Smart Infrastructure, please see

www.siemens.com/smartinfrastructure

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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. The company is active around the globe, focusing on the areas of electrification, automation and digitalization. One of the largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. With its publicly listed subsidiary Siemens Healthineers AG, the company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2018, which ended on September 30, 2018, Siemens generated revenue of €83.0 billion and net income of €6.1 billion. At the end of September 2018, the company had around 379,000 employees worldwide. Further information is available on the Internet at www.siemens.com.