



Energy efficient & connected solution for smart eco-ships

Scandlines, Denmark

Scandlines optimizes energy consumption on its ferries with Schneider Electric Connected Breakers

schneider-electric.com/marine

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Customer profile

Scandlines stands as a symbol of a historical and close cooperation between Denmark, Germany and Sweden since 1872. Under the names Scandlines and Scandlines Helsingør-Helsingborg, three short ferry routes are marketed with high capacity and frequency and with a green vision for the future.

Customer challenges

Scandlines is looking for ways to optimize the footprint and performance of its ferries while reducing fuel consumption and increasing passenger comfort.

Solution overview

Measuring, collecting and analyzing energy consumption is a major step towards energy optimization. Schneider Electric provides a complete solution to enable monitoring and analyzing detail energy profile and electrical network performance.

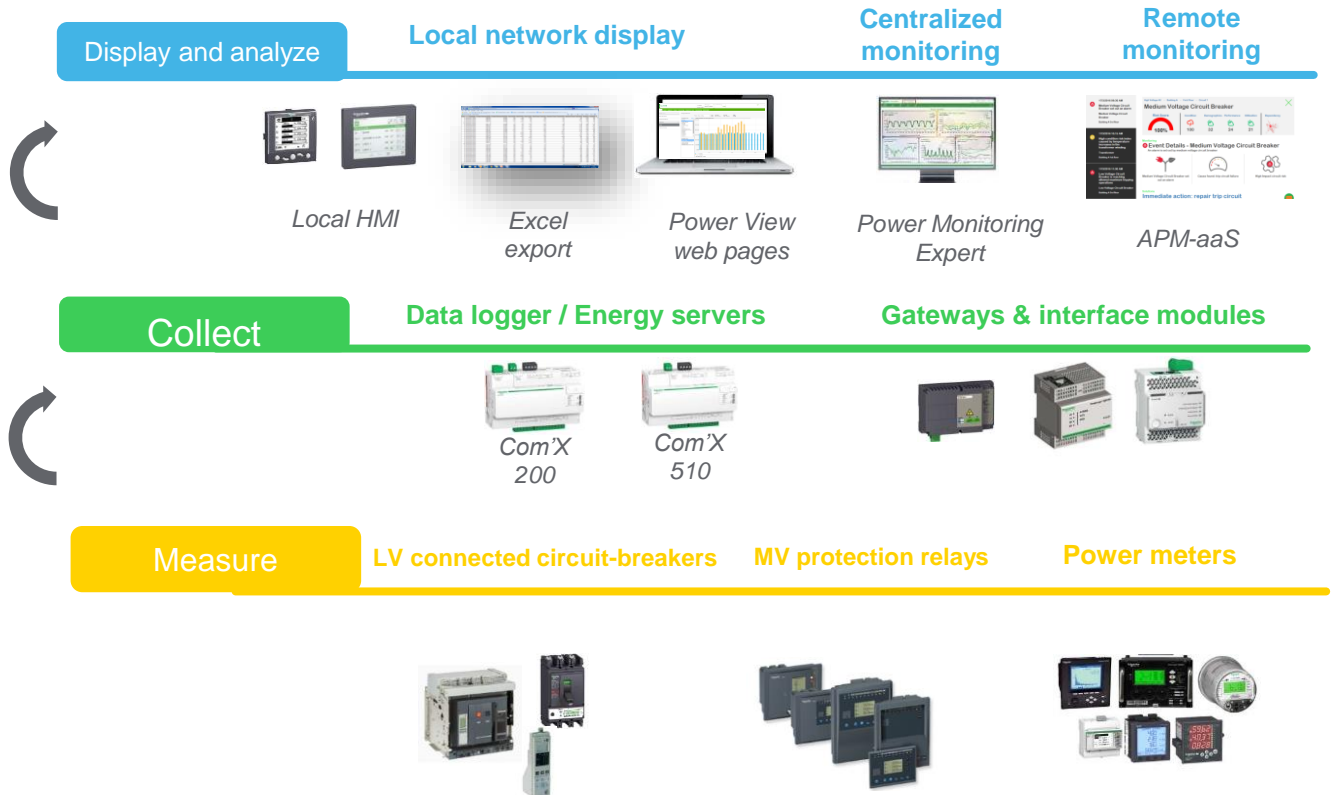
Goal

10-14%
energy saving
Solution

1. Trip unit relays protect power circuits. They also offer measurements, display, communication and current maximeters.

2. Enerlin'X communication system provides access to status, electrical values and devices control using Ethernet and Modbus SL communication protocols.

3. Service available by Schneider Electric team or by partners.



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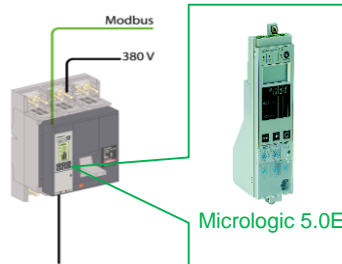
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Solution implementation

As the global specialist in energy management and automation, Schneider Electric is one of the few suppliers who can provide the proven expertise, reliable products and solution knowledge. The strong collaboration between Schneider Electric and Scandlines allowed the consideration of alternative solutions for the right product and analyzing tool selection within Smartpanel and EcoStruxure solutions.

- Upgrade of trip unit relays.

- ✓ Circuit breakers that contain both protection & metering
- ✓ Space, cost saving solution



- Communication module and gateways installed.

- ✓ Easy to Install. Easy to configure
- ✓ Compatible with Schneider Electric Hosted Platforms
- ✓ Cost effective solution to log data to the cloud

- ✓ Easy to Install. Easy to setup.
- ✓ Easy to maintain
- ✓ Compatible with Schneider Electric Power Scada Expert, Power Monitoring Expert
- ✓ Reliable Modbus to Ethernet conversion



Energy servers



Link150 gateway

- Data successfully collected and presented by above independent supervision.

- Schneider Electric Field services technicians can perform Energy Efficiency and Power Quality audit onboard everywhere in the world and provide a detailed diagnosis of installation and recommendations for improvement.

'I can monitor my facility's power availability in real time'.



Value to Customer

- Fast delivery of products
- Service available worldwide
- Easy to install & to operate
- Access to information in Real Time
- Easy Reporting
- Easy communication with 3rd party systems
- Easy identification of Power, Energy Consumption and more
- Estimation of energy saving potential

- Performance Analysis for vessel & fleet

See what Scandlines' Ass Superintendent Christian Thiemer says about connected breaker.

https://youtu.be/N_JgldpUbD8



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