

PSW

POWER & AUTOMATION<sup>★</sup>



**Shore  
power  
systems**

# Shore power systems



We provide complete, seamlessly integrated shore power systems for safe and reliable power transfer from the grid to the vessels or offshore infrastructure. All designs are according to IEC 80005-1 and IEC 80005-3.



## Megawatt charging solutions

We also offer complete, seamlessly integrated megawatt charging solutions for safe and reliable power transfer from the power grid to the onboard batteries.

A dynamic charging system that automatically charges the ships based on power ramp according to grid capability, dynamic power limit based on available charging time and electricity price.



## Medium and low voltage solutions

Our medium and low voltage shore power solutions includes input and output switchgear, transformer solutions, AFE and grid inverters.

## Strengthen electrical infrastructure

We can supply optimized solutions to upgrade and strengthen infrastructure of the local grid and port network.

### Options:



Optional integration with other energy sources such as solar, batteries and hydrogen are available in the event of lack of grid capacity.



Optional integration with charging infrastructure for higher utilisation.

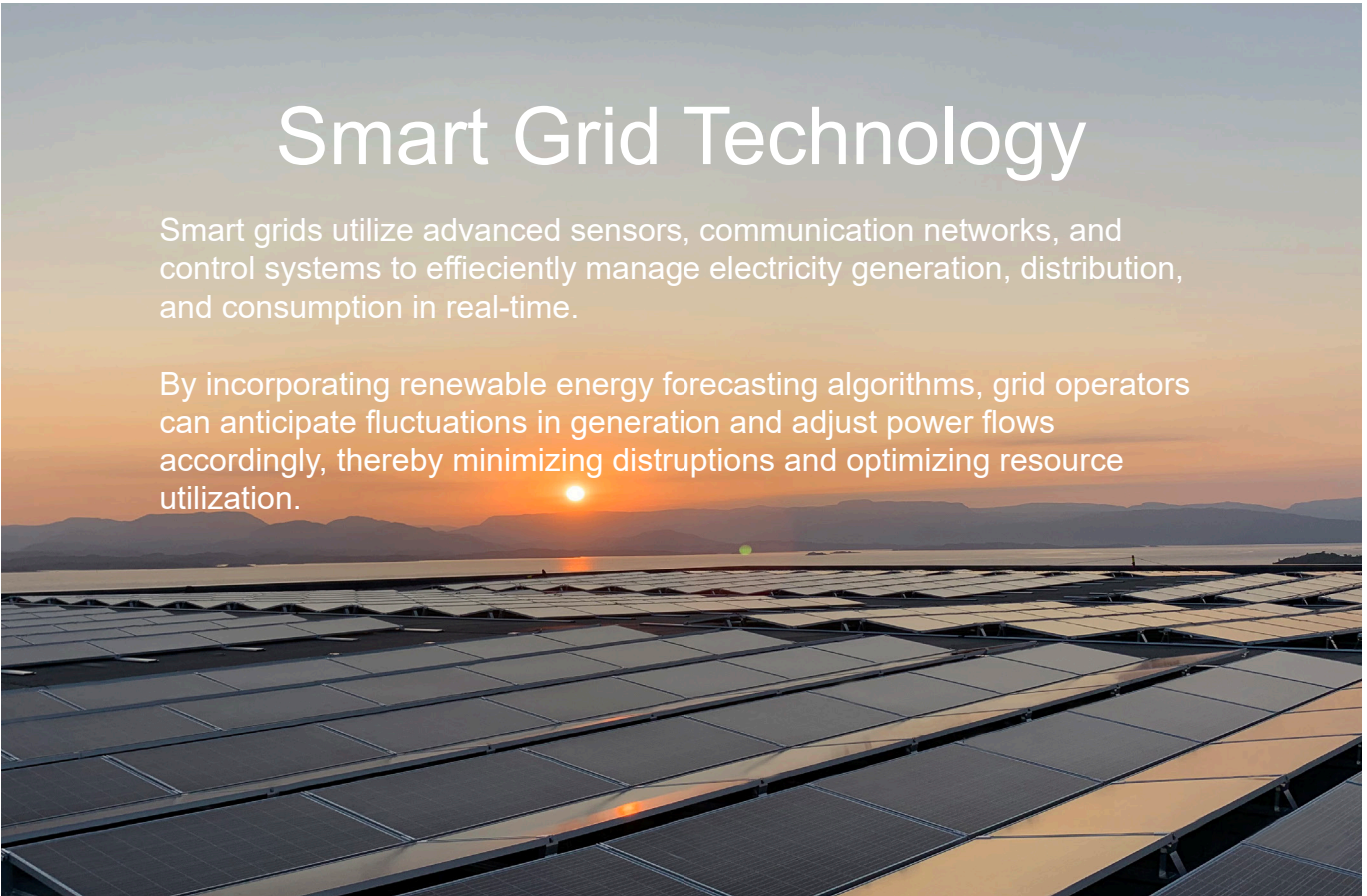


Optional usage of assets for grid stabilisation services.

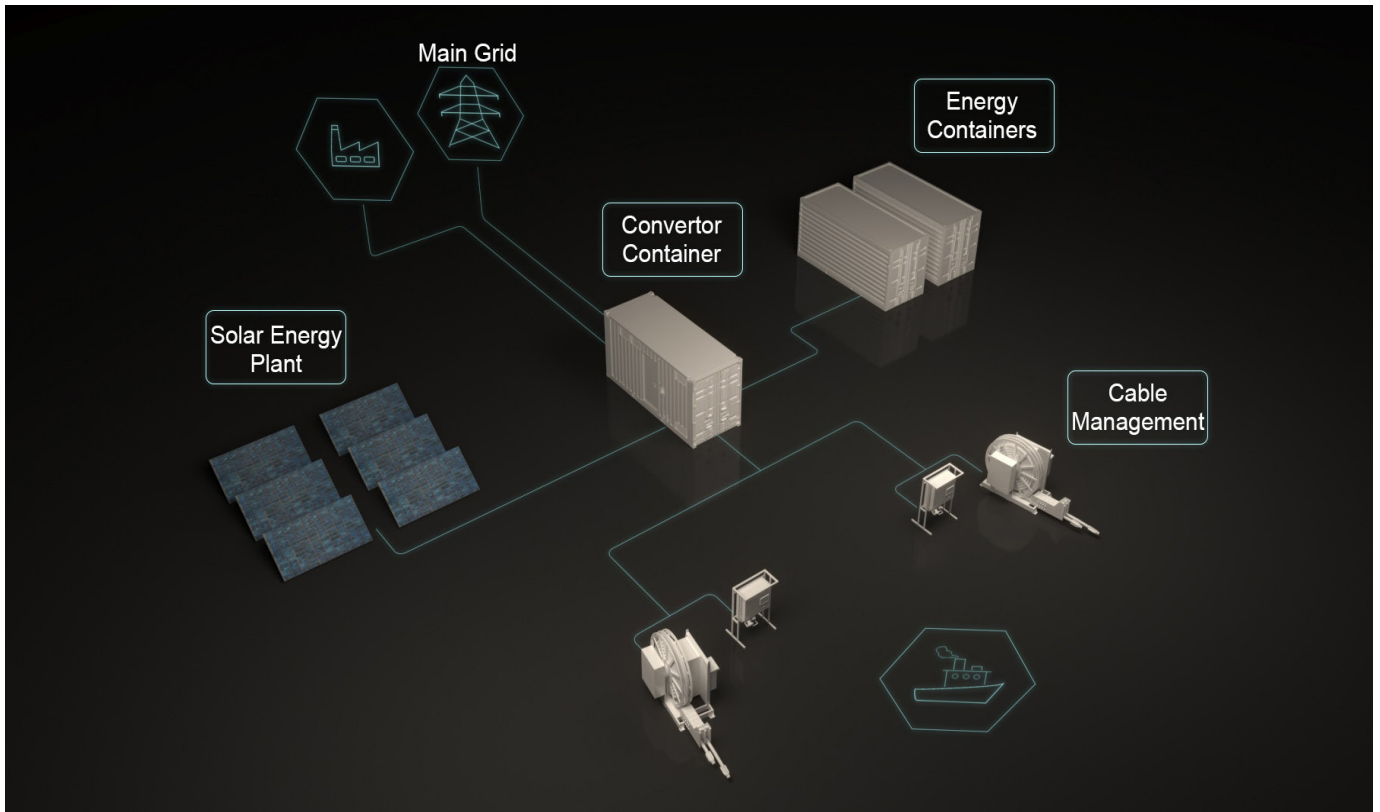
# Smart Grid Technology

Smart grids utilize advanced sensors, communication networks, and control systems to efficiently manage electricity generation, distribution, and consumption in real-time.

By incorporating renewable energy forecasting algorithms, grid operators can anticipate fluctuations in generation and adjust power flows accordingly, thereby minimizing disruptions and optimizing resource utilization.



## Strengthen port network



In addition to providing DC charging solutions, we offer optimized battery solutions for onshore use, enhancing infrastructure within local and port networks.

### Options:



Optional integration with other energy sources such as solar, onshore batteries and hydrogen are available in the event of lack of grid capacity.



Optional usage of assets for grid stabilisation services.



# Contact us:

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