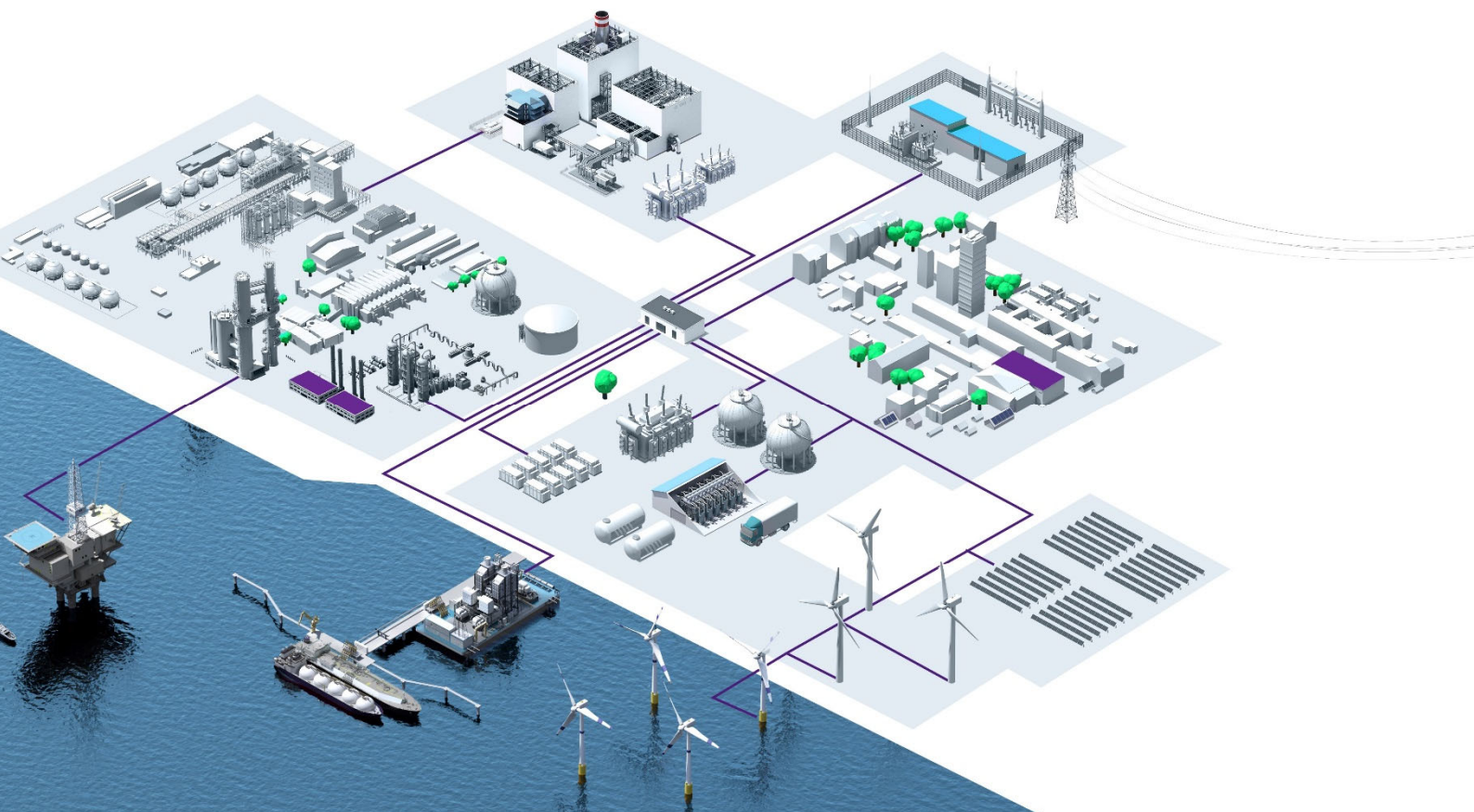


Omnivise Hybrid Control

Microgrids and Hybrid Power Plants

[siemens-energy.com](https://www.siemens-energy.com)





FLEXIBILITY and SCALABILITY

Multi-generation energy mix for future

SUSTAINABILITY

CO₂ reduction



ECONOMIC EFFICIENCY

Reduced levelized cost of energy LCOE



RESILIENCE & RELIABILITY

Off-grid and on-grid operation and transition



Omnivise Hybrid Control

Standard Functions:

- Power exchange and balance
- Conventional generation control
- Renewables and battery control
- Islanding - Black Start - Resynchronization
- Frequency and voltage control
- Reserve management
- Load shedding
- Peak shaving
- Measurement acquisition and archiving
- Event management
- Monitoring and reporting

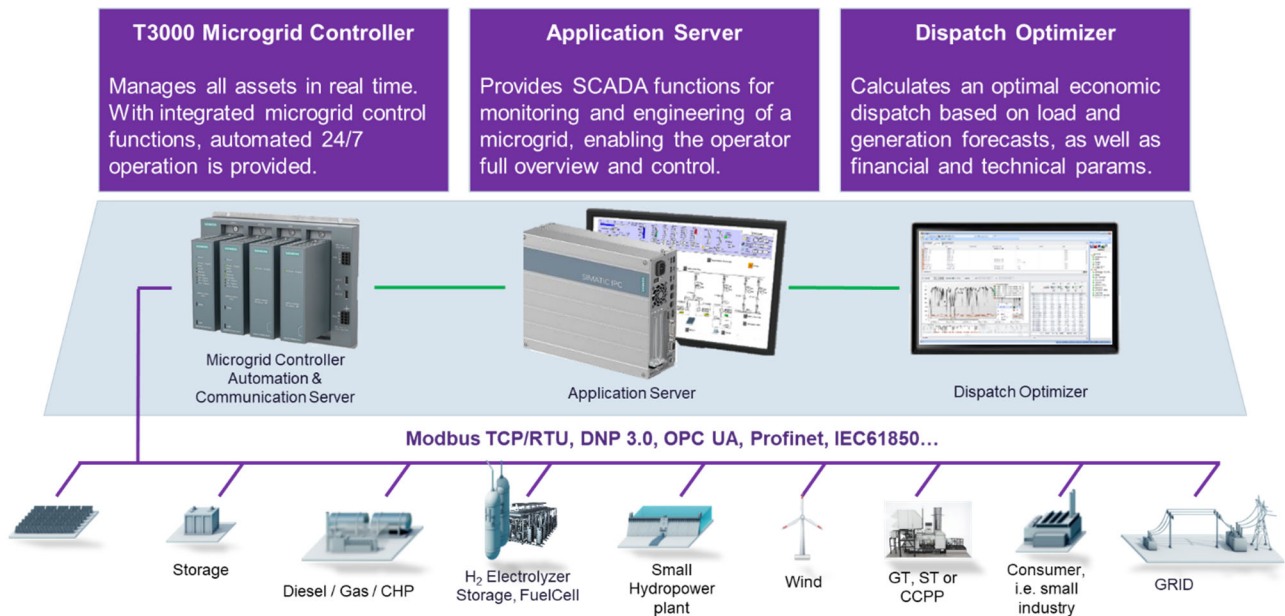
Advanced Functions:

- Integration of hydrogen resources
- Integration of thermal resources
- EMS with optimal unit commitment
- Generation and load forecasting



Omnivise Hybrid Control

Omnivise Hybrid Control is Siemens Energy’s control solution for medium and large microgrids and hybrid power plants. It is capable of managing a wide variety of different distributed energy resources in an autonomous and coordinated way, ensuring reliable 24/7 operation. With its flexible and scalable system architecture, it also supports very complex microgrids and projects with more assets.



Omnivise Hybrid Control is based on SPPA-T3000, a state-of-the-art power-plant controller with full redundancy and cybersecurity features with more than 3,000 installations worldwide.



Omnivise Dispatch Optimizer provides economic dispatch optimization based on forecasts, technical and financial measurements and parameters.



All standard Microgrid protocols including PROFINET are supported, with ability to integrate all types of 3rd-party products and existing resources.



Using DCS architecture, it is scalable and flexible for managing microgrids and hybrid power plants ranging from 500kW to more than 100MW+.



Pre-engineered dashboards and signals on a dedicated HMI enable fast deployment and require minimal engineering.



The engineering environment provides ability to customize the microgrid, change existing components and add new ones.



Integrated simulation environment is available.



Published by

© Siemens Energy 2021

SE GP G IC CON-GCO R

Freyeslebenstr. 1

91058 Erlangen, Germany

For more information, please visit our website:
[siemens-energy.com](https://www.siemens-energy.com)

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.