

Energy and Infrastructure

Sustainable and Efficient Supply

Population growth in our cities is putting stable energy supply to the test. In addition, decentralized infrastructures in which consumers can also produce energy on their own present a challenge to the stability of the grid. The expansion of smart power grids offers a chance to bring energy supply, information, and communication technologies closer together. At the heart of the energy revolution, electricity grids are being converted into smart grids.



ENERGY STORAGE SYSTEMS

- ▶ Real-time visualization
- ▶ Reports, lists, and trend analysis
- ▶ Stable operation
- ▶ Central alarm administration
- ▶ Automatic fault notification



SUBSTATIONS

- ▶ Automated command sequences
- ▶ Identification of system errors
- ▶ Safe, efficient operation
- ▶ Alarm messages in real time
- ▶ Efficient maintenance
- ▶ Rapid project development



HYDROELECTRIC POWER STATIONS

- ▶ Analysis and reporting
- ▶ Identification of leaks
- ▶ Reconstruction of previous states
- ▶ Remote access and maintenance
- ▶ Automatic alerts in real time



DISTRIBUTION MANAGEMENT SYSTEMS (DMS)

- ▶ Worldview for optimal monitoring
- ▶ Reconstruction of network states
- ▶ Automate complex command sequences
- ▶ Analysis and reporting
- ▶ Rapid fault location
- ▶ User management
- ▶ Remote access and maintenance



RENEWABLE ENERGY

- ▶ Customizable reports
- ▶ Monitoring and control of systems
- ▶ Clear, graphical network display
- ▶ Decentralized user administration
- ▶ Integration of cloud infrastructures

The zenon Software Platform supports all common communication protocols in the energy industry, such as IEC 61850, IEC 60870, DNP3, Modbus Energy, and IEC 61400-25. Further essential functions include extensive visualization options, simple reporting, sophisticated process simulations, as well as legally compliant archiving.