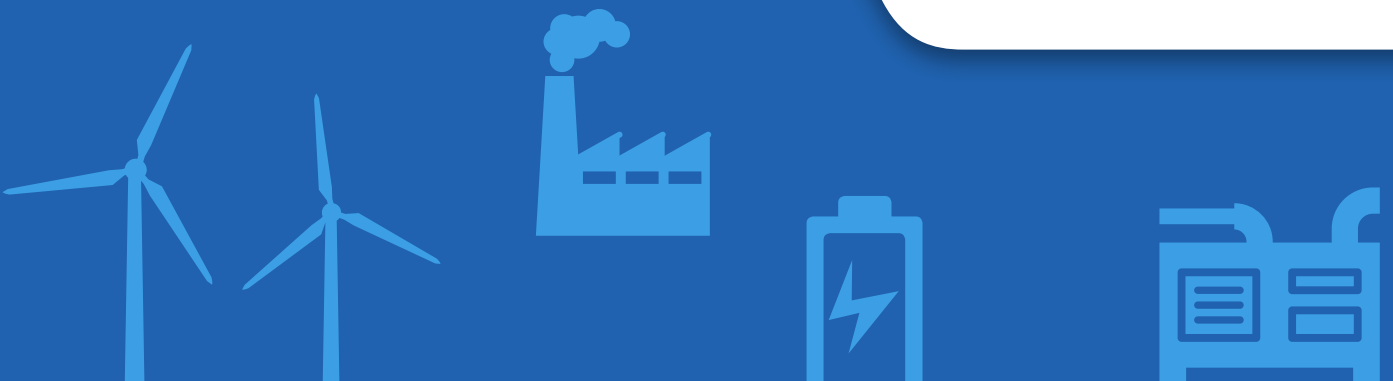




## Microgrid Solutions

**TEKSAN**

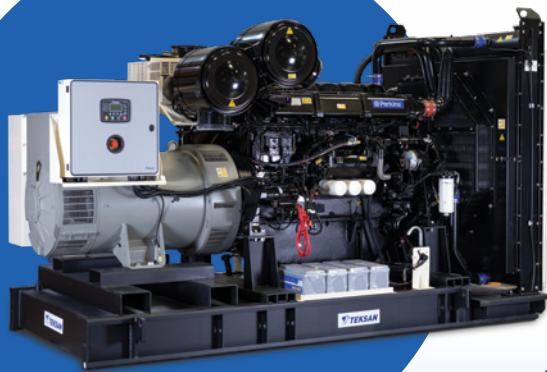




## WHENEVER YOU NEED POWER, WE ARE ALWAYS WITH YOU...SINCE 1994!

Since 1994, Teksan has been delivering high quality tailormade solutions that are designed accordingly to your requirements with strong after-sales technical support and maintenance services anytime and anywhere you need uninterrupted power supply. When your company is moving further ahead rapidly on the road to success, you always feel our continuous support as your reliable power solutions partner.

*Because Teksan is a member of your family...*



PRODUCTS



**Microgrid is an electrical power system that uses local and distributed energy sources to meet local electricity needs and can operate independently of the national electricity grid.** This system can be configured independently from the mains or as a backup to the mains. Grid-connected systems are also called hybrid microgrids. It is a small-scale, independent network that can continue to meet its energy needs independently from the grid in case of insufficient quality or complete cut-off of grid energy, and can operate in island mode.

A microgrid can be powered by renewable sources such as diesel/gas generators, battery energy storage systems and/or solar panels/wind turbines. These grids can operate continuously, depending on how it is fed, the load requirements, and how the system is managed.

Microgrids provide efficient, low-cost, clean energy. It also increases local power supply flexibility and improves the quality of the electricity grid. Microgrids, as an energy source, are capable of highly dynamic response to power demand.

Microgrids facilitate the integration of renewable energy sources such as photovoltaic, wind and fuel cell generation without requiring the redesign of the national distribution system. To improve efficiency, economy, and flexibility, our microgrid solutions are equipped with intelligent control and energy management systems.

As Teksan, we carry out system simulation and optimization within our microgrid solutions, we carry out system design and production as well as installation and commissioning stages, and we carry out system operation and maintenance processes.

### SYSTEM COMPONENTS

- Diesel or Gas Gensets
- Wind Tribune
- Solar Panels
- Battery Energy Storage System
- Power Conversion System
- Energy Management System
- Electric Vehicle Charging Station

### PROVIDED SOLUTIONS

- Simulation and System Optimization
- Design and Production
- Assembly and Commissioning
- Operation and Maintenance

### APPLICATION AREAS

- Voltage and Frequency Regulation
- Black start
- Transmission and Distribution Line Support
- Price and Request Optimization
- Energy Demand Regulation
- Uninterrupted Power Supply
- Cost Optimization
- Energy Efficiency and Supply security
- Power Quality Enhancement
- Smart Grid Applications
- Electric Vehicle Systems





SOME OF OUR TAILORMADE SYSTEMS



Tailor Made System and Panel Design



Special Insulation Options



Super Silent Cabins



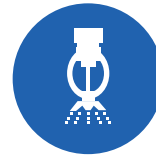
Remote Monitoring System



Service-Maintenance Packages



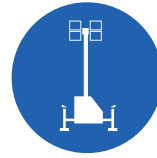
High-Capacity Fuel Tanks



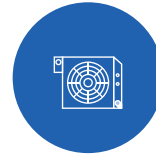
Fire Extinguishing and Protection System



Vibration Absorbing Systems



Mobile Power Generator and Lighting Systems



Remote Radiator Applications

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COMPANY**

**TEKSAN**



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