TGN Energy

TGN FlexControl

The power to control power

The beating heart of your power system

TGN FlexControl is a complex industrial grade computer system that monitors and maintains all you power systems. It actively controls your power generators, such as solar PV, wind and backup generators, to attain the best possible result for your needs.

By integrating energy storage systems (ESS), TGN FlexControl allows for intelligent and proactive utilization of the available power. This enables a whole range of possibilities for your power to be utilized in the best possible manner and generate revenue doing so.
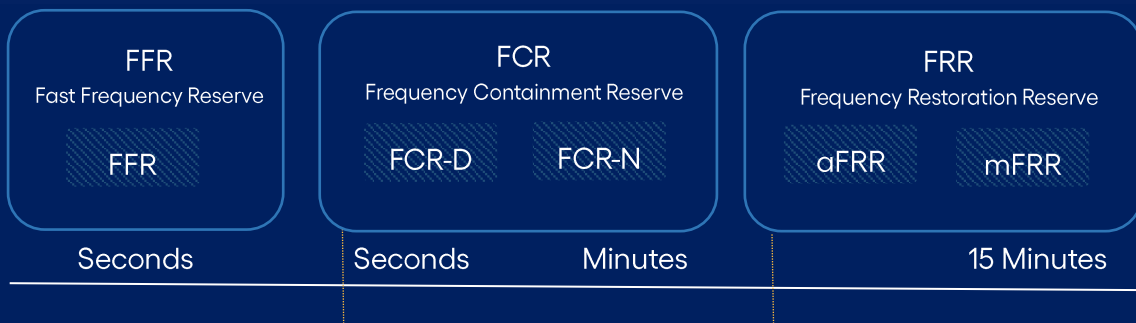
Intelligent power regulation

TGN FlexControl integrates the local energy price information to the decide how to best utilize the energy you produce and ensure the quality and stability of your power supply. Integration of local energy prices and flexibility market advantages, enables active decision making to ensure the best possible return on your investment.

Complete information integration

TGN FlexControl integrates all your production and consumption in one place, to make the best decisions possible. No guessing or estimation needed. All data can be presented to the user(s) via TGN Aggregate and to a public information display. This cloud-based service allows your power system to become accessible and transparent without the need for specialized expertise. Monitor all your energy flow in real time and get comprehensive reports on the status and performance of your system.
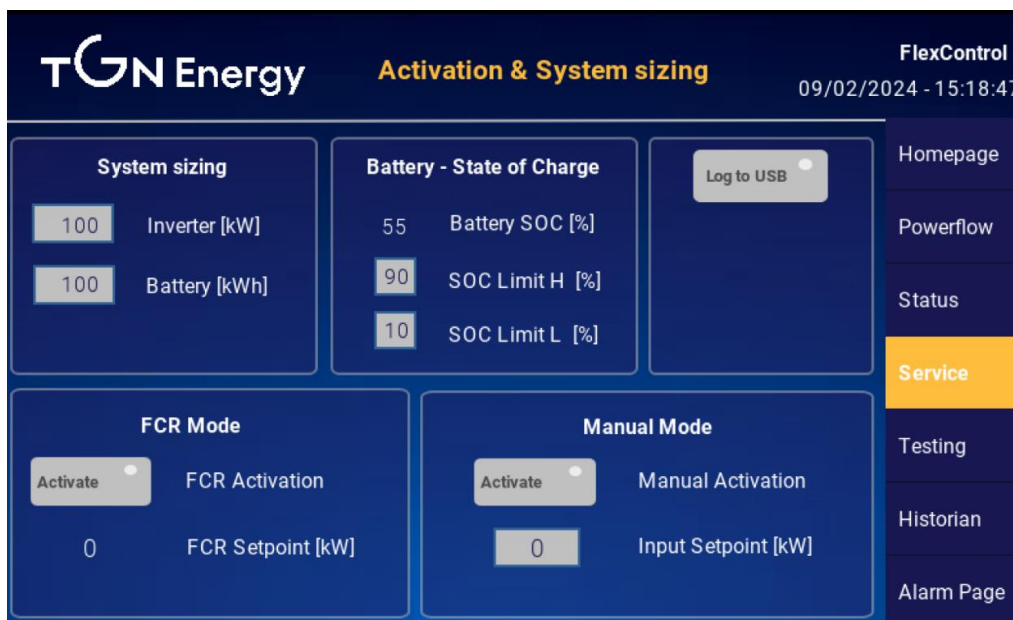
Be part of the solution

TGN FlexControl enables the capability to connect your energy resources with the power grid flexibility markets. This allows your systems to contribute to the stability and security of the power grid while generates revenue.

FFR	FCR	FRR
Fast Frequency Reserve	Frequency Containment Reserve	Frequency Restoration Reserve
FFR	FCR-D FCR-N	aFRR mFRR
Seconds	Seconds Minutes	15 Minutes

A solution that grows with you

TGN FlexControl comes in a range of configurations, with the option to expand and add more features as your system requirements grow. More energy storage, more local energy production, more sensors for smarter integration of energy and decision making. Whatever your needs and however you grow, TGN FlexControl will be right there with you.

Unrivaled compatibility

With a TGN FlexControl, you can add virtually any new component to your power system and remain fully integrated. Battery energy storage (BESS), hydrogen energy storage (HESS), solar PV power, wind power, wave power, tidal power. Whatever your system, TGN FlexControl can integrate it, optimize it, and allow you to be in complete control.

Secure energy control

Cyber security is absolutely paramount in the modern world. That is why TGN FlexControl operates independently from any central system and only communicates vital information outwards. What little information is retrieved from the outside, is checked for viability and reliability prior to implementation. All communication is conducted through end-to-end encrypted VPN tunnels to ensure data privacy.

Designed for your needs

TGN FlexControl comes in a range of configurations to fit your requirements. From simple monitoring tasks to full scale command-and-control of entire industrial complexes.

Model	FlexControl Jr.		FlexControl Sr.	
	Standard	Upgraded	Standard	Upgraded
General Capabilities				
Multiple energy source input	○	●	●	●
External sensor input	○	●	○	●
Off-grid island mode	○	○	○	●
Behind the Meter Services				
Load shed trading	○	●	●	●
Peak-shaving	●	●	●	●
Power Limitation	●	●	●	●
Arbitrage	●	●	●	●
Active Islanding	●	●	●	●
Reactive Load Compensation	●	●	●	●
Vehicle Charge Boosting	●	●	●	●
Reserve Market Trading				
FFR	●	●	●	●
FCR-D	●*	●*	●*	●*
FCR-N	●*	●*	●*	●*
aFRR	●**	●**	●**	●**
mFRR	●**	●**	●**	●**

* Market expected to be made available in 2024 in the Nordics
** Not yet made available in the Nordics

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