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Statement on Energy Management System (EMS) functionality

GoodWe EMS, integrated into GoodWe inverter and its platform — SEMS+

The system executes the energy-management logic in the following order:

- Power generated by solar sources is primarily consumed to meet the real-time load demand.
- Surplus renewable power is used to charge the battery energy storage system.
- Remaining surplus electricity that cannot be consumed or stored is exported to the grid, except zero-export.

The GoodWe EMS shall provide at least the following capabilities:

- The system determines the timing and charging/discharging power of the battery according to solar generation, local loads, time profiles and grid conditions.
- The system supports configurable time-of-use (TOU) profiles and scheduled charge-discharge strategies. Allowing users to define time windows for different operating modes.

The built-in EMS features advanced functions, such as:

- The system obtain electricity price information to analytically optimize charge and discharge strategies for dynamic tariff scenarios.
- The system integrates weather forecast data to support PV power forecasting.

GoodWe EMS optimizes electrical, minimizes unregulated grid power export, and supports peak shaving as well as maximized self-consumption. Rather than acting as a basic controller or mere visualization tool, the system executes autonomous decision-making using weather, dynamic tariff and consumption datasets.

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Notice

The information contained herein is believed to be accurate at the time of publication but may be subject to change without notice. Please check with GoodWe Solution Center 'JJFAZX-A35014@goodwe.com' for the latest version.