TTFAM

Integrated Solar & BESS Energy Solutions

From Solar PV to Grid Connection and Electricity Sales

TTFAM provides end-to-end clean energy solutions that integrate Solar PV generation, BESS energy storage, PCS, EMS, transformers, grid connection, and electricity sales support. We help clients implement a unified energy platform for commercial, industrial, and utility-scale applications.



SOLAR PV
Generation

BESS
Energy Storage

PCS & EMS
Power Control & Optimization

TRANSFORMER
& Grid Interconnection

GRID CONNECTION
& Electricity Sales

Core Capabilities

- Solar PV system planning and integration
- BESS energy storage system integration
- PCS and EMS based power control and optimization
- Transformer and grid interconnection support
- Swiss grid connection and electricity sales workflow

One partner.
One integrated system.
One energy strategy.

TTFAM

One-Stop Integrated Energy Flow

TTFAM coordinates the full value chain from power generation to storage, conversion, control, grid connection, and electricity sales in one integrated solution.



1. Solar PV

Clean power generation from rooftop or ground-mounted systems



2. BESS Energy Storage

Stores surplus energy and supports peak shaving, backup, and dispatch flexibility



3. PCS (Power Conversion System)

Enables bi-directional DC/AC conversion and stable power flow



4. EMS (Energy Management System)

Monitors, controls, and optimizes energy performance in real time



5. Transformer

Supports voltage conversion and interconnection readiness



6. Swiss Grid

Delivers safe and compliant connection to the local grid



7. Electricity Sales

Enables self-consumption optimization and export / sales opportunities

Integrated Benefits

- Reduced energy cost
- Improved renewable utilization
- Stable power quality
- Flexible operating strategy
- Revenue opportunities from electricity sales

A single interface for an end-to-end energy business platform.

TTFAM

What TTFAM Delivers

TTFAM supports clients through planning, integration, execution, and optimization of complete solar and energy storage systems.

1 Development & Engineering

- Site review and load analysis
- Preliminary system design and sizing
- Technical concept development
- Interconnection and compliance support

2 Integrated Supply

- Coordination of Solar PV, BESS, PCS, EMS, and Transformer systems
- Unified technical interface across major components
- Structured equipment integration for reliable operation

3 Execution & Commissioning

- Installation coordination
- Functional testing and system commissioning
- Performance verification and handover support

4 Operations & Optimization

- Monitoring and operational support
- Energy dispatch optimization
- Maintenance planning and performance improvement

Applications



Commercial & industrial facilities



Factories and logistics centers



Campuses, hotels, and institutions



Microgrid and utility-linked projects

Client Value

- Lower electricity expenses
- Peak shaving and resilience
- Higher renewable efficiency
- Smarter energy control
- Scalable path to electricity sales

TTFAM

Why TTFAM

TTFAM brings together system integration, operational coordination, and a market-focused energy model to help clients move from equipment deployment to energy business execution.



Why Clients Choose TTFAM

01

End-to-end solution coordination

Single-point responsibility across engineering, equipment integration, testing, and commissioning for seamless project delivery.

02

Integrated Solar PV + BESS + PCS + EMS + Transformer architecture

All core components and control systems are integrated into one unified, high-performance energy platform.

03

Grid connection readiness for Swiss market deployment

Full compliance support with Swiss grid standards, interconnection requirements, and utility coordination.

04

Operational visibility and optimization support

Advanced EMS and digital monitoring enable real-time insight, control, and continuous performance improvement.

05

Business-oriented pathway to electricity sales

Structured support from energy strategy to market participation, helping clients generate revenue from clean energy.

Project Delivery Model

1 Assess
Understand site conditions and energy objectives

2 Design
Define the optimal system concept

3 Integrate
Coordinate the equipment and control architecture

4 Connect
Prepare transformer and grid interconnection

5 Operate
Monitor, optimize, and stabilize performance

6 Sell
Support export and electricity sales strategy

TTFAM enables clients to implement a complete clean energy platform—from solar generation and battery storage to grid connection and electricity sales.

Battery Collaboration Partners

Project-based battery collaboration; supplier selection may vary by project.

Samsung SDI | LG Energy Solution