

Dynamic Group's 2026 Energy Management Plan

I. Energy Audit and Performance Opportunity Identification

This plan is centered on systematic inventory to comprehensively identify energy-saving hotspots in processes and factory operations.

- Comprehensive audit of core factories : Conduct comprehensive energy audits for Kunshan Factory, Huangshi Factory, and Thailand Factory.
- Management System Authentication Situation

Factory	System Name	Certification Body	Certificate Validity Period
Kunshan Factory	ISO 50001 : 2018	WIT Assessment	Certificate Validity : 2024.12.23 – 2027.12.15 Certificate No : 15/18En8914R10
Huangshi Factory	ISO 50001 : 2018	SGS Certification Co., Ltd.	Certificate Validity : 2025.01.20 – 2028.01.19 Certificate No : CN25/00000556
Thailand Factory	-	-	Independently promote energy management system, certification within two years.

- Significant Energy Use (SEU) Inventory : Focus on high-energy-consuming processes in PCB manufacturing, including plating lines, exposure machines, bonding machines, drilling machines, and central chilled water mainframe systems.
- Energy Consumption Baseline (EnB) Establishment : Use 2020 as the baseline year (The Thai factory uses 2025 as the baseline year) for energy consumption, estimating process energy efficiency through historical data.
- Waste Heat Recovery Assessment : Audit the potential for waste heat recovery and reuse in high-temperature bonding and chemical plating processes.

II. Quantitative Target Setting

- Annual energy saving rate: Energy intensity is reduced by 2% annually, with 2020 as the baseline (2025 as the baseline for the Thai plant); the target for reducing energy intensity in 2026 is 12% (2% for the Thai plant).
- Green Energy Usage Rate : Plan to achieve a green electricity and renewable energy usage rate of over 30% by the end of 2026.

III. Specific Measures to Reduce Energy Consumption Implement comprehensive Optimization for the processes and power equipment of the PCB production line.

- Replacement of Process Equipment : Prioritize the procurement of high-end HDI and mSAP manufacturing and drilling equipment that meet energy-saving certification.
- Upgrade of Factory Power Systems : Fully install variable frequency drives, add automatic shutdown devices, and replace old large chilled water mainframes and air compressors.

- **Improvement of Plating Solutions and Technology** : Actively expand the introduction of pulse plating lines and new energy-saving solutions, reducing through-hole filling energy consumption while maintaining the quality of blind and through holes.
- **Optimization of Production Line Standby Management** : Optimize scheduling for peak and off-peak seasons and the order tail batch material process to reduce standby energy consumption of production line equipment during non-production periods.

IV. **Progress Assessment of Energy Consumption Reduction**

Establish a digital and dynamic management mechanism to ensure that energy-saving results can be tracked.

- **Internal Carbon Pricing (ICP) Management** : Introduce Shadow Pricing system, incorporating carbon emissions and energy consumption costs into financial assessments for new processes and new plant constructions.
- **Smart Energy Monitoring System** : Deploy AI smart meters and automated energy monitoring to generate real-time energy consumption statistics and consumption analysis reports.
- **Product Carbon Footprint (PCF) Linkage** : Combine ISO 14067 inventory to directly convert energy consumption progress into product carbon footprint reduction performance.
- **Monthly Management Review Meetings** : Monthly meetings convened by the Chairman with plant managers and relevant personnel to review the achievement rates of energy performance indicators.

V. **Clean and Green Energy Use** :

Accelerate the transformation of energy structure, reducing dependence on fossil fuel grids.

- **Self-built Rooftop Solar** : Continue to expand rooftop solar power generation systems, increasing the proportion of self-generated green electricity.
- **Green Power Procurement** : Stably purchase clean electricity such as solar and wind power, ensuring annual green power procurement targets are met.
- **Energy Storage System Integration** : Introduce energy storage solutions at major production bases to peak shaving and valley filling, enhancing plant resilience to external grid fluctuations.

VI. **Innovations and R&D Investment to Reduce Energy Consumption** : Eliminate energy waste from the source through process innovation.

- **AI and High-Speed Transmission PCB Process R&D** : Invest in R&D for advanced optical module PCBs and low-loss materials for high-speed transmission applications, shortening heating time in lamination and baking processes.
- **High Heat Dissipation Products** : For heat dissipation applications with thick copper of 3oz or more, effectively provide design suggestions and development for customer heat dissipation needs; evaluate high thermal conductivity materials with thermal conductivity coefficients above 2.0W/mk; complete internal certification for

thermal paste (HSP); establish a complete process technology flow based on different customer concerns regarding heat dissipation technology needs.

- **Introduction of Halogen-Free and Eco-Friendly Materials** : Collaborate with the supply chain to develop high-proportion halogen-free substrates, PP (polypropylene), and inks, reducing temperature control energy consumption during material processing.
- **Supply Chain Green Partnership Program** : Invest in developing a comprehensive supply chain carbon management and energy consumption tracking platform to assist upstream and downstream manufacturers in joint carbon reduction R&D.

VII. **Employee Energy Efficiency Training and Awareness Enhancement** :

Internalize energy saving and carbon reduction into corporate culture, enhancing overall participation.

- **Mandatory Courses for New and Existing Employees** : Regularly hold ISO 50001 clause and energy-saving advocacy training annually, popularizing energy-saving concepts in daily life and operations.
- **Professional Training for Energy-Saving Machine Operations** : Provide specialized technical training for production line engineers and technicians on "Precision Control of Temperature Control Equipment" and "Air Compression System Leak Detection and Repair."
- **Daily Energy Saving Proposal Competition for All Employees** : Promote "Energy Consumption Control Measures," encouraging employees to propose energy-saving innovative ideas for the office or production line, with substantial rewards for those whose proposals are evaluated and adopted.