

Green Competitiveness ESG Digital Transformation 5G Smart Manufacturing AI-Enhanced Energy Efficiency Technology Platform

Focusing on developing and enhancing green competitiveness, we aim to provide three key ESG digital transformation solutions for traditional manufacturing industries: a carbon inventory system, machine predictive maintenance, and electrical safety monitoring.

By integrating Taiwan's 5G networking industry, IoT-related sectors, and information technology companies, we are collaboratively developing a 5G smart manufacturing AI-enhanced energy efficiency platform.

Using real-world case studies, we aim to initiate innovative vertical application model cases for 5G and AIoT industrial safety. With an open and collaborative technology platform, this initiative seeks to establish a representative example of 5G and AIoT industry integration and clustering in Taiwan.

Green Competitiveness – Three Major ESG Digital Transformations: Carbon Inventory System, Machine Predictive Maintenance, and Electrical Safety Monitoring



- Develop ESG Initiatives Toward a Net-Zero Emissions Policy
- Reduce Energy Waste and Drive Carbon Reduction

Equipment Early Warning System



Smart Energy-Saving System



Energy Consumption Analysis System



Abnormally Monitoring



Predictive Maintenance

Equipment Diagnostics

This project develops



Carbon Inventory Management



Temperature Monitoring

Electrical Safety