

iFactory Solution Ready Packages 2.0

ADVANTECH
WISE-PaaS
IoT Edge Intelligence

iFactory

Overall Equipment Effectiveness (OEE)

- Real-time production and changeover efficiency management
- Machine availability and performance monitoring

Preventive Maintenance

- Monitor and predict equipment failure to minimize downtime
- Schedule alerts for machine maintenance

Factory Energy Management

- Energy consumption overview and KPI management
- Energy efficiency and cost analysis

AI-Enabled Vision

- Cloud-enabled vision application for quality inspection
- AI framework with machine learning

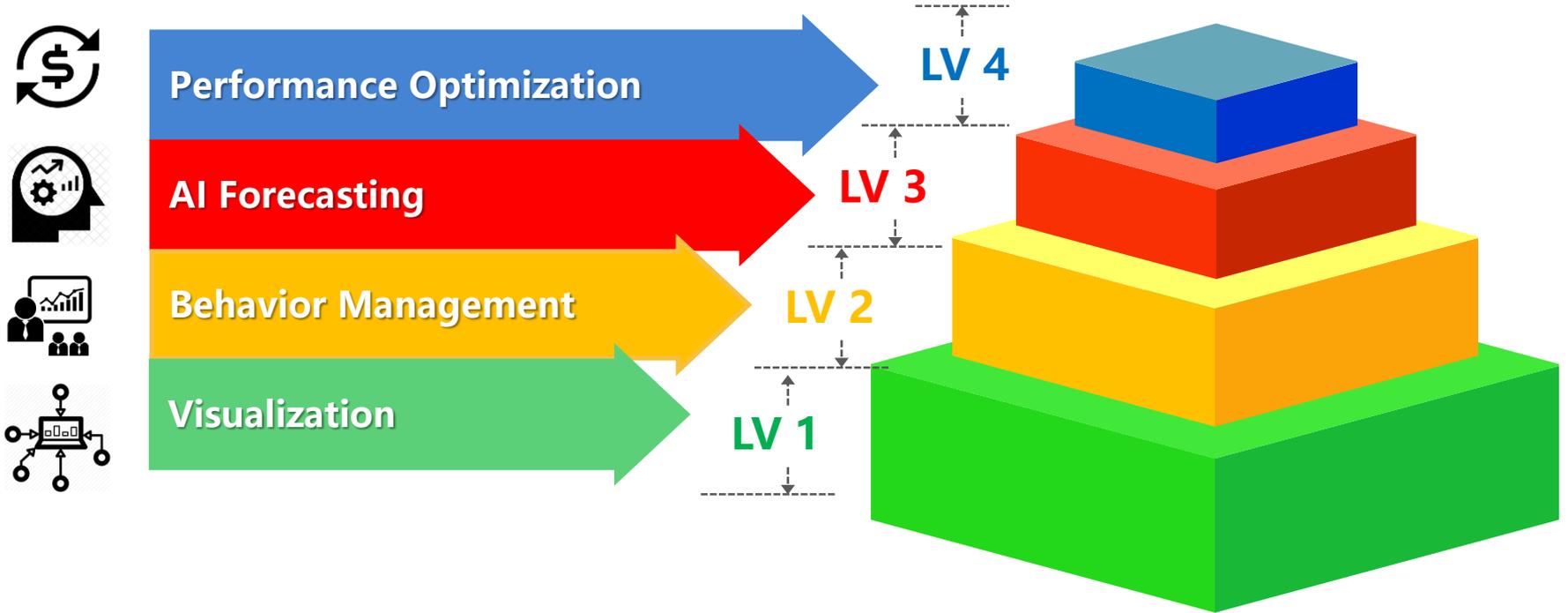
Manufacturing Execution System (MES)

- Manufacturing operations visibility and optimization management
- Shop floor management with production traceability

Industry 4.0 Situation Room

- Dashboard visualization for real-time management
- Total factory operations management

4 Progress for Factory Energy Saving



FEMS Factory Energy Management Solution



Payback



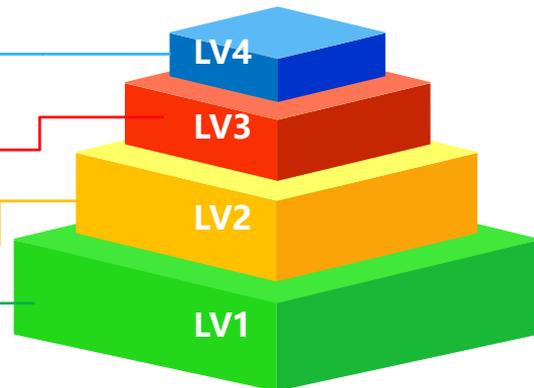
AI Tech



Behavior



Dashboard



Organization



LV4 ROI Evaluation

LV3 Demand forecasting

LV2 Target Setting

LV1 Distribute cost

Production



LV4 Efficient process

LV3 Cost forecasting

LV2 Efficiency tracking

LV1 Cost per-unite

Facility



LV4 ROI Evaluation

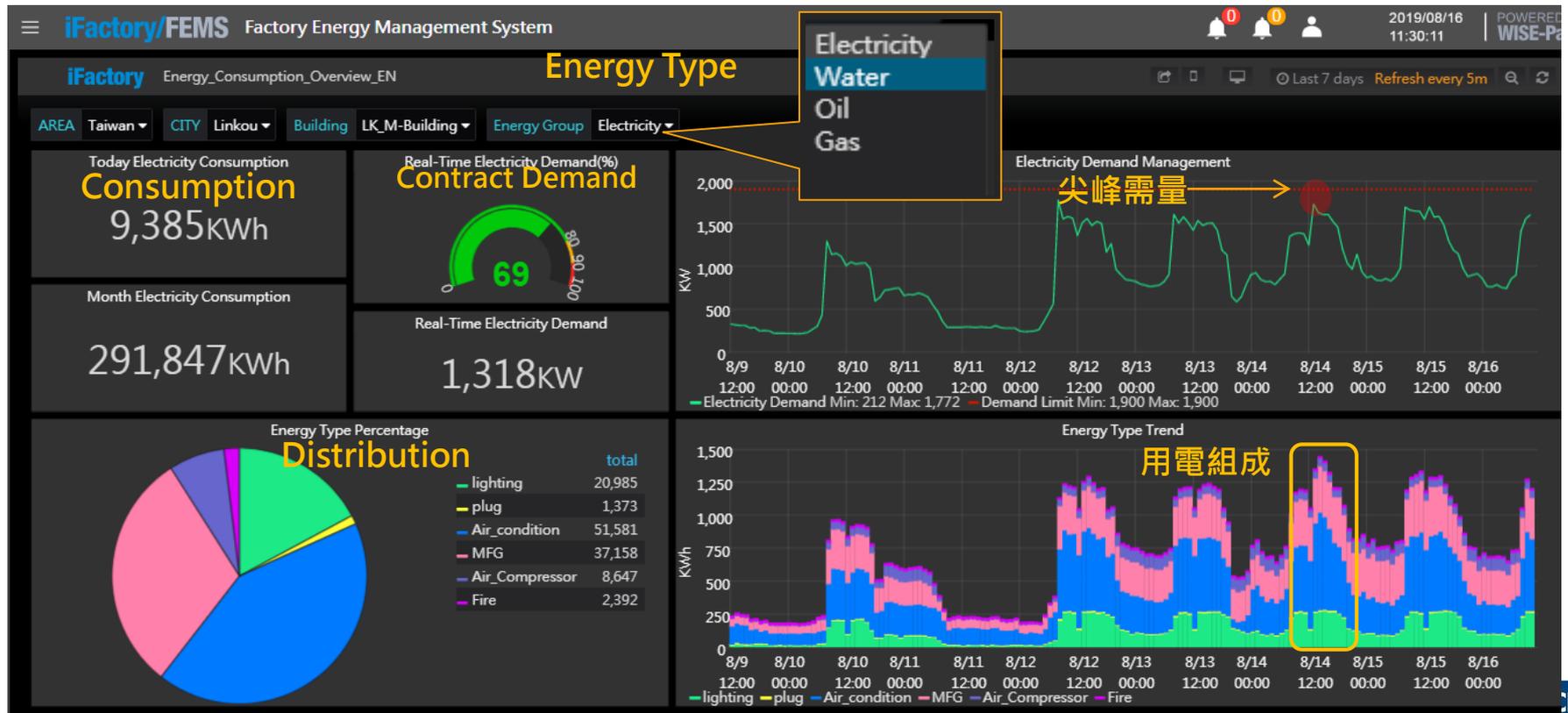
LV3 Downtime forecasting

LV2 Efficiency tracking

LV1 Performance

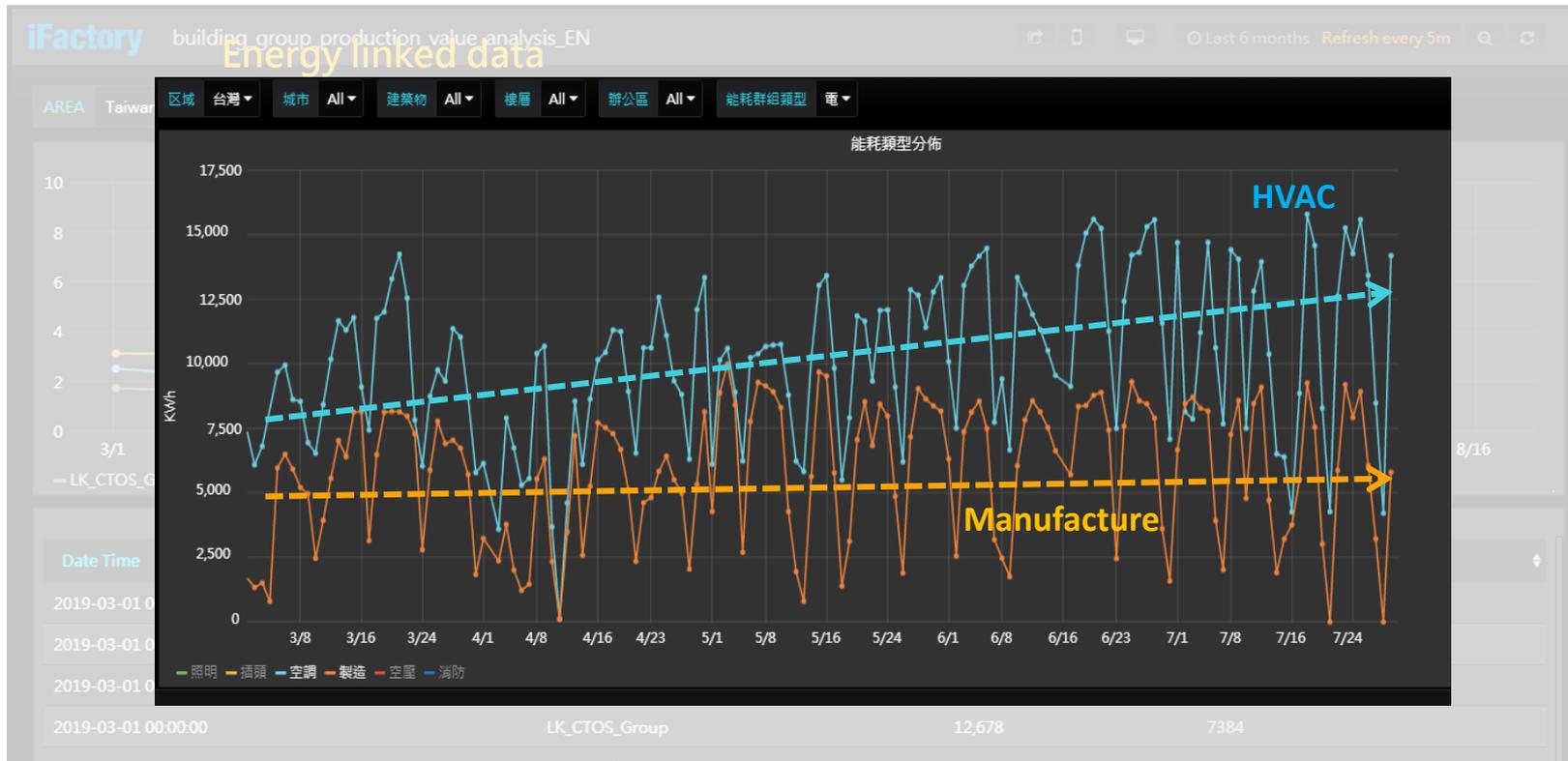
FEMS SRP - Energy Consumption Overview

Energy overview, one page to describe whole picture of factory energy, provides quick selected area to show various type of energy , real-time demand and breakdown consumption.



FEMS SRP - Production Cost Calculation per Unit

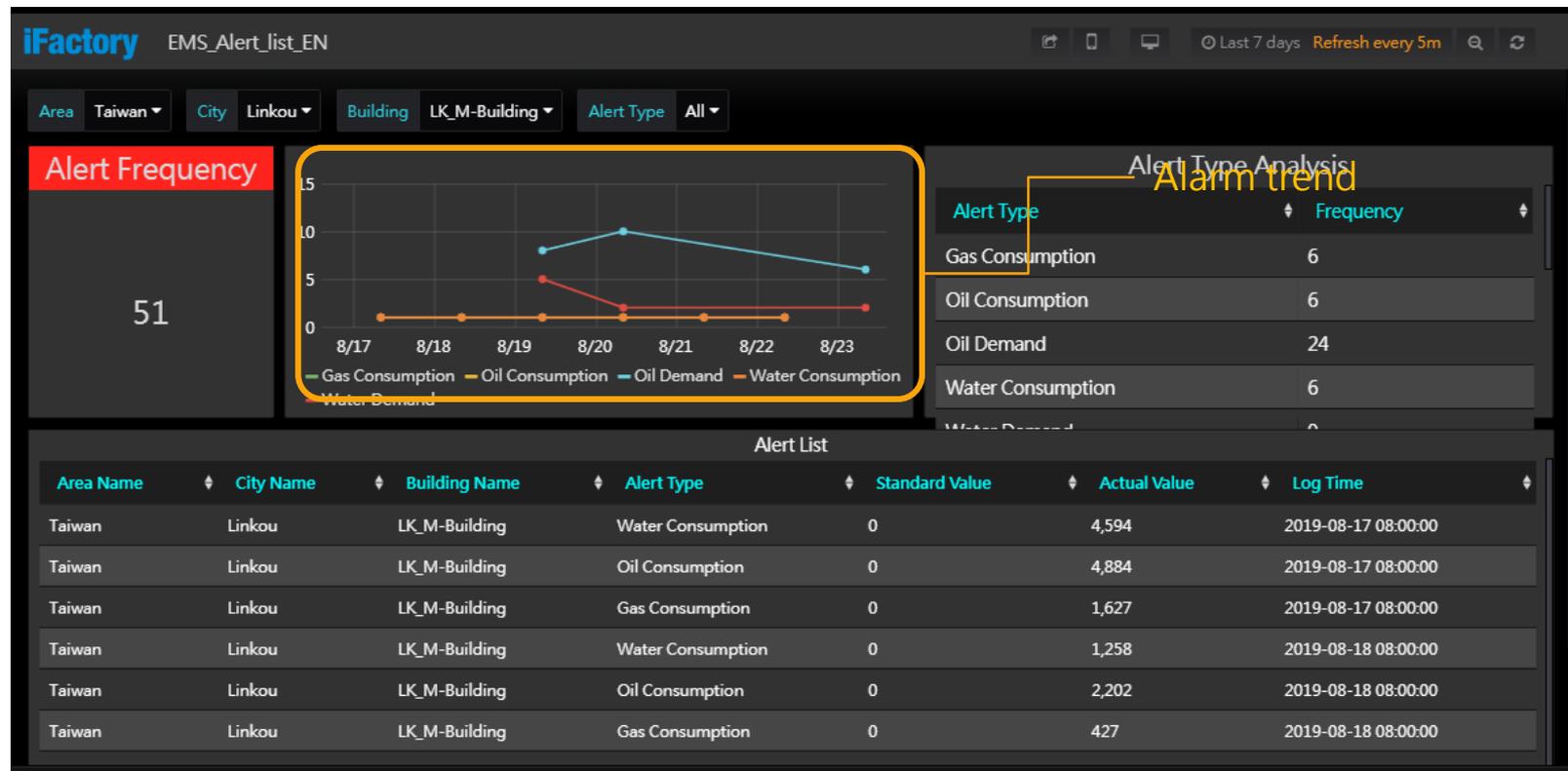
Per unit cost allows users get the energy ratio of value/yield/bill... sort of energy related data to review how the production efficiency is online.



FEMS SRP – Alarm analytics

Factory alarm analytics

This dashboard help user check alarm record by Type/Times/Frequency/Risk. Facility maintain staff can capture frequent issue and dig out the root cause.



FEMS SRP - Device Monitoring

Device Monitoring by FEMS can easily integrate multi-type sensors or PLC. Real-time monitor process data from machine, supported live notification for troubleshooting.

machine demo

real-time monitor

DevID TM-01	Model TM	Pressure 71 MN
DevName TM-01	Temp-1 67 ° C	Temp-2 81 ° C
DevDesc Type : TMC0031A	Current 31 A	Power 62 kW
	Freq 120 S	Flow rate 41 m/s



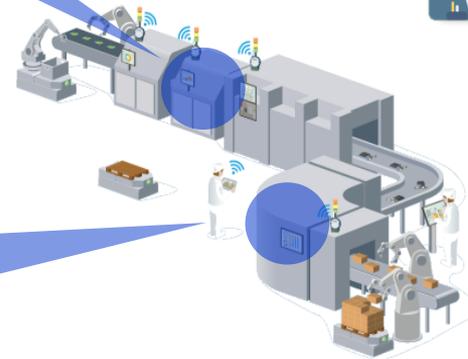
machine demo

real-time monitor

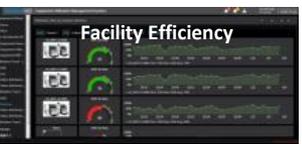
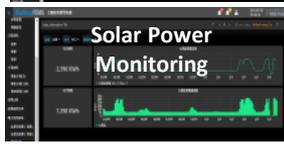
DevID FM-04	Model FM	Pressure 61 MN
DevName FM-04	Temp-1 39 ° C	Temp-2 79 ° C
DevDesc Type : NXV1680A	Current 15 A	Power 81 kW
	Freq 10 S	Flow rate 37 m/s



Notification

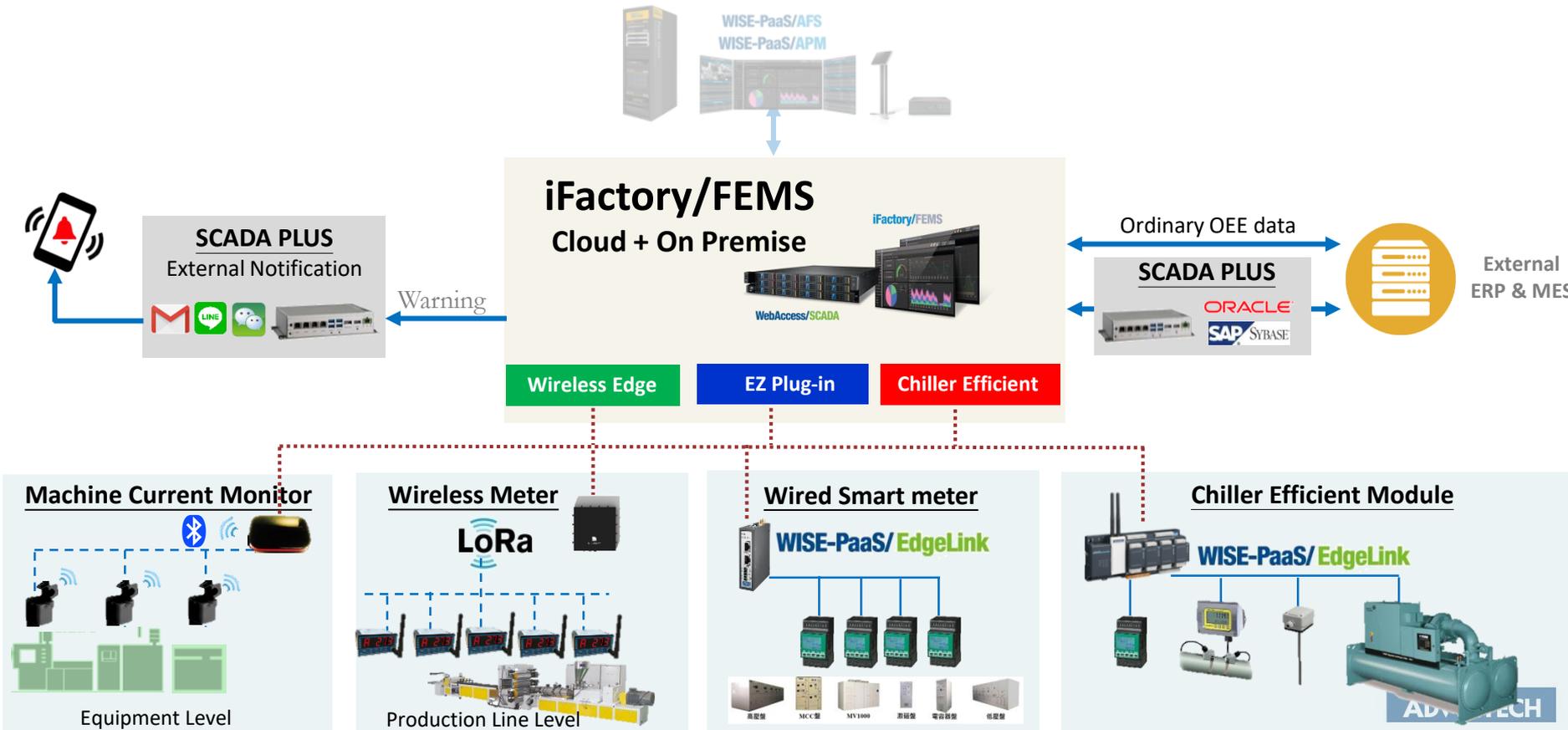


Total Dashboard



FEMS SRP with Multiple Edge

For Machine/Equipment/Facility/Wire& Wireless meters



FEMS SRP Server

Lite Server



- Up to **200** Edge devices linkage
- SCADA **5000** tags linkage
- (P/N:SRP-IFS420-M77F01A + 32OTLFEM0001A0)

Enterprise Server



- Up to **2000** Edge devices linkage
- **Unlimited** SCADA tags linkage
- (P/N:SRP-IFS420-M82F01A + 32OTLFEM0002A0)

Cloud Server

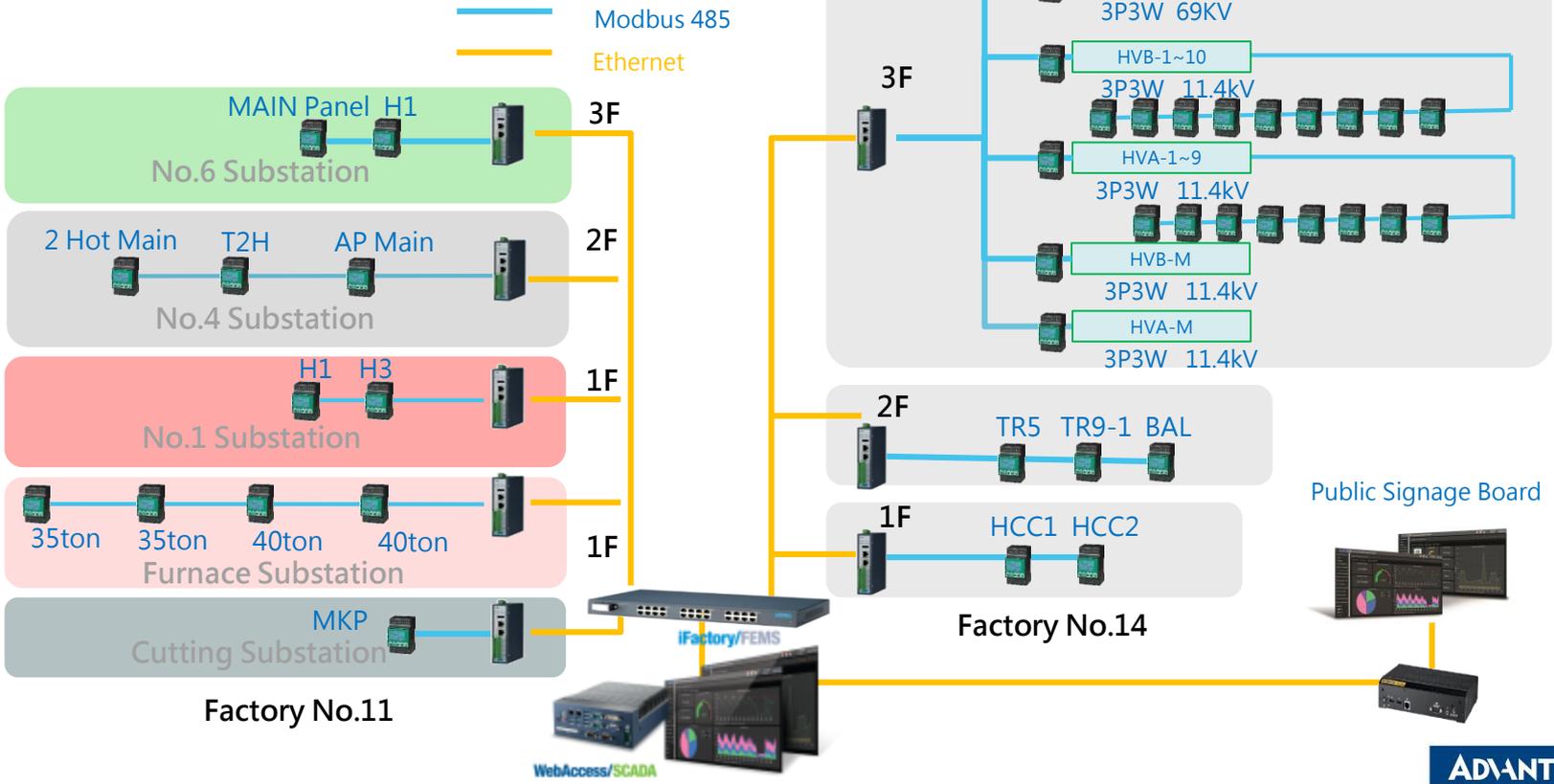


- Support **100** Edge devices linkage(Entry Plan)
- (P/N:9803WPEM01)

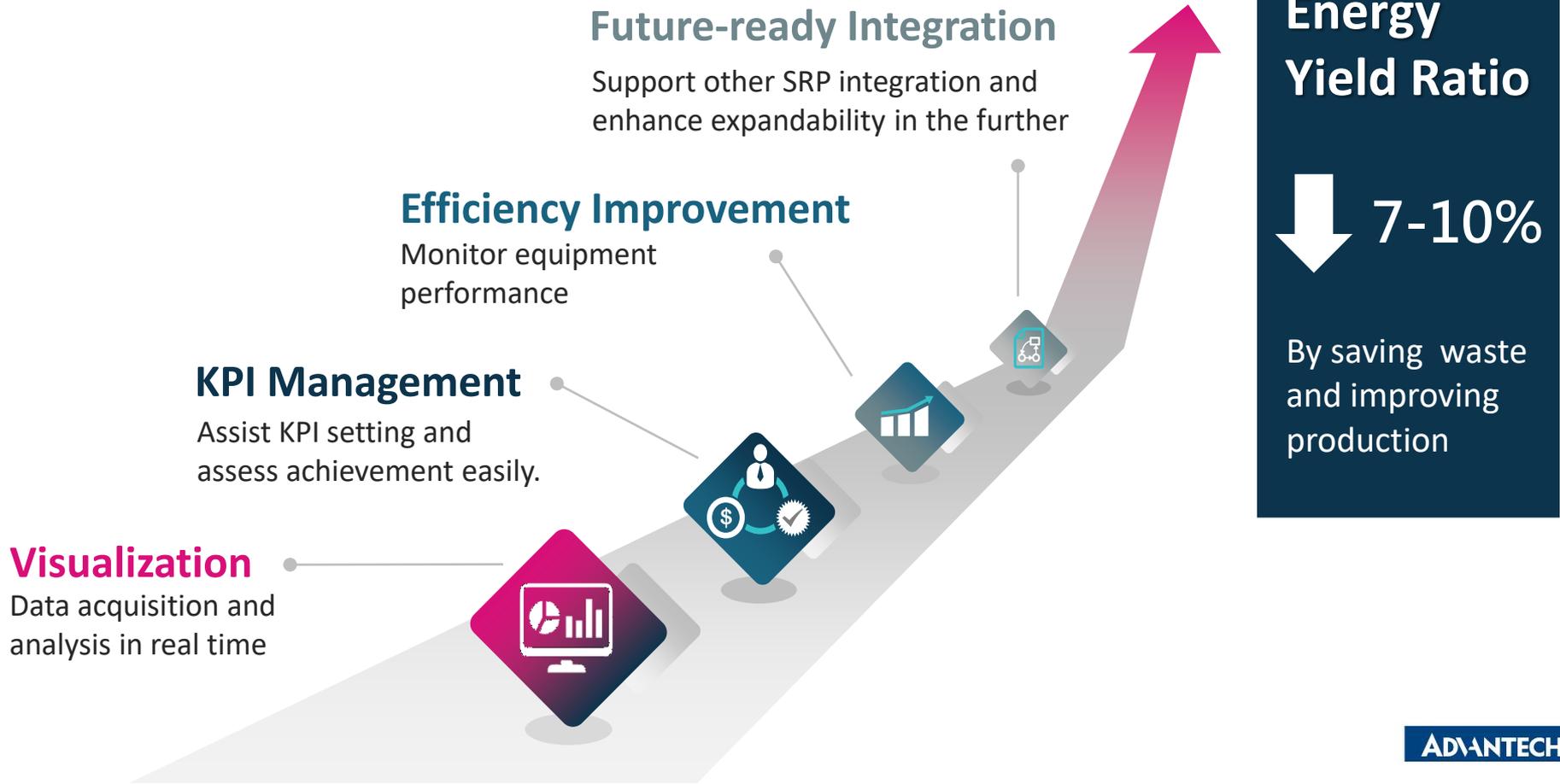


Wired Case for FEMS:

In a electronic assembly manufacturer



Route to Intelligent Factory



Tech Training & AE support

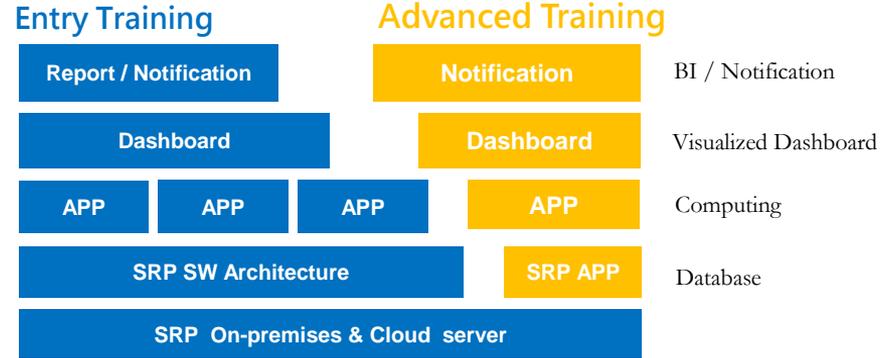
Stage1st : Entry Level training

Edge to Computing server

Deployment & customized by standard tool

Stage 2nd : Advanced Level training

DB application, Micro-service developing ,
Dashboard SQL programming.

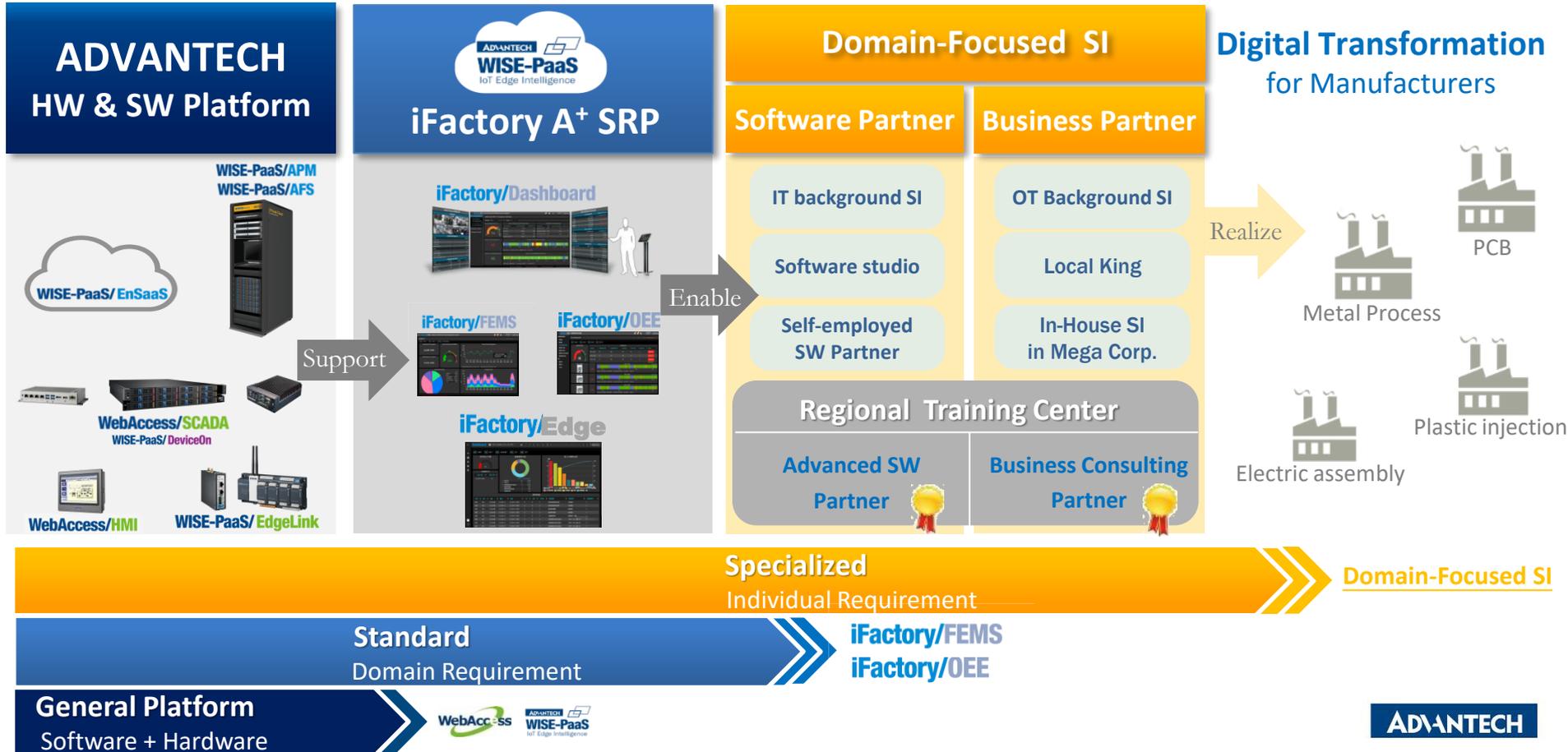


iFactory SRP Apply Engineer Team (G. China + Japan + ASEAN)

iFactory SRP	Great China	Japan	Malaysia	Singapore	Thailand	Vietnam
Team member	Eden.Sun	Alger.Tan	Eden.Sun	Eden.Sun	William1.Lin	Alger.Tan

Value Chain of iFactory Business

iFactory 生態價值鏈



*Go Together,
We Go Far and Grow Big*

