# Machine365.Ai

Your machine, our priority 365 days

**Integrated machinery monitoring solution for implementing ESG**



## ESG 🪶

Carbon emission of the product

Electricity monitoring

Energy consumption by a product

## Electricity cost down 💡

Analysis of electricity

Cost estimation

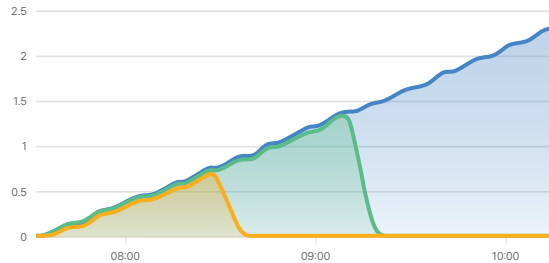Data-Driven decision making

## Alarm 🔔

Machine abnormal

Producing status

Abnormal analysis by AI
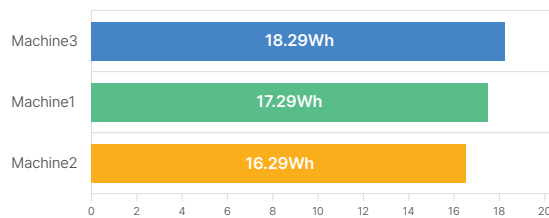
# Electricity monitoring

## Power consumption

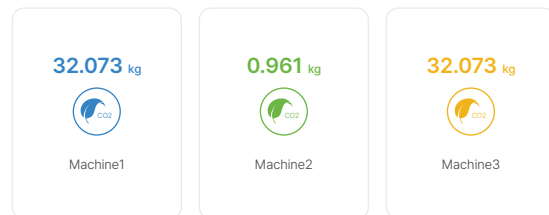Monitor real time power consumption for each machine and check the monthly cumulative power usage

## Electricity monitoring

Power analysis
Check the energy consumption per product Compare it with other machine

| | |
|---|---|
| Machine3 | 18.29Wh |
| Machine1 | 17.29Wh |
| Machine2 | 16.29Wh |

## Carbon dioxide emissions

Supporting climate change efforts, the system automatically calculates and provides data to measure and reduce carbon emissions.

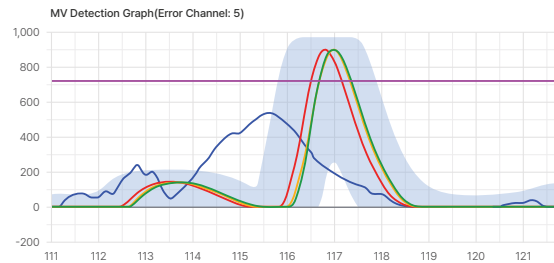| 32.073 kg | 0.961 kg | 32.073 kg |
|---|---|---|
| CO2 | CO2 | CO2 |
| Machine1 | Machine2 | Machine3 |

## Quality of electricity

It monitors real-time voltage, current, reactive power, and power factor, detecting and notifying of any abnormal patterns.
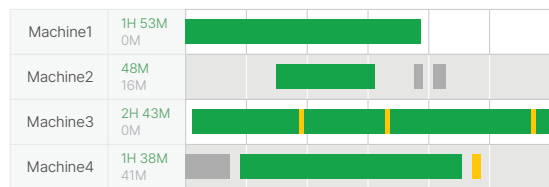
# Machine monitoring and anomaly detection

## Anomaly detection (Quality monitoring)

· Error detection and the reason
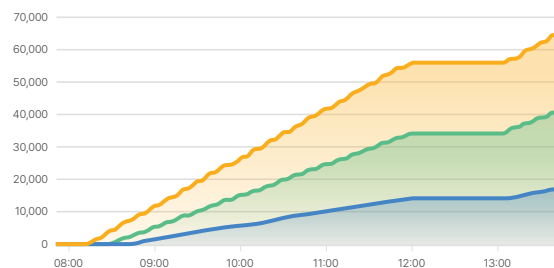· Detected time
· Trend of forming force

MV Detection Graph(Error Channel: 5)

## Operational status monitoring

· Machine Go / Stop
· Running / Stop time

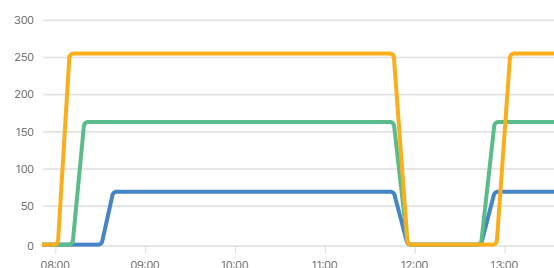| | | |
|---|---|---|
| Machine1 | 1H 53M 0M | |
| Machine2 | 48M 16M | |
| Machine3 | 2H 43M 0M | |
| Machine4 | 1H 38M 41M | |

## Production quantity monitoring

· Real time produced quantity
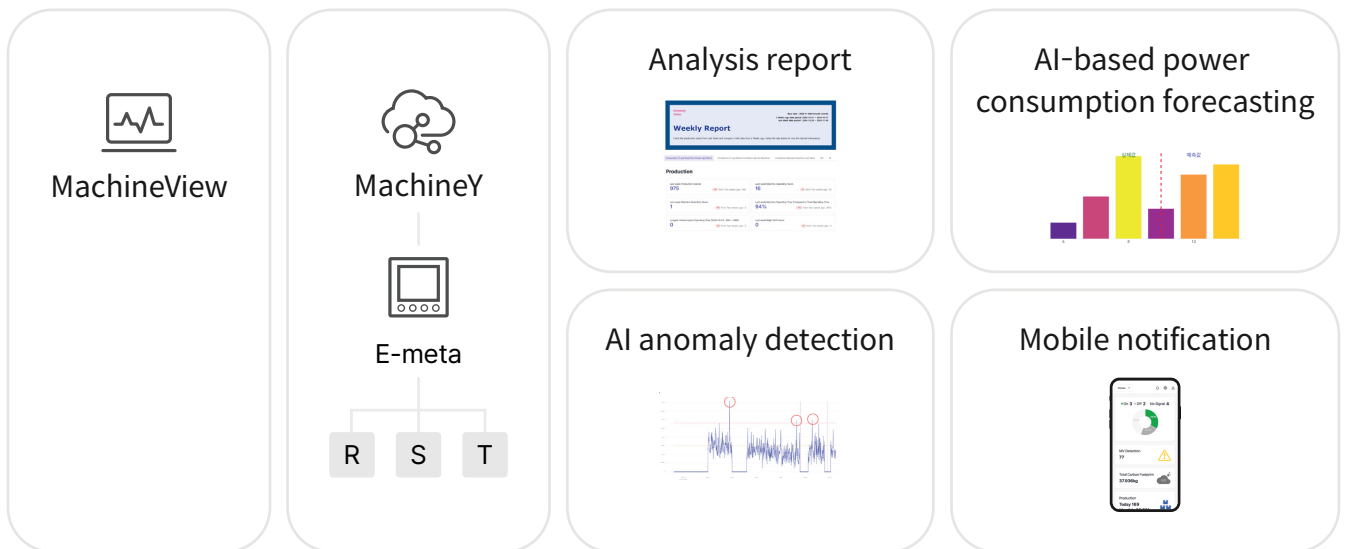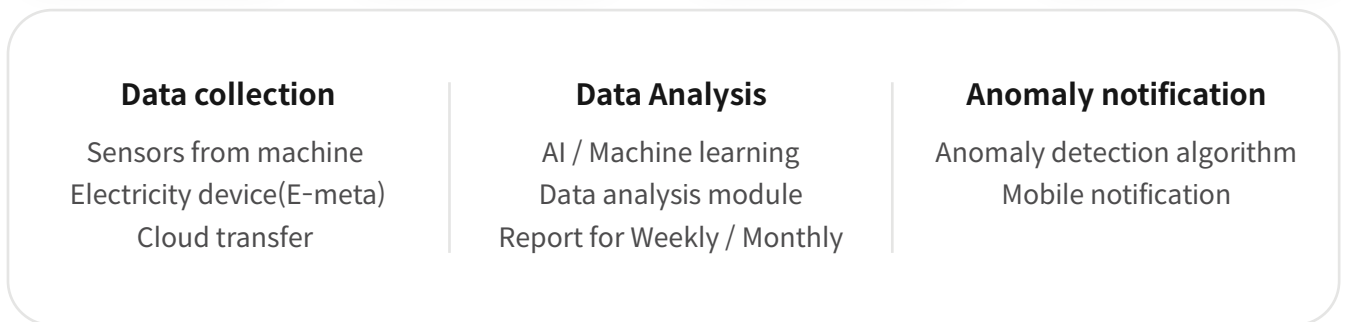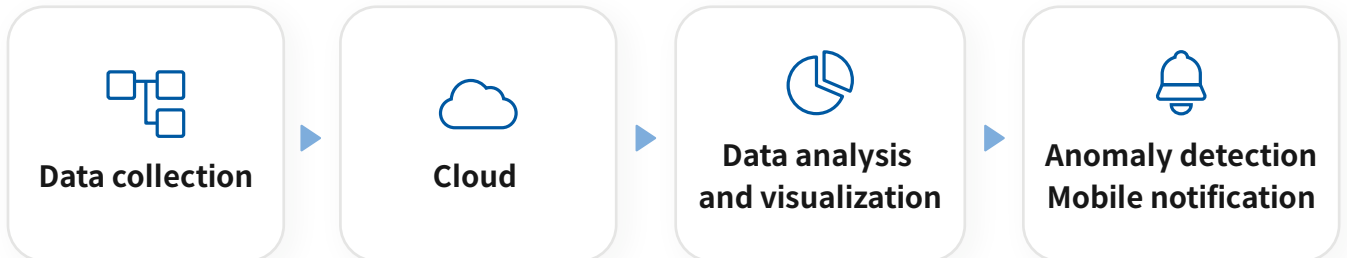· Total quantity(Accumulated)

## Operational speed monitoring

· Trend of speed
· SPM(Stroke per minute)
· Calculate electricity consumption with average SPM

# Real time data collection and Error detection

## Powered by AI

**Data collection** ▶ **Cloud** ▶ **Data analysis and visualization** ▶ **Anomaly detection Mobile notification**

### Data collection
Sensors from machine
Electricity device(E-meta)
Cloud transfer

### Data Analysis
AI / Machine learning
Data analysis module
Report for Weekly / Monthly

### Anomaly notification
Anomaly detection algorithm
Mobile notification

MachineView

MachineY

E-meta

R  S  T

Analysis report

AI-based power consumption forecasting

AI anomaly detection

Mobile notification

**Try now, Explore Machine365.Ai**
https://machine365.ai

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