

# Navigating Real-time Energy Analytics

CATALYST 





## Session Agenda

- The Next Generation of EnergyCAP
- Capture, Monitor, Save
- Value of Interval Data
- Overview of Wattics
- Product demonstration
- Special Offer

# The Next Generation of EnergyCAP

Get instant access to validated, actionable data you can trust to better manage resource consumption, reduce your carbon footprint, reach net-zero, and drive massive savings.

**ENERGYCAP®**

## Portfolio-level energy and sustainability reporting

*Manage and see it all.*

Get accurate and reliable energy and utility data across your entire portfolio and streamline energy and accounting workflows.

### Customer Data Type:

Utilities/Bill/Resources

### Persona:

Finance/energy



## Real-time energy and sustainability analytics

*Dive deep. Respond quickly.*

Dive deep into real-time performance of assets, devices, and sensors. Make quick, data-driven decisions for high-performance, net-zero buildings.

### Customer Data Type:

Time-Series/Interval Energy

### Persona:

Energy/facilities

**CARBON<sub>2</sub>HUB®**  
An EnergyCAP Solution

## Financial-grade greenhouse gas accounting

*Target and track emissions.*

An advanced, holistic view of financial-grade emissions data across your business with automatically applied factors to meet your ESG reporting needs.

### Customer Data Type:

GHG activities

### Persona:

Sustainability

**CAPture Services:** Bill processing and managed services

# Wattics // Real-time energy and sustainability analytics



## Capture

Collect and connect data from BAS, utilities, or submeters.

Hierarchy

Groups

▼ Science Center

Air quality

Air handler

Boiler

Water

Chiller

Production output (generic)

**Pump**

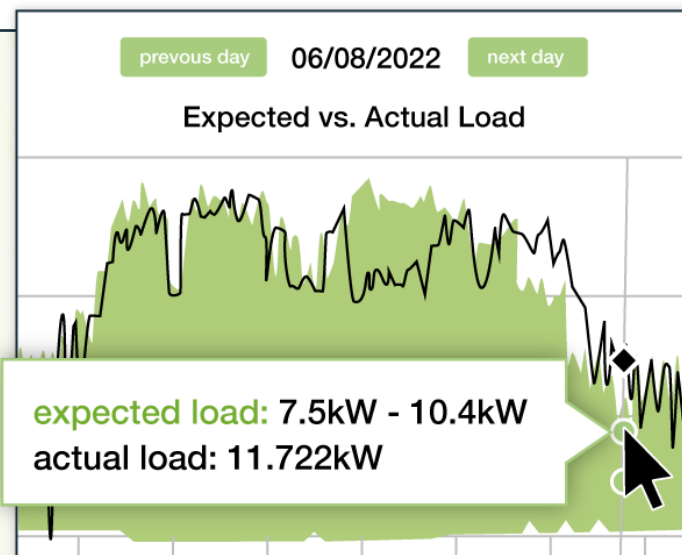
Solar

EV charger

Daily visitors

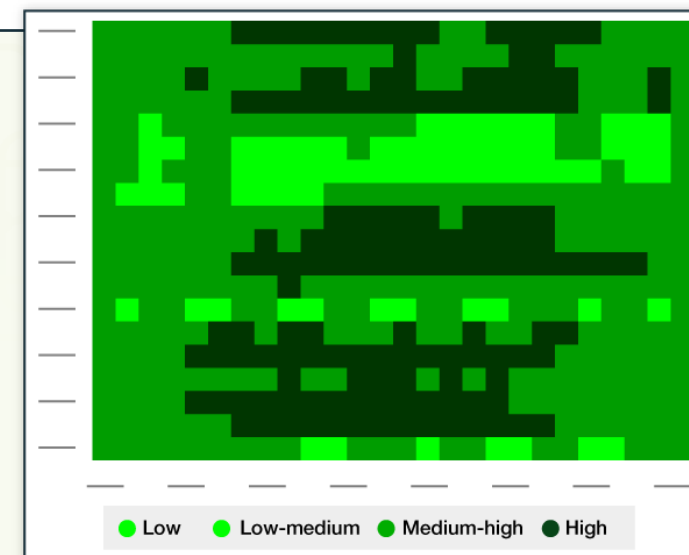
## Monitor

Monitor data quality, detect outliers, and receive alerts, and alarms.



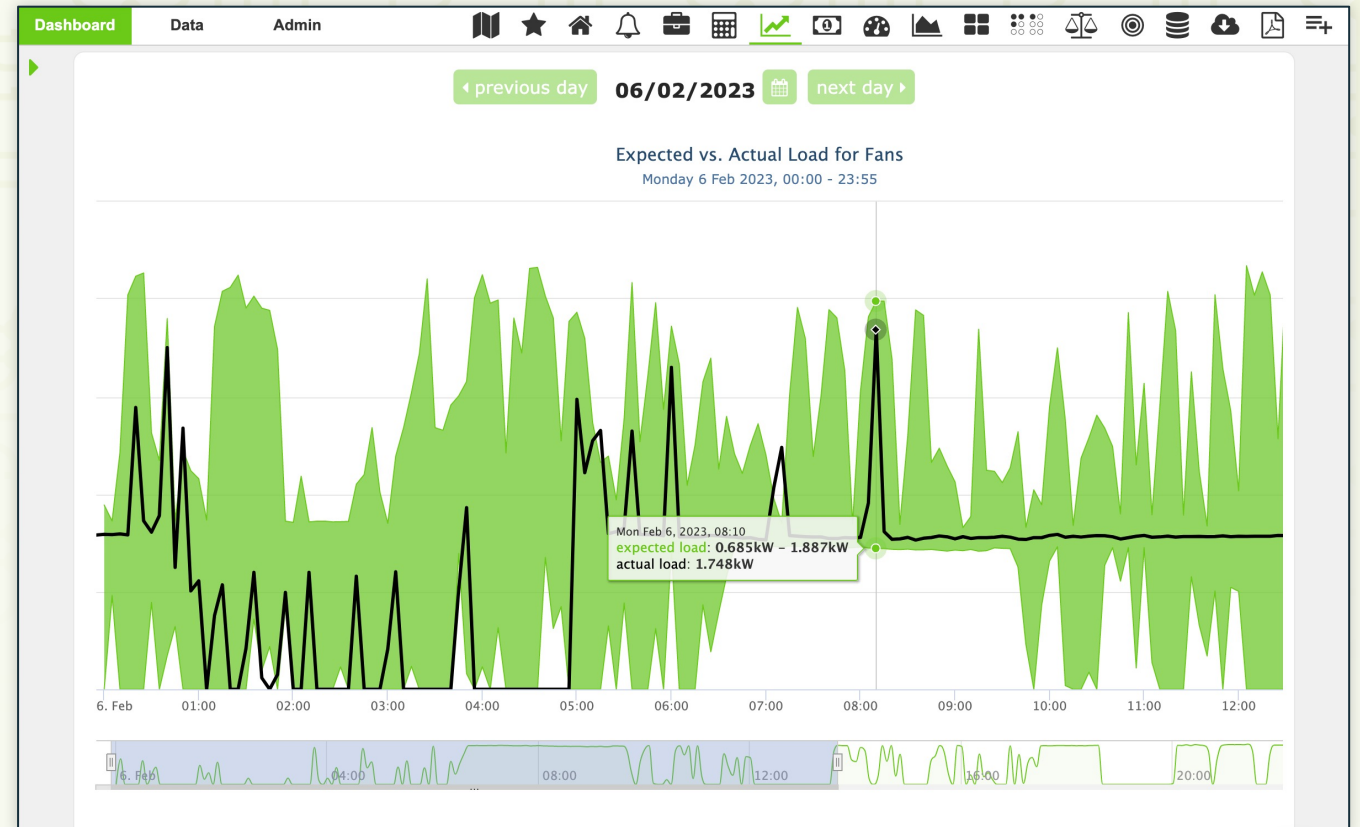
## Save

Optimize schedules, manage demand, and calculate potential savings.



# Value of Interval Data

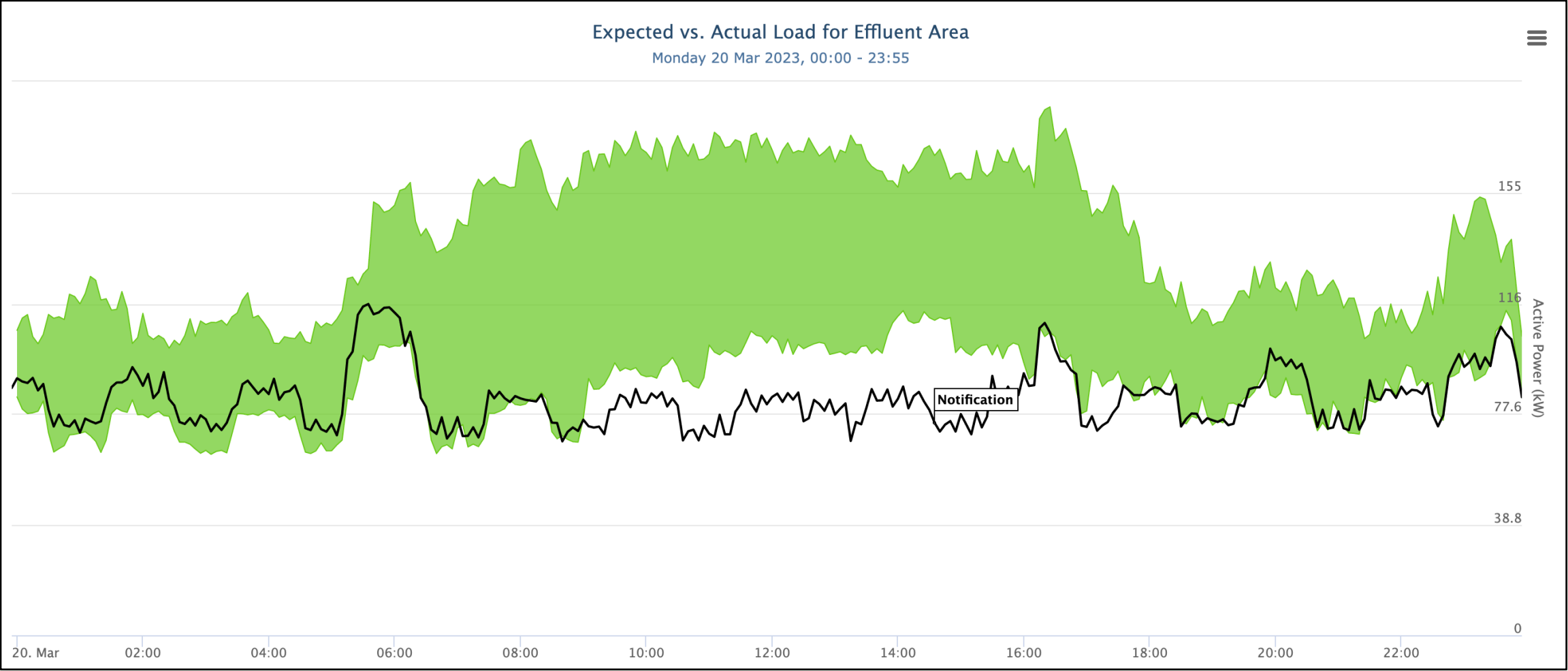
- Save you money by quickly spotting facility, scheduling, and equipment management problems.
- It's your eyes and ears, working 24/7, monitoring energy usage.
- Help you achieve net zero by optimizing your building performance.
- Reduce utility bill cost by better demand management.



## Alerts on Near Real-Time Data

- On active power (kW) to keep demand under control
- On currents (A) to prevent overheatings
- On voltages (V) to ensure power quality
- On consumption and energy cost over a certain time period
- On KPIs, EUI, normalised values
- Smart Sentinel alerts

# Alerts on Near Real-Time Data





## **Demand Analysis and Optimization**

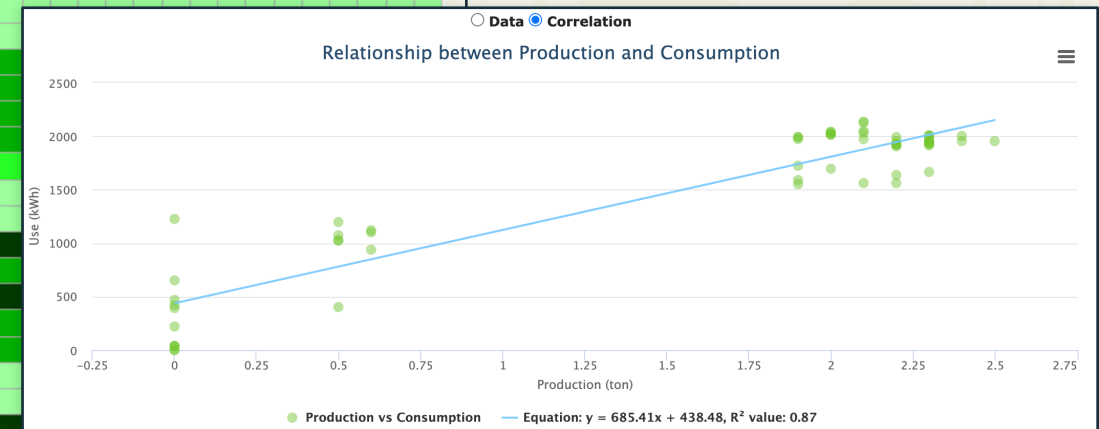
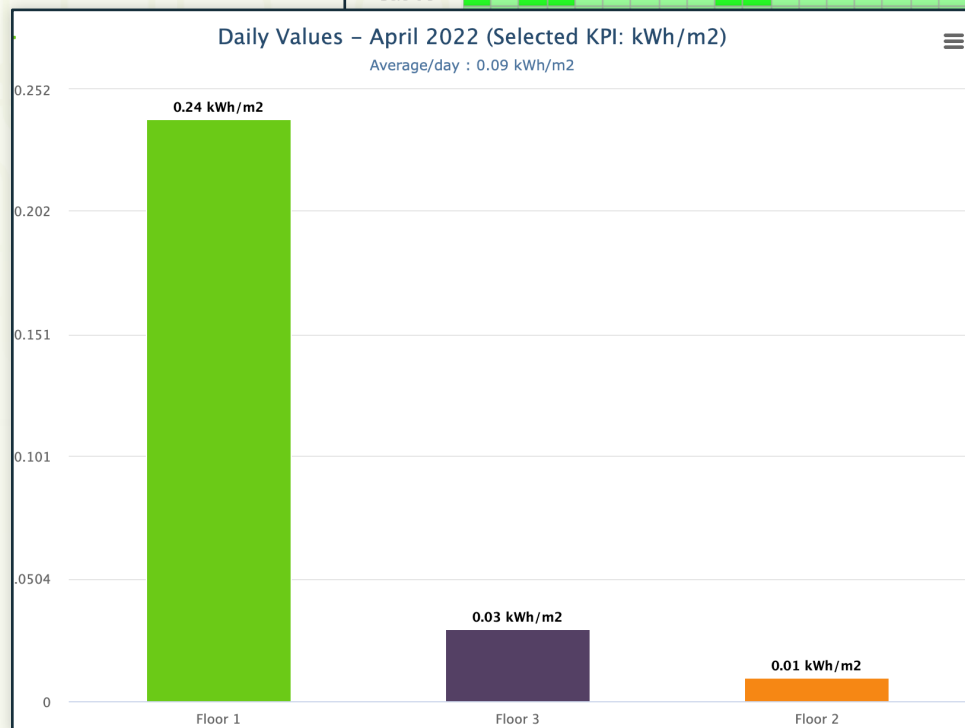
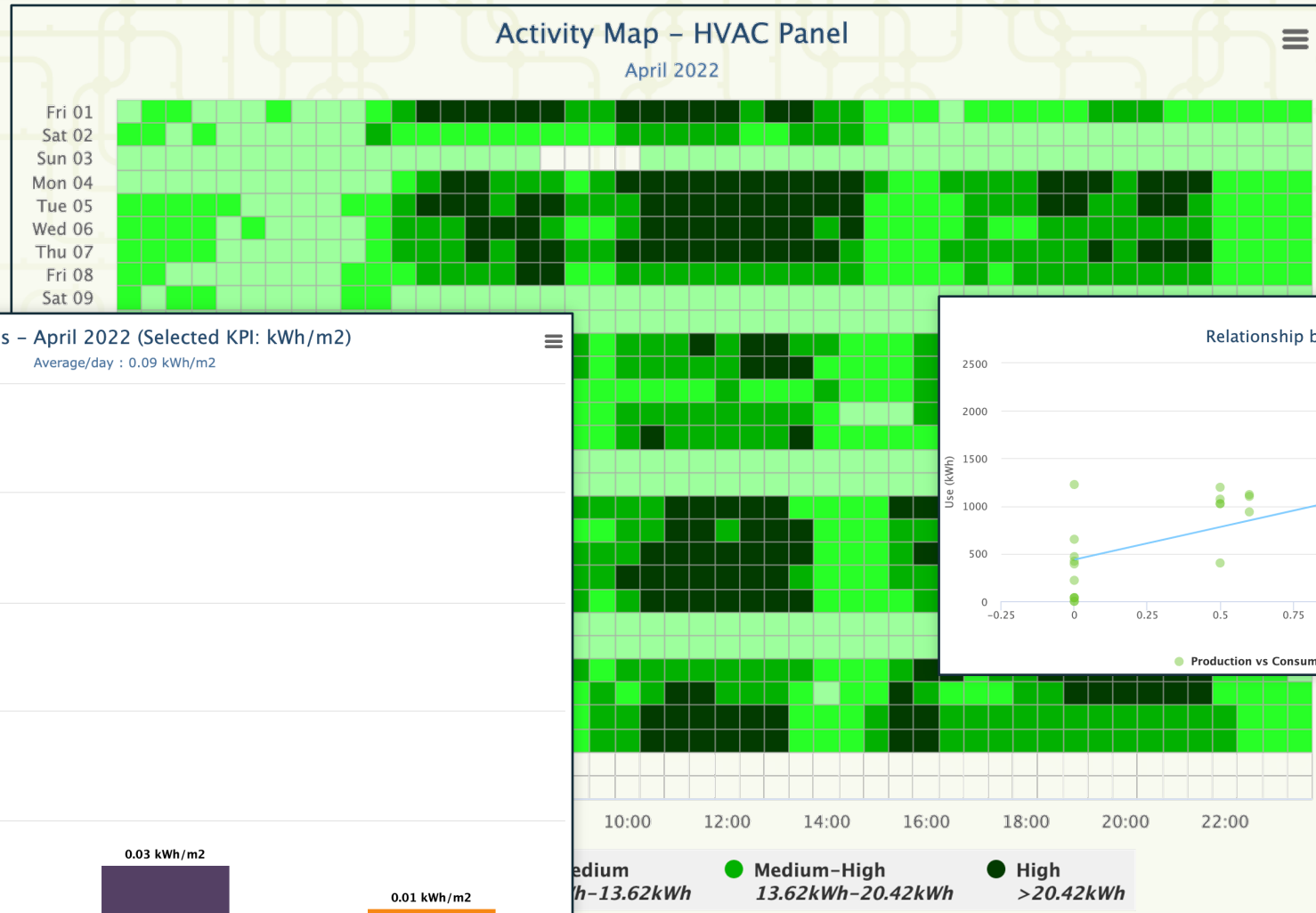
- Monitor active, reactive and apparent power to ensure an optimal use of energy
- Reduce the overall peak demand
- Figure out when peaks happen for different users to make sure they're not simultaneous
- Use energy generation/storage options to trim peaks



## Cross Correlation of Different Metrics

- Ensure that consumption is in line with working hours
- Assess trends of EUI metrics like consumption per m<sup>2</sup>, occupancy or production output
- Ensure that energy consumption is in correlation with production data
- Create models to predict future energy usage

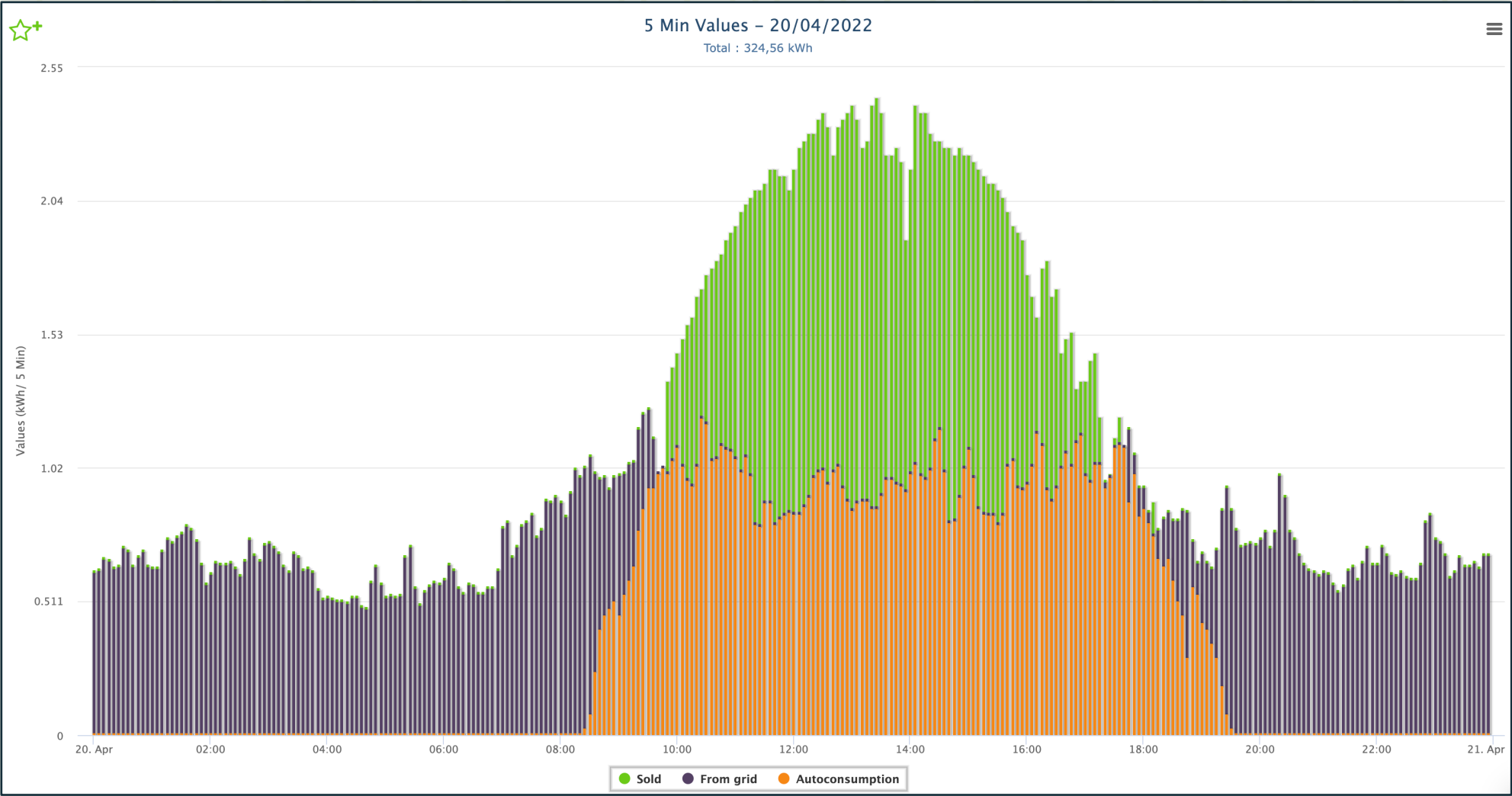
# Cross Correlation of Different Metrics



## **(Renewable) Energy Generation**

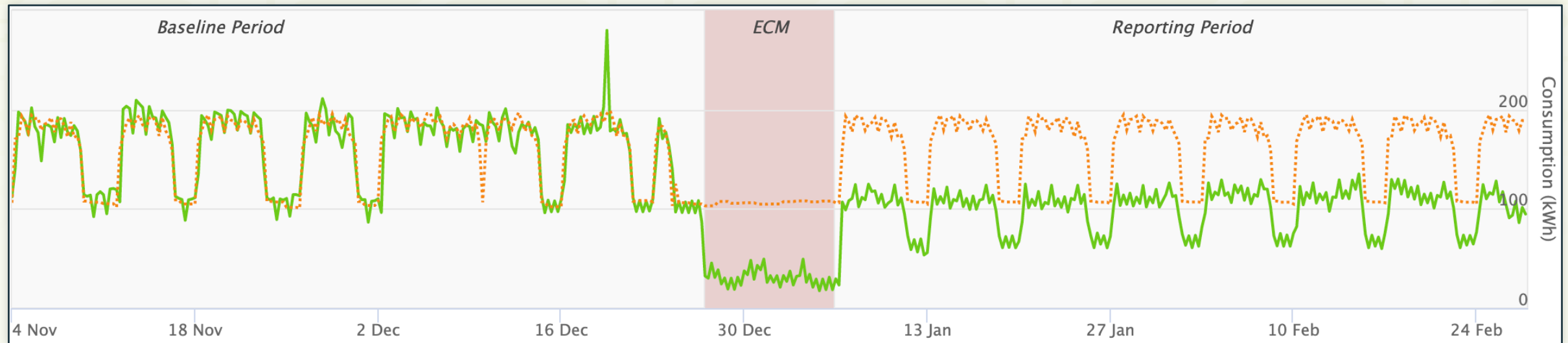
- Maximize the cost benefits of energy generation
- Optimize process to cut demand peaks
- Design your energy generation system based on your actual needs
- Real-time analysis of performances

# (Renewable) Energy Generation



# Performance Analysis

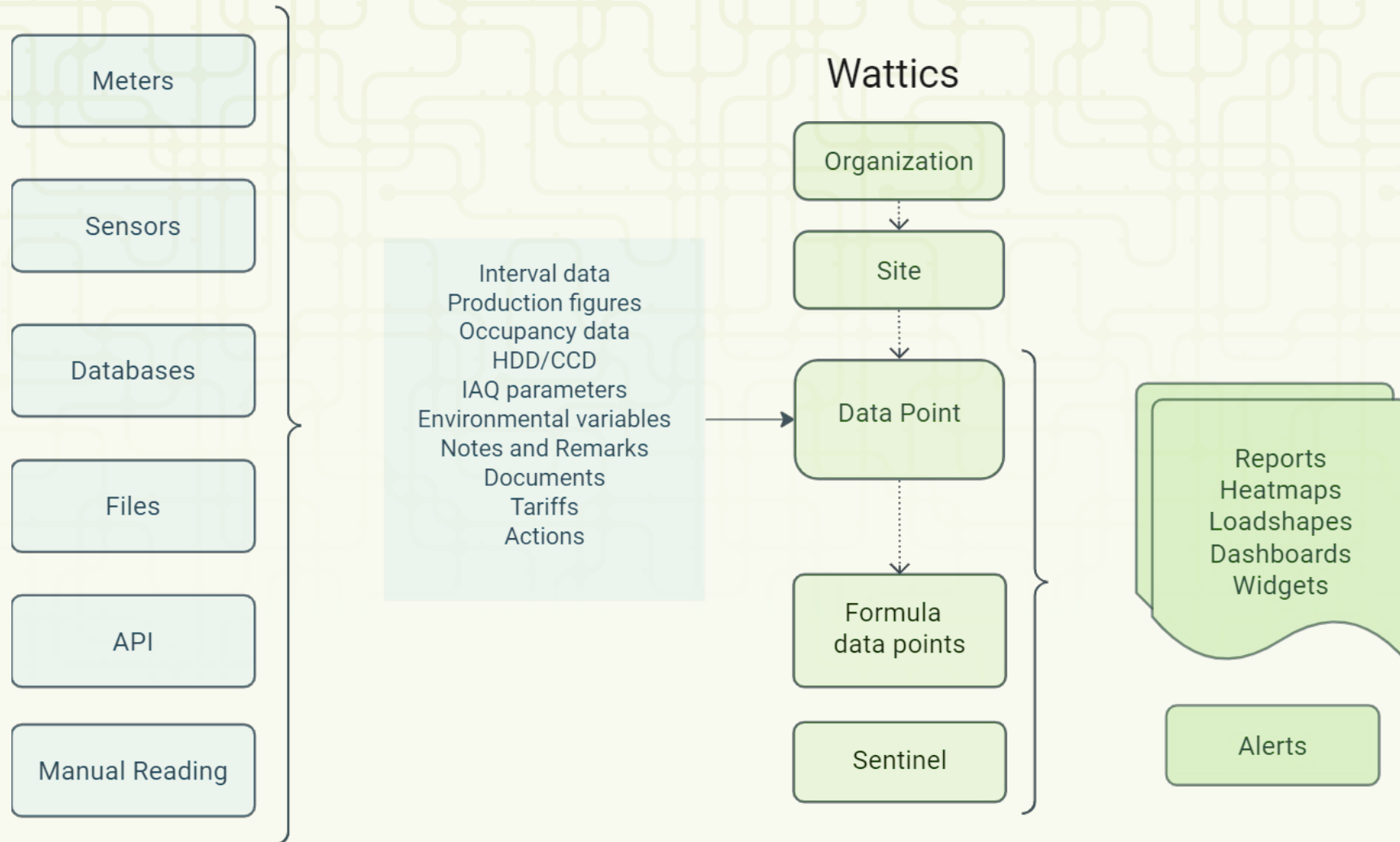
- Quickly evaluate the impact of measures on consumption and cost
- Carry on in-depth M&V project with accurate granular models





# Wattics Overview

# Data Elements





# Data Integrations

## Data Integration Formats

- API
- Data systems
- Files
- Gateways
- Meters
- Sensors
- Solar and PV
- Third-Party Integrations

## Connected devices and systems

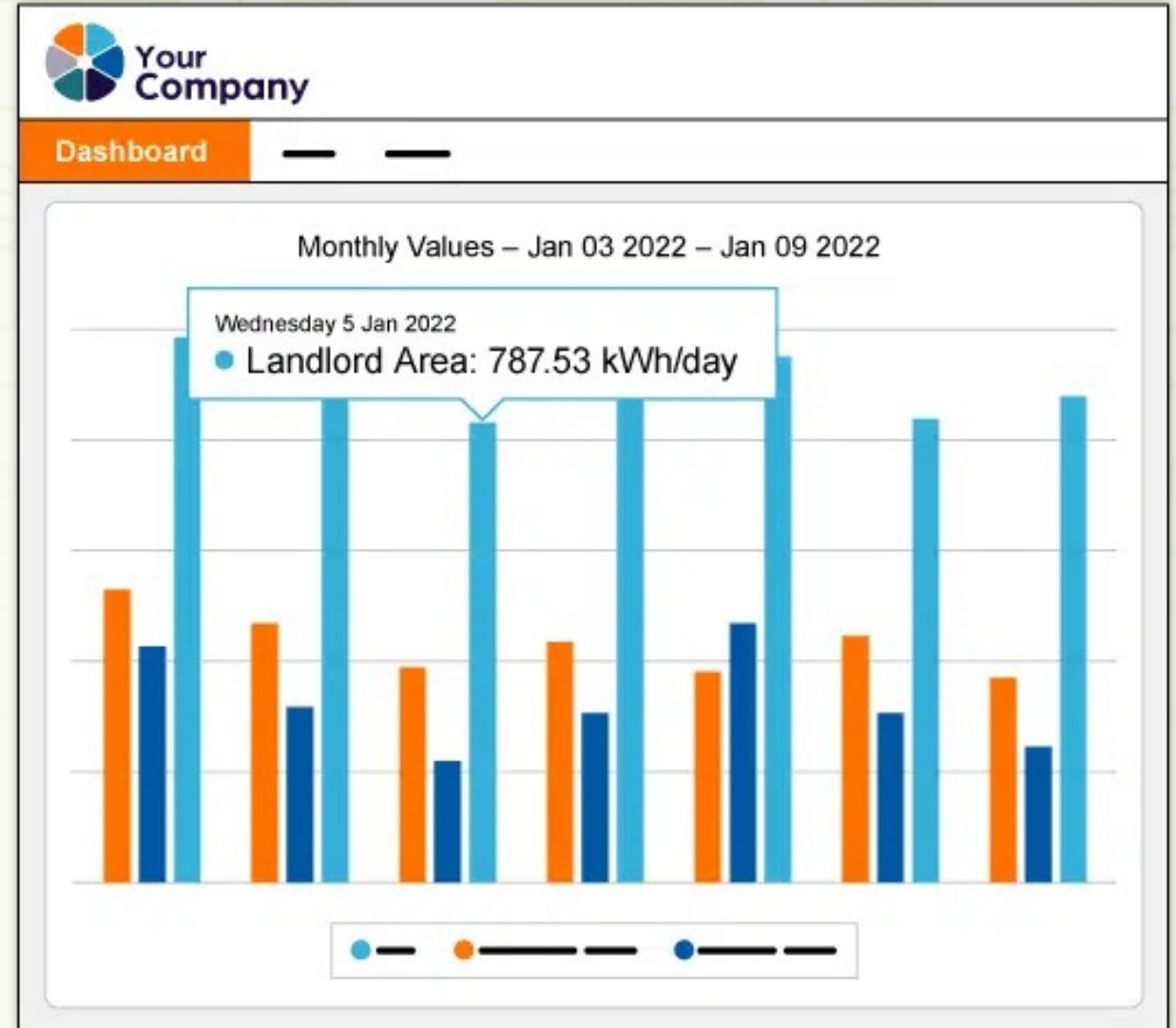
 5-step guide to install and connect your Wattwatchers device to Wattics energy management software THIRD-PARTY INTEGRATIONS	 Accuenergy AcuLink 710 via HTTP GATEWAYS	 Accuenergy AcuREV20XX Meters via HTTP METERS	 Connect your Elvaco CMe3100 gateway to Wattics energy and air analytics software GATEWAYS	 Connect your Episensor gateway and sensors to Wattics THIRD-PARTY INTEGRATIONS	 Connect your Schneider Com'X Gateway to Wattics via API GATEWAYS	 Plateforme ENGIE DATA SYSTEMS	 Questionnaire: Determining your metering needs and project environment METERS	 Rainforest Eagle Gateway via HTTPS GATEWAYS	 Use your Accuenergy AcuRev 2020 or Acuvim II meter as a gateway for pulse capable meters METERS
 Accuenergy AcuVIM-II via HTTP METERS	 Analytics REST API API	 Aquametro CONTOL VZO 4/8 via Octopus Gateway METERS	 Carlo Gavazzi EM21 via Octopus Gateway METERS	 Carlo Gavazzi VMU-C EM via FTP GATEWAYS	 Connect your building devices to Wattics via MQTT THIRD-PARTY INTEGRATIONS	 Landis Gyr ULTRAHEAT T550 (UC50) via Octopus Gateway METERS	 Northern Design Rail 350 Meters via Octopus Gateway METERS	 Omron KM-NS-FLK via Octopus Gateway METERS	 SolarEdge API THIRD-PARTY INTEGRATIONS
 Connect your Shelly 3EM 3-phase meter to the Wattics energy management dashboard METERS	 Eaton PXM 2000 Meters via Octopus Gateway METERS	 eGauge via HTTP METERS	 How to connect your Wattense box to Wattics cloud based energy analytics software GATEWAYS	 Integrate your Kaiterra Air Quality sensors with Wattics Energy Management Software [How to guide] SENSORS	 Integrate your Smappee device with Wattics Energy Management Software THIRD-PARTY INTEGRATIONS	 REST API - Smart Meter Energy Data API API	 Schneider PowerLogic ECX300 Gateway via FTP GATEWAYS	 Schneider PowerLogic PM8000 meter via Obvius AcquiSuite EMB A8B10 Gateway METERS	 Upload your data in CSV with data uploader in Wattics dashboard FILES
 EIG Nexus 1500 Meter via Obvius AcquiSuite EMB A8B10 Gateway METERS	 Get your energy data to Wattics via FTP FILES	 GreenButton XML FILES	 Iskraemeco Mx382 GPR5 via HES METERS	 Itron Gas Volume Converter CORUS (PTZ) via Octopus Gateway METERS	 Klik 22 Electrical Meters via Octopus Gateway METERS	 Schneider TAC Xenta 411 via Octopus Gateway GATEWAYS	 Send your data to Wattics effortlessly with email parser BOT FILES	 Socomec Diris C via FTP GATEWAYS	 Step-by-step-guide: How to connect your Wattics energy management dashboard to Arc green building scoring platform THIRD-PARTY INTEGRATIONS

# Need Hardware?



# Brand Your Software

- **Login Page** - Match your company styling and ensure your stakeholders and internal users have exactly the experience you intend.
- **Color Options** - Everything from the menu colors, graphs, to buttons and the logo of your platform is completely customizable.
- **Custom URL** - Bring stakeholders into your portal via a custom URL and ditch the default dash.wattics.com.
- **Reports and email notifications** - Make all of the automated emails and reports sent out to match your company's branding and to use your company's email.
- **Multiple languages** - 8 supported languages



# Wattics Features and Functionality

- Connection to devices, sensors, gateways, and systems
- Real-time alerts and alarms
- Sentinel machine learning patterns
- ISO 50001 M&V
- Heatmaps
- Formula-based calculations
- Indoor air quality monitoring
- Tariff analytics
- Load profiling
- Dashboards
- Add notes and remarks
- Actions tracker
- Scheduling optimization
- Production and multi-factor tracking
- Replace bad or missing data
- And more...

# Product Demonstration

# Wattics Pricing

## Pricing Summary

### Annual Subscription Services

<u>Description</u>	<u>Price</u>
Wattics: Platform Fee	\$4,200.00
Advanced Feature: Air Quality	\$1,200.00
Per Standard Point Fee	\$20.00–\$38.00
Per Complex Point Fee	\$45.00–\$85.00

### One-Time Services

<u>Description</u>	<u>Price</u>
Integration to New System or Hardware: Simple (csv, xls)	\$2,000.00–\$5,000.00
Integration to New System or Hardware: Complex (API or other)	\$5,000.00–\$10,000.00
Hardware: Meters, Gateways, Sensors	\$500.00–\$2,000.00



## Special Offer

25% off all first-year fees if purchased by  
**June 30, 2023**



# Q&A Session Survey

