

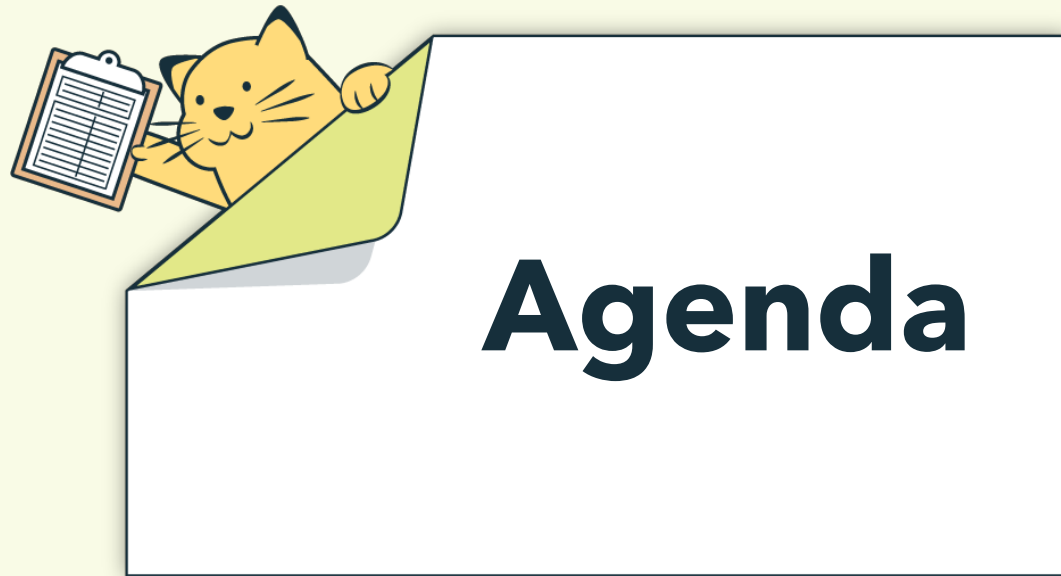
Smart Analytics for Beginners



John Heinz

VP, Strategic Accounts // EnergyCAP





- ✓ Value of interval data
- ✓ Problems solved
- ✓ What is SmartAnalytics?
- ✓ Data sources and connectivity
- ✓ Understand features
- ✓ Product demonstration
- ✓ Special pricing!

EnergyCAP's Mission

The EnergyCAP energy and sustainability ERP software is an enterprise-wide, single source of truth for all of your energy, sustainability, and energy accounting information.



Energy and sustainability ERP // The single source of truth

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.



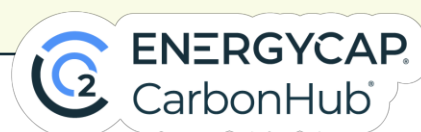
Portfolio-level energy and sustainability reporting

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



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



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

CAPture Services: Bill CAPture, Bill Processing/Managed Services

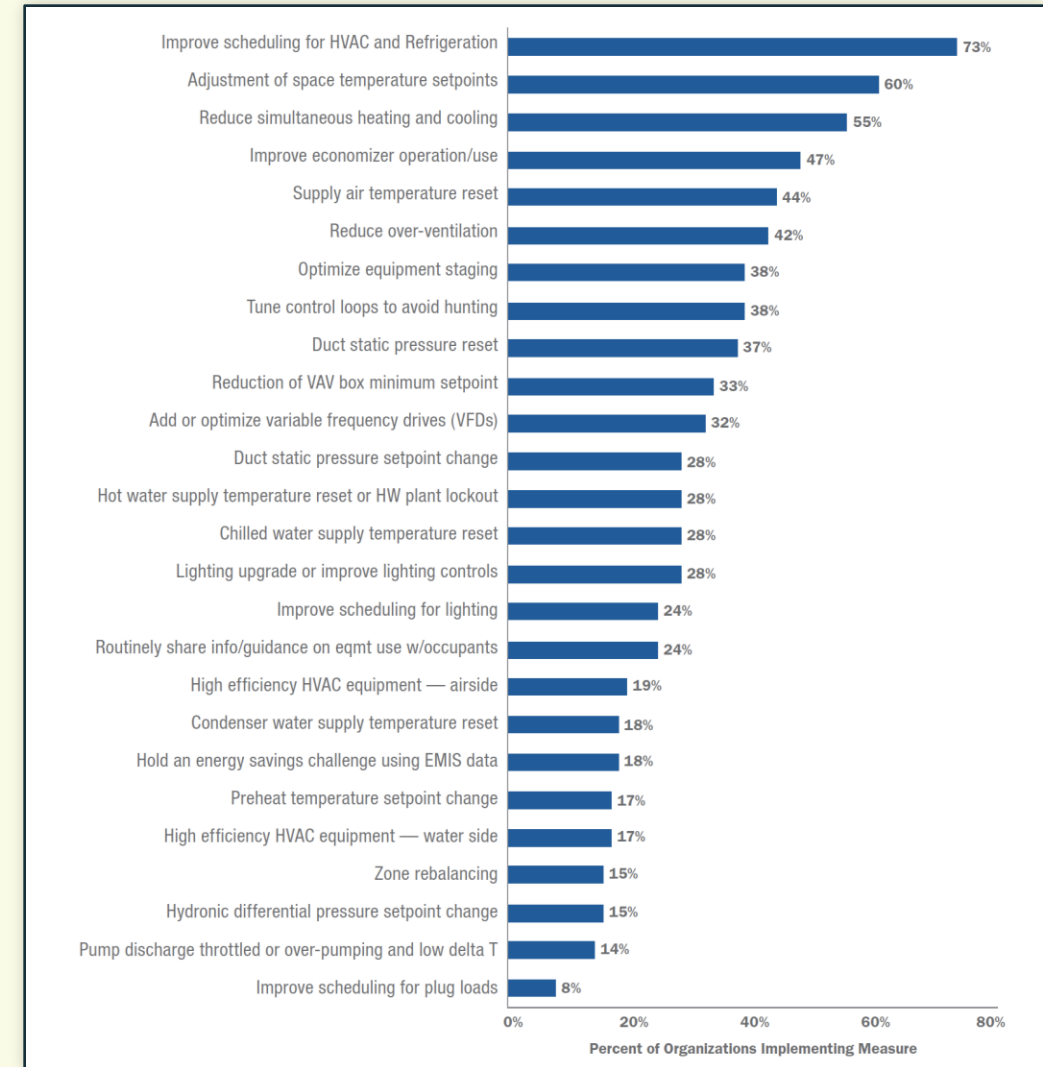
Value of interval data

- 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 consumption and demand management.

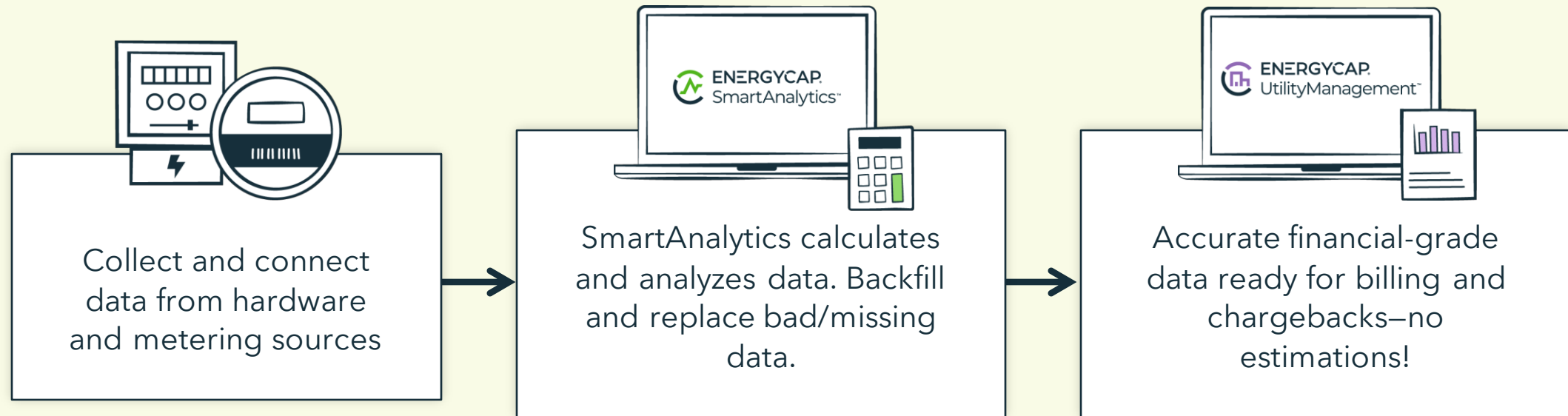


Use it to spot...

- Equipment cycling on and off, dramatically reduces life
- Too early startup schedule
- Too late set back schedule
- Costly concurrent peak demand issues
- Inefficient custodial crew workflow
- Weekend and holiday savings opportunities
- Utility theft
- Wasteful HVAC control procedures
- And much more....



Convert interval data to monthly data



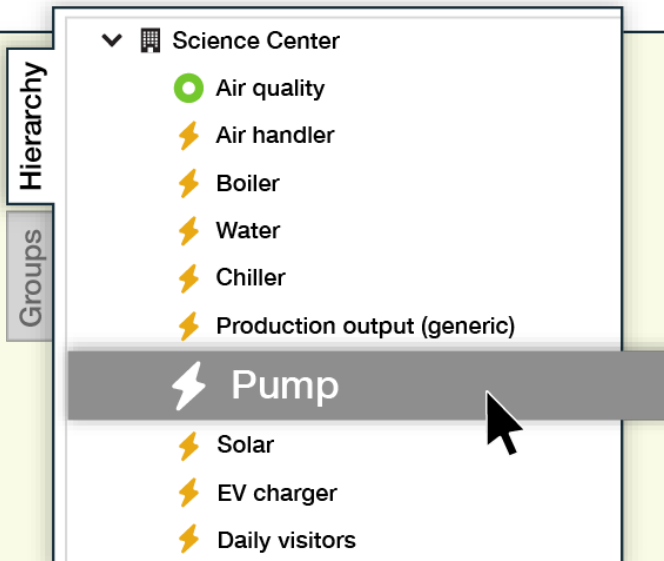
EnergyCAP SmartAnalytics overview

SmartAnalytics // Real-time energy and sustainability analytics



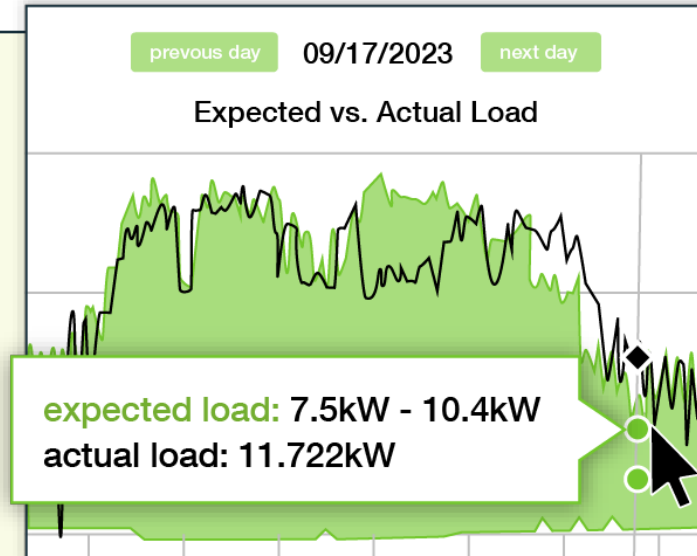
Capture

Capture real-time data from virtually any source and type of device.



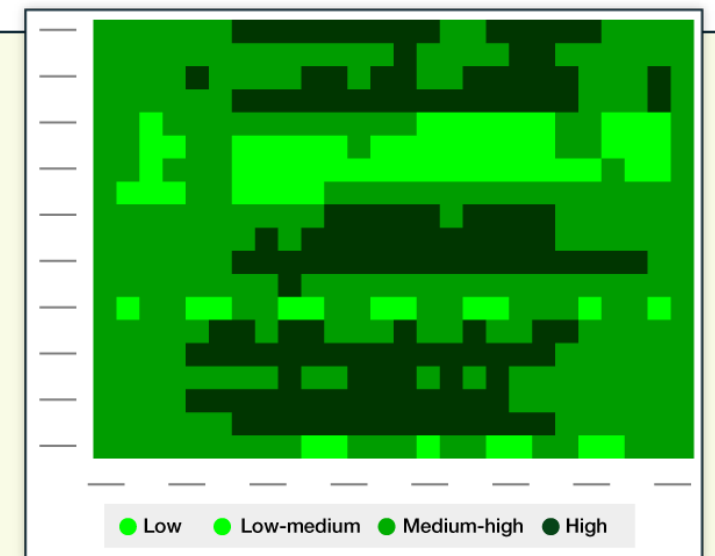
Monitor

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



Analyze

Access robust analysis and reporting functionality.



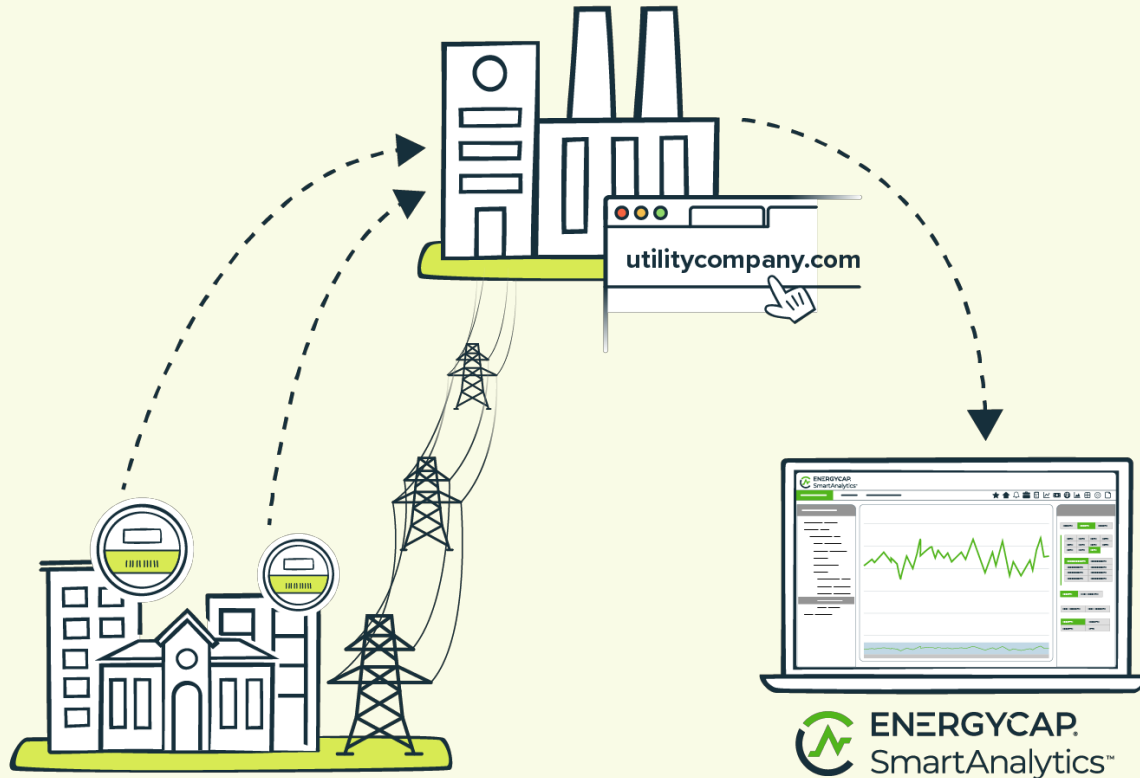
SmartAnalytics // Available data sources and connectivity

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

Connected devices and systems

 <p>5-step guide to install and connect your Wattwatchers device to Wattics energy management software</p> <p>THIRD-PARTY INTEGRATIONS</p>	 <p>Accuenergy AcuLink 710 via HTTP</p> <p>GATEWAYS</p>	 <p>Accuenergy AcuREV20XX Meters via HTTP</p> <p>METERS</p>	 <p>Connect your Elvaco CMe3100 gateway to Wattics energy and air analytics software</p> <p>GATEWAYS</p>	 <p>Connect your Episensor gateway and sensors to Wattics</p> <p>THIRD-PARTY INTEGRATIONS</p>	 <p>Connect your Schneider Com'X Gateway to Wattics via API</p> <p>GATEWAYS</p>	 <p>Plateforme ENGIE</p> <p>DATA SYSTEMS</p>	 <p>Questionnaire: Determining your metering needs and project environment</p> <p>METERS</p>	 <p>Rainforest Eagle Gateway via HTTPS</p> <p>GATEWAYS</p>	 <p>Use your Accuenergy AcuRev 2020 or Acuvim II meter as a gateway for pulse capable meters</p> <p>METERS</p>
 <p>Accuenergy AcuVIM-II via HTTP</p> <p>METERS</p>	 <p>Analytics REST API</p> <p>API</p>	 <p>Aquametro CONTOIL VZO 4 / 8 via Octopus Gateway</p> <p>METERS</p>	 <p>Carlo Gavazzi EM21 via Octopus Gateway</p> <p>METERS</p>	 <p>Carlo Gavazzi VMU-C EM via FTP</p> <p>GATEWAYS</p>	 <p>Connect your building devices to Wattics via MQTT</p> <p>THIRD-PARTY INTEGRATIONS</p>	 <p>Landis Gyr ULTRAHEAT T550 (UC50) via Octopus Gateway</p> <p>METERS</p>	 <p>Northern Design Rail 350 Meters via Octopus Gateway</p> <p>METERS</p>	 <p>Omron KM-R1-FLK via Octopus Gateway</p> <p>METERS</p>	 <p>SolarEdge API</p> <p>THIRD-PARTY INTEGRATIONS</p>
 <p>Connect your Shelly 3EM 3-phase meter to the Wattics energy management dashboard</p> <p>METERS</p>	 <p>Eaton PMX 2000 Meters via Octopus Gateway</p> <p>METERS</p>	 <p>eGauge via HTTP</p> <p>METERS</p>	 <p>How to connect your Wattsense box to Wattics cloud based energy analytics software</p> <p>GATEWAYS</p>	 <p>Integrate your Kaiterra Air Quality sensors with Wattics energy management [How to guide]</p> <p>SENSORS</p>	 <p>Integrate your Snapsee device with Wattics Energy Management Software</p> <p>THIRD-PARTY INTEGRATIONS</p>	 <p>REST API - Smart Meter Energy Data API</p> <p>API</p>	 <p>Schneider PowerLogic EX300 Gateway via FTP</p> <p>GATEWAYS</p>	 <p>Schneider PowerLogic PM8000 meter via Obvius AcquiSuite EMB A8810 Gateway</p> <p>METERS</p>	 <p>Upload your data in CSV with data uploader in Wattics dashboard</p> <p>FILES</p>
 <p>EIG Nexus 1500 Meter via Obvius AcquiSuite EMB A8810 Gateway</p> <p>METERS</p>	 <p>Get your energy data to Wattics via FTP</p> <p>FILES</p>	 <p>GreenButton XML</p> <p>FILES</p>	 <p>Iskraemeco Mx382 GPRS via HES</p> <p>METERS</p>	 <p>Itron Gas Volume Converter CORUS (PTZ) via Octopus Gateway</p> <p>METERS</p>	 <p>Klik 22 Electrical Meters via Octopus Gateway</p> <p>METERS</p>	 <p>Schneider TAC Xenta 411 via Octopus Gateway</p> <p>GATEWAYS</p>	 <p>Send your data to Wattics effortlessly with email parser BOT</p> <p>FILES</p>	 <p>Socomec Diris G via FTP</p> <p>GATEWAYS</p>	 <p>Step-by-step-guide: How to connect your Wattics energy management dashboard to Arc green building scoring platform</p> <p>THIRD-PARTY INTEGRATIONS</p>

Utility interval data integration “UIDI”



Get interval data from utility smart meters

Uses login credentials

Nightly download of prior day's data

Tends to be 15 minute or hourly

~**150** current vendors supported worldwide,
more can be added

Requirements: installed vendor smart meter,
access to files on vendor website, MFA is
turned off

Removes complications of hardware
installation and connectivity

Partnerships with hardware vendors

EnergyCAP is hardware agnostic

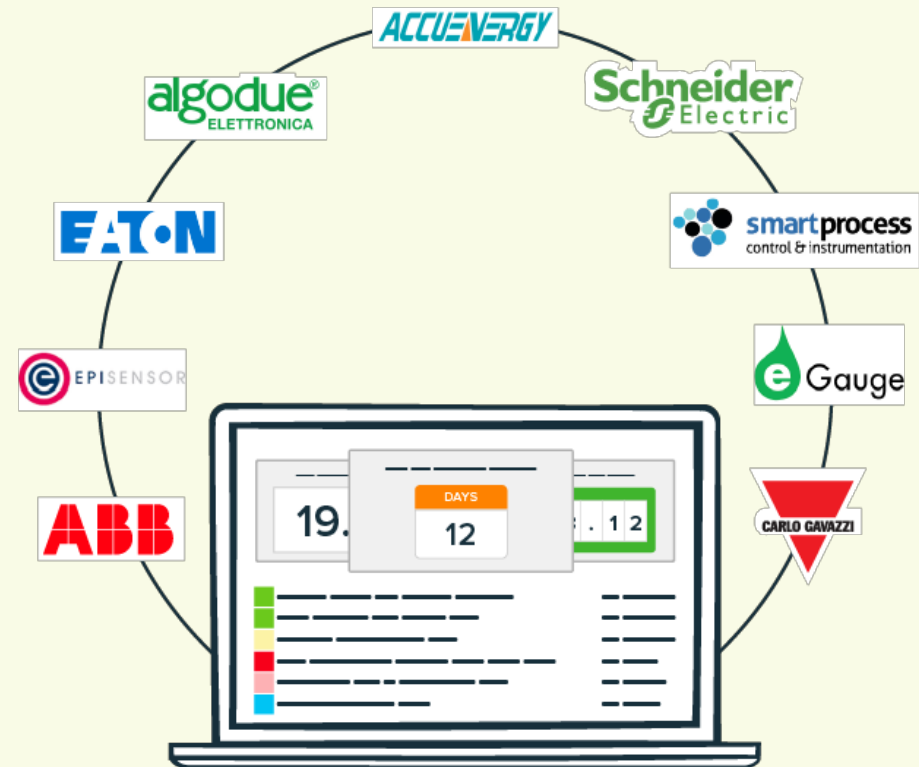
Remove the guesswork of formatting and connectivity

Many options available to meet your monitoring needs

“Plug and Play” ready

Options for meters, sensors, and gateways for communication

Options for communication protocols (BACnet, Modbus, etc.)



Partner spotlight // Accuenergy



Power Meters

Current Transformers

Communications-Gateways

Panels

<http://www.Accuenergy.com>



Partner spotlight // EpiSensor



Gateways

Demand Response Controllers

Electricity Monitor

Wireless Signal Sensor

Wireless Temperature Sensor

<http://www.Episensor.com>

SmartAnalytics features and functionality

- Connection to devices, sensors, gateways, and systems
- Real-time alerts and alarms
- Sentinel machine learning patterns
- M&V - Option B, ISO 50001
- 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

Product demonstration

SmartAnalytics pricing summary

Annual subscription services

<i>Description</i>	<i>Price</i>
Platform Fee	\$4,200.00
Per Standard Point Fee	\$20.00–\$38.00
Per Complex Point Fee	\$45.00–\$85.00
UIDI	\$108.00/point/yr

One-time Services

<i>Description</i>	<i>Price</i>
Project Management setup work package	\$3,500.00-\$8,000.00
Integration to New System or Hardware: Simple (csv, xls)	\$3,000.00–\$5,000.00
Integration to New System or Hardware: Complex (API or other)	\$5,000.00–\$7,500.00
Hardware: Meters, Gateways, Sensors	\$500.00–\$2,000.00

Questions?



CATALYST '24



Session survey