

Our Mission

Through our technology we monetize energy related business decisions



Our Value

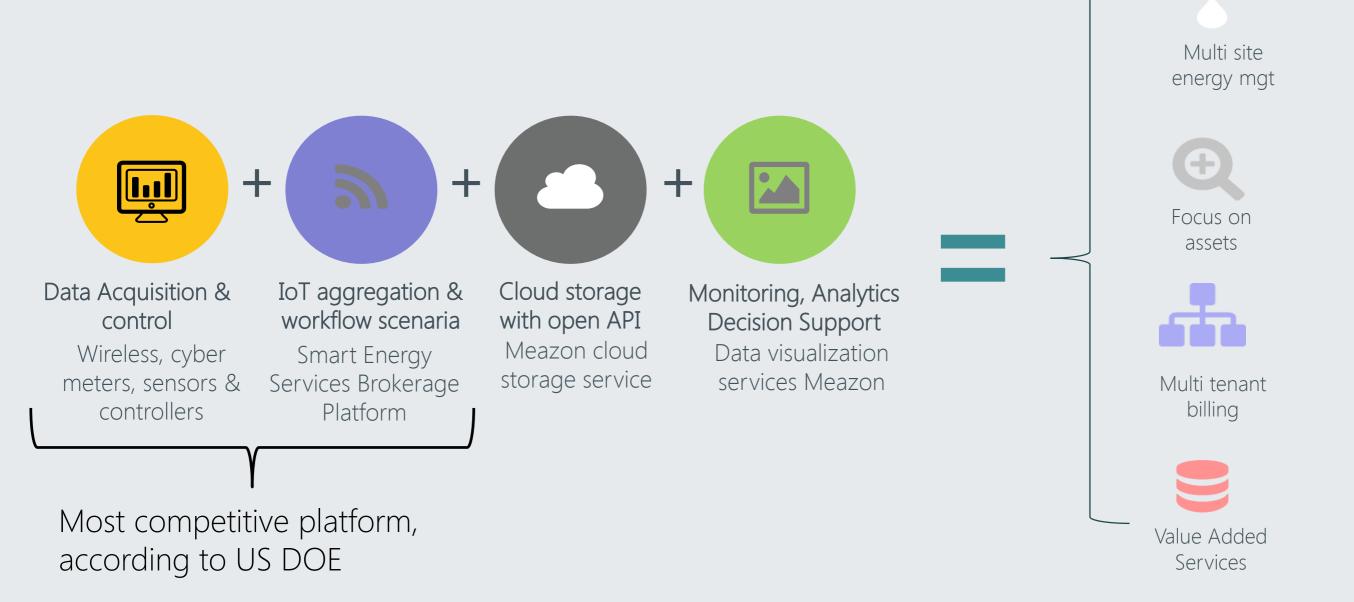
We develop technology to detect & process the energy signature of equipment and buildings, used by our customers and partners to ...

- optimize operations
- improve energy efficiency
- prevent costly maintenance
- support demand management
- support regulatory compliance

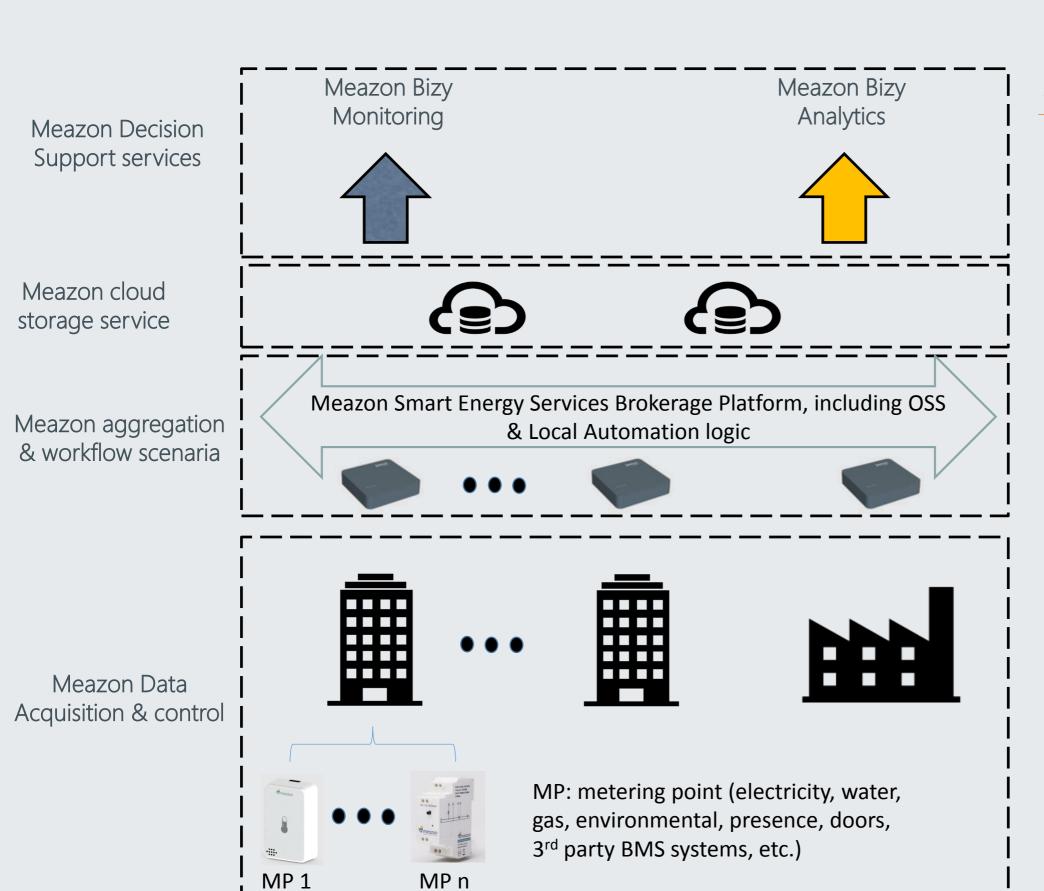


Our technology

How it works











Meazon Technology



Meazon DinRail energy cyber-meters & controllers incorporate more than

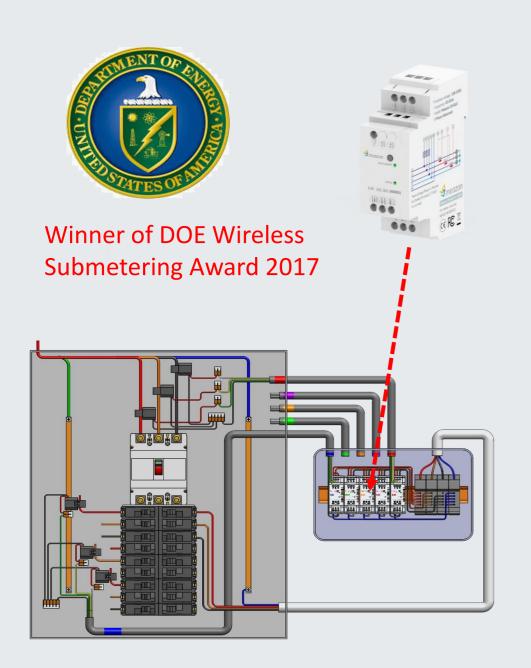
... 6.000 lines of embedded SW

... enabling unique capabilities such as:

robustness, redundancy, wireless networking, self-scheduling & uniquely small size.



Meazon DinRail



Miniaturized, wireless energy cyber-meters with embedded logic

Designed for fast installation

Automated remote commissioning

Measurements from 63A to 2000+A

Accuracy 99%+

Three levels of data redundancy on meter, gateway and cloud levels

Low Total Cost of Ownership (TCO)

According to US DOE Meazon technology can boost buildings' energy efficiency in US



DOE Challenge

Specification Key Requirements

- Low cost target
- Electrical energy measurement
- Reliable wireless data transmission to an onsite collection point
- Operation independent from existing building networks

Opportunities

- Better understanding of when and how energy is used can help building owners reduce costs by taking actions based on data.
- Scalable, low cost wireless metering systems allow small initial installations that can inexpensively be expanded to measure additional loads in the future.
- Wireless metering systems can be used independently or to complement a building automation system to assess energy use in specific areas and improve performance.
- Obtaining and evaluating metered data can support energy cost allocation among tenants, meet regulations, and achieve sustainability goals.
- Energy data can reveal operational opportunities beyond energy savings, including occupancy levels, resource utilization, and other infrastructure needs.



Wireless Metering Challenge

Initially, 30 commercial firms indicated interest in participating in the Wireless Metering Challenge.

A phased review approach was used to evaluate the candidate technologies.

Phase 1, Manufacturers submitted product and cost information to affirm their qualifications. Several firms met the basic criteria and approached the cost target.

Phase 2. Two firms, both small businesses, demonstrated full compliance with specification requirements by supplying independent laboratory test results and product certifications (UL61010).

Phase 3. The in-building communications test was performed on one system at the GSA Headquarters Building in Washington, DC. in February 2017.

Completion. The wireless technology company Meazon met the specifications and was recognized by DOE on May 15, 2017, for their exemplary performance in meeting the specifications. Although the Challenge has ended, the performance specification stands as an opportunity for other organizations to enhance the market for low cost submetering.



Meazon Zi-Clamp



Product innovation awards from

European Utility Week 2015

Energy Manager Today (US)

Fits everywhere & Plug 'n Play!

Minimizes installation time

No wires, no downtime

Measures current, cloud connected

No power needed (wireless energy harvest)

Ideal for Asset Management



Meazon Janus gateway

Linux based HW agnostic Gateway

ZigBee stack development tool

Deployment of 10ths of meters made super fast

Local and cloud energy monitoring

Loads characterization made easy

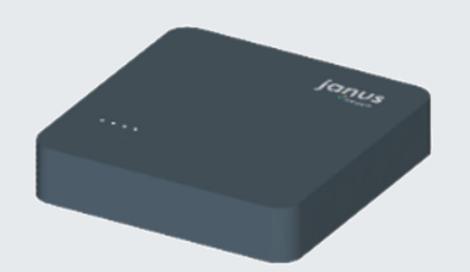
ZigBee based and IP communication

Fully configurable & controllable

Ideal for maintenance of many meters installations

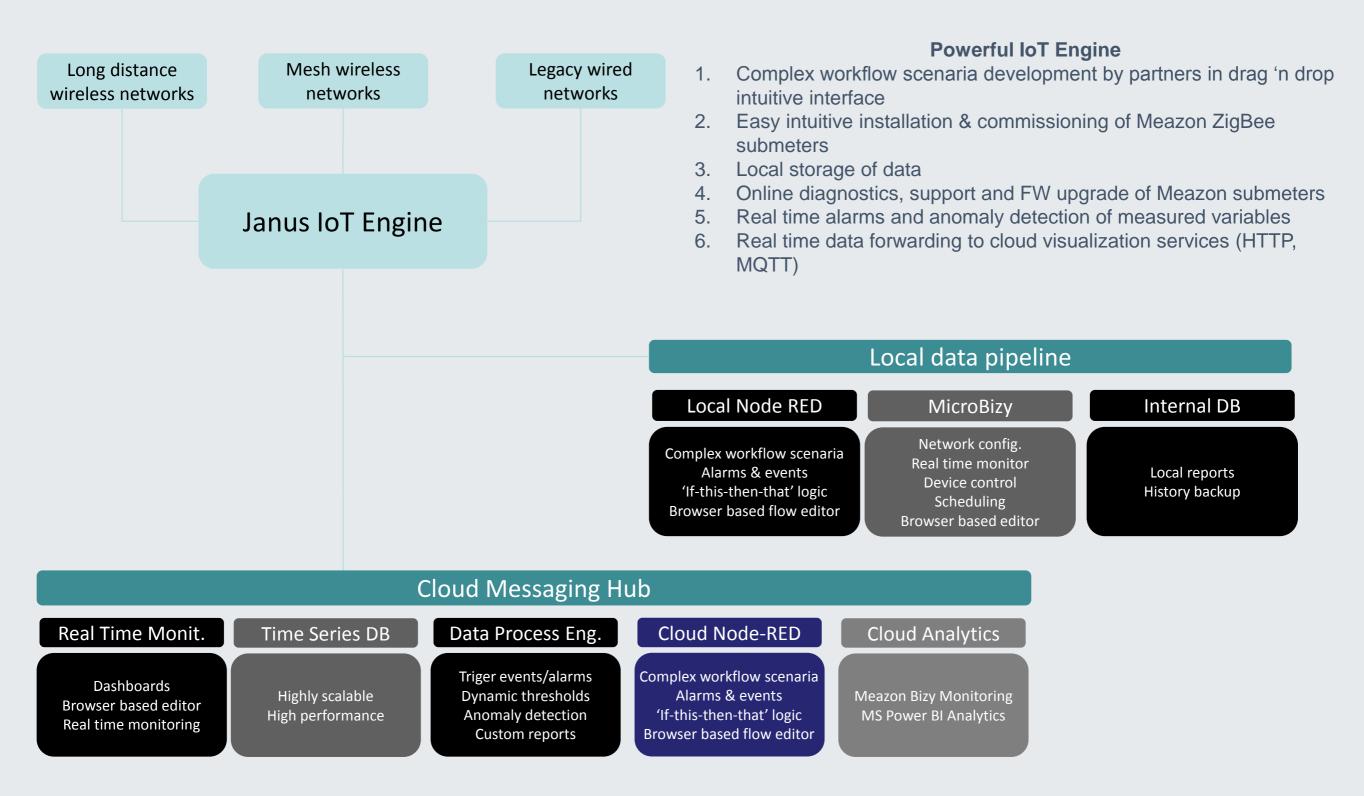
Node Red automation workflow scenario builder

Powerful IoT engine (see next slide)



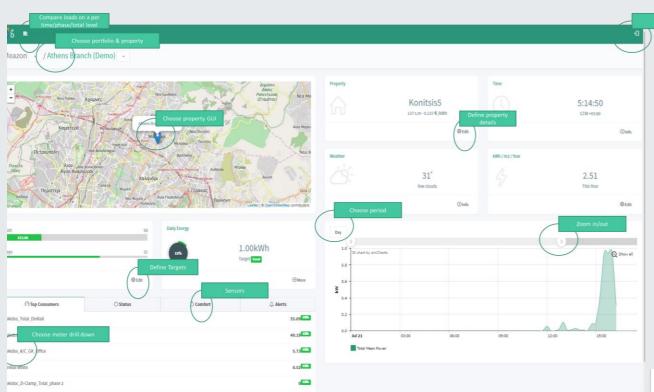


Janus - powerful IoT engine



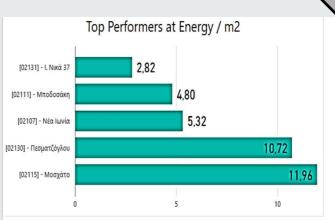


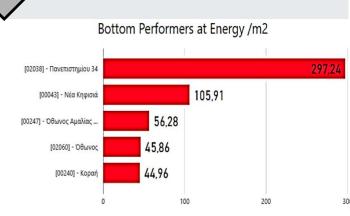
Meazon cloud service



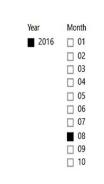
monitor geographically distributed buildings on a per load, phase, sensor or plug level, set targets and make easy comparisons download graphs and data set schedules for turning on and off devices use Meazon analytics reports or build your own using MS Power BI

use Meazon's or build customized visualization FAST, based on Microsoft's Power BI

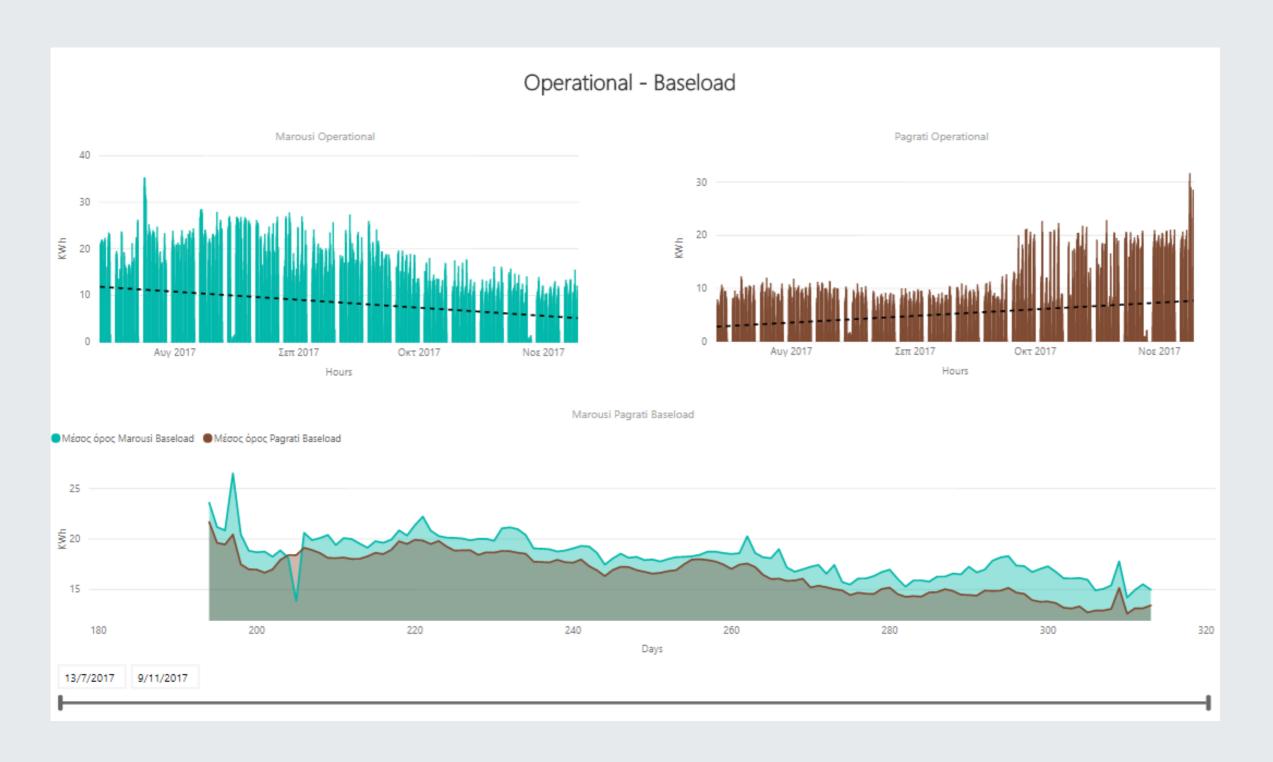








Baseload calculation





Where to use Meazon

Energy efficiency projects

- Understand how power is used during production and non-production hours and days
- Identify saving opportunities and create business cases for energy efficiency investments

Sustainability certifications, regulations and targets

- Use energy data for energy and sustainability certifications (e.g. ISO 50001)
- Use historic data to report on energy and sustainability targets

Optimize production operational costs

- Understand the amount of energy consumed per production phase
- Identify maintenance needs of production equipment and prevent production down time
- Build business cases on substituting production equipment

Energy management services

- Utilities offer value added services to their consumers
- Utilities offer demand response services
- Smart city projects



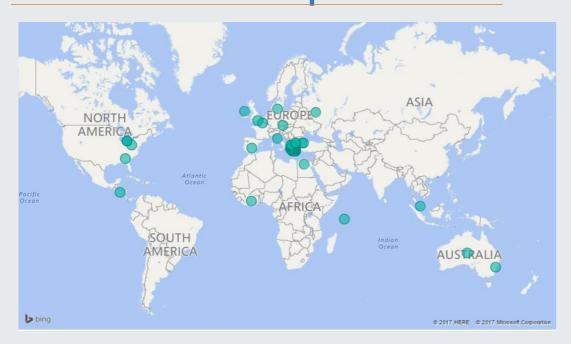
Our Value Proposition

Monitor more circuits, increase insight
Save 40% installation time
Redundancy in meter level
Avoid single vendor lock in
Flexibility, agility, quality of service
Flexibility & partner value add
Scalability, efficiency, flexibility
Top class analytics, partner value add



Adoption

Market acceptance



Installations in 5 continents

Cyber-meters shipped: 10.000

Cyber-meters contracted 20.000

Bizy service: 1.000 metering points

Analytics service: 300 organizations





Industry recognition

U.S. DEPARTMENT OF ENERGY	US Department of Energy	recognized Meazon as the only winner in energy submeter <u>challenge</u> (2017)
**** * SEAL OF * European Commission	European Commission	recognized as a high quality project proposal in a highly competitive evaluation process (2017)
hub:raum powered by T	T-Mobile hub:raum	selected Meazon as NB-IoT application pilot partner (2017)
E LG	LG	selected Meazon as one of the most promising technologies in energy efficiency (2016)
Shell	Shell	Selected Meazon as finalist in US Great Lakes innovation competition (2016)
EC	SXSW Eco	Selected Meazon as a startup show case finalist (2015)
MANAGER MANAGER JOD AY JOSEPHENERS OF THE VERENERS 2015	Energy Manager Today	Product innovation award (2015)
European Utility Week 3-5 November 2015 Vienna, Austria	European Utility Week	Product innovation award (2015)





www.meazon.com