



PSAIER SMART METER2G
BEAT SUITE

20 years
EXPERIENCE

Psaier.energies is a pioneer in renewable energy production. Since 2001, we have been reacting together to all changes and bringing together the potentials: Technological innovation, new business models, lean processes - always in interaction with the forces of nature. We believe in sustainable and decentralised energy supply from renewable energy sources. With our experience in grid management and optimisation,

metering, trading and energy trading in regulated markets, we forge reliable business partnerships, aim for joint growth with targeted support and specific advice.

We believe in sustainable, decentralised production and supply with renewable energy.

Today our challenge is Smart Metering2G. We take up the challenge and provide you with the best solution.



WIN-WIN SOLUTIONS

Psaier have consolidated a partnership with **Gridspertise** and **CESI (Kema LAB)**, and have decided to propose the **SMART METER2G** solution to all medium and small users in Italy.

Gridspertise provides in a single solution not only the 2G meter and concentrator but also the remote reading system.

We chose **Beat Suite** as our **2G** meter reading and management software, which is also used by leading Italian distributors. Our dedicated, competent and qualified team for the management of the entire project develops any missing interfaces and integrations.



Eugen Psaier - Founder

BEAT SUITE



A COMPETITIVE ADVANTAGE IN THE MARKET FOR SMART METERING SYSTEMS



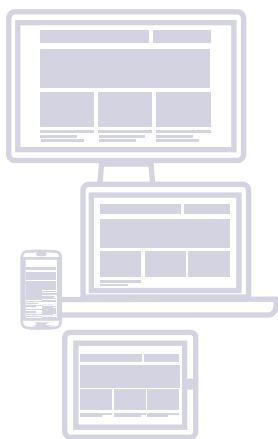
A COMPLETE PACKAGE: FROM
2G METER TO SOFTWARE TO
GRIDSPERTISE SUPPORT

1. **BEATSUITE is Gridspertise's only official complete solution**, which means that the distributor with our offer has a working, tested and also fully integrated native 2G solution.
2. **BEATSUITE is the only system** that is able to handle the M&M (Meters&More) protocol in addition to the SITRED protocol right out of the box. This means that in the event of future use of the M&M standard, no expensive firmware reprogramming is required.
3. **BEATSUITE is able to handle both** the SITRED and M&M protocols at the same time: for the distributor, this means that he can use 2G meters programmed with the new M&M protocol as well as the old SITRED protocol at the same time. This facilitates the procurement of meters in case of procurement difficulties.
4. **BEATSUITE is the only system on the market that offers the Radio Frequency Channel right from the start.** The solution guarantees from the outset the autodiscovery of Smart Meter2Gs on the RF network following an initial installation or change of network set-up and commissioning of them on the RF communication network in an automatic manner. This means that the distributor offers optimised data collection, load curves and guarantees **great time and cost savings**.

The support not only from specialists at Psai.e.energies but also directly from Gridspertise guarantees an optimal level of system operation and performance from the 2G meter/concentrator through to MDM telemetering and subsequent integration into the distributor's ERP systems.

No other solution on the market can provide this guarantee. This means for the distributor that he has a complete and functioning 2G solution as well as a guaranteed, high-performance support service even with regard to regulatory and technological changes.

PROJECT AND TECHNOLOGY



The Beat Suite, configured specifically for Psaiers customers, is the heart of the AMI (Advanced Meter Infrastructure) and is responsible for managing and configuring the devices installed in the field, performing user management tasks, collecting measurement data and handling problems. It has a modular structure, making it flexible and easily adaptable to the needs of the individual distributor.

The modular feature makes **Beat Suite** a suitable solution to meet the needs of electricity distribution companies of all sizes.

The components of the Beat Suite are based on Oracle and Java Enterprise technology, designed to easily adapt to the increase in volumes that a distribution company has to face during a massive replacement plan of **2G** Smart Meters. The scalability model of all software components is horizontal and can be carried out without significant service interruptions, allowing the correct ratio between business activities to be carried out and installed processing power to be maintained at all times.

Integration with the client company's legacy systems is done using SOAP interfaces based on code and webservices.

All modules are managed by a single interface, which is also modular and designed to provide the best user experience.

MODULES

TWO BEAT: THE HEART OF THE SUITE

- all the functionality needed to manage data collection from the 2G meter
- the collection of events and alarms
- the execution of configurations and firmware updates (smart meter and concentrator)
- complete supervision of the communication network
- all communication with concentrators via gsm, gprs, 3g, 4g, optical fibre protocols, supporting integration with all APN types

SECURE BEAT & BOX BEAT:

Manages authentication, authorisation and accounting of operator and user access to the different components of the Suite

WE HAVE COMPLETE CONTROL OVER:

- authorisation profiles of all users
- of access profiling in order to implement the segregation of multi-company data
- of the language used for the graphical interfaces of each individual user of the platform

FLASH BEAT:

WE ARE ENABLED TO CREATE AND SUBMIT REQUESTS FOR:

- remote odl execution (activations, terminations, contract changes, takeovers, etc.)
- execution of smart meter readings for billing purposes or data collection of end-of-period billing readings acquired autonomously by 2beat;
- activation of energy curve collection at single supply point level for specific types of energy and for specific periods of time;
- collection of energy curves acquired autonomously by 2beat
- execution of smart meter register readings for the purpose of acquiring information on interruptions and voltage variations

ZETTA BEAT:

IS THE REPORTING SYSTEM OF THE BEAT SUITE

- allows users to benefit from pre-packaged operational reports relating to the activities carried out in the Beat Suite
- provides technical and business information about the status of the PLC network consisting of concentrators and Smart Meters
- health status of the whole Suite, of the physical network and field devices and their performance

CHOOSE THE COMPLETE PSAIER PACKAGE

THE ADVANTAGES OF OUR 2G SOLUTION



EXPERIENCE

We have 20 years of experience as a SAAS partner in the commissioning and management of smart metering systems. We manage a complete package of **30 utilities** and **800 producers**.

RELIABILITY, INDEPENDENCE AND FIELD SERVICE

We are active with our offices in Bressanone and Trento. We guarantee our services with Service Levels.

Other support points are being evaluated. If necessary, we can guarantee a support point throughout Italy. We have a laboratory and also a warehouse from which we supply 2G concentrators quickly and flexibly.

DEDICATED TEAM AND EXPERIENCED PEOPLE

Our Meter Management Team can answer all your questions.

We have experienced IT specialists, programmers, meter specialists, project managers and installation professionals who can provide support.

We are trained in the installation, configuration, and maintenance of servers, databas-

es, and application software, as well as the management and maintenance of routers, switches, and any other network devices.



INTEGRATION

We cover all areas in meter to cash. We have expertise in managing complex systems, web server management, CRM implementation, database management, router management, server rooms, IT security and SAAS performance.

QUALITY

We provide quality services through our continuous improvement, customer surveys and external auditing.

