

CONTEXT

The energy industry is currently under huge transformation. Renewables, distributed generation, e-mobility or markets liberalization are just few challenges utility companies have to face.

WHAT IS LERTA VIRTUAL POWER PLANT?

Lerta is the solution for utilities, which based on metering equipment, advanced data acquisition & analytics systems and modern software helps enterprises with gathering data about generation, consumption and distribution of electrical energy or gas. Lerta uses gathered data for automation of managing demand and supply, customer engagement or predictions of supply and demand reduction capabilities.

WHY CUSTOMERS USE LERTA?

Lerta VPP enables power companies to:

- manage distributed power sources owned by independent investors,
- shift demand in time by controlling HVAC and appliances in customers' sites,
- make more money with new services and building automation products.

DISTRIBUTED GENERATION UNDER CONTROL

Easy and automated management of distributed generation:

- scheduling, flexible control and real-time verification of generating sources (inc. PPAs),
- compatible with all types of power plants (PV, wind, hydro, CHP etc.).

RESIDENTIAL & BUSINESS DEMAND MANAGEMENT

Remote and automated demand side management:

- remote energy measurements & control of HVAC installations or household appliances,
- possibility of participation in DSR programmes or internal balancing.

MORE REVENUE

Lerta monetizes the data and infrastructure, by aggregating assets for:

- capacity market,
- balancing market (FCR, aFRR, mFRR),
- Demand Side Response,
- Power Purchase Agreements, purchasing groups or energy clusters.

Real-time control of assets

Quick response for peak reduction

New business models (ancillary services)

„Lerta is the answer for the issue of dynamically changing energy demand profile. Reducing the difference between peak and off-peak demand for energy helps with lowering the cost of selling electricity. It is extremely important from huge generation or energy retailer's point of view.”

Piotr Czak, PGE

HOW LERTA WORKS TO ACHIEVE BUSINESS BENEFITS?

Lerta platform is based on 3 core principles: (1) measure with hardware, (2) analyze with world-class tools and (3) automate through well-designed software.

Metering & telco hardware

- Lerta Meter Reader reads 100% of electronic and major number of analogue electricity or gas meters,
- Lerta submeters provide additional device-level data for smart analytics & control,
- Lerta Power Plant Gateway integrates with every industrial controller in power source facility.

Data analytics

- energy disaggregation (appliance-level monitoring) without submeters – up to 80% load recognized,
- automatic recognition of best demand or frequency response bundle (facilities, capabilities & prices),
- predictions for supply & demand.

Software

- Virtual Power Plant for utility,
- Customer Engagement, Monitoring & Automation for customers.

TANGIBLE BENEFITS

- near real-time data about supply & demand,
- shaping customer's usage curve either automatically or through digital channel,
- new products (energy efficiency, automation) and services (ancillary, portfolio management).

WHY LERTA?

What distinguishes us from traditional IT suppliers is low entry barrier, simplicity of starting a project and innovative business model. Let's start with a non-binding meeting with demo presentation, after which we may schedule timeline and conditions of small Proof-of-Concept or pilot project. Having completed that we may start working on production deployment which initially does not have to be implemented in big scale. Our platform will scale up together with your business – automatically.

LERTA OFFER

Our promise to you

Lerta will allow you to launch new services based on our ICT solution in under 3 months.

An offer to get you started

- no big upfront investments,
- results in weeks instead of months,
- pay only for what you really need and use.