



## Virtual Power Solutions

the power to do more with less

ENERGY EFFICIENCY BOOSTING & TRACKING  
FLEXIBILITY MONETISATION & MANAGEMENT  
DISTRIBUTED ENERGY RESOURCES OPTIMISATION

We are an innovative technology player that provides energy consumers and utilities the tools for the digital transformation of the energy sector.

At **VPS** we design and implement dynamic connected energy platforms using IoT and Cloud solutions, AI and blockchain technology, to continuously support worldwide energy companies to achieve their global sustainability and decarbonisation goals.

SUSTAINABLE ENERGY COMMUNITIES

OPTIMISATION ALGORITHMS

DATA ANALYTICS

REMOTE MONITORING

LOAD FLEXIBILITY

ENERGY STORAGE

COST REDUCTION

LOW CARBON FOOTPRINT

YOUR **ENERGY**  
**TECH** PARTNER

## YOUR ENERGY , THE **SMART** WAY



**kiplo**   
Connecting Power

## DISTRIBUTED ENERGY RESOURCES MANAGEMENT SYSTEM

**DERMS**



- Virtual power plant manager for renewable energy resources portfolios in energy markets
- Aggregates generation data from distributed resources
- Helps optimal bidding in day-ahead and intraday markets and minimise bidding deviations
- Provide real time management, analysis and planning features for contract management
- Contract management with energy generated per power plant and/or technology and billing information and reports for plant operators

- Data analytics, alarms, reports and remote control features
- Novel optimisation algorithms for load shifting on cooling and heating systems, PV, EVs and medium-scale storage
- Multi-building aggregation data across the grid
- Demand and generation forecasts modules and demand response capabilities
- Manage billing for energy sharing projects with virtual net metering and for utilities from multiple sites



VOC Sensor



CO2 Sensor



TH Sensor



RTU 500



xHub500



iHub2

- Optimises home and small offices' energy consumption
- Enables local energy communities
- Manages real time flexible equipment
- Controls smart appliances, heat storage and small-scale storage among others
- Household consumption profile control
- Rooftop PV production profile control
- Enables energy resources orchestration for optimal flexibility management



Power Plug



Cloogy Hub



Clamp



Transmitter



Cloogy Link Smartmeter



Cloogy Link



Display

## VPP WITH 32 GWh MONTHLY TRADED ENERGY OVER 1.3 TWh ENERGY UNDER MANAGEMENT

10 airports (+4000 monitoring points)

+700 bank branches

+400 utility clients

+180 industries

+70 hotels

### THE FUTURE

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At **VPS** we strongly believe that energy consumers will have an active role in the energy systems of the future.

Our team masters the art of increasing energy efficiency and optimising load flexibility, at both building level and energy community level. We also have the knowledge and the expertise in providing significant benefits to all stakeholders in the modern energy network, supporting energy savings, cost reduction and carbon footprint reduction.

In the Future, consumers will not only procure tools to **use energy more efficiently** but also **platforms to either share or sell their own energy resources**.

We are actively committed in the development of novel local energy markets platforms as well as deploying business models based on energy communities.

We aim to deliver the energy digitalisation tools and collaborative platforms that will enhance the active role of tomorrow's energy consumer.