ÆNERGY POWER

Ready for the Future

Advanced Solutions for Energy Regeneration and Storage

ÆNERGY POWER SRL 2025
IT14069200963

International Markets
ENG

About us

An Italian Startup with a Global Mission

ÆNERGY POWER is an innovative startup that designs autonomous, intelligent and zero-emission energy systems, created to revolutionize the power supply of construction sites and industrial infrastructures.

How we started

ÆNERGY POWER was born from the **encounter between engineering, sustainability and technology**, and from t**hirty years of engineering experience** in the field of industrial lifting and in the design of high-power mechanical systems.

Our vision

ÆNERGY POWER has a clear goal: to **revolutionize the way the world stores and reuses energy**, through transformative technologies with a lasting impact on the renewable energy market.

Our team

Our team is made up of engineers with **decades of experience** in the field of construction cranes and port infrastructures, **software developers** and **technicians specialized** in energy storage.

What we do

We store dispersed energy

We design gravity storage systems that capture and store energy normally dispersed in ports, construction sites, industrial plants and energy communities.

We convert motion into energy

We generate energy from the kinetic motion of large lifting machines, storing it to be available exactly when needed.

We optimize renewable sources

Our solutions include Temporary Microgrid for construction sites and Stable Grid for seaports, ensuring constant energy and maximizing the efficiency of renewable sources such as wind and solar.

The problem

36% The building sector absorbs more than a third of the **world's energy**.

40% The construction sector is one of the largest contributors to **CO_2 emissions** with 40% of total emissions.

>70% More than 70% of the energy used in handling systems is **wasted**.

>25% Today, more than 25% of emissions come from the massive use of **diesel generators** on construction sites.

The solution

Three innovative, smart and sustainable energy systems.

They recover energy from cranes and equipment.

They store energy in the latest generation of lithium batteries.

They are managed by AI software to optimize performance, charge and consumption.

ÆNERGY POWER develops an integrated line of energy systems

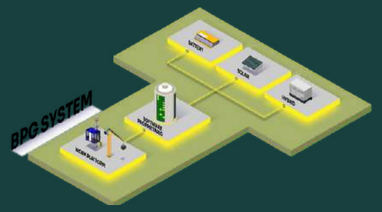
These systems are designed to **guarantee autonomy, efficiency and zero emissions** in complex contexts such as large construction sites, port infrastructure, off-grid and vertical industrial sites.

Our technologies **combine the latest generation of lithium batteries, energy recovery and artificial intelligence** to offer scalable, ready-to-use solutions.

BPG

Battery Power Generator

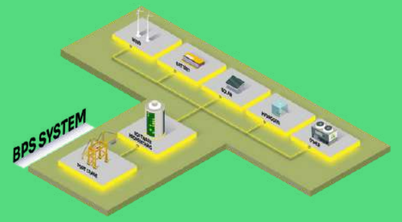
For construction sites: recover energy from cranes and elevators



BPS

Battery Power Source

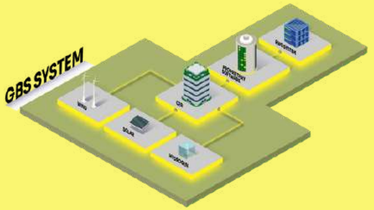
For ports and large installations: also powered by solar panels



GBS

Gravitational Battery System

For vertical sites or mines: storage via gravitational potential energy



Battery Power Generator

Autonomous and intelligent energy for construction sites

Purpose

System for construction sites, designed to recover and reuse kinetic energy lost from cranes and elevators.

Technology

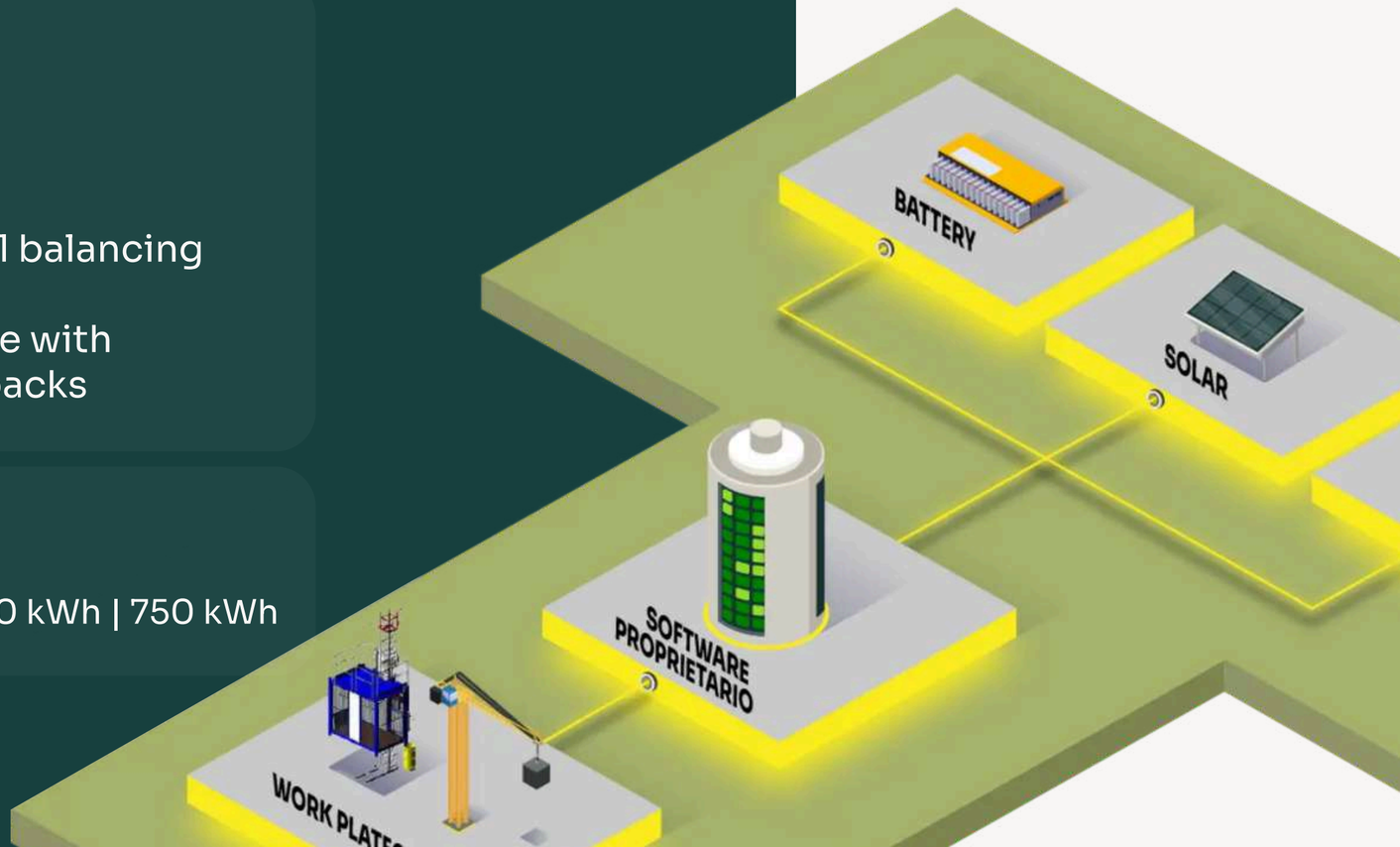
Stores energy in lithium batteries, managed by AI software. Plug-and-play system, expandable on site (modular battery packs).

Key Features

- Zero emissions
- No maintenance
- Fast charging (cell balancing 40x)
- Expandable on site with modular battery packs

Available Models

100 kWh | 190 kWh | 450 kWh | 750 kWh



Product detail: BPG

Battery Power Generator

Model specific

STANDARD MODELS	BPG 100	BPG 200	BPG 450	BPG 750
Total nominal energy	95 kWh	190 kWh	450 kWh	750 kWh
Total nominal power	80 kVA	150 kVA	400 kVA	480 kVA
Total nominal capacity	230 Ah	460 Ah	1.140 Ah	1.840 Ah
Dimensions	2.000 × 2.000 h. 1.000 mm	2.000 × 2.000 h. 1.000 mm	2.000 × 2.000 h. 1.500 mm	2.000 × 2.500 h. 2.000 mm

Photo of BPG Battery System 100 Kwh

Battery Power Source

Large-scale solutions for ports and industrial machines

Purpose

Large-scale solution for ports and industrial plants.
Powers port cranes (RTG, RMG, STS) with clean energy.

Technology

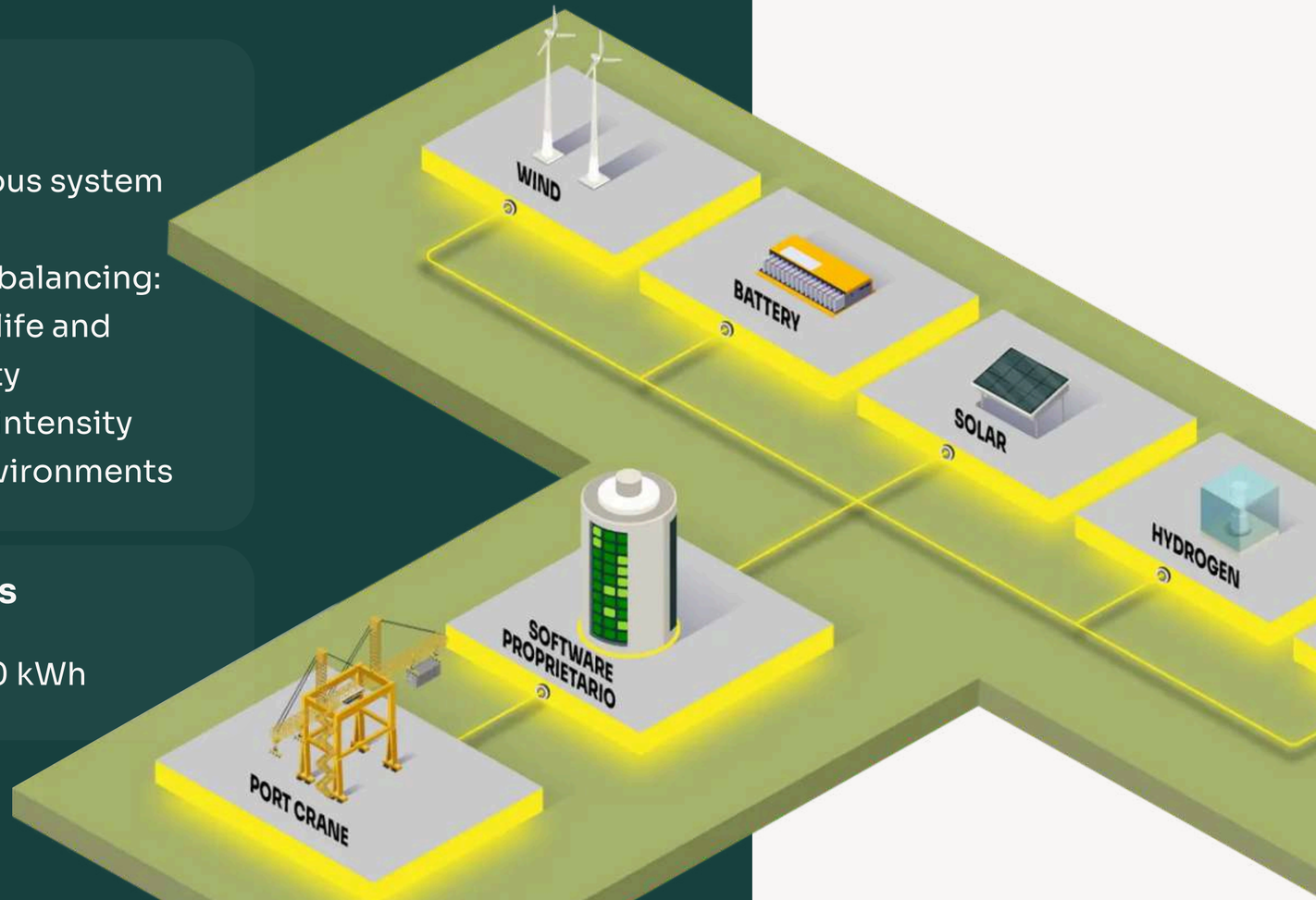
Batteries integrated with solar panels (rigid and flexible), rechargeable even during operational use.

Key Features

- Fully autonomous system
- Zero CO_2
- Patent for cell balancing: longer battery life and higher reliability
- Ideal for high-intensity operational environments

Available Models

1.500 kWh | 6.500 kWh



Battery Power Source

Model specific

STANDARD MODELS	BPS 1500	BPS 6500
Total nominal energy	1.500 kWh	6.500 kWh
Total nominal capacity	2.500 Ah	10.000 Ah
Dimensions	3.500 x 2.100 - h. 2.000 mm	12.200 x 2.450 - h. 2.900 mm
Suitable for powering	RTG and RMG cranes for container storage	The largest ship-to-shore cranes

Gravitational Battery System

Energy storage through gravity: circular innovation

Purpose

Energy storage system suitable for off-grid plants and vertical spaces. Conserves energy in a circular way.

Technology

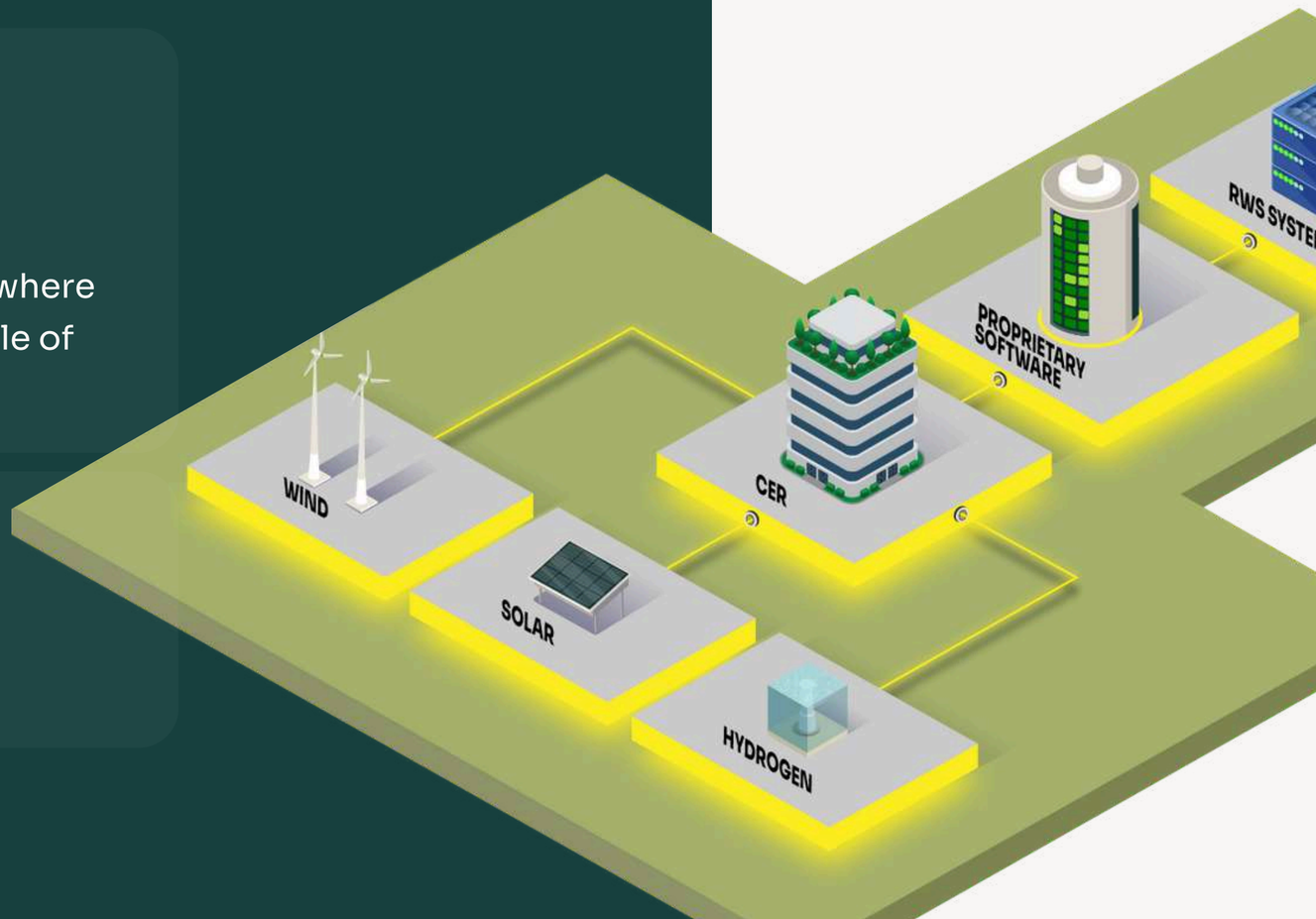
Lifts masses (via industrial elevators or converted mines) and releases energy when they fall.

Key Features

- Zero emissions
- Low visual impact
- Can be installed anywhere
- Based on the principle of energy conservation

Available Models

Customizable based on available vertical space.



Target

Our market

ÆNERGY POWER
It is part of a huge and evolving market, offering concrete solutions where today there are only diesel generators

Main targets

Medium to large construction sites

Need for continuous energy and cost reduction

Port infrastructures

Decarbonization and environmental compliance objectives

Renewable Energy Communities (RECs)

Systems for local storage and distribution

Key figures

Global Industrial Battery Market: **$50 Billion** by 2030

In Europe alone: over **50,000 active construction sites per year** with needs >250 kWh/day

Around **1,200 active commercial ports worldwide**, of which **150 in Europe** subject to electrification plans

Target

Our clients

Rental companies of tower cranes and construction hoists

Port and inland terminal authorities

General contractor

Renewable Energy Communities (RECs)

Competitive advantage

Plug-and-play

Quick and easy installation, without complex work

Integrated energy recovery

We harness the energy of cranes and elevators instead of wasting it

Native AI

Proprietary software that optimizes charging/discharging, extending battery life

No emissions, zero maintenance

A real alternative to diesel generators

Vertical modularity

From the small shipyard to the container port, with three dedicated solutions

Patented technologies

Cell balancing, gravitational storage systems

Fattore	ÆNERGY POWER	Diesel Generators	Other battery systems
Plug & Play	✅	❌	⚠️
Built-in AI	✅	❌	⚠️
Energy recovery	✅	❌	❌
Modularity	✅	⚠️	⚠️
Zero CO_2 / Zero manut.	✅	❌	✅
Software support	✅	❌	⚠️

Why choose us?

Customers

01

Cost reduction

Our energy recovery and storage system **reduces fuel consumption**, ensuring real savings.

02

Environmental sustainability

Our solutions reduce CO2 emissions and promote a **more responsible use of resources**.

03

Energy efficiency

Our **intelligent software optimizes energy management**, reducing waste and ensuring continuity even in the most critical situations.

Thank you for your attention

We are ready to build the energy of the future together.

ÆNERGY POWER S.R.L.
Via del Bosco Rinnovato 6 – 20057 Assago (MI)
info@aenergypower.com | www.aenergypower.com
VAT: IT14069200963