



**AUTON  
ENERGY**

Integrating Energy Independence

**Sustainably power your  
construction site, while  
saving cost.**



Battery Units



Smart Cabinets

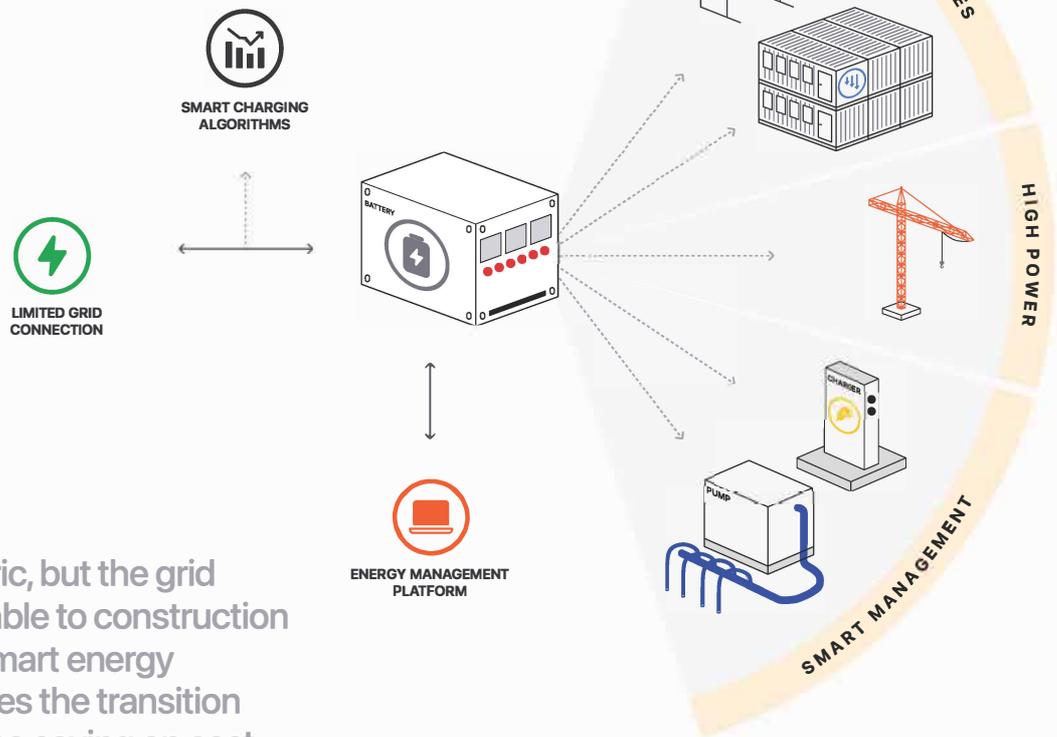


Energy Platform



Smart Charging

# The complete energy management solution for construction sites.



The future is electric, but the grid connections available to construction sites are limited. Smart energy management makes the transition possible - while also saving on cost.



## Small grid, high demand

With limited energy supply from the grid and energy demands for equipment and electric vehicles rising, construction sites are facing a challenge to meet their energy needs.



## High power and storage

Battery units can solve the problem by delivering the high power requested by tower cranes and heavy machinery, while also storing energy during low demand to be used later.



## Save energy, cut costs

To lower the energy demand and to save on cost, smart timers and schedules per circuit can eliminate the high excess energy consumption on construction sites.



## Smart EV charging

With the rise of electric vehicles, a charging solution on site is becoming a necessity. Charging EVs adds significantly to the already high energy load, which must be actively balanced.



## Energy control center

The energy platform puts you in control while making energy management easy. Determine the optimal setup, monitor and control the energy, change your settings and get live insights.



## Charging algorithms

Battery units are a valuable asset in the energy transition. They can be deployed on the energy markets to significantly reduce the energy bill or even earn additional revenue.

# Smart Battery

The battery unit designed to enable the energy transition on construction sites, today and in the future.

Now in series production!



## Plug and play

Connect any size grid up to 250A and immediately start working with 6 readily available CEE plugs that are individually monitored and controllable from the Online Platform.



## No peak too high

The total usable power is the installed power of the battery unit (80, 160 or 240 kVA) added on top of the power of the grid connection. Easily support construction sites of any size.



## The capacity you need

The 90 kWh fully usable battery capacity can be optimally deployed to maximise the grid usage, support EV charging and reduce the energy bill by buying when energy prices are low.



## Built to last

With its strong steel outer enclosure, top of the line technology and active temperature control, the battery unit was built to withstand the harshest of conditions.



## Unmatched functionality

Through deep integration with our in-house developed control software, the battery unit is future proof and ready to capitalise on the opportunities of the energy markets.



## Connected

The battery unit is automatically connected to the Platform, from which the live status of the system, energy flows and internal components can be accessed to allow for quick remote servicing.

### BATTERY

### + PLATFORM

### + ENERGY MANAGEMENT



No refueling



Monitoring per circuit



Reduce energy bill



No maintenance



Timers and schedules



Smart EV Charging



No noise



Critical notifications



Secondary utilisation



No pollution



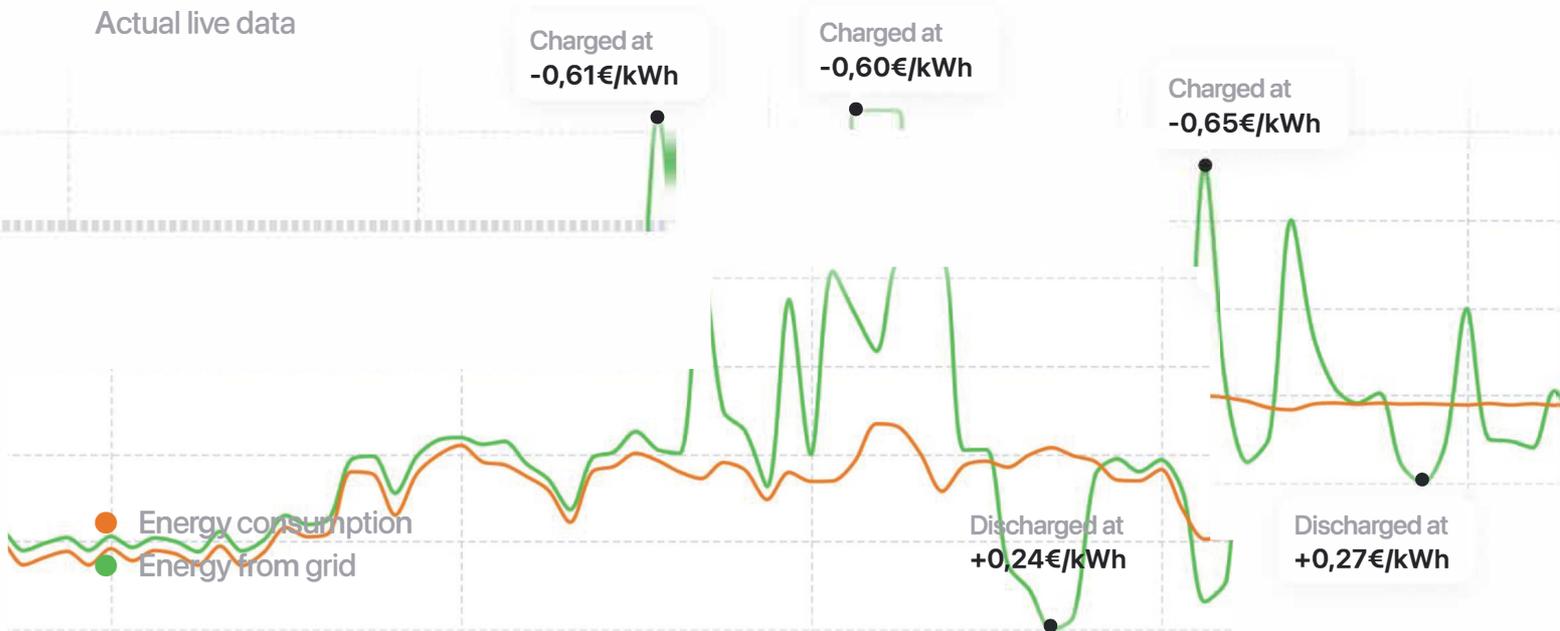
Remote live status



Low auto-consumption

# The battery that earns revenue.

Actual live data



## Imbalance trading

Energy prices on the imbalance market are highly volatile and continually switch between negative and positive with a large spread. Smart battery units are deployed as profitable assets, earning themselves back by imbalance trading - while simultaneously replacing an expensive diesel generator.



### Buy low, sell high

The battery charges at low prices and injects at high prices, earning a profit in both directions.



### Payback over lifetime

With 6000 cycles guaranteed, the battery earns itself back over its lifetime by imbalance trading.



### Never idle

The battery is never idle. Not on the construction site, and not when stored on the depot.

## Certified



The Bright Battery is C10/11 certified to work in parallel with the Belgian distribution grid, enabling deployment for ancillary services.



The Smart Battery is Yuso certified to gain access to the imbalance market allowing to trade energy at live and negative prices.

## Specifications

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### Power

	S	M	L	
Continuous power	80	160	240	kVA
Peak power (less than 5 seconds)	112	224	336	kVA
Available to site	+ Grid Power			

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### Battery

Capacity (fully usable)	90 kWh
Backup autonomy	up to 8 hours (coming soon)
Technology	Li-ion
Lifetime (at 100% DoD)	6000 cycles

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### Grid Connection

Current	16A → 250A
Voltage	3 x 400V + N + PE

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### Outlets

CEE Connectors	2 x 125A (monitored)
	2 x 63A (monitored and controllable)
	2 x 32A (monitored and controllable)
Cable clamps	2 x 250A (monitored)

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### Mechanical

Dimensions	2.44m x 1.50m x 1.68m
Weight	2.2t → 2.4t
Temperature range	-10°C → 40°C

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## Smart Cabinet

The smart electric cabinet that provides detailed insight, eliminates excess consumption and saves cost.

Outlets	Built to size
Connection	Up to 250A
Monitoring frequency	Every second
Remote access	4G



### Monitoring

All outlets are individually monitored on a per second basis. Get insight into your highest peaks, your biggest consumers, where energy gets wasted, and what it costs.



### Schedules

Our data is showing very high levels of excess consumption on construction sites. Eliminate this completely using our easy to use automatic schedules for each individual outlet.



### Connected

The cabinet is automatically connected to the Platform, from which you can remotely access the live status, energy consumption data, and change your schedules and settings.

## Smart Charging

The mobile charging solution with smart load balancing and priority-based charging that enables charging anywhere .

Charging ports	4 x 22 kW
Connection	63A
Payment system	Fully integrated
Remote access	4G with 72h backup



### Smart load balancing

With only limited energy available, our load balancing algorithm first prioritises the construction site and then distributes all of the remaining power to the EVs.



### Priority-based charging

Some are only visiting for a short time, while others stay for the entire day. Set priorities for each charging port using the Bright Platform to make sure each car gets charged in time.



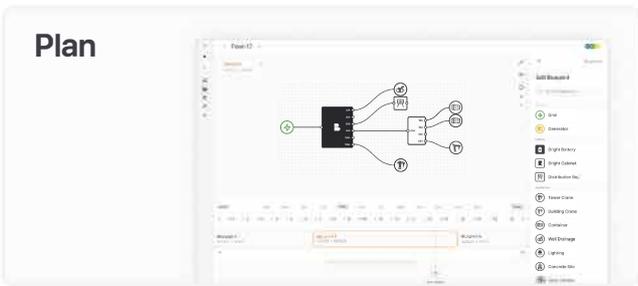
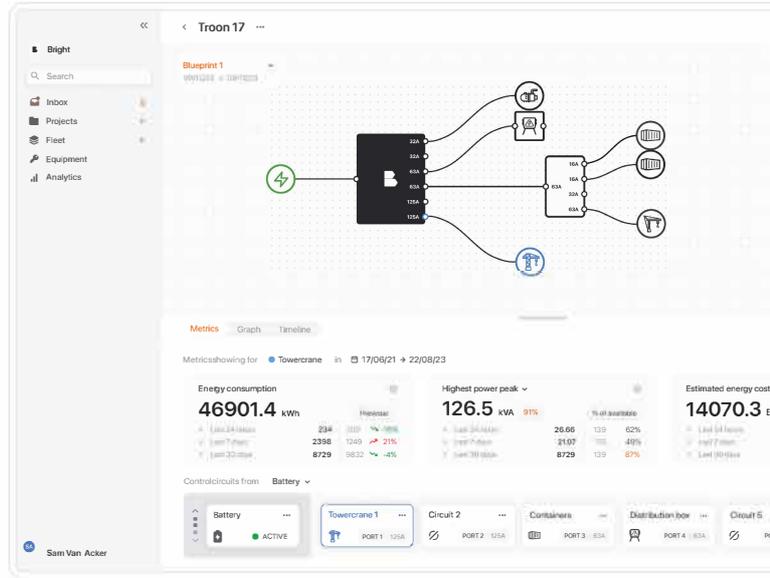
### Built for construction

The robust yet elegant design of the charging station is easy to relocate and installation is as simple as plugging in. It is customisable to your brand and leaves an impression on visitors.

# Online Platform

The complete energy management tool for planning, monitoring and controlling the energy on your construction site.

Contact us to request a demo.



Easily determine the energy requirements and optimal energy solution for each construction site by drawing the energy plan. Determine the recommended cable sections using the integrated calculation tool and keep your plan up to date with inevitable changes to your energy setup using the timeline function.



Get detailed insight into the energy consumption of each circuit using the extensive graphing functionality. Find out where excess energy gets wasted and what can be improved. Initialise the schedules to eliminate excess consumption at night and during weekends and easily override the schedule for a single day when necessary.

The 'Compare' interface displays a table of project energy data. The table has columns for 'Project', 'Location', 'Energy', 'Cost', 'Peak Power', and 'Status'. It lists various projects and their associated energy metrics, allowing for easy comparison between different sites.

The overview centralises the energy data of all your construction sites and allows to sort and compare projects based on energy consumption, highest peak power and cost. It shows trends in the energy consumption per selected period, which energy equipment is installed on site, and the active members of each project.

The 'Remote Service' interface shows a 'Fleet Management' table. The table lists various pieces of equipment with columns for 'ID', 'Name', 'Status', 'Location', 'Energy', and 'Cost'. It provides a centralised view of the live status of all equipment across different construction sites.

Fleet Management was developed to facilitate technical support on site. It centralises the live status of your products and detects problems early on. When a problem does arise, resolution speed is increased by remotely viewing the live energy situation on site, including energy flows, circuit breakers, RCDs and internal components.

**The construction site of the future.**  
Available today.



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