

Automated Load Balancing

Optimise and Future-Proof Your EV Charging Operations

Load balancing enables EV system administrators to easily reduce and cap total EV charging load. Our smart charging software optimises existing systems, keeps excess capacity charges in check, and lets you expand EV fleets without the need for expensive infrastructure upgrades.

Why Load Balancing?

Load balancing helps businesses save on both EV charging infrastructure and operating expenses (see reverse for details).

Who is Load Balancing for?

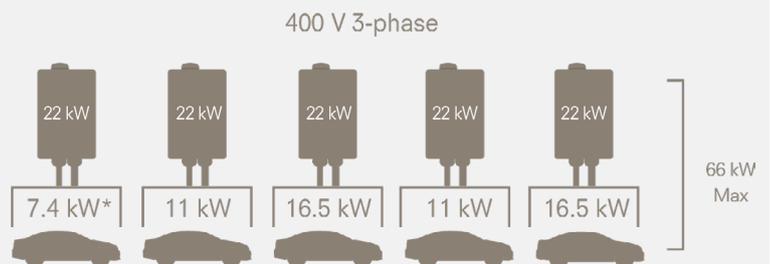
Apartment buildings, offices, shopping malls, universities, event venues, car parks — any commercial or public organisation interested in optimising EV charging.

Does Load Balancing adhere to Codes and Standards?

JuiceNet Enterprise load balancing functionality follows IEC 60364-1, which allows automated load balancing via software.

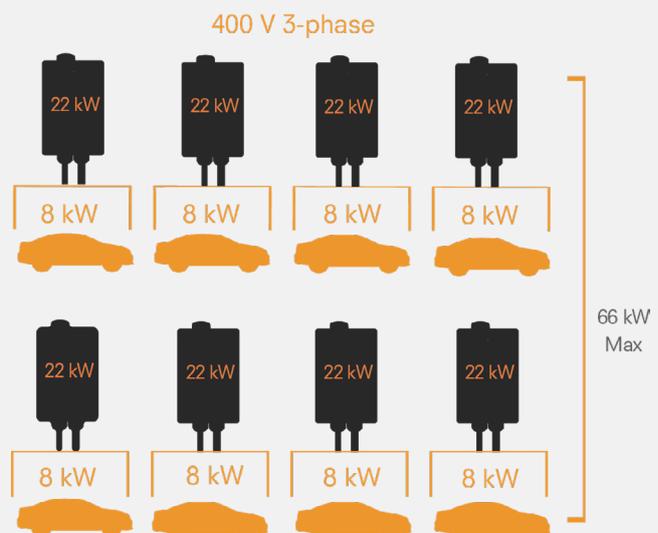
How Does It Work?

When multiple EVs recharge at a given location, energy consumption might exceed the available supply capacity. In the absence of load balancing, a costly supply upgrade could be required.



* Electric vehicle acceptance rate (varies by car make/model)

With automated load balancing, the maximum load is set on JuiceNet Enterprise which allocates that capacity among all the connected JuiceBoxes, eliminating the need for an expensive supply upgrade.



Automated Load Balancing

Reduce Your Energy Costs



Save on Capital Expense

Often, installing more EV charging stations requires expensive electrical infrastructure work, such as electricity supply or electrical panel upgrades. Load balancing leverages existing infrastructure and helps reduce upfront costs by utilising software, not hardware, to manage EV loads.

Save on Operating Expenses

JuiceNet's load balancing optimises operating expenses in two ways:

1 Excess Capacity Charges Management

Energy companies often levy excess capacity charges based on a customer's peak energy use. With load balancing, you can cap the energy you use at a given time in order to limit what you pay in excess capacity charges.

2 Reduce Overall kWh Consumption

By enabling you to limit the total amount of electricity your chargers draw, load balancing reduces your energy bills simply by lowering your overall consumption.

Example Supply Upgrade Costs (site specific)

Service	Without Load Balancing*	With Load Balancing
Converting a single phase 100 A to a three phase	£3,000-5,000	£0
Converting a single phase 100 A to a three phase 200 A	£8,000-12,000	£0

*Costs can vary considerably depending on your project

Preventing a supply upgrade with JuiceNet load balancing saves you £3,000 - £12,000

Consumption Limited by Automated Load Balancing

