

## 1 What is it?



Intelligently manage the energy chain to integrate batteries, renewables and participate in energy demand response.

According to GTM Research, the growth in electric vehicle sales worldwide is expected to boost demand for charging points, with up to 40 million installed by 2030. McKinsey Research believes that unmanaged, substation peak-load increases from EV-charging power demand will eventually push local transformers beyond their capacity, requiring expensive infrastructure upgrades.

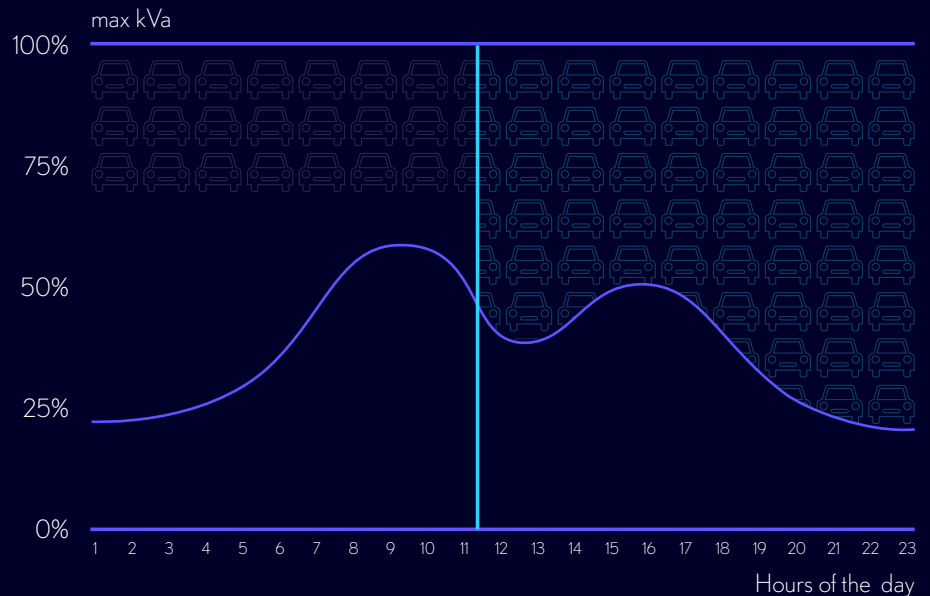
The Driivz **SmartChain™ Energy Manager** plays a critical role in reliably charging EVs using intelligence that ensures the safe delivery of power to electric vehicles without compromising on delivering electricity to offices and homes.

Optimizing the charging infrastructure by efficiently distributing the available power, **SmartChain™ Energy Manager** shifts charging loads based on dynamic grid and renewable supplies, preconfigured policies and the needs of vehicle owners. In other words, it ensures that the right amount of energy gets to the right resource at the right time.

## 2 Why do you need it?

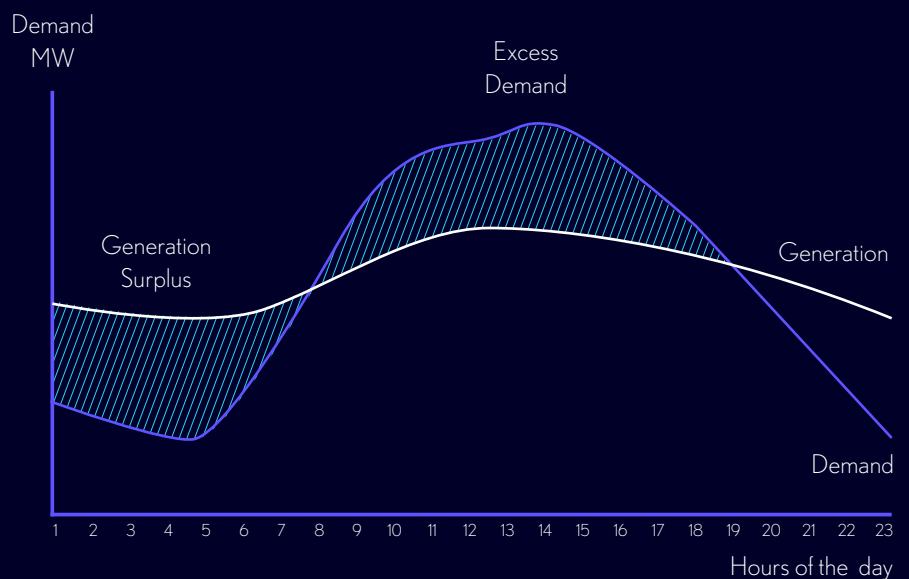
### OVERCOMING LOCAL GRID CAPACITY

Local grids may have limited capacities when supporting the additional energy required for EV charging on top of the existing load. In an unmanaged EV charging environment, only limited number of vehicles can be charged over the peak load and businesses that exceed the Maximum Import Capacity (MIC) could be subject to high fees or receive fines.

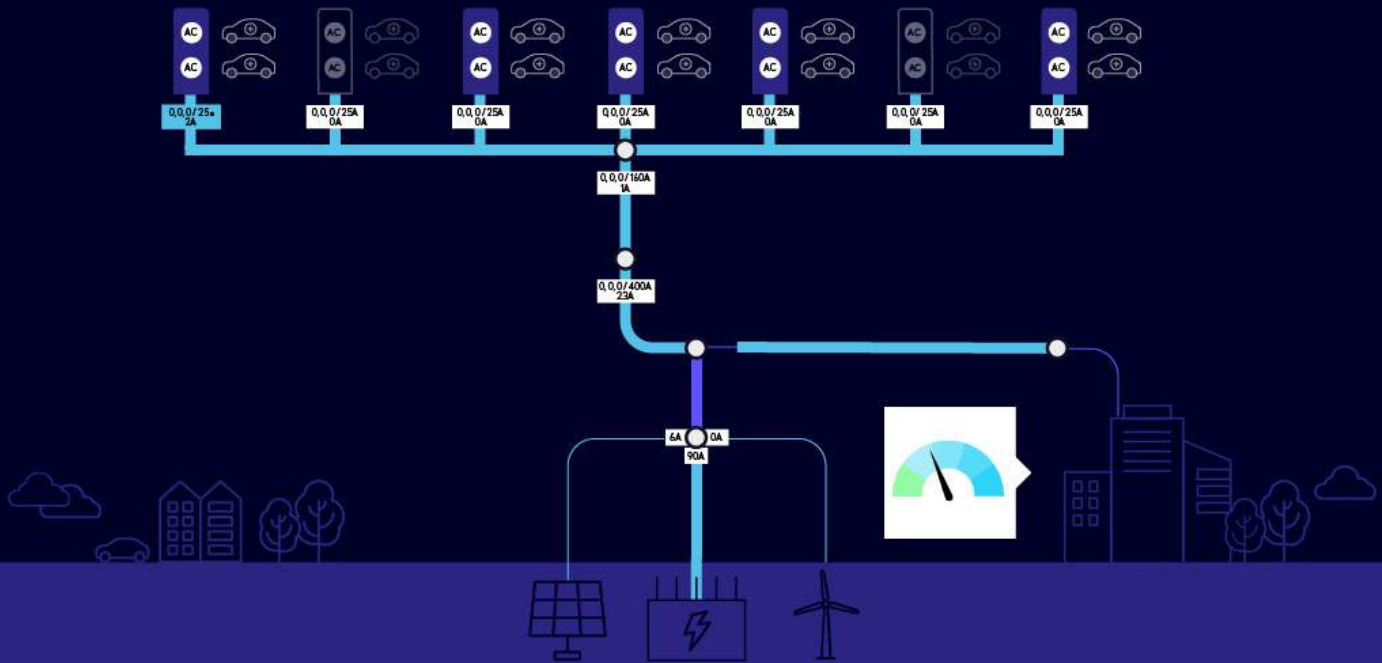


### BALANCING RESPONSE AND DEMAND

The overall amount of energy generated by utility companies is finite. Increasing the generation power is very expensive but it is only during peak times. Smart Charging solutions can balance the demand for energy throughout the day and automatically reduce energy directed to EVs during peak demands. In addition, they can import and direct energy for local storage when energy prices are lowest and can even enable you to reduce your company's MIC—saving you tens of thousands of Euros annually.



## 3 How does it work?



### Driivz SmartChain™ Energy Manager

is a software module that consists of advanced energy management algorithms and demand response (DR).

It performs near real-time load balancing for single chargers, sites with multiple chargers, sites with locally supplied energy from renewable sources and local storage, and complete campuses spanning multiple sites.

It lets you monitor, manage, and adjust energy consumption and provide optimal demand response. Smart charging capabilities allow drivers and operators to manually control the level of power supplied by chargers and energy utilization is visually displayed and adjusted according to EV and site requirements.

### ADDITIONAL FEATURES

#### Dynamically distribute energy to and from the grid

Locally generated renewable energy resources, charging stations, battery storage and all other elements at the site.

#### Realtime monitoring of campus power needs

Vehicle/driver requirements and allocating power based on energy priorities, the vehicles' state-of-charge, the drivers' billing plans and energy priorities.

#### Visual topology display of energy utilization

Control and adjust according to EV and site requirements.

#### Highly flexible and configurable

Smart demand response load balancing algorithm that manages both the vehicle-to-grid (V2G) discharging process and demand response.

#### Management of parking space energy profiles

Using a variety of interfaces and open protocols.

#### Industry-leading support

For vehicle-to-grid (V2G) communications according to global EV charging standards, including OCPP 2.0, openADR 2.0 and ISO 15118.

## 4 EVs for energy storage



The average car is parked about 95% of the day—and EVs are no exception. Vehicle-to-grid (V2G) connectivity offers the potential to manage and optimize the grid by leveraging millions of EVs for energy storage with zero capital cost and zero operating costs.

Smart charging could serve as a focal point for using EVs as decentralized storage resources that can benefit the power system as a whole and minimize, or eventually avoid, grid reinforcements.

**Find out how you could benefit from our SmartChain™ Energy Manager.**

Book a Driivz consultation to find out how we can introduce new business models to your charging network.

[www.driivz.com](http://www.driivz.com)



We are the operating system for global EV charging, unlocking the future of energy management.

Since 2013, we have been developing a future-proofed, intuitive platform with extensive functionality. Our platform ensures seamless driver experience, delivers high reliability and reduces costs for our customers while providing advanced energy management tools and billing operations to generate additional profits.

Supporting the world's largest charging networks as well as new market entrants, the Driivz platform will underpin a smooth transition towards a robust EV charging network, worldwide.

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**Are you looking for more information on the Driivz platform?**

Arrange a consultation with one of our experts via our website

[www.driivz.com](http://www.driivz.com)