

CUSTOMER STORY

Be Power



6000+
charge points installed

18,000+
charge points accessible
via the Be Charge app

Improved efficiency to
grow the network by
6x

How Be Power deploys and operates Italy's second-largest public EV charging network with EMnify

EV charging is on the rise and Be Power is among those who lead the pack. Its subsidiary, Be Charge, is an Italian charge point operator (CPO) and e-mobility service provider (EMSP) that builds and manages a nationwide public charging network and offers EV drivers a simple and fully digital charging experience.

With an ambitious plan to grow its charging network to over 31,000 charge points by 2030 and drive sustainable mobility not only in Italy but throughout Europe, the company doubles down on ramping up its operations across the board.

One cardinal requirement is that the communications between the charging stations and the charging management backend are available and secured 24/7 – no matter what scale is required. To do so, Be Power chooses EMnify as its technology partner.



About:

- Headquartered in Milan, Italy
- Industry: EV charging



Goal:

Contributing to future mobility where drivers can enjoy their travel in a green and sustainable fashion – everywhere



Solution:

A reliable and interoperable EV charging network distributed throughout Italy



Why EMnify:

Connect:

- Multi-network IoT SIM: Reliable charging service round-the-clock

Integrate:

- Data Streamer: Real-time connectivity data for operations, IT, and security teams

Operate:

- EMnify Portal & OpenVPN: Continuous charger monitoring and improved issue resolution

Secure:

- Intra-Cloud Connect: A private charging infrastructure to prevent infiltration and cyberattacks

Committed to the diffusion of e-mobility

Connected via cellular connectivity using EMnify SIMs, Be Charge's charging stations are smart and user-friendly, monitored 24 hours a day by a help desk, and accessible via a mobile application.

Besides a widespread presence in all Italian regions and major cities, Be Charge's goal is to establish a 360° relationship with EV drivers and enable them to travel with peace of mind - leveraging an interoperable charging infrastructure.

Working in synergy with other key market players, Be Charge's network is part of a larger EV roaming network where drivers can access over 18,000 charge points with a single mobile app.

An emphasis on security

"The security of our service and charging stations is at the top of the agenda for us as a CPO," explained Nicola Morotti, Head of IT at Be Power. "We want to implement the best solution possible to prevent anyone from exploiting our geographically distributed charging stations to attack our network and infrastructure."

With EMnify, Be Charge applies two security layers to achieve this end. On the first level, the team restricts SIM use to the modem of the charging station with **IMEI lock**, so it cannot work in unintended devices for identity theft to communicate with the Be Charge platform.

On the network level, the connections between the charging stations and Be Charge's backend are established within a private network where third-party devices cannot infiltrate. ***"We use EMnify's Intra-Cloud Connect to ensure that all our traffic does not break out to the public Internet and remains secure inside the AWS environment,"*** said Morotti.



"EMnify gives us the autonomy that we need to be fast with our operations. Their platform and services are very intuitive, allowing us to execute all integrations and connectivity management tasks easily and independently without much support required."



NICOLA MOROTTI
Head of IT, Be Power

Connecting the dots in EV charging operations

As the second-largest charge point operator in Italy, maximizing service uptime to deliver a delightful user experience while constantly improving operational efficiency are two sides of the same coin for Be Charge to attain rapid growth.

This requires the team to have full control and visibility of every aspect of their business. EMnify's **Data Streamer** brings the connectivity puzzle that Be Charge needs to put together the complete picture of its charging operations.

Real-time connectivity data is amassed and fed into a central analytics tool where it is examined with various other data sources to generate actionable insights for:

- The operations team to maintain reliably working charging stations
- The IT team to effectively manage the charging management backend
- The security team to monitor network traffic and SIM card communication

“At the most basic level, it is important for us to cross-check all the data in our system. For example, if the SIM card is connected but the device is not on our platform, this could indicate a problem on either the hardware or the application.”

“We also compare the number of network events on EMnify’s side with the number of connections and events on our platform to understand if the problem lies in a specific mobile operator. If so, we can put that operator on the blacklist using the EMnify Portal to resolve the issue,” said Morotti.



“All numbers put together in the same room help us improve our business and reduce the manual effort to maintain our infrastructure. To grow our network more than six times, our operations need to scale accordingly.”

– Nicola Morotti
Head of IT, Be Power

Taking reliability and efficiency up a notch

Having fine-grained visibility into its operations is just one way for Be Charge to ensure the availability and scalability of one of Italy's largest EV charging networks.

From testing and provisioning new devices to triaging and maintenance of existing charging stations, Be Power's team look to optimize their processes every step of the way.

"The SIM cards are integrated into the charging stations already from production for quality assurance. Using EMnify's API, we can easily automate SIM provisioning and activation, which otherwise would be a massive workload for us," explained Morotti.

When it comes to charging stations that have been up and running in the field, the ability to execute diagnostics and troubleshooting from afar when malfunctions arise saves significant time and costs for the team.



"EMnify's OpenVPN integrates OCPP functionality to give us more flexibility and possibilities in remote maintenance of the charging stations, for example getting charger live logs and configuring components like the LCD display. It is integral to our daily operations."

– Nicola Morotti
CIO, Be Power

