



We are Greencharge

Greencharge CEO

Andreas Varkevisser

We vowed to dedicate ourselves to the rEVolution and contribute our share to ensure a zero-emissions future through Greencharge. This mission is to ensure a liveable planet and sustainable society for our future generations to come for our children and their future children in Korea and beyond.

To realize this goal we directly collaborate, partner and represent the global leaders and pioneers in advanced electric vehicle charging infrastructure solutions who have been building the global charging infrastructure from the very beginning over 15 years ago.

Powered by the global leaders in electric charging for personal cars, electric buses, heavy duty vehicles and industrial vehicles, Greencharge takes a leapfrog on smart and future-proof charging solutions and charging management providing services that will take Korea by storm as it has done the rest of the world.

Building interconnected EV charging infrastructures from the ground up is what we do and is embedded in our DNA. We focus on building regionally, city and even nationally wide charging infrastructures with a mature and smart slow, rapid, fast and ultrafast charging sites balance.

Our advanced smart charging solutions backed by our leading cloud-based platform, Greencharge Platform charging management software, we are ready to disrupt the Korean EV charging market.

We intend and vow to build a Korean society where the public opinion on driving an electric vehicle is the standard and where it is as easy and carefree to drive an EV as driving a gasoline car and realize the rEVolution!



Who is **EVBX**?

YOUR **PRODUCT IS** 10X **BETTER** THAN THE COMPETITION.

YOUR CUSTOMER EXPERIENCE 10X LIGHTER THAN THE COMPETITION.



In 2010, EVBox made its breakthrough when the market for electric vehicles (EVs) was still in its infancy. Techies at heart, our founders saw the importance of having a connected charging infrastructure at an early stage. EVBox soon became the sole supplier of public charging infrastructure in cities such as Amsterdam, Rotterdam and Monaco. Meanwhile, EVBox played an active role in creating and innovating Smart Charging technologies and roaming of charging infrastructure with industry partners.

In 2017, EVBox was acquired by energy utility and global service provider ENGIE, who identified EVBox as a disruptive, leading cleantech company making a difference in the fast-growing industry of electric mobility. Today, with projects running across Europe, North America, South America, and Asia, EVBox moves forward by perfecting its original recipe with a second generation of hardware and software that are energy efficient, future proof, and easy to use.

Now by 2020, we have over 100.000 charging stations installed worldwide and over 3.000.000 active users. But we are only just beginning and on the eve of a new era. Our mission to realize the rEVolution and our vision of a zero-emission world is only just taking off.

2012

- EVBox starts powering Amsterdam & Roterrdam
- 6.000+ CPs



EV Charging Global Leader

2014

- Glide Equity Management become new shareholder
- International expansion starts
- 15.000+ CPs

2016

- EVBox consolidates Netherlands market leader position and expands to the UK, France, BeLux, DACH, Nordics & North America
- 40.000+ CPs

2017

- EVBox acquired by ENGIE
- 2nd generation of charging solutions (Elvi & Everon) introduced.
- 50.000+ CPs

2018

- EVBox enters fast charging market (Acquisition of EVTronic)
- Rollouts 2nd generation of products
- 60.000+ CPs

expands to 55+ nations 10 overseas branches (USA, UK, France, Germany, Spain, Italy, Belgium, Norway, Denmark)

100+ business partners over the world Benz, Volvo, Nissan, Tesla, Renault, Groupe PSA, BMW, Volkswagen, NIKE, Macdonalds and etc

100.000+

100.000+ Cumulative Charging Points CPs 100.000+

1.500

1.500+ Fast Charging Points

MON

Pioneer

2017 BloombergNEF New Energy Pioneer Winner

BNEF Pioneers (formerly known as the New Energy Pioneers) identifies game-changing companies globally in energy, transport and sustainability. Winners are chosen by a panel of industry experts from, academia, corporations, utilities, finance and technology incubators.

EVBox provides a full hardware and software solution for EV charging infrastructure. EVBox utilitizes open standards to integrate with multiple network providers throughout the world. The combination of lowering barriers to purchase a charger, the flexibility for the end user and a focus on scalability has led to charging stations in 31 countries in over 980 cities by 2017.



In 2017, EVBox went global and so did our social media, with a monthly average reach of over 170.000 viewers. Here is a look back at some of our favorite #EVproud moments, featuring charging stations and EVBoxers who are off to conquer the world!







Global Leader



Official partner of NIO-Formula E team

"We are very proud of becoming the NIO Formula E Team's first sponsor. Both NIO and EVBox have a profound belief that the automotive industry is on the brink of fundamental change. Both organizations believe that the future of mobility is electric and want to accelerate such transition in all continents, starting with North America, Europe, and Asia. We see this sponsorship as the first step in what I hope and expect will be a very successful partnership between NIO and EVBox. The future may even include partnering on more projects, specifically in regions such as EMEA and the Americas." Kristof Vereenooghe, CEO of EVBox

EVBox first worldwide company to achieve OCPP 1.6 certification by the Open Charge Alliance

The goal for OCPP is to offer a uniform solution for the method of communication between a Charging Station and Charging Station Management System (CSMS). With this protocol it is possible to connect any CSMS with any Charging Station, regardless of the vendor. "EVBox has been a strong supporter of open standards like OCPP because it increases interoperability and accelerates EV adoption—a great benefit for all of us working in this industry. Our teams are working in close cooperation with the open charge alliance to stay at the forefront of OCPP implementation. We're super proud to become world's first company to get certified for OCPP and we will continue helping to push the standard forward!" Arjan van Rooijen, CTO of EVBox

rEVolution

rEVolution is the annual, international networking conference, powered by EVBox, showcasing the latest upcoming developments in e-mobility.

Each year, the sector's best and brightest gather in Amsterdam for a full day of inspiring presentations and conversations aimed at answering the question: "What can we do to accelerate the race toward a zero-emission future for transportation?" Featuring a variety of keynote speakers that cover everything from global market predictions to best practices for EV adoption amongst consumers and businesses.

Premium Design & Innovation













"At EVBox we dedicate a lot of resources into our product DNA and design to give our customers the best possible charging experience possible. To not only win the CES Innovation Award, iF Design Award, but also the very prestigious Red Dot Award confirms that we are on the right path. I'm especially proud of our product team and of our design partner VanBerlo for this great success!" Kristof Vereenooghe, CEO of EVBox

Premium Quality & Reliability

Charging stations of EVBox have a record uptime of 99.8%. This is why cities like Amsterdam and Rotterdam have been operating our charging stations for years across the region. Charging stations of EVBox do not require much maintenance thanks to their modular, vandalism-proof, non-flammable and discoloration-proof design. All charging stations allow remote maintenance and software update.



Sustainability

Journey to zero emission transport

We have developed a brand-new travel policy at EVBox in accordance with our status as a scale-up. We are encouraging team members to challenge themselves on if flying is really necessary on their business trip. For example, it is mainly replaced by video call unless it is necessary to meet in person. Our staff members are encouraged to use bicycles or public transportation when the business trip is in the same area or short distance, and to use electric carsharing(carpool) when we travel with others. Also, if the total travel time does not increase by more than 25% compared to the airplane, we are traveling by train. Through these efforts, we have saved a total of 5.5 tons of CO₂.

1 Charger, 1 Tree

Trees help clean the air, filter the water, and provides habitat for many animals. Trees also absorb carbon dioxide from the atmosphere, reducing the effects of

climate change and cooling the

planet. That is why in 2018, we pledged to donate one tree for every charging station we place. To date, we have donated a total of 15.000 diverse trees (native to the region) to California and Portugal to help increase local biodiversity and restore the forests that were heavily

affected by wildfires in 2018.

Chargers to the rescue

In 2018, we installed the world's first AED-equipped charging station in the city of Delft, the Netherlands. Many AEDs are currently still located inside buildings, therefore have limited access, especially outside of business hours. This was why Delft-based City AED took action by equipping EVBox's public charging stations with AEDs, improving national AED coverage and providing first-aid helpers with easier and quicker access.



Case Study

EVBox offers an optimal EV charging solution for a wide range of customers.



Charging Network

EV ultra-fast charging with Allego (Germany)

- one of the largest providers for e-charging solutions in Europe
- 32 ultra-fast charging stations
- Europe's 1st public high-power charging location
- 400 km charged in 15 minutes (350 kW)



Charging Network

Charging Network with PG&E for electric cars in California (USA)

- one of the largest combined natural gas and electric energy companies in the USA
- a budget of \$130M
- 7.500 new level 2 charging ports



Workplace

Charging electric cars at Nature's Pride

(Netherlands)

- 32 dualcharging points
- 35.8% usagecharging points per week
- 40% of company-owned cars are PEVs
- 6.7 kWh av. consumptionper charging point



Renewable energy / Geothermal Heating

Charging electric cars at SGHC (UK)

- 6 dual charging points
- 45 energy users both public and private
- 10,000 tones of CO₂ emissions saved each year
- 26 GWh of electricity per annum



Renewable energy / Solar

Charging electric cars at LACI (USA)

- 14 dual charging points
- 100+ EVs per week
- 100% solar powered
- 72 portfolio companies supported



Restaurant

Charging electric cars at Courtepaille (France)

- 10 charging points
- 195 branches
- 100% renewable energy
- 15.000.000 meals served yearly



Parking lot

Charging electric cars at Timmerhuis (Netherlands)

• 20 dual charging points

- 1 large indoor parking lot
- Smart charging as key feature



Charging electric cars in Amsterdam (Netherlands)

- 2.000 charging points
- 20.000 electric vehicle drivers
- 400 full electric taxis
- 30.000 charging sessions / month



Charging electric cars in Rotterdam

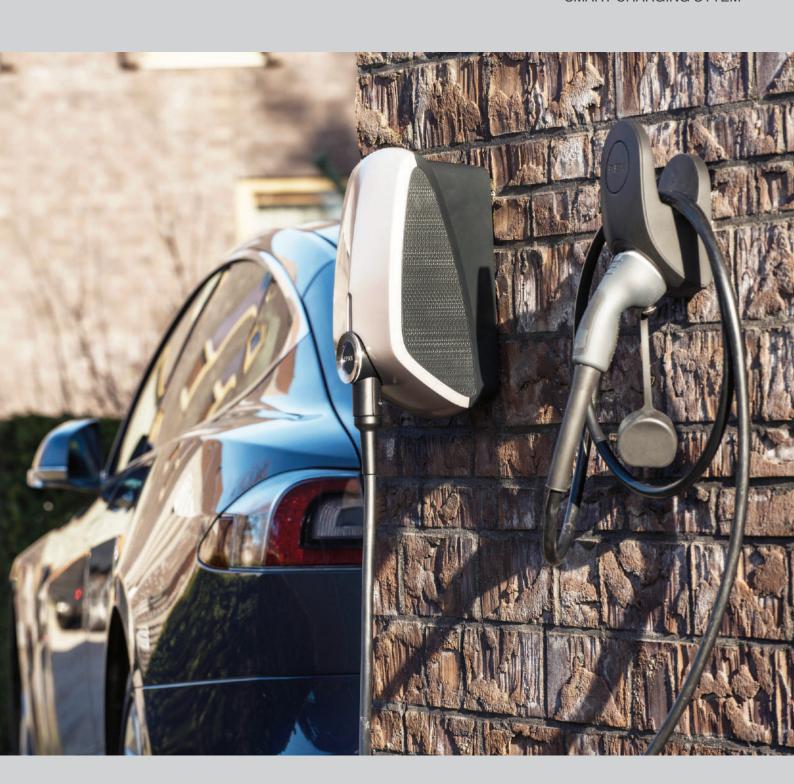
(Netherlands)

- 1.950 charging points
- 1 wireless charging pilot
- 100 Evs for their own fleet
- 10.000.000+kWh charged per year



Product Portfolio

AC CHARGERS
DC FAST CHARGERS
DC HIGH POWER CHARGERS
GREENCHARGE PLATFORM
SMART CHARGING SYTEM



Upgradeable power output technology

Electric vehicle batteries are advancing before our eyes, showing higher range capacity and requiring higher charging levels per new model. As a result, many electric vehicle drivers will require a change or upgrade of their local charging infrastructure in the upcoming years. Not with Elvi, Elvi is designed with the next generation of EVs in mind, allowing the station owner to increase power output up to 22kW.

Fully connected, interoperable ready and smart

Elvi embodies all the latest industry trends. It's ready for interoperable charging cards (roaming) and other charging networks. Elvi is connected to a fresh and new cloudbased platform, Greencharge Platform and has all the smart charging technology already featured within the EV-Box product line, such as dynamic load balancing.

A modular disruptive design

Elvi is built up from 3 different components: the wall dock, the charging station and the charging cable. The wall dock can be pre-installed by electricians prior to the arrival of the charging station module, after which the EV driver can easily click on the charger and attach the charging cable. This allows for easier and more timely installation at home as well as in condominiums.



Elvi

"Designed to charge any new electric car coming into the market for the next 10 years. Elvi delivers a new charging experience, its breakthrough upgradable technology is a unique feature in the e-mobility industry."

Elvi

HomeLine

BusinessLine



3.7 to 22 kW



1 connector



Socket & Fixed cable



WiFi - BLE - UMTS - LTE



OCPP Protocol



RFID Reader



Wall & Pole mount



3.7 to 22 kW



1 - 2 Connectors



Socket & Fixed cable



UMTS / GSM - LTE



OCPP Protocol RFID Reader



Wall & Pole mount



PublicLine



11 - 22 kW



2 Connectors



Socket



UMTS / GSM



OCPP Protocol



RFID Reader



Free standing



Iqon



7 - 22 kW



2 Connectors



Fixed cable



WiFi - BLE - LTE



OCPP Protocol



RFID Reader / QR / NFC



Free standing



DC Charger

Troniq 50

50kW fast charging capacity

Flexible architecture

Tariff settings

Universally compatible

Roaming

Utility power cabinet

Auto-retractable cables

Easy transportation, installation and maintenance

Advanced cooling and heating system

Remote maintenance

Smart queuing

Optional battery storage



Troniq 100

New Arrival



Flexible architecture

Tariff settings

Universally compatible

Roaming

Utility power cabinet

6 Auto-retractable cables

> Easy transportation, installation and maintenance

Advanced cooling and heating system

Remote maintenance

Smart charging capable



DC High Power Charger

Ultroniq

175-350kW fast charging capacity Flexible

architecture

Tariff settings

Universally compatible

Roaming

Auto-retractable cables

Liquid cooled cable

Easy transportation, installation and maintenance

Advanced cooling and heating system

Remote maintenance

Smart charging capable



Ultroniq

New Arrival



architecture

Tariff settings

Universally compatible

Roaming Auto-retractable cables

Liquid cooled cable

Easy transportation, installation and maintenance

Advanced cooling and heating system

Remote maintenance

Smart charging capable



Tenant / white labeling options for both mobile and desktop



Proposition configuration

Integration with any CPO



User & account management



API platform and integrations



Billing, invoicing & handling

of charging transaction





Greencharge Platform

Easy, efficient, and insightful Greencharge Platform is a widely customizable platform that helps every charging point operator to easily manage and control all charging sessions, costs, and power consumption.



Hub/Satellite for cost effective operation

Operate multiple charging stations cost effectively with the Hub / Satellite configuration, which connects up to 20 charging points per location through a single communication device. This will substantially improve and facilitate the management of all charging stations.



Load Balancing for smart power distribution

Distribute the available capacity per location proportionally over all charging stations in use with the Load Balancing service. This service ensures that each car is optimally charged within the limits of your charging stations' and facility's capacity.



Peak Saving for overcapacity power

Prevent peak usage and avoid overcapacity fees with the Peak Shaving service. This service allows you to set up a maximum capacity for your charging stations during the day. This way, you ensure that you will not exceed the limits of your property's maximum capacity, even during peak hours.



Smart Charging System

Cost and energy saving services

Smart Charging defines all intelligent functionalities in our charging stations that help you to optimize the charging process, making it an indispensable feature for operators of multiple charging points.

Smart Charging creates and distributes the available power in an efficient and flexible manner. Thanks to this, you will be able to avoid unnecessary costs such as overcapacity fees charged by grid operators, and you will get the most out of your charging stations in case of limited power capacity, any time, any place.

Load Balancing

Load Balancing prevents overcapacity, by distributing the available capacity equally over all charging points at a given location. This makes it an indispensable Smart Charging feature for anyone that operates multiple charging points at a location with limited power capacity. If this situation is applicable to you, EVBox and your installer can offer you this service upon request.

Priority Load Balancing

Priority Load Balancing distributes the available capacity in a more flexible manner than the "traditional" Load Balancing. This means that the 5th car in the infographic above, will now be able to start charging right away, even if the scenario remains exactly the same.

For the end-user, Priority Load Balancing influences the way the car's charging, as well as the LED status indication and any in-app notifications that informs the end-user of his/her charging status.

Here's how it works in practice:

here are 5 charging points at this facility. There are 4 cars charging. This facility has 28kW available in total. We always make use of the full capacity. So in this case, 4 cars start charging at 7kW each.

7kW 7kW 7kW 7kW

The 5th car enters and needs to charge at a minimum of 7kW. This would require an availability of 35kW in total. But we only have an availability of 28kW in total. How do we solve this?

7kW 7kW 7kW 7kW

We evaluate the charging status of each car within just 2 minutes. Now we see that the $2^{\rm nd}$ car has consumed the most. So we queue the $2^{\rm nd}$ car, to allow the 5th car to start charging.

NOTE: If your car is queued, the LED ring flashes yellow. Your car app notifies you that your car has stopped charging. Don't be alarmed, your car will start charging again shortly.

7kW QUEUE

Once every +/- 15mins, we evaluate the charging status of each car again. This time, we see that the 1st car is fully charged. So we release the 2nd car from the queue. The 2nd car starts charging again.

STOP 7kW 7kW 7kW 7kW

