



Zevolv

**Creating a Portable Charging Solution for EVs,
Powered by Renewable Energy**

Zero Emission Solutions Are Increasing in Demand from Consumers and Governments Alike

By 2050, half the cars on the road globally, a billion in total, will be battery-powered, states Morgan Stanley.

This could happen even sooner, as many governments are phasing out ICE models in favour of EVs.

Falling battery costs mean that the total cost of EV ownership will soon hit parity with ICE models, leading to the infrastructure being built sooner than later.



The Zevolv Solution – 20M EV On and Off Grid Charging Stations needed by 2021 Globally

Zevolv are developing and patenting a **portable EV charging system** which is charger agnostic, to charge EVs **off-grid, using renewable energy**



EV Microgrid Needs to Meet the Growing Demand

Zevolv EV charging points will allow for a geographically well-spread network, helping EV owners avoid "range anxiety"



The Zevolv Off Grid Solution will:

- Enable Faster and Easier charging
- Store energy powered by renewable energy
- Be User Friendly, Weatherproof, and safe - sporting emergency alert buttons, wifi, Point-of-Purchase sales displays, advertising displays, and other amenities (Current Charging Time = 30mins)



Energy use will be optimized through our robust AI blockchain built by **THOUGHT AI**

We will analyse all data from the BMS, or Battery Management System, charging and traffic data, ensuring the most efficient renewable energy microgrid in the world.



We have an LOI With Phoenix Contact

Phoenix Contact is a multi-billion-dollar company and one of the Largest and Innovative market leaders in the EV charging space.

We have partnered with them to make our prototypes.



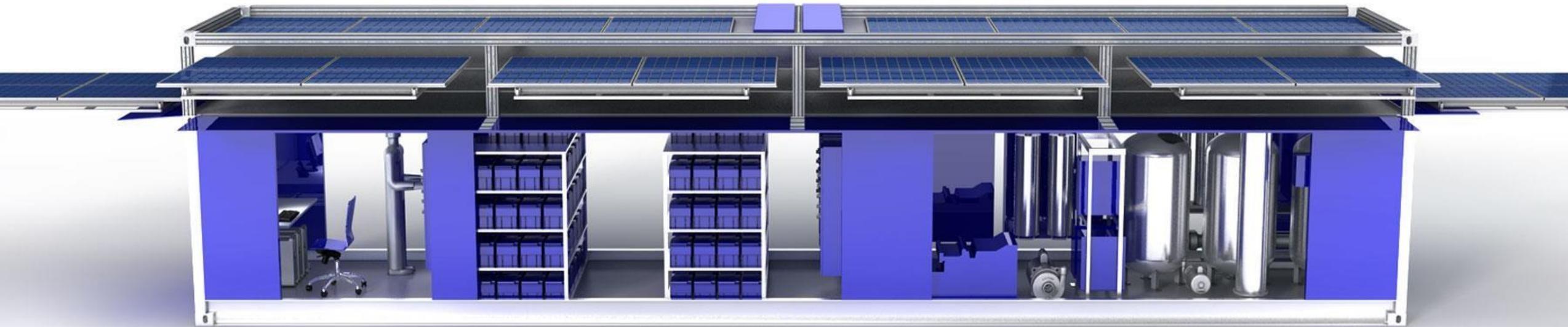
Why this is growing market:

- The global stock passed the 5-million mark in 2018, with 45% of electric cars on the road located in China
- 228 million EVs (excluding two- and three-wheelers), mostly LDVs, will be sold by 2030
- Several national governments pledged their intention to end sales or registrations of new internal combustion engine vehicles between 2025 – 2045.
- A number of local administrations have pledged to implement restrictions prohibiting access to certain areas for ICEs (Internal Combustion Engine) by 2030.
- There are only 100,000 charging stations in EU and 76% of those are in France, the UK, the Netherlands and Germany.
- Increasing the maximum speed of charging to ultra-fast charging (300-400 kW) is a desirable feature that would decrease the performance gap of EVs compared to ICE vehicles.



Charging Station Prototypes

Easy to transport – drop and take away. Anti-theft tracking system. Great for events, too! PLUS! If out of use in years to come, can convert to homes!



User Interface and Software

- User interface: Anti-glare, colour, anti-vandalism LCD touch screen
- Payment accepted: Credit, Debit, Cryptocurrency including (ZLX), Contactless payment
- Network connection: 5G/Ethernet

- Integration: Thought's AI (artificial intelligence) fabric
- Charger: Detecting when ideal charge level is reached and what car is plugged
- Remote maintenance: 24/7 support call or emergency button

Off-grid Charging unit

- Green energy on spot: Combined solutions - (solar, wind, bio, hydro etc.)
- Energy saving: Battery for storing the energy for higher demand
Advanced Energy Storage Solution

- Unit: Easily transportable (pop-up station)
- Compatibility: 1-2 chargers minimum
- Design: Emergency Call Buttons
Sides to them to guard against inclement weather
Digital Advertising Opportunities



Technical Specifications (SPECS ARE IMPROVING AS WE DEVELOP):

- Inexpensive: Less than £10,000 GBP final product
- Maximum AC output power: 22 kW
- Maximum DC output power: 350 kW
- Efficiency: >95% - 100%
- Charge socket: Universally compatible multi standard socket
- Compliance: CCS type 1 & 2, CHAdeMO, GBIT, AC, Tesla, type 1 & 2.
- Cable length: 4m-5m auto-retractable cables
- Charging option: Up to four cars can charge simultaneously
- Operating temperature: Around -35 °C to +55°C
- Environment: Outdoor
- Protection grades: At least IP54
- Safety: CE, Tested far beyond industry standards to deliver the highest quality products.
All elements are RoHS compliant.
- 3D projector: For high t
- Heating system: TBD
- Operational noise level: very low
- Weight: TBD
- Dimensions: TBD



The Zevolv Team



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