



Nasdaq & TASE listed: "ZOOZ"

**Enabling
Widespread
Deployment
of Ultra-fast
EV charging.**

May 2024



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We develop,
manufacture & market

Revolutionary Power Boosters

Enabling & accelerating
**widespread
deployment of
EV ultra-fast charging.**

**Today. Anywhere.
For Good.**



ZOOZ at a Glance (April 2024)

HQ in
ISRAEL

Employees
~40

Patents
26 +1 Pending

Publicly Traded
in Israel since
March 2021



Following
IPO on TASE

Listed on
Nasdaq
April 5, 2024



Following
De-SPAC Deal

Cash in Bank⁽¹⁾



~\$14M

As of April 2024

Monthly Cash Burn Rate



~\$0.7M

As of Q1/2024⁽²⁾

Notes:

- (1) Cash in Bank, as of April 2024, is based on cash by end of 2023 (\$6.6M), plus \$10M net cash received following the De-SPAC deal, minus expenses in 2024
- (2) Subject to change, based on company operations' needs.

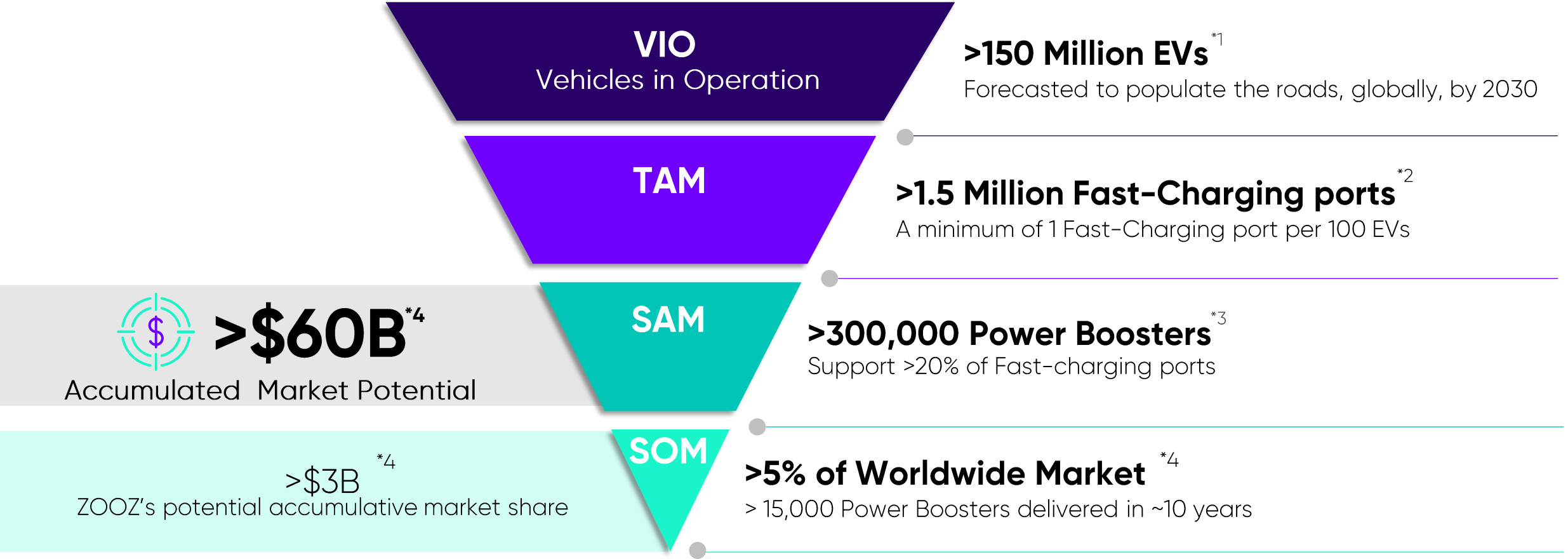


The EV revolution is accelerating

- Public Fast-charging infrastructure is critical to enable transition to EVs
- New EV models are designed to support ultra-fast charging, to boost adoption.
- Ultra-fast charging infrastructure is a significant challenge to the limited grid
- Growing gap between EV adoption and lagging public charging infrastructure



Market Opportunity



 **>\$60B^{*4}**
Accumulated Market Potential

>\$3B^{*4}
ZOOZ's potential accumulative market share

ZOOZ – First to market with a non-Battery-based, fielded & cost-effective Power Booster

Note: The provided information is forward looking as defined in Securities Law, Section 32A, Section 27A of the Securities Act, Section 21E of the Exchange Act and the U.S. Private Securities Litigation Reform Act of 1995, as amended. It may not be materialized as presented.

^{*1} Bloomberg NEF – Electric Vehicle Outlook 2022

^{*2} Recharge EU p.32

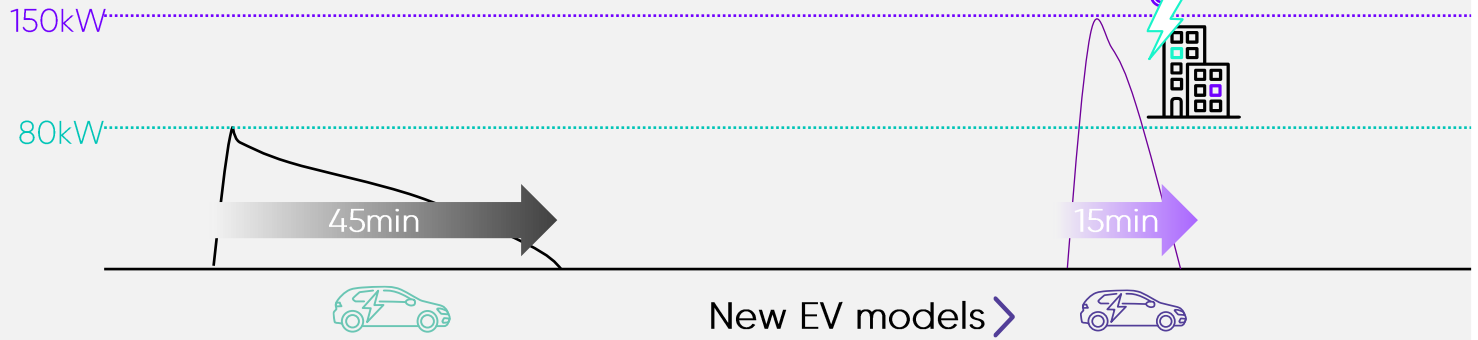
^{*3} Based on ZOOZ's customer input
May not represent actual results.

^{*4} Company forecast of accumulated potential by 2033



EV Fast-Charging – Growing Challenge To Grid

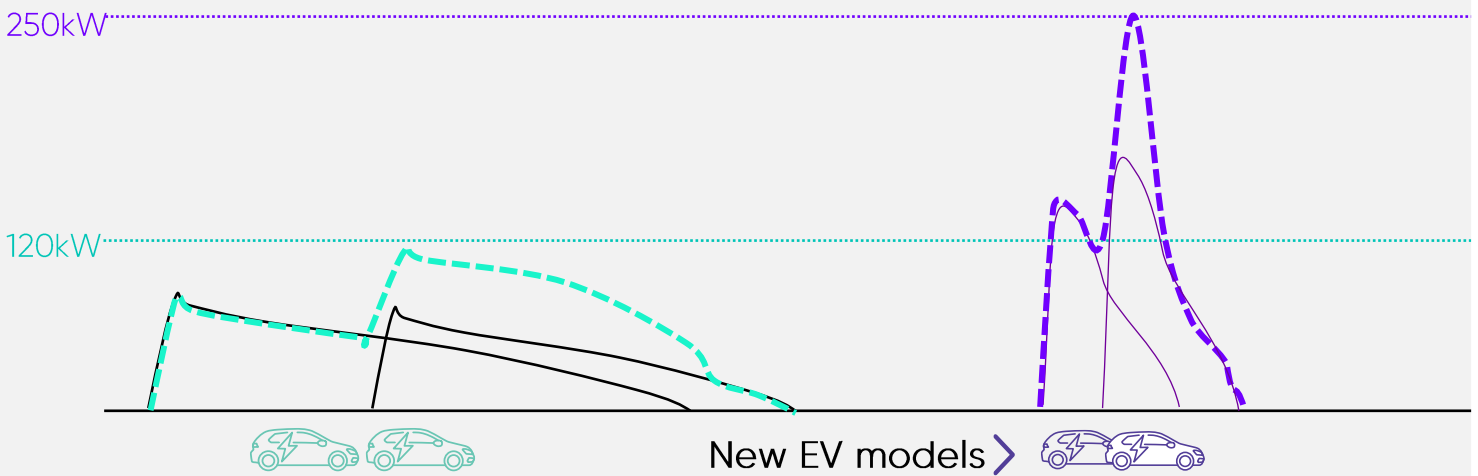
Typical EV charging curve



Ultra-Fast Charging – a power challenge
(rather than energy-limited)



Combined charging pattern of multiple EVs

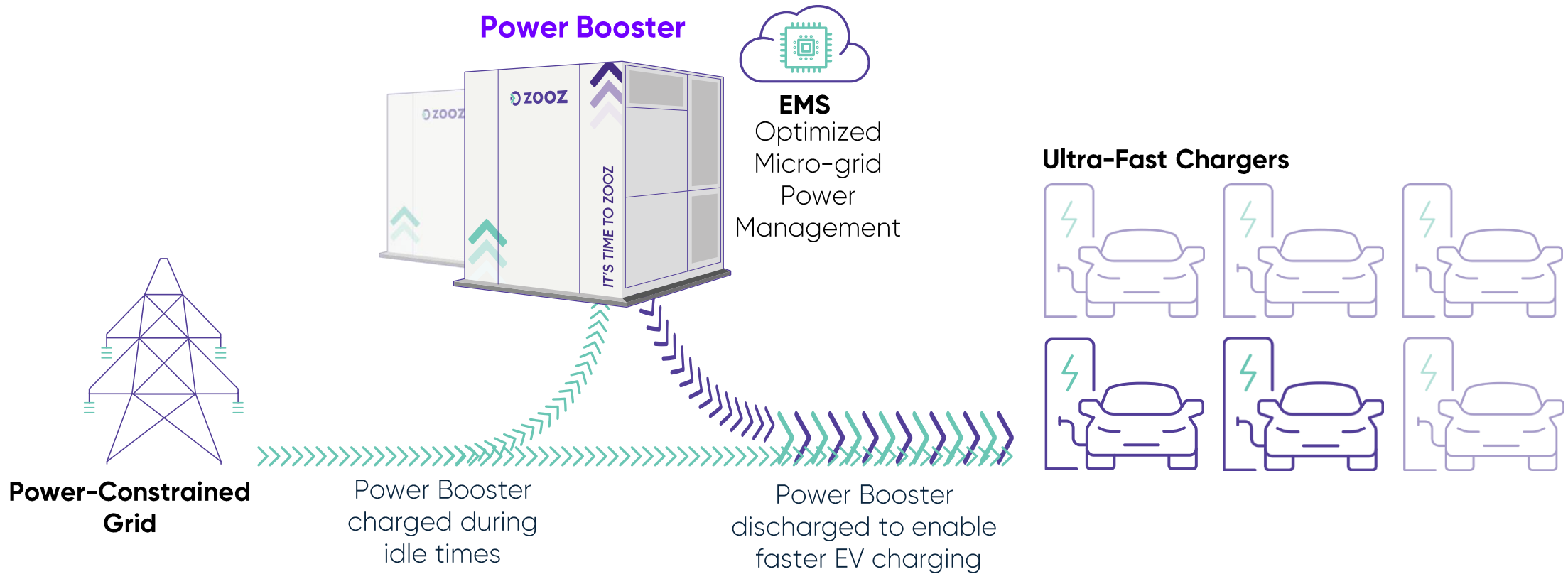


Upgrading the grid for very short peak-demand is Inefficient & Impractical



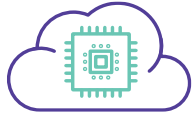
(*) Assuming an average household's power consumption of 3-5kW

Enabling **Widespread Ultra-Fast Charging. Today.**



Enables ultra-fast charging, even at power-limited grid

The Kinetic Power Booster ZOOZTER™-100



ZOOZ Energy Management System (EMS)



x8

ZOOZ Flywheel

26 patents + 1 pending



Sustainable-Non-chemical



Durable & Reliable



Cost Effective



Flexible & Modular

Enabling & Accelerating Ultra-Fast EV Charging

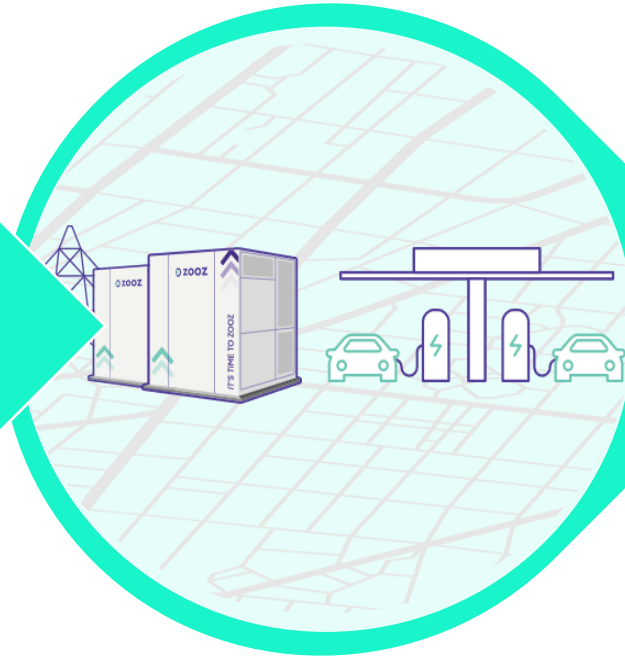
Go-To-Market

Geography



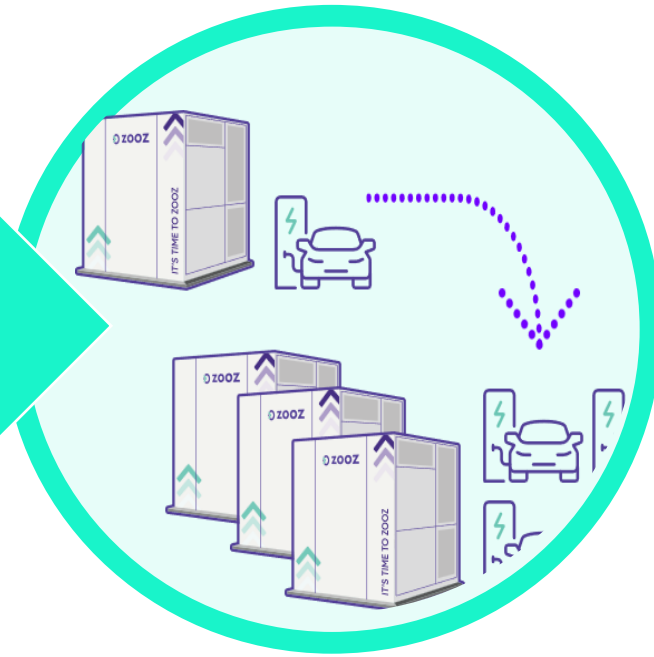
- **Started –**
Germany, UK, and US markets
- **Next –**
China & other West-EU markets

Verticals



- **CPOs (& Utilities)**
- **EPCs**
- **Fleets**
- **Business Operators**

Growth



From **Pilots & Turnkey installations**
to
Scalable opportunities

The Challenge:



Ultra-fast charging is critical to enable the transition to EVs



But grid infrastructure cannot support it



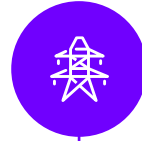
The "Common Solution":

(unless the location is skipped due to limited grid)



Grab the land

Based on risky utilization growth assumptions



Wait for grid upgrade

Needed for "future-utilization"



Build the site

High CAPEX (for high-utilization configuration)



Gradual increase of utilization

Depends on various factors (risk on CAPEX ROI)

Loss of potential revenues

Risk of losing position & market share

Value Proposition - CPOs

➤ Accelerate Charging Network Deployment

- Grab more land, faster.
- Defer grid upgrade.
Electrify sites earlier.
- Be agile and flexible
with re-deployable boosters.

➤ Increased sales, decreased expenses

- Be more attractive
(with Ultra-fast chargers).
- Grow utilization (& sales) faster.
- Grow CAPEX gradually.
- Reduce OPEX while using
assets with minimum TCO.

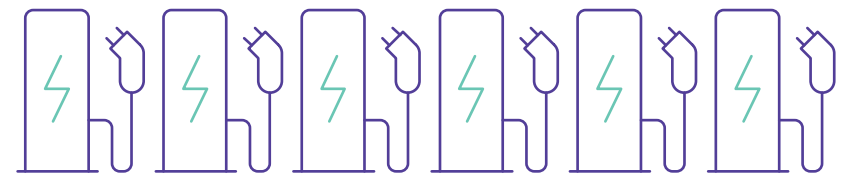
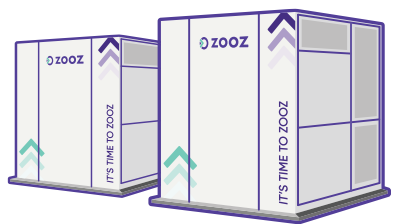
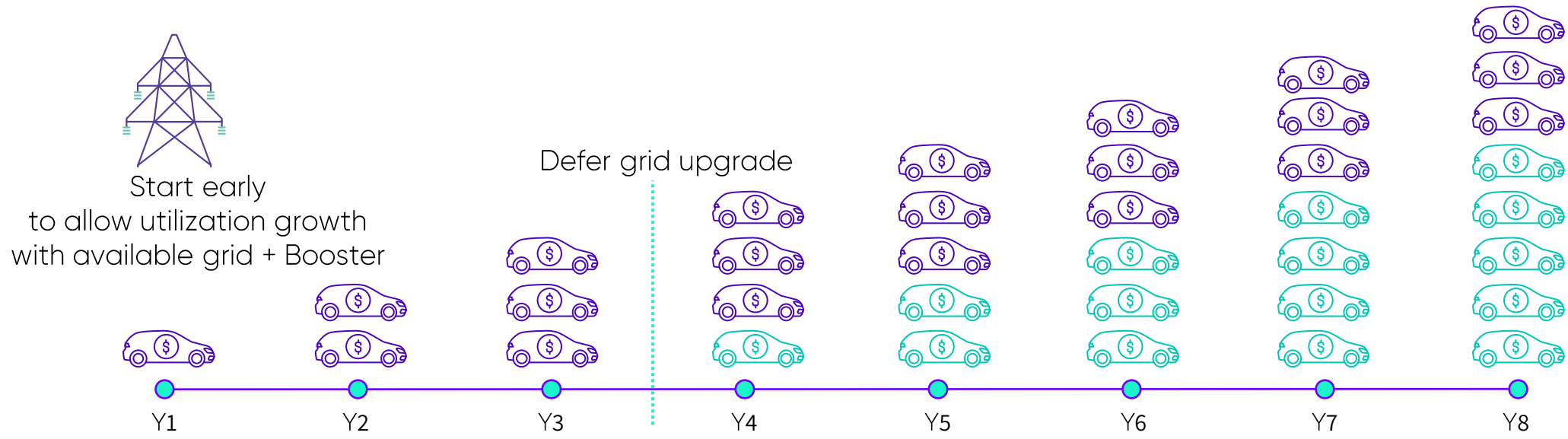


Value Proposition - Fleets

- **Accelerate fleet electrification to meet Net Zero goals**
 - Defer grid upgrade. Electrify sites earlier.
 - Faster transition to in-depot charging.
 - Be agile and flexible with re-deployable boosters.
- **Greater Operational Efficiency & OPEX Savings**
 - Minimize reliance on limited-availability & costly public charging infrastructure.
 - Cut charging time and optimize schedule.
 - Flexible and modular infrastructure growth, tailored⁽¹⁾ to unique site challenges.



Enabling Ultra-fast Charging. Today.



- Utilization rate attributed to ZOOZTER
- Utilization rate attributed to grid upgrade

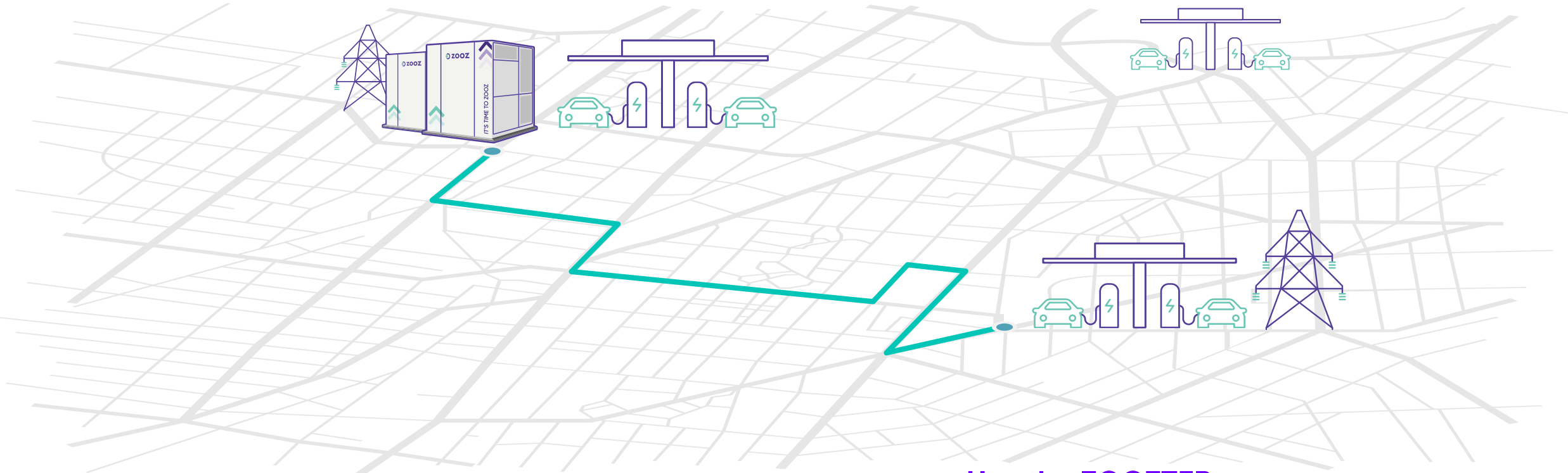
ZOOZTER™ -100 + EMS

- Enables early initiation of sites
→ Increased sales & faster expansion
- Incremental CAPEX investment optimized to utilization growth
- Defer grid upgrade until justified by utilization growth



Note: The presented graph is only for illustration purposes

Accelerating Network Growth



Keep the ZOOZTER on site

- To facilitate utilization increase (more chargers deployed)
- To reduce electricity cost (avoid demand charges)

Use the ZOOZTER as a re-deployable asset

- Faster “land grabbing” – to accelerate network growth
- Accelerate revenues growth

Business model geared towards long-lasting partnership

Market penetration stage –
Pilots / “Test & Buy” / Turnkey

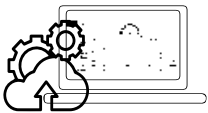
15 years expected equipment lifetime



Power Booster
Equipment
Deliveries

Upfront Purchase
Inc. standard
2-year warranty

Extended Warranty Agreements enabling customers to benefit
from peace-of-mind and minimal total cost-of-ownership
along product expected 15-year lifetime



SW Solutions

“Stand-alone” EMS & SW
pack. to enable Booster sales

Add-on to partners’ management SW, to enable: smart local EMS,
demand charges reduction, remote monitoring, SW updates, etc.



Professional
Services

Site / Asset
Make-ready,
Integration &
Commissioning

- Service level agreements (inc. training local partners)
- Site expansion support
- Re-deployment services

- Preventive Maintenance service
- Out-of-warranty services
- Proprietary spare part sales
- Site expansion & Re-deployment services

1st Commercially Operating Site in Israel



➤ In cooperation with



➤ By Afcon & Dor-Alon



Israel's leading ultra-fast charging network operators



Expanding Collaboration with "ON" Charging Network



- Collaborating with "ON" – the leading ultra-fast Charging network in Israel
- ZOOZTER™-100 systems & ZOOZ-EMS enable "ON" to upgrade its charging sites on Road #6 (Israel's main transportation corridor)
- Sites to include more charging ports, allowing faster charging, despite grid limitations.



Moving Forward in the European Market



- Started commercial sales in Germany in 2023
- 4 ultra-fast charging sites, enabled by the ZOOZTER™-100
- Built in collaboration with major German CPOs – Mer & Parkstrom
- Sites are used for demonstrations to additional EU customers & partners.



1st Entry to the UK Market



- Site owned & operated by Osprey Charging, one of the top-3 CPOs in the UK market
- ZOOZTER™-100 enabled site's upgrade to ultra-fast charging.
- Site is leveraged for demonstrations to potential customers & partners in the UK.



Moving Forward in the US Market



- 1st site started commercial operation in Rock Hill, South Carolina, as part of a Pilot with ARKO Corp. at a Scotchman Gas Station and Convenience Store
- Site is used for demonstrations of the ZOOZTER™-100 solution to potential US customers.



Moving Forward in the US Market



> Additional Pilot sites, expected in 2024:

Car Rental Giant



Global Rental Service Provider

Largest US Utility

Leading CPO in the US and globally

@ LaGuardia Airport, NY.

@ NYPA facility, Marcy, NY

@ Ft. Lauderdale, FL.

Q2-Q3/2024*

Q2/2024*

TBD**

* Company estimation, subject to changes
** Permit was not yet received, site may be changed

Experienced Leadership Team

Proven track record of scaling high-growth high-tech companies



Avi Cohen

Executive Chairman



Boaz Weizer

Chief Executive Officer



Ruth Smadja

Chief Financial Officer



Ilan Ben David

Co-founder & Chief Technology Officer



Eyal Blum

Chief Revenue Officer



Udi Tzuri

VP Product & Marketing



Tal Harmon

VP Research & Development



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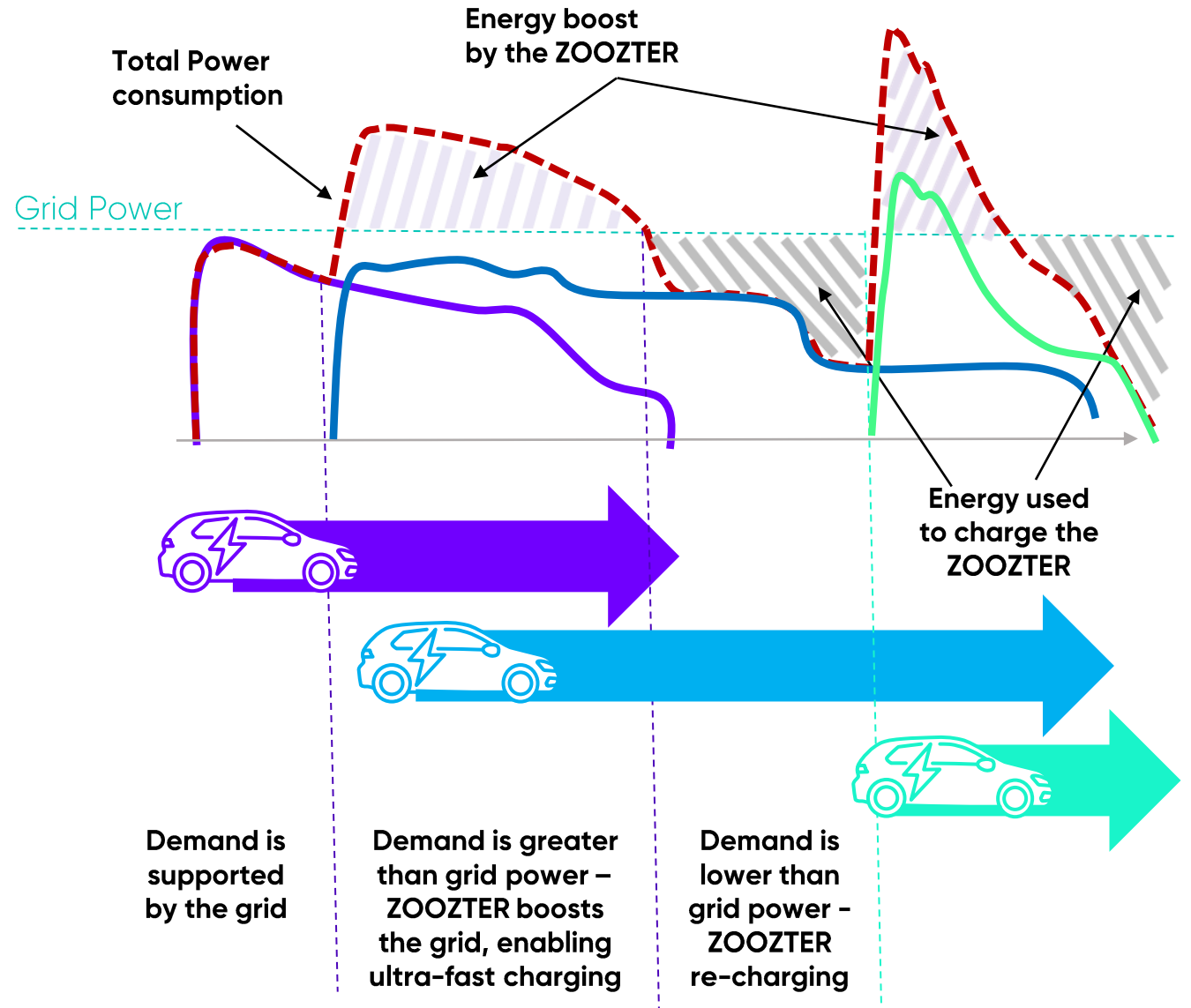
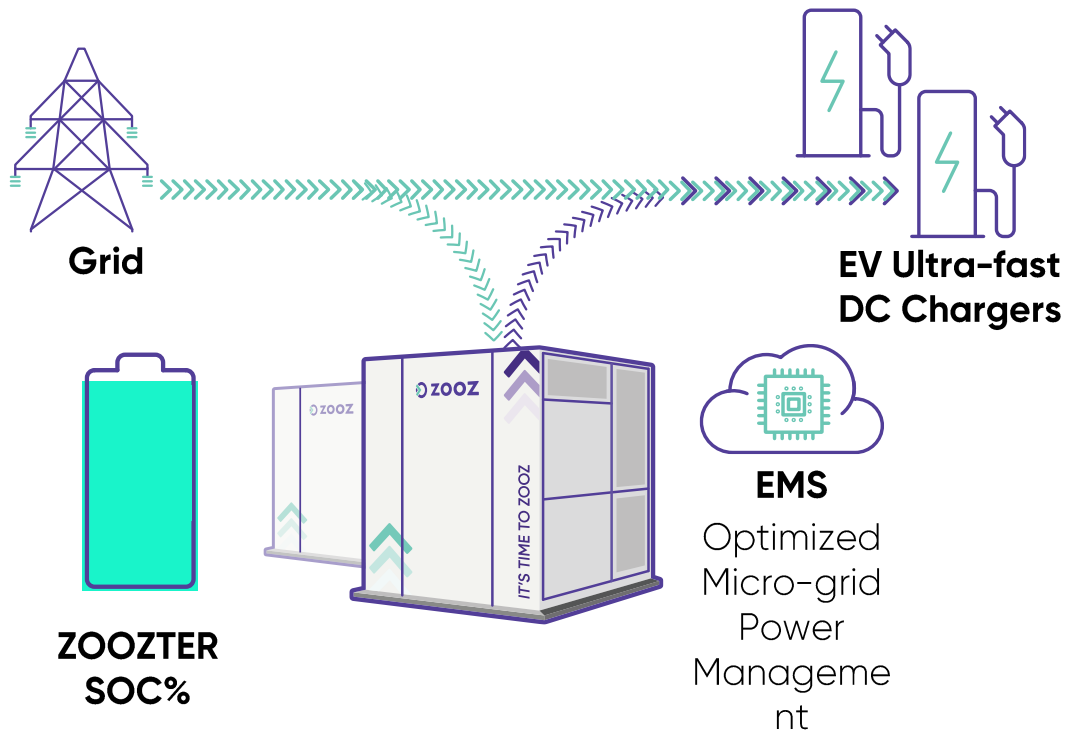


Enabling Widespread Deployment of Ultra-fast EV charging.

Appendix Slides



The Boosting Cycle

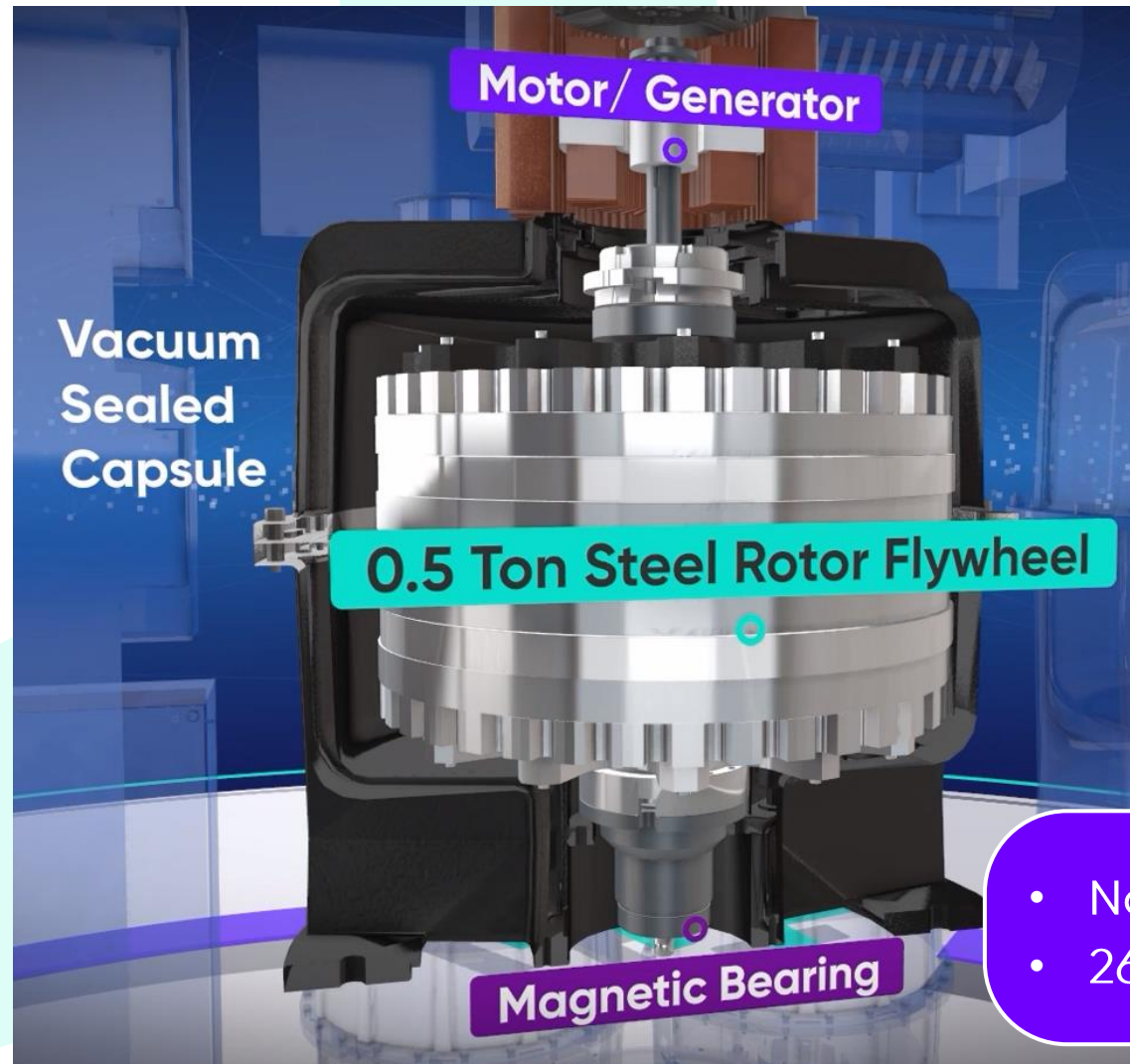


ZOOZTER™-100 – All-in-one Integrated System



- Complies with CE and UL applicable standards^(*)
- Agnostic to grid and charger vendor
- Quick site integration
- Flexible re-deployment

ZOOZ Flywheel – Mechanism of Action



Core Technology of
the ZOOZTER™100,
Kinetic Power Booster

- Novel, efficient & proven* Flywheel
- 26 registered patents + 1 pending

ZOOZ Flywheel – Mechanism of Action

Converting Electricity to Kinetic Energy



ACCELERATING

=

CHARGING

(converting electricity to) Kinetic Energy

Storing Kinetic Energy with minimal electricity pulse



LEVITATING

=

STORING Kinetic Energy

Converting Kinetic Energy To Electricity



DECELERATING

=

DISCHARGING Kinetic Energy (converted to electricity)

Revolutionary Flywheel Technology

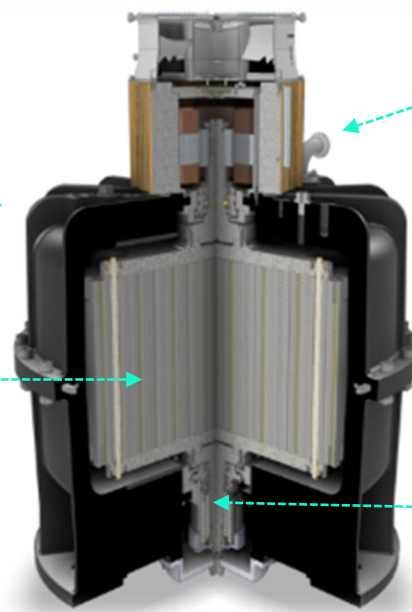
ZOOZ Flywheel

Cast Steel Housing

- Sealed to hold vacuum

High-Strength Steel Rotor

- 0.5 Ton rotor balanced at a precision level of a small Gyro.
- Inherently safe by design
- Cost-effective, recyclable
- Proprietary manuf. process geared to high-efficiency mass production



Proprietary Motor/Generator

- high-speed, high-power, air-cooled, running in vacuum
- High efficiency, High reliability

Negligible Friction Configuration

- Magnetic Bearing - 3rd generation Halbach array
- Rotation in vacuum environment – minimizing air friction

Energy: 4.7kWh

Power: 12.5kW/15 min.

Weight: 650 kg

Speed: 17,000 RPM

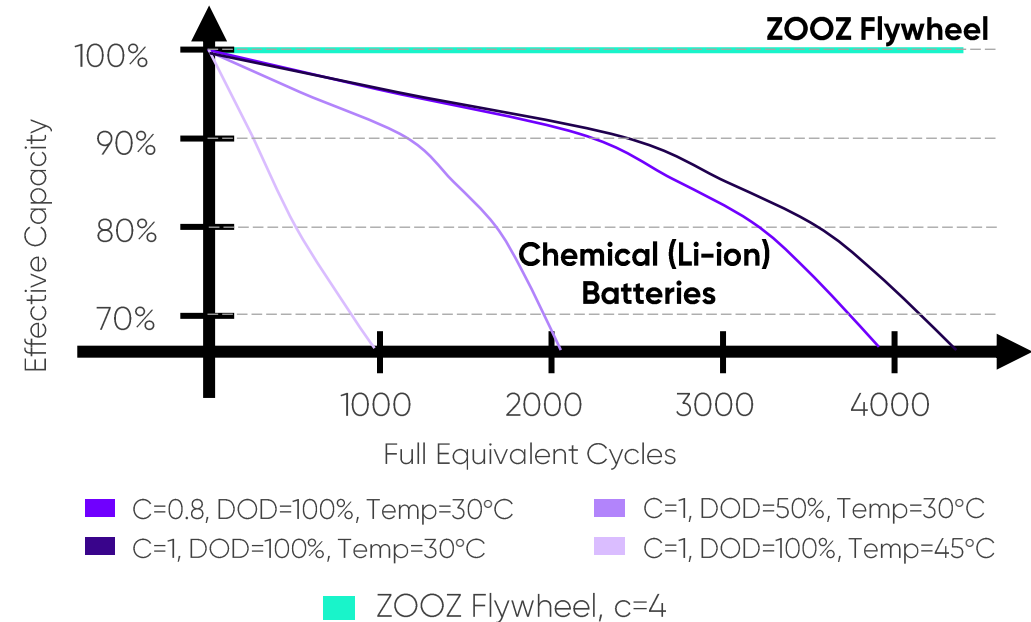
Novel, efficient & proven^(*) Flywheel,
The core of an innovative Power Booster

- 26 registered patents + 1 pending

Flywheel Vs. Li-ion Batteries

Performance & Cost over lifetime

- Li-ion batteries:
 - Suffer from rapid aging & performance degradation
 - Chemicals-based: Toxic & Flammable
- **ZOOZ Flywheels:**
 - Exceeds 100,000 cycles
 - Expected lifespan of over 15 years
 - Consistent performance in wide range of environment's conditions
 - Sustainable (non-chemical, non-toxic)



**ZOOZ Flywheel technology –
Optimized & a better fit** (than Li-ion Batteries)
to EV ultra-fast charging use case

Competitive Landscape

Flywheel-based boosters



Early-stage startups

Chargers with integrated battery



KREISEL



adstec Energy



XCHARGE

Battery-based Boosters



ZOOZ is FIRST to market with a mature Flywheel-based Power Booster – Sustainable, long-lasting, cost-effective, agnostic to grid and charger



Note: these are examples of competitors. Additional competitors are active

ZOOZ Target Market Segment

<50kW



Single-Charger Site

150kW-
500kW



**Small-Medium hubs
2-6 chargers**

**Public
Charging**

**Fleet
Depots**

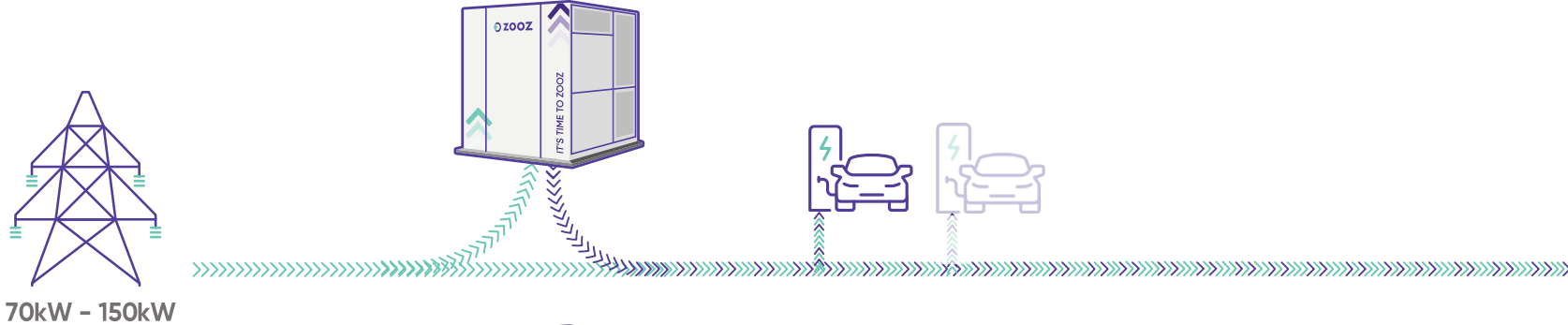
>1.5MW



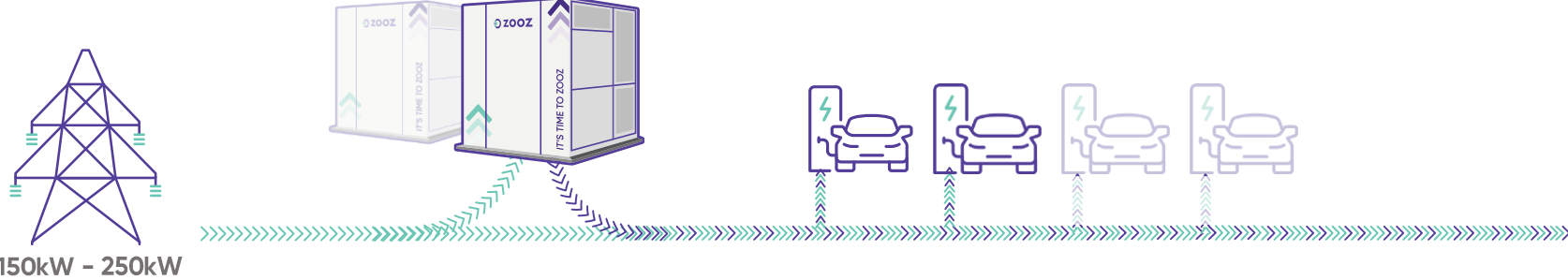
**Large Hubs
>10 chargers**

Various Configurations Supported by ZOOZTERs

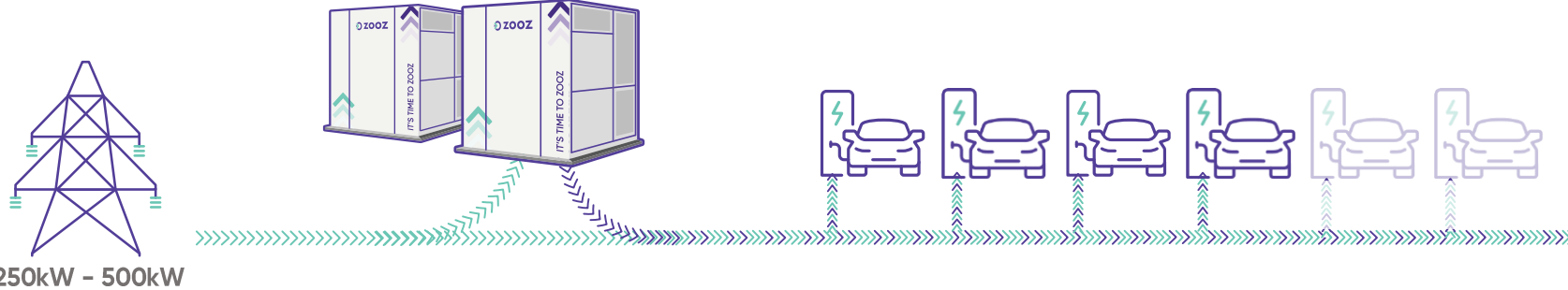
of ZOOZTER needed is pending grid power, # of chargers and site utilization



- > Grid: 75kW-150kW
- > One ZOOZTER™ -100
- > 1-2 150kW Chargers

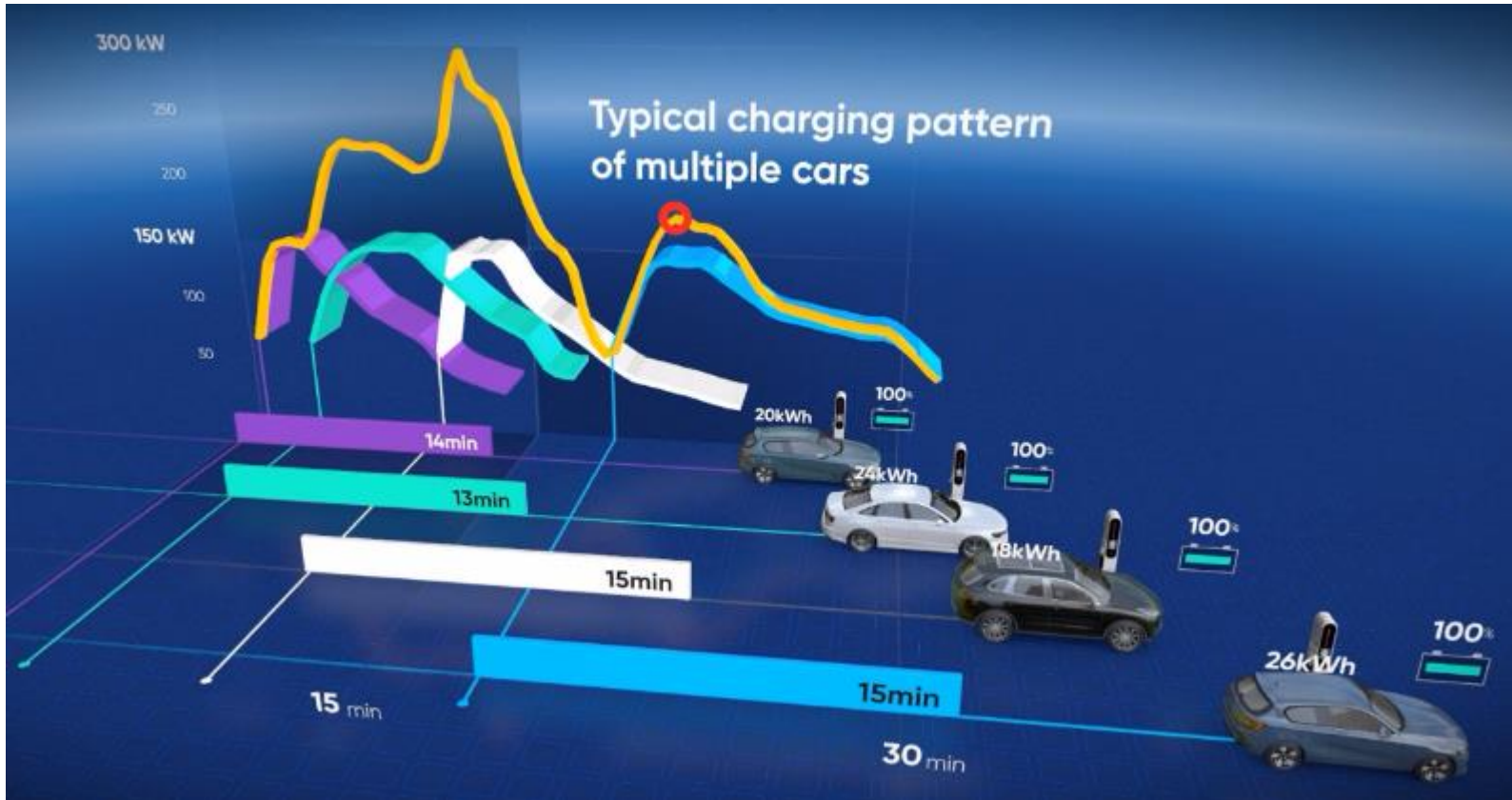


- > Grid: 150kW-250kW
- > One/Two ZOOZTER™ -100
- > 2-4 150kW Chargers

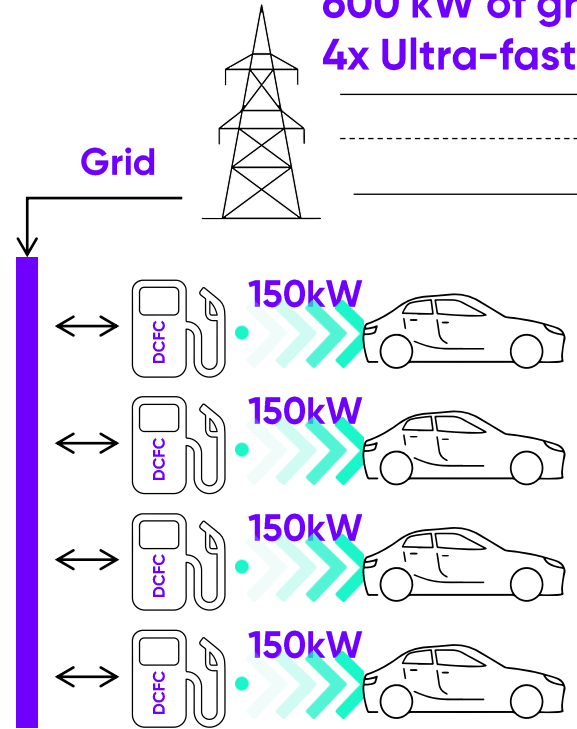


- > Grid: 250kW-500kW
- > Two ZOOZTER™ -100
- > 4-6 150kW Chargers

The Real Pattern of Multiple Charging Cars

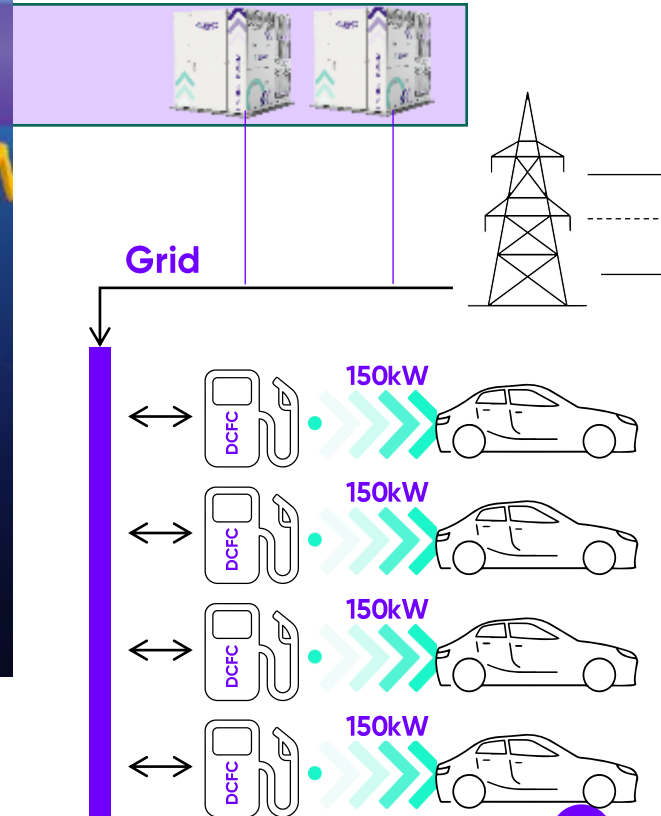
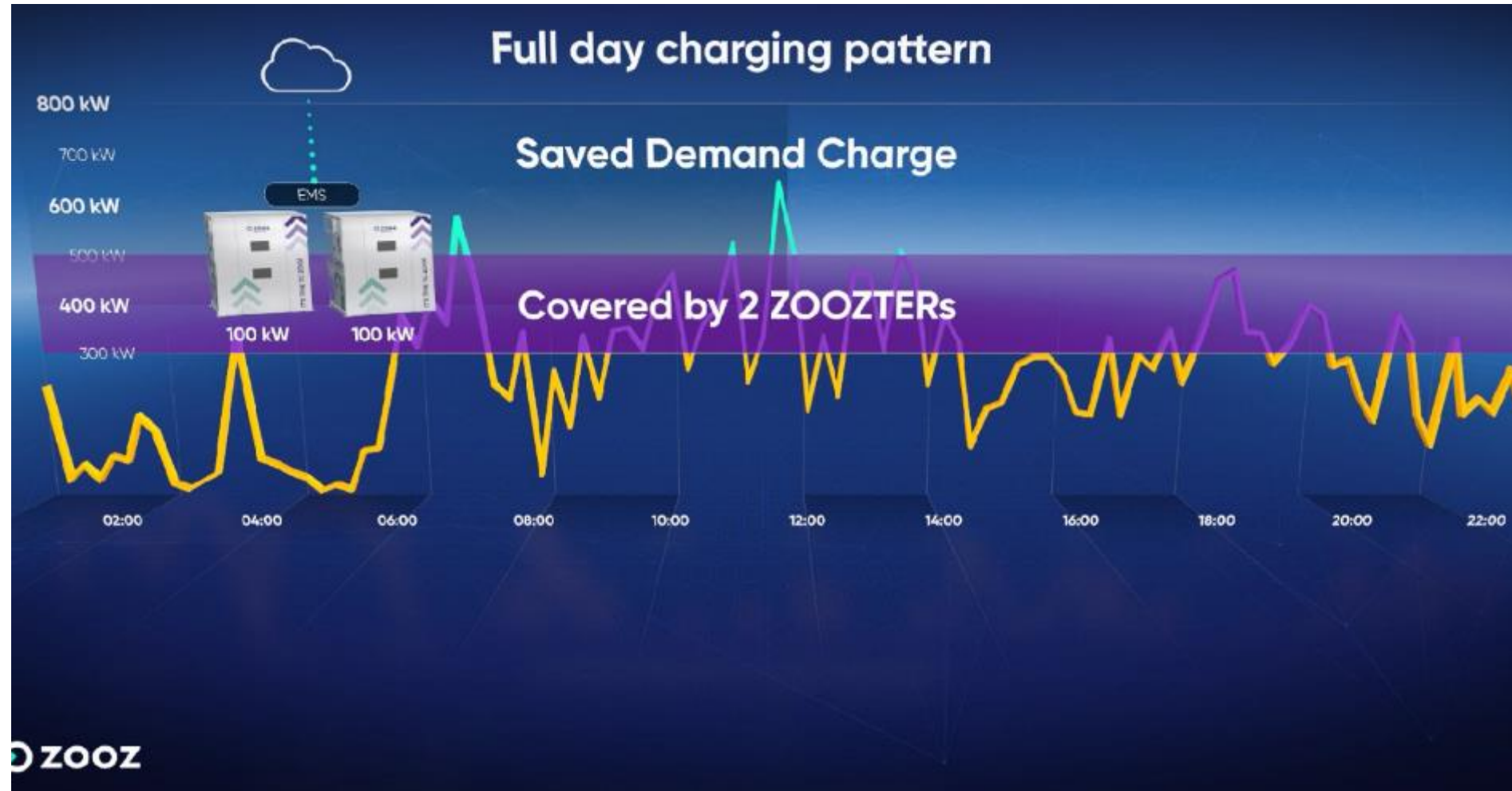


Do we really need 600 kW of grid for 4x Ultra-fast chargers?



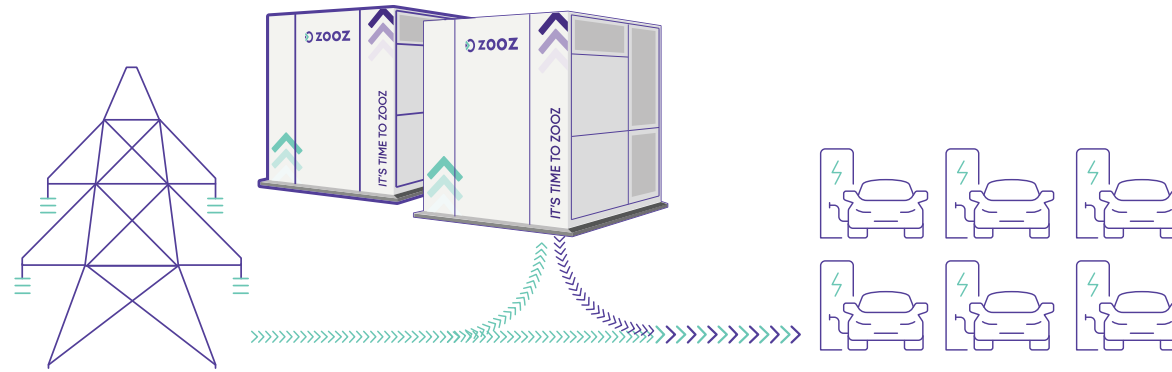
- Multiple EV charging simultaneously creates a demand profile characterized with:
 - Short, high-peak surges in power consumption.
 - Low average power demand
- **Efficient grid design & utilization should focus on average power demand, not just peak demand.**

"Peak-Shaven" Pattern of Multiple Charging Cars Supported by ZOOZTER™-100 Power Booster



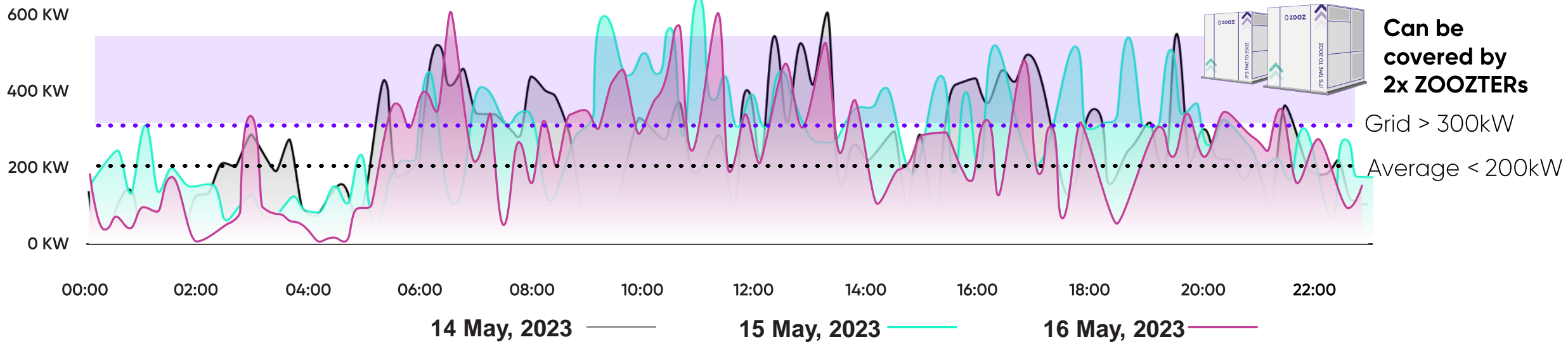
UK Charging Hub (6x 150kW) – Efficient deployment

- Highly utilized hub in a UK airport
- In use: 6 Chargers X 150kW
- Sited opened after Grid was upgraded to 900kW



Grid of >300kW is sufficient if boosted by 2x ZOOZTERs + EMS

Upgraded Grid 900kW (after long wait)



Can be covered by 2x ZOOZTERs

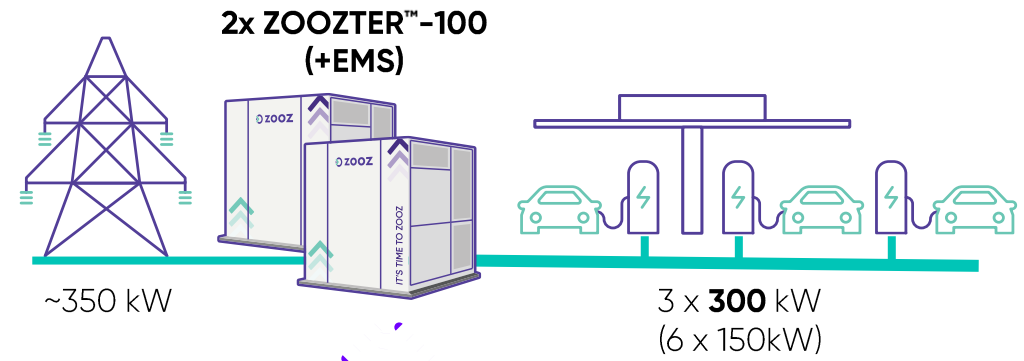
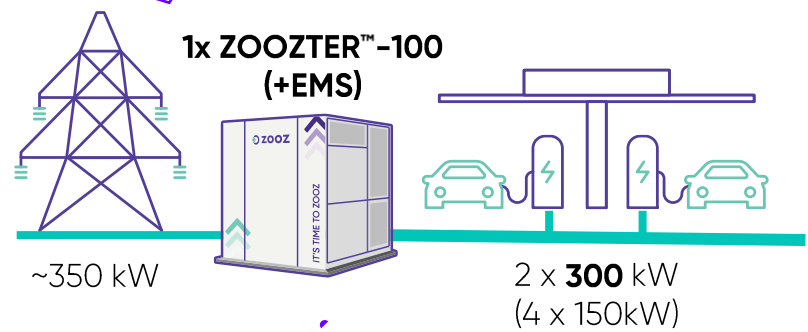
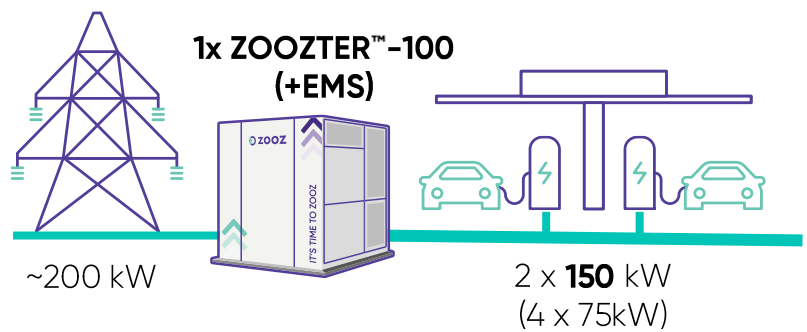
Grid > 300kW
Average < 200kW

Case Study – Gradual Growth

1st stage of site upgrade:
 Grid upgrade to ~350kW
 Chargers' upgrade to 2x300kW (4x150kW)

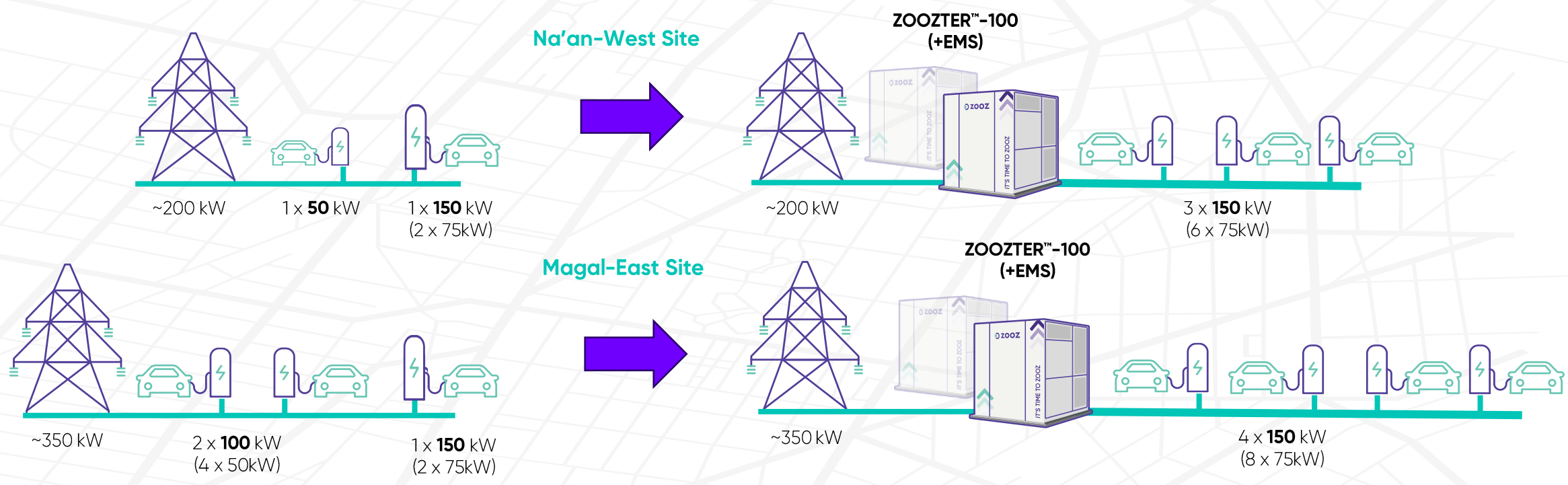
2nd stage of site upgrade:
 Additional of 3rd 300kW (total of 6x150kW)
 Addition of 2nd ZOOZTER™ -100

Site Initial configuration, based on available grid



Collaboration with "ON" Charging Network

- > Collaborating with "ON" – the leading ultra-fast Charging network in Israel
- > ZOOZTER™-100 systems & ZOOZ-EMS enable "ON" to upgrade charging sites on Road #6 (Israel's main transportation corridor)
- > Sites to include more charging ports, allowing faster charging, despite grid limitations.



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