



Enabling
Ultra-Fast
EV Charging
Anywhere



June 2023

We develop, manufacture,
and market

revolutionary Power Boosters,

Enabling & accelerating
deployment of EV
ultra-fast charging
Anywhere





The EV revolution is accelerating

Ultra-fast
Charging Is
Critical To Enable The
Transition To EVs



But
Grid Infrastructure
Cannot Support It



Enabling Today Ultra-Fast Charging Anywhere

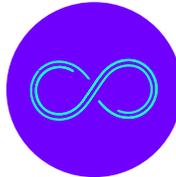
The Need



Lost Business And Dissatisfied Customers



Long Charging Sessions



Long Waiting for available charger



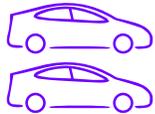
Skipped Charging Sessions



High Demand Charges



Limited Grid

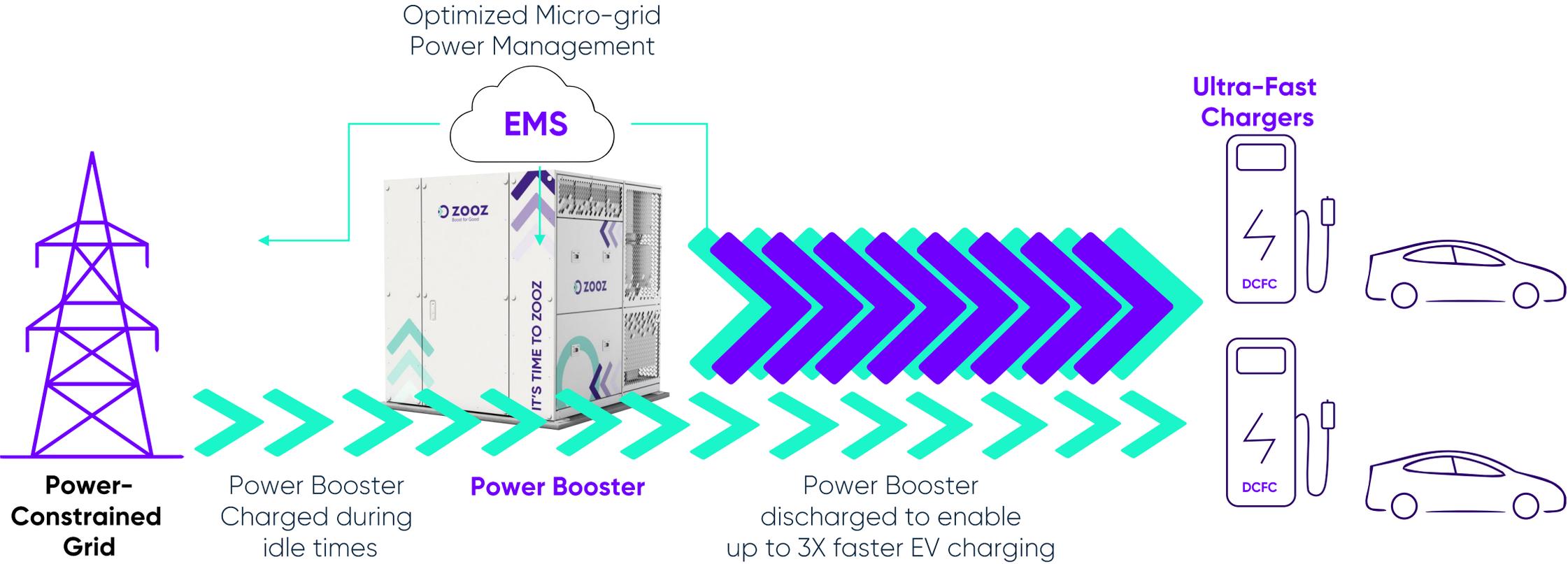


Fewer, Longer charging session



Long waiting time & skipped cars due to lack of available chargers

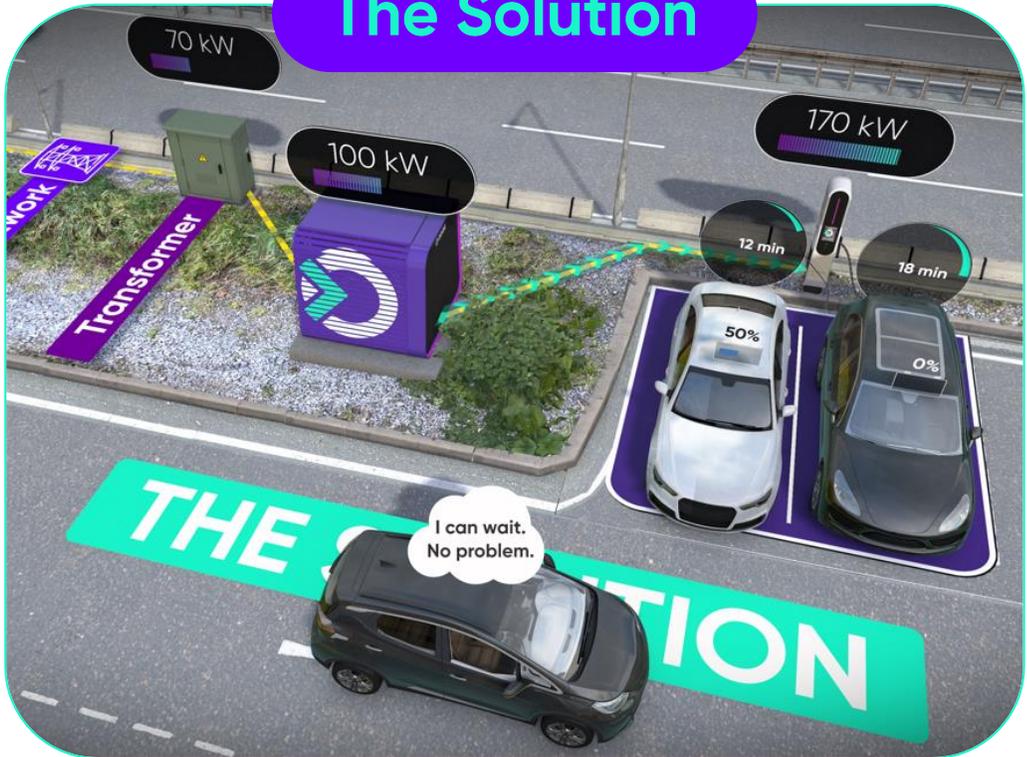
Enabling Today Ultra-Fast Charging Anywhere



Enables Ultra-Fast Charging, even at power-limited grid

Enabling Today Ultra-Fast Charging Anywhere

The Solution



Improve Service & Charge More



Better drivers' experience



More charged cars per day, More Sales



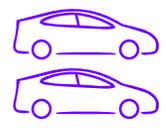
Avoiding grid upgrade



minimizing demand charges



Limited grid is boosted by the ZOOZTER™-100



More charging Shorter sessions



Greater availability - No skipped cars, less waiting time

Enabling Today Ultra-Fast Charging Anywhere



Accelerating Ultra-Fast EV Charging



Increase power supply as utilization grow



Defer grid upgrade investment



Faster "land grabbing" – Accelerate sales and expand market share



Re-deployable asset to accelerate growth and transition to EVs

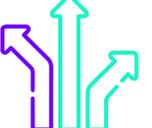
The Kinetic Power Booster ZOOZTER™-100




x8

ZOOZ V8
Flywheel



- 
Innovative patented Flywheels technology
- 
Sustainable-Non-chemical
- 
High Power
- 
High - Performance
- 
Cost Effective
- 
Flexible & Modular
- 
Durable & Reliable
- 
Safe (CE & UL Cert.)

Enabling & accelerating Ultra-Fast EV Charging

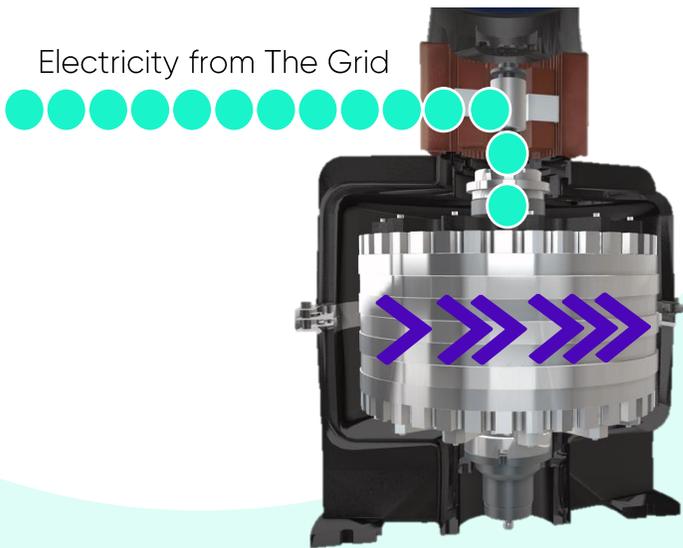


ZOOZTER™-100 – All-in-one Integrated System

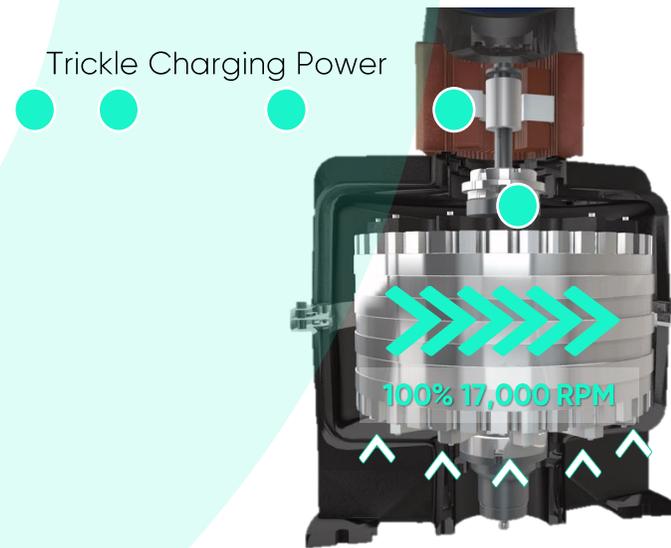


- Completed European (CE) Certification process.
- Completed US (UL) Certification tests in Israel
(Final UL testing – to be done after installation in a US site)

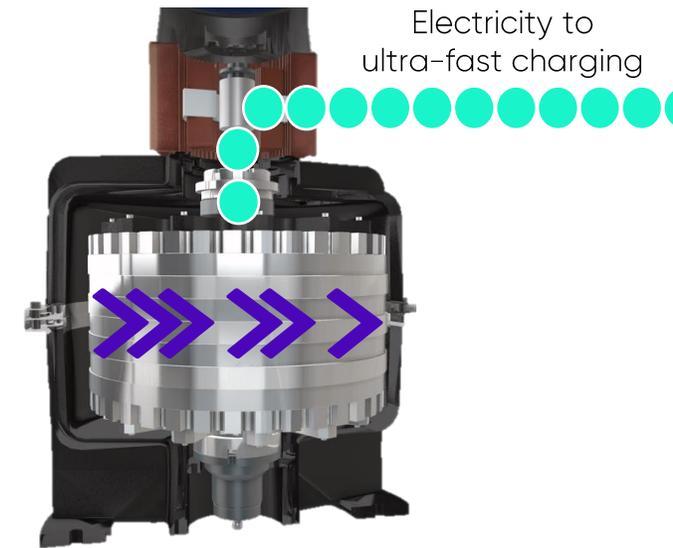
ZOOZ Flywheel – Mechanism of Action



ACCELERATING
=
CHARGING
Kinetic Energy

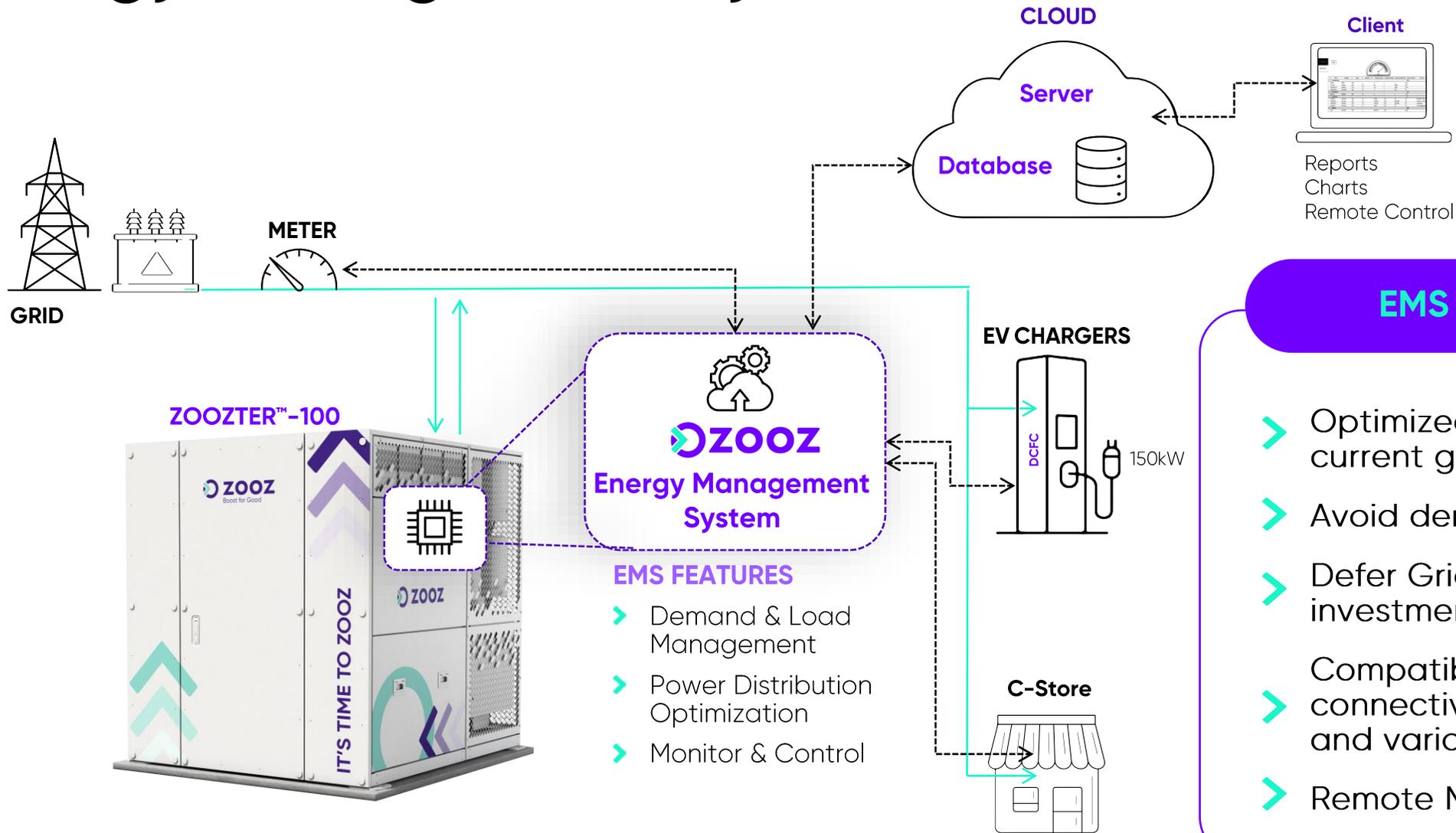


LEVITATING
=
STORING
Kinetic Energy



DECCELERATING
=
DISCHARGING
Kinetic Energy

Energy Management System



EMS Benefits

- Optimized use of the current grid
- Avoid demand charges
- Defer Grid upgrade investment
- Compatibility and connectivity to other EMS and various chargers
- Remote Monitoring

EV Charging Infrastructure Market is Accelerating

Shell Invests Heavily Into EV Charging Stations

With Shell's purchase of Volta, the gas and oil giant drastically expanded its U.S. charging network.

By [Chris Teague](#) | Edited by [Brian McHugh](#) | Fact checked by [Rusha Shrestha](#) | April 3, 2023, at 4:28 p.m.



7-Eleven, Inc. Launches New Electric Vehicle Charging Network, 7Charge



NEWS PROVIDED BY
7-Eleven, Inc. →
16 Mar. 2023, 07:11 ET



Hertz to offer 2,100 rental EVs in Houston, build public charging hub

Posted March 10, 2023 by [Charles Morris](#) & filed under [Fleets and Infrastructure](#), [Newswire](#), [The Vehicles](#).

Warren Buffett's Berkshire Hathaway quietly made a \$8.2 billion acquisition that taps into the electric-vehicle boom

■ THERON MOHAMED | MAR 1, 2023, 19:03 IST



Washington Watch

Biden adds more EV charging across U.S., with pledges from Uber, Walmart, PG&E and others

Published: April 17, 2023 at 8:13 a.m. ET

By [Rachel Koning Beals](#)

The latest rollout would add more than 100,000 public EV chargers to the more than 135,000 now available. Biden wants 500,000 chargers across all states by 2030.

20

Trade association ChargeUK announces goal of doubling infrastructure in 2023

Posted May 5, 2023 by [Marilyn Burkley](#) & filed under [Fleets and Infrastructure](#), [Newswire](#), [The Infrastructure](#).

[Energy & Infrastructure](#) >

May 26, 2023 - 10:09 am

Ford & Tesla enable Ford drivers access to Superchargers

CANADA CHARGING STATIONS DC ELON MUSK FORD HPC JIM FARLEY NORTH AMERICA ROAMING SUPERCHARGER TESLA

Surprising cooperation is to begin in North America. Ford will install Tesla's

Walmart to Expand EV Charging Facilities to Thousands of U.S. Locations

A private effort will make a major contribution to the domestic capacity for electric vehicles.

● 1 Minute Read
April 11, 2023, 7:00 AM PDT

13

Transition of Charging Infrastructure

Market is moving from Private (slow) charging to Public Ultra-fast Charging
➔ Realizing Grid's Power-Limitations



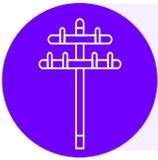
Public Charging Infrastructure is **critical** to enable transition to EVs



New car models - **Ultra-fast** Charging **becomes a MUST**

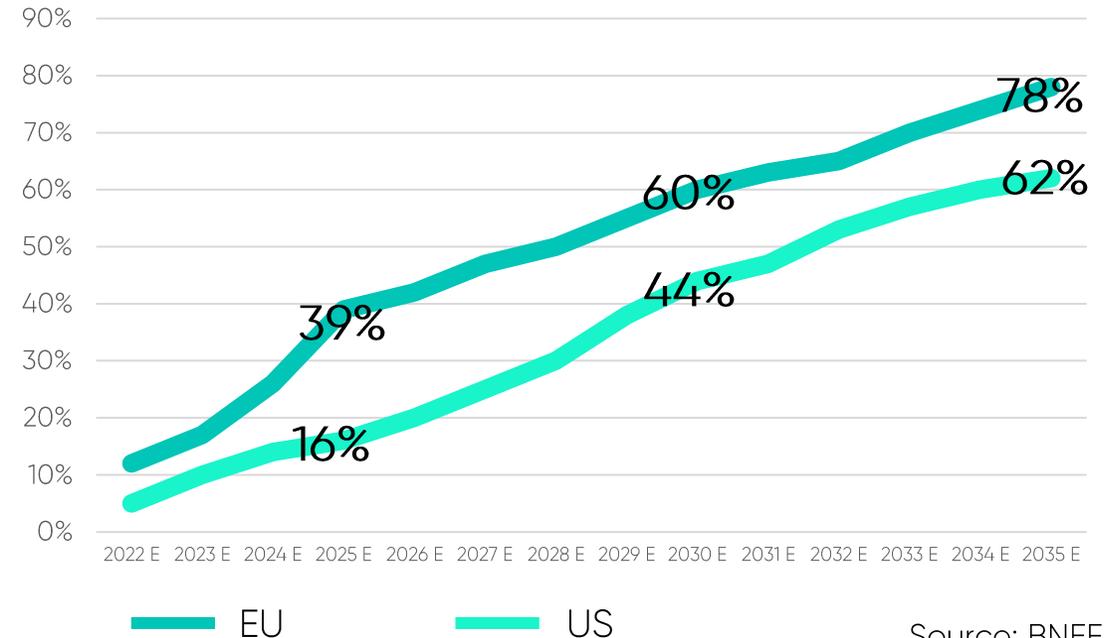


Public Charging infrastructure is **moving to Ultra-fast Charging**



Increasing awareness to **grid limitations & demand charges**

EV Penetration Forecasts: Europe vs. U.S.



Source: BNEF

Adding value to various verticals / use case



Benefits to CPOs & Property Owners



Faster & Cost-effective Network Deployment

Faster land grabbing

Re-deployable - to accelerate growth

Defer upgrade investment



Maximize site profitability and electricity sales

Generate More Revenues –

- **Faster site initiation**
- **More charging ports**
- **Higher utilization**

Minimal Cost of Ownership –

- **Longer life**
- **Minimal maintenance**
- **Demand Charge Reduction**



Greater Flexibility

**Agnostic to grid –
Quick site integration**

**Agnostic to Charger –
keep preferred vendor**

**Re-deployable asset
with life > 15 years**



Greener & Safer

Accelerating and expanding our go-to-market



Kevin Pugh

VP Sales – West EU
(formerly UK & Ireland
Country Manager @ Tritium)



Eyal Blum

Chief Revenue Officer
(formerly VP BD @ Driivz)

1st Commercially Operating Site in Israel

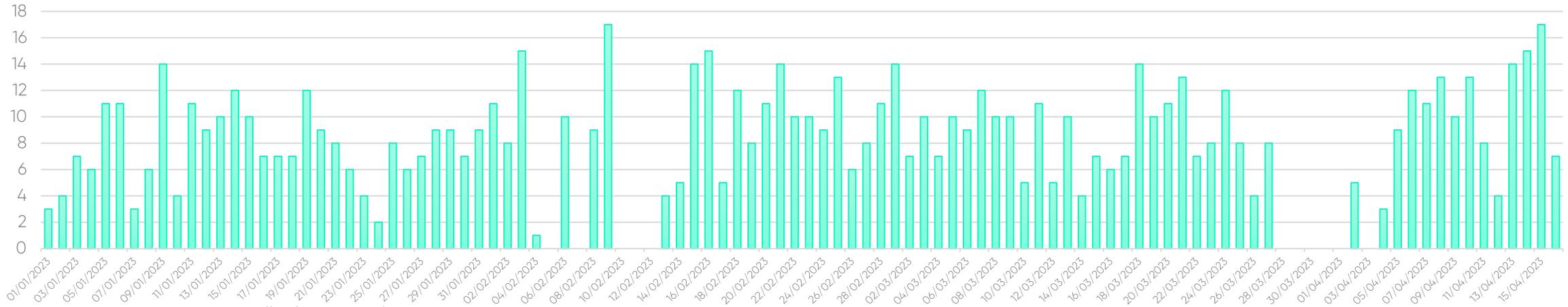


In cooperation with



Q1 Summary – Dor Alon “Mall-Zichron”

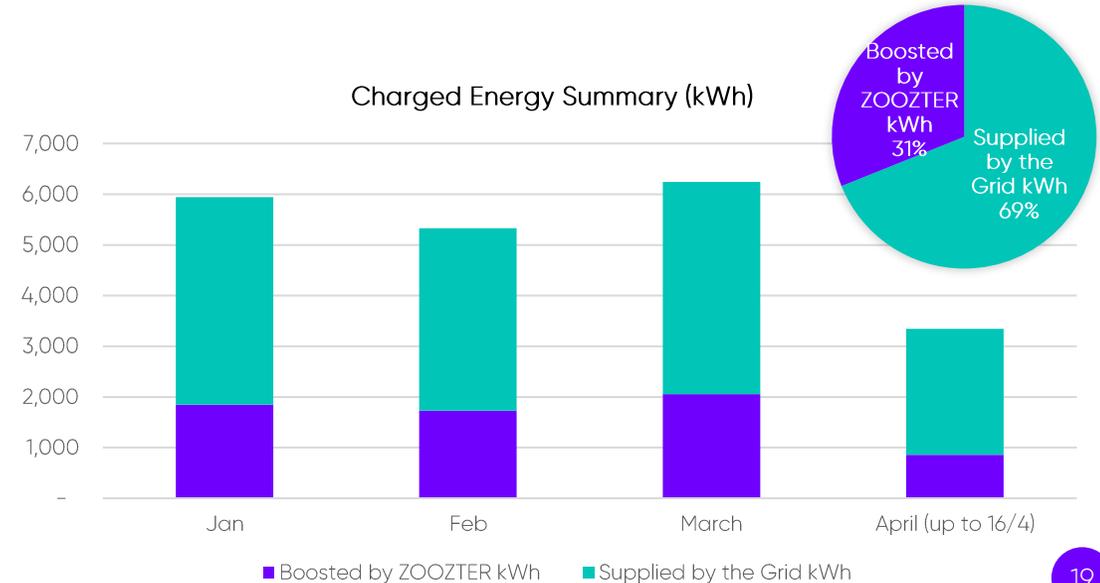
Jan-April Charging Sessions per Day



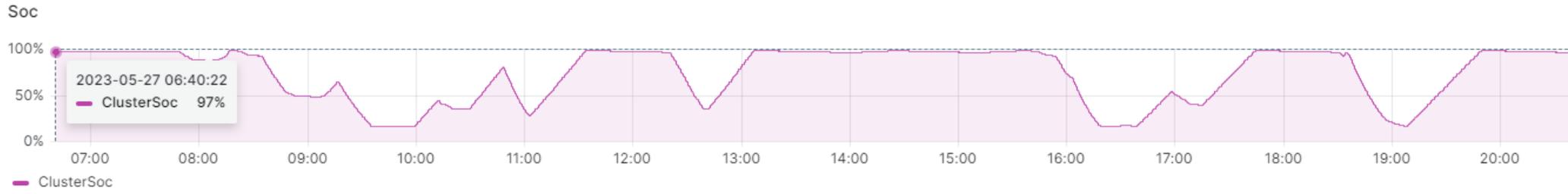
* 11 days without charging - all related to Alpitronic chargers' issues

	Jan	Feb	March	April (up to 16/4)	Total
# of Charging Sessions	238	226	239	141	847
Average Daily Utilization	7.7	8.1	7.7	8.8	8.0
Max daily utilization	14	17	14	17	17
Average charging time (min)	33 min	30 min	33 min	28 min	31 min
Average kWh per session	25.0	23.6	26.1	23.7	24.7

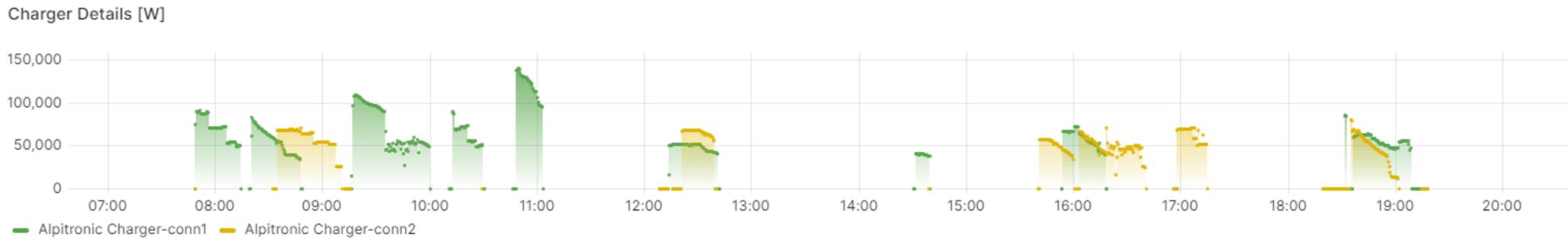
TOTAL ENERGY: 20,859 KWH



Single Day Utilization Example (27/5/23)



ZOOZTER SOC%



Charge Point 1
Charge Point 2



Moving Forward with US Market Introduction



4 Pilots planned for the 2H'2023

Coming Soon*

Car Rental Giant

@ La-guardia Airport, NY.

ARKO
A Family of Community Brands

At Rockhill, SC.

Delayed due to long lead time of site's equipment (Transformer)

Slightly Delayed - Q4/'23*

 **New York Power Authority**

Largest US Utility

On Schedule - Q4/2023*

blink

At Ft. Lauderdale, FL.

Delayed due to long lead time of Permit and Site's make-ready

Delayed - Q4/2023*

Moving Forward with EU Market Introduction



Watch movie at:
[The ZOOZTER™ has landed in Germany.](#)
- [YouTube](#)

Moving Forward with EU Market Introduction



"Soft" Launch Event – May 9th, 2023



Official Launch Event – Coming soon !
(Planned for June 13th, 2023)

Moving Forward with EU Market Introduction

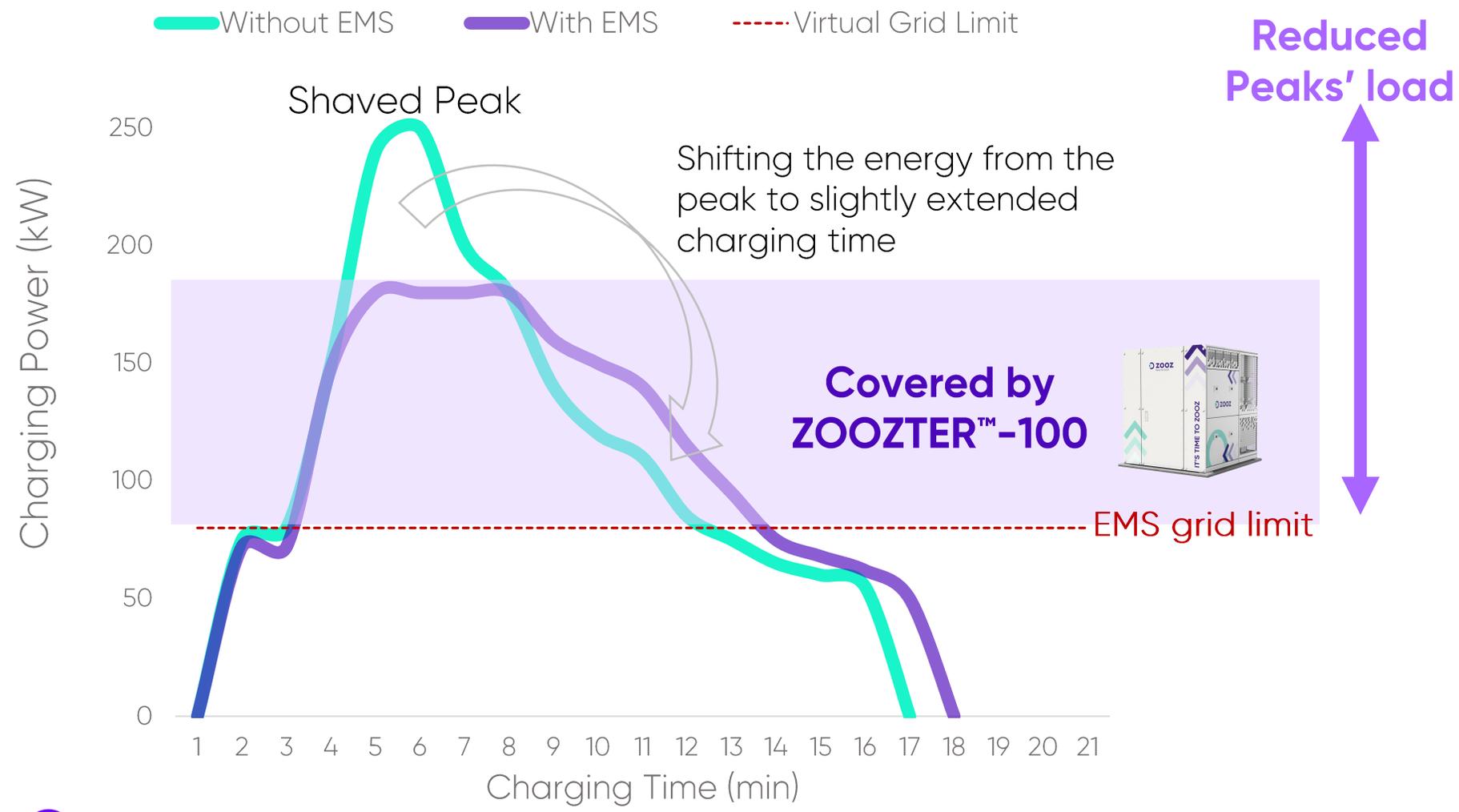


- Started commercial sales in Germany
- First two sites – launched !
- Additional three sites – will be operational within several weeks*
- The Customer has **expressed his intention to order additional 5 sites** (including 5 ZOOTER™-100 systems) within the next few weeks*.



Avoid Peak Load & Reduce Demand Charges

~200kM (~30kWH) Charging Session



Example savings of Demand Charges

Monthly Charge
170kW X \$20 = \$3.4K

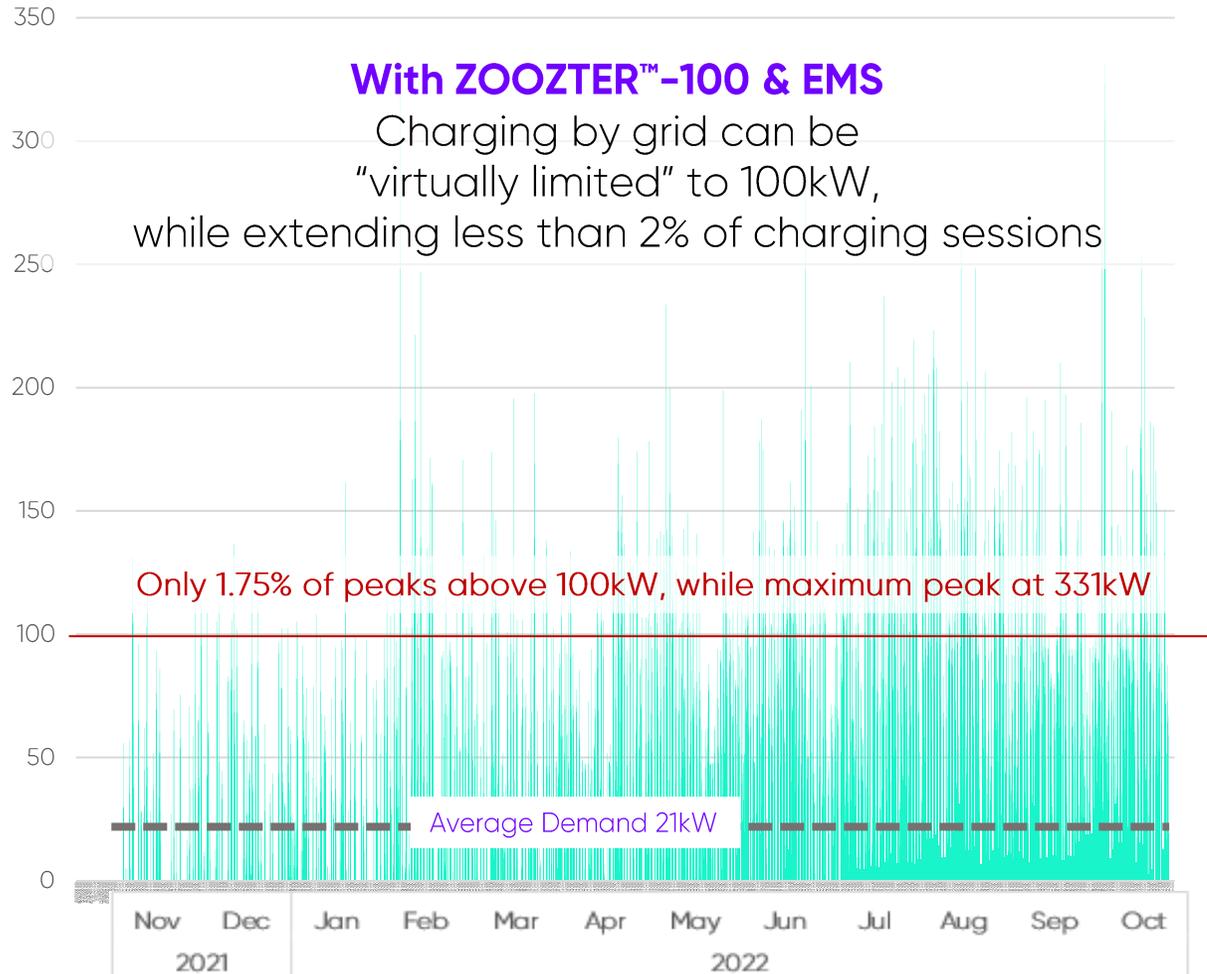
~\$40K
Total yearly savings

* Based on CA utility demand charge fee of \$20/kW

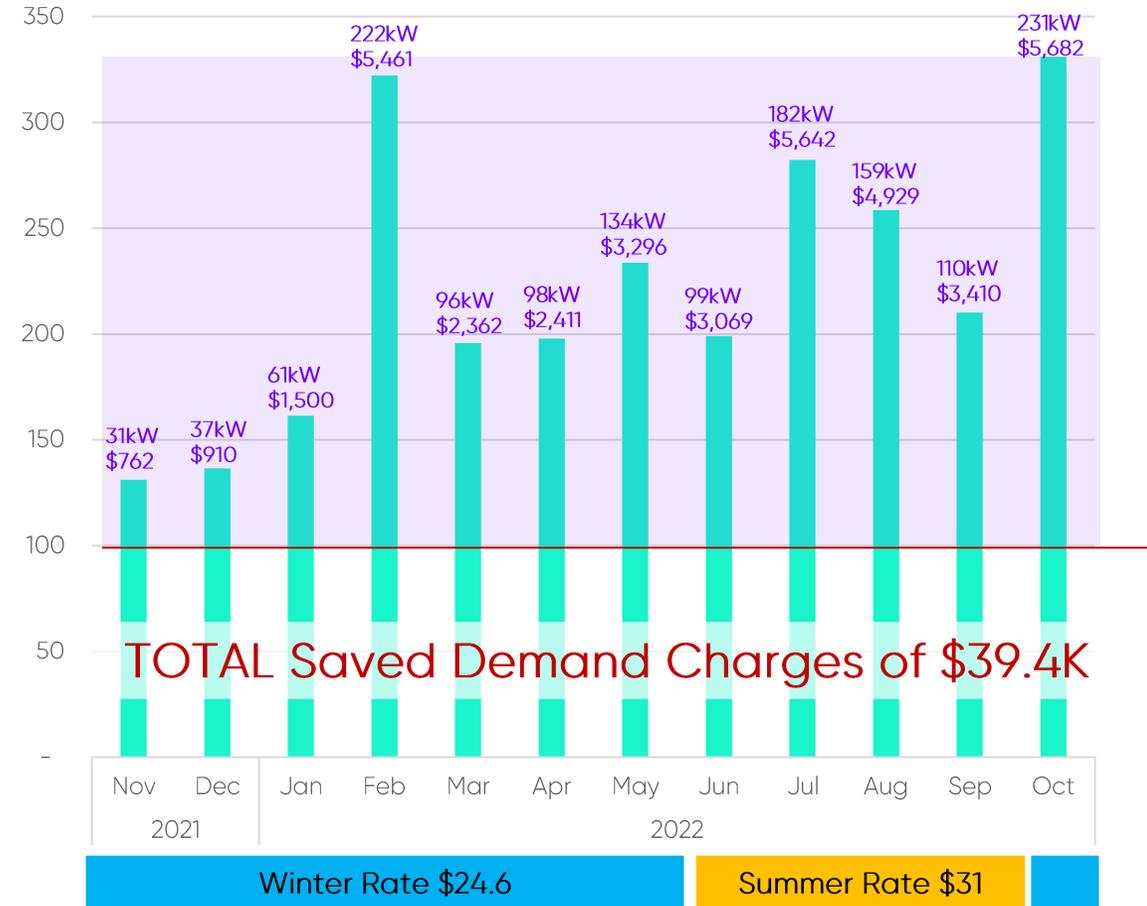
Example Based on a US C-Store demand data

EMS - Avoid And Reduce Demand Charges

Full Year Demand (kW) / Average utilization: 9 cars per day



Max Demand Power (kW) by month



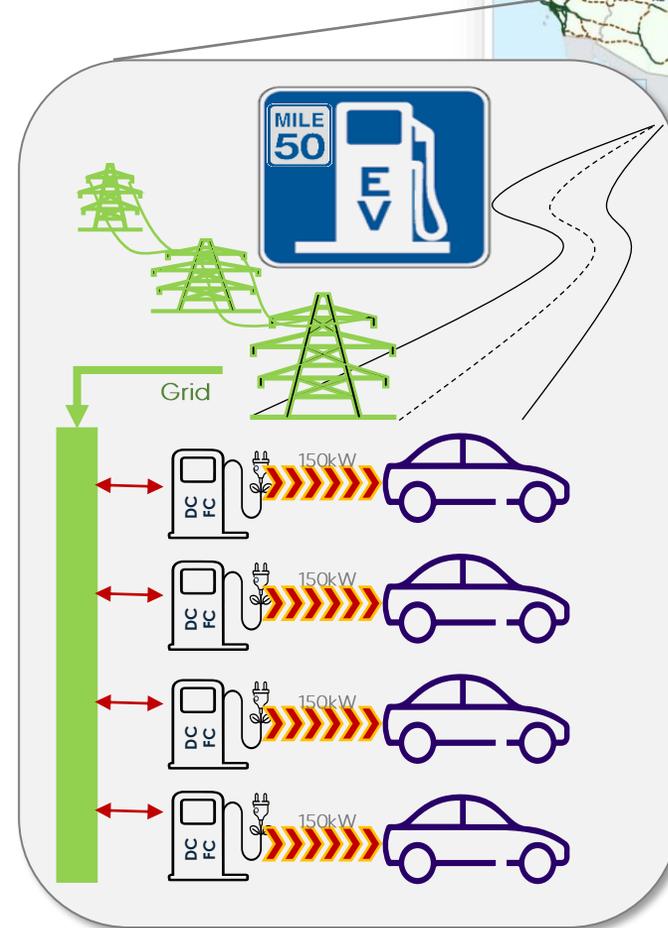
The NEVI (National EV Infrastructure) Challenge

> The NEVI Site Requirements

- > 4x 150kW DCFCs
- > Simultaneously charging 4 EVs
- > Total power of 600 kW
- > Every 50 miles

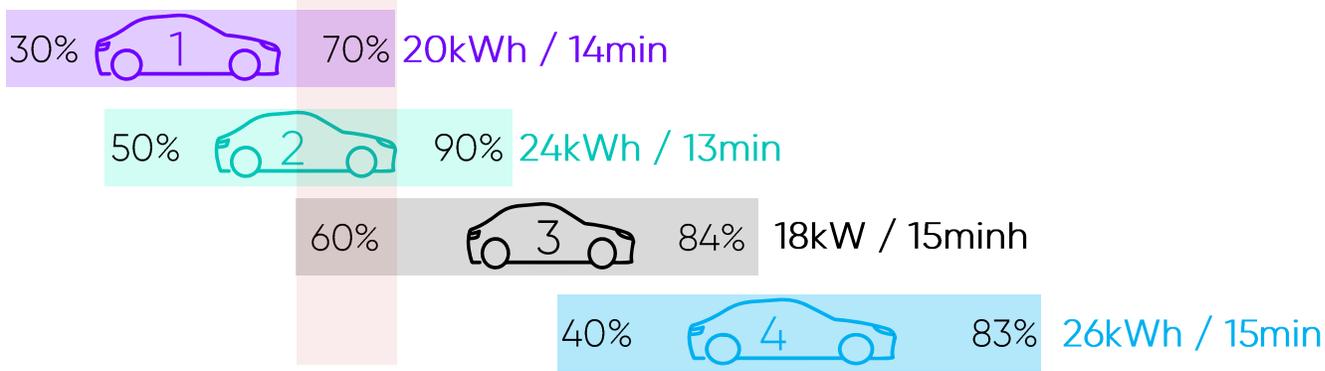
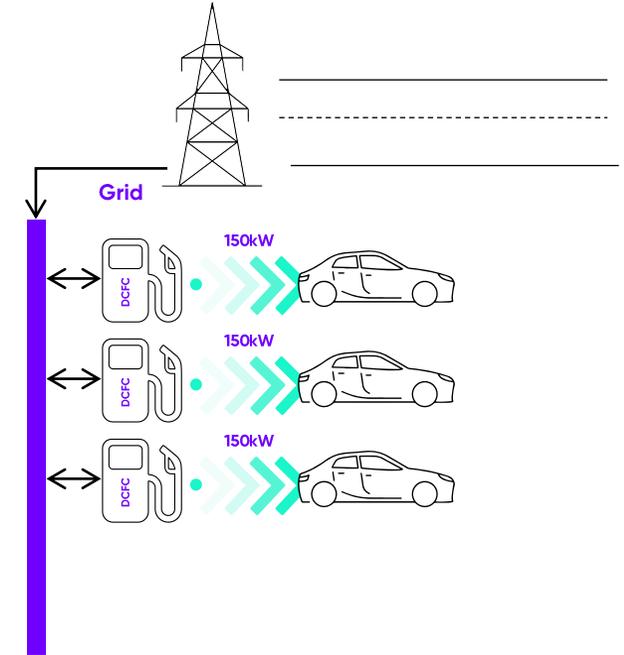
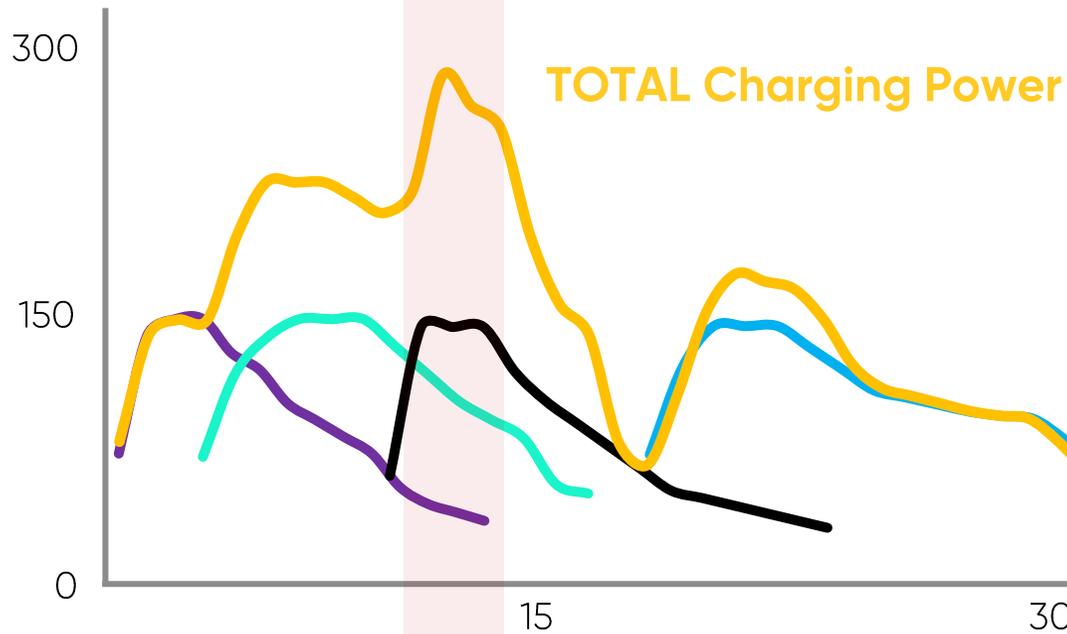
> The Challenge:

- > How to support 600kW peak power every 50 miles, with insufficient grid?

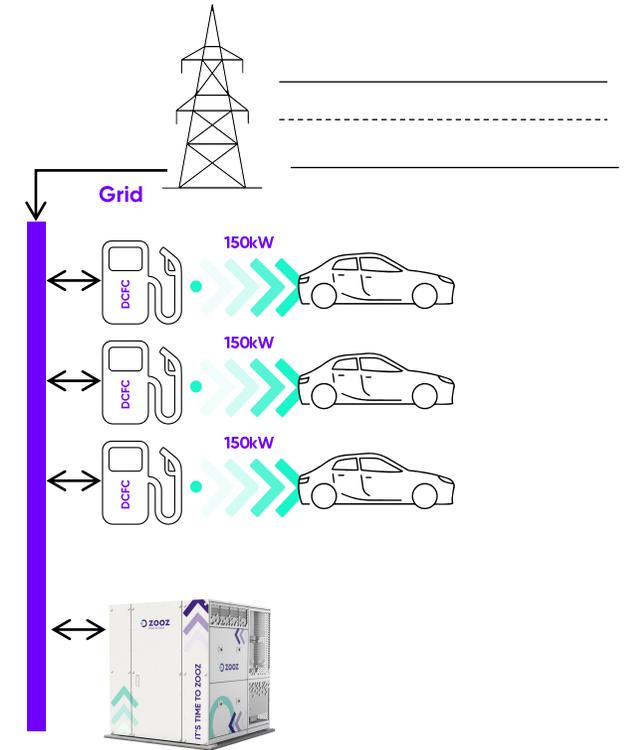
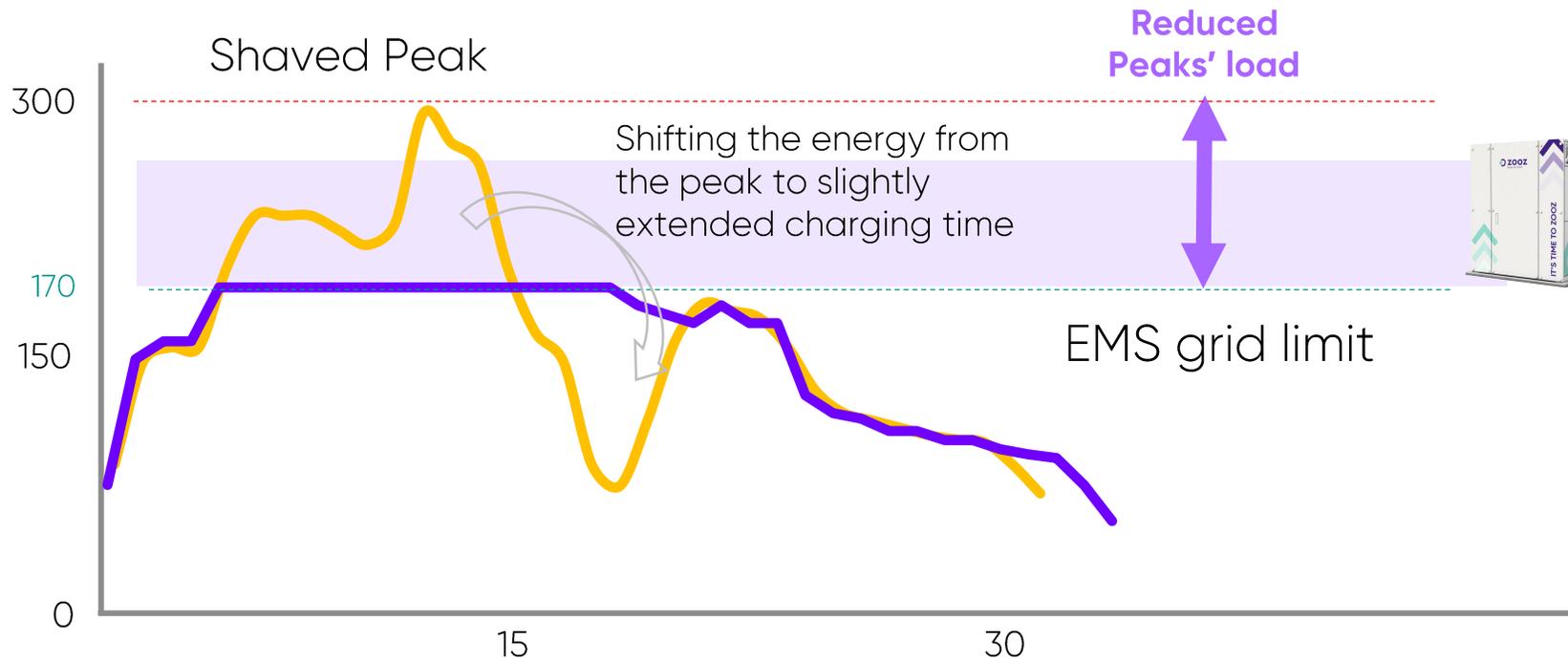


Expected Charging Pattern – Multiple Cars

A few min peak w/ 3 parallel cars



Expected Charging Pattern – Multiple Cars



30%  70% 20kWh / 14min

50%  90% 24kWh / 16min

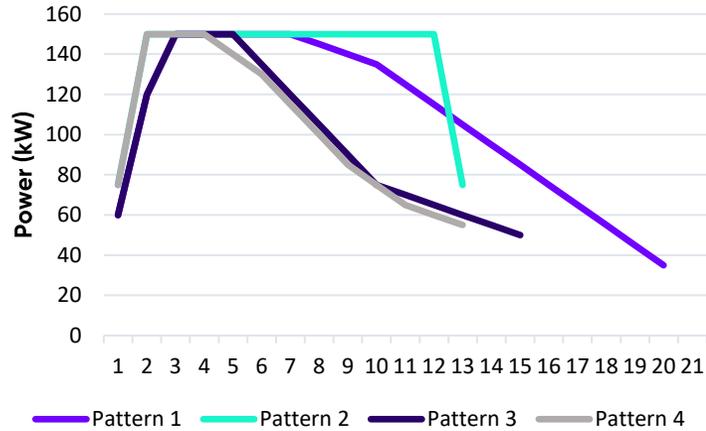
60%  84% 18kW / 18min

40%  83% 26kWh / 18min

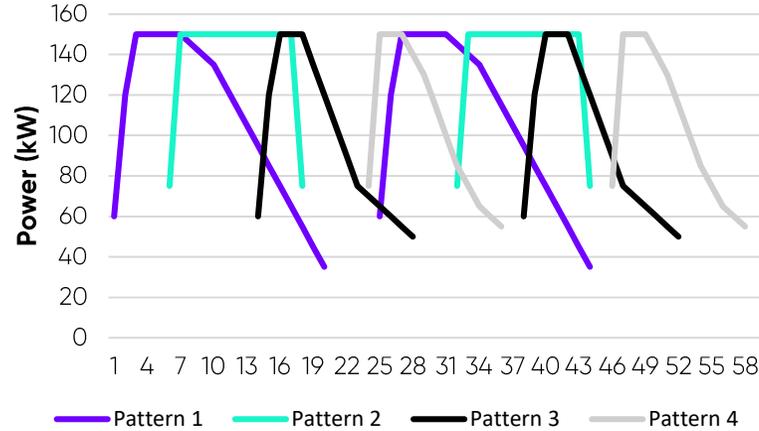
Extended charging time
(few extra minutes for cars 2,3,&4)

Charging Hub- Expected Charging Pattern

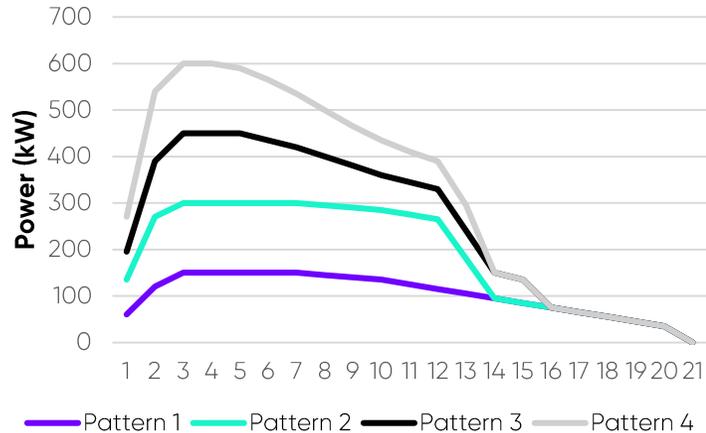
Charging Patterns



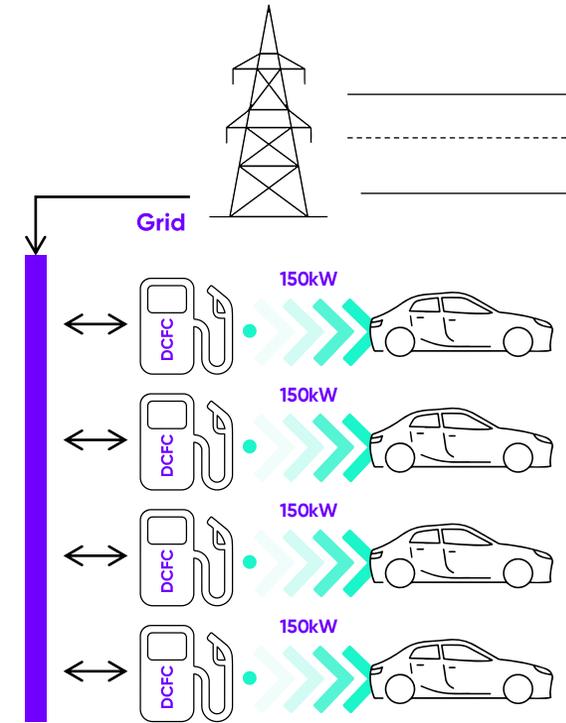
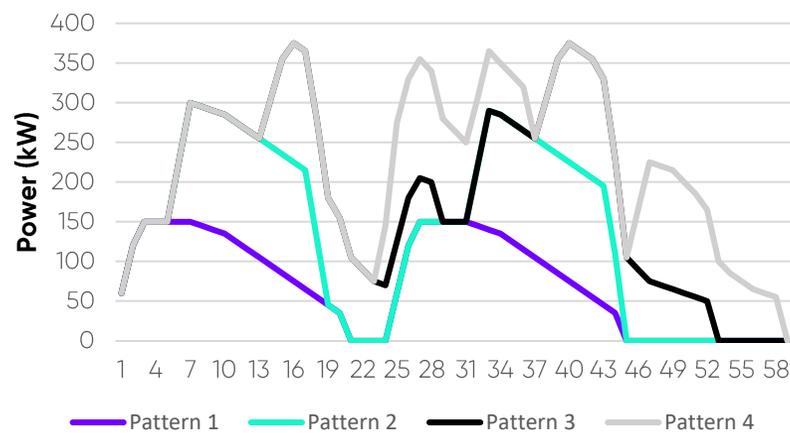
Charging Patterns - random offset



Charging Patterns - stacked

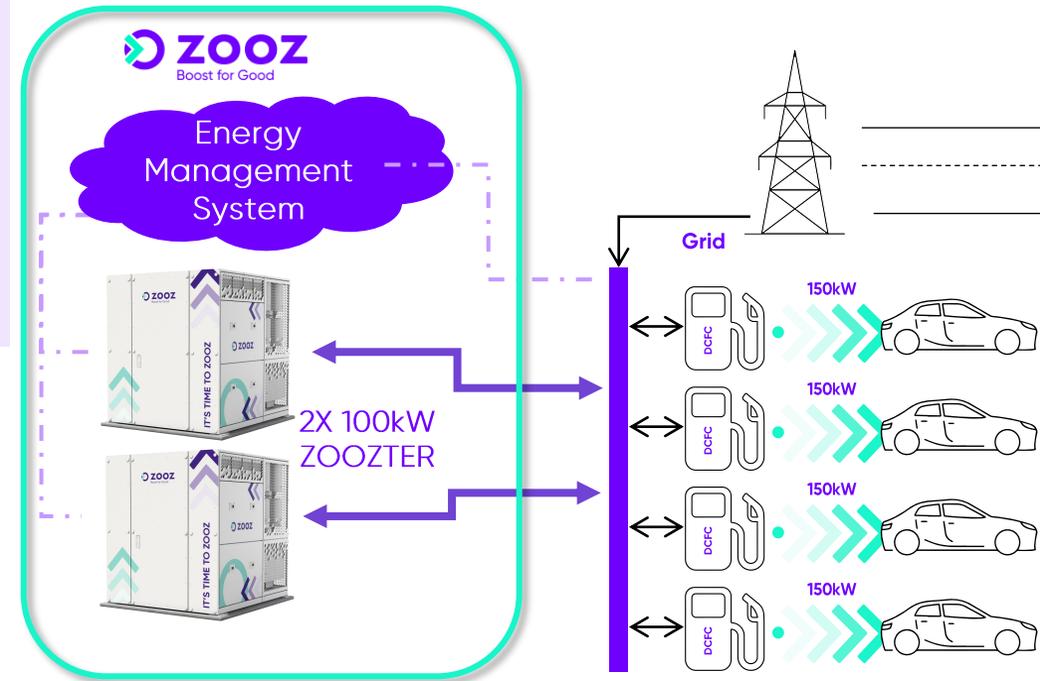
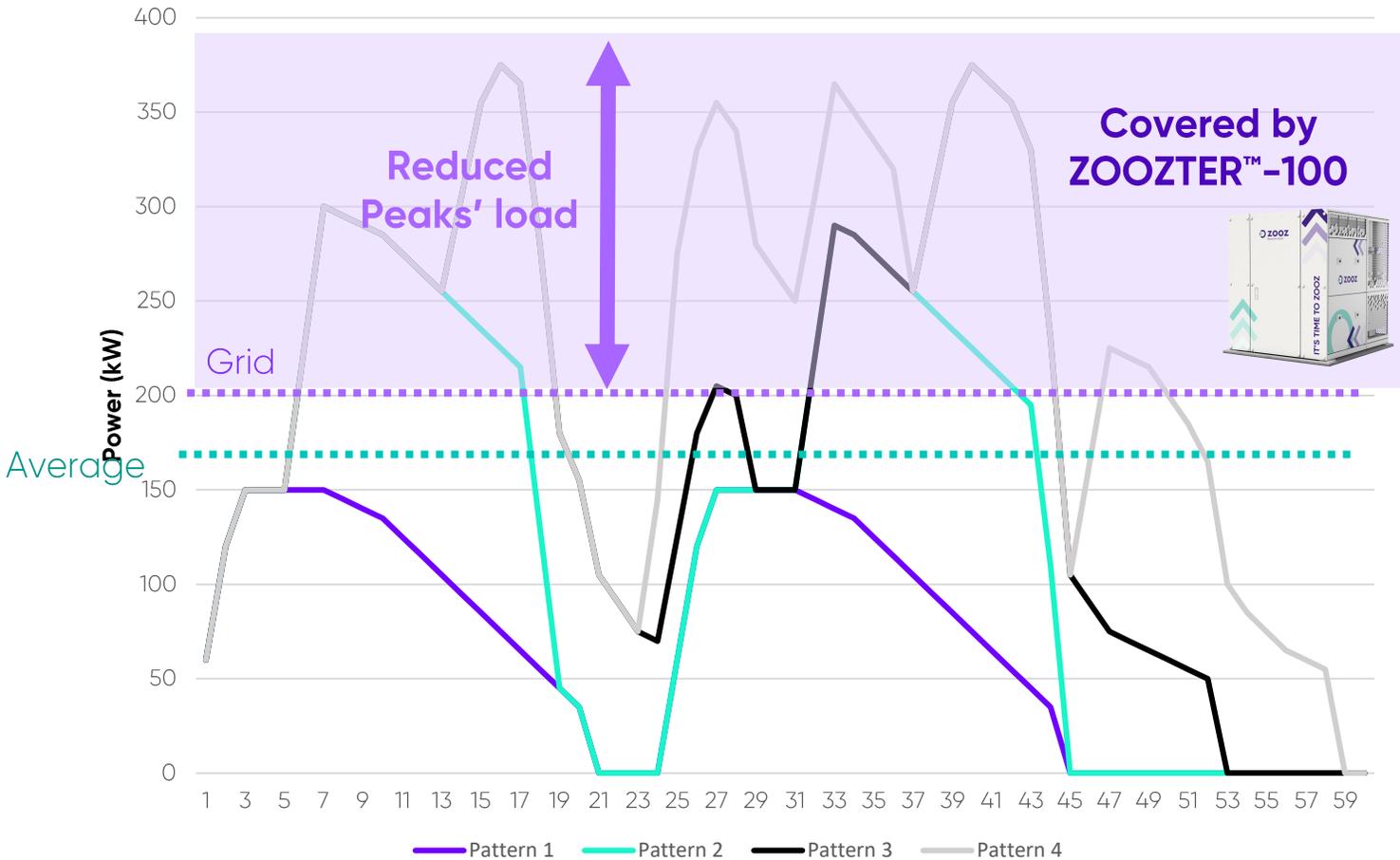


Random offset of charging - Stacked



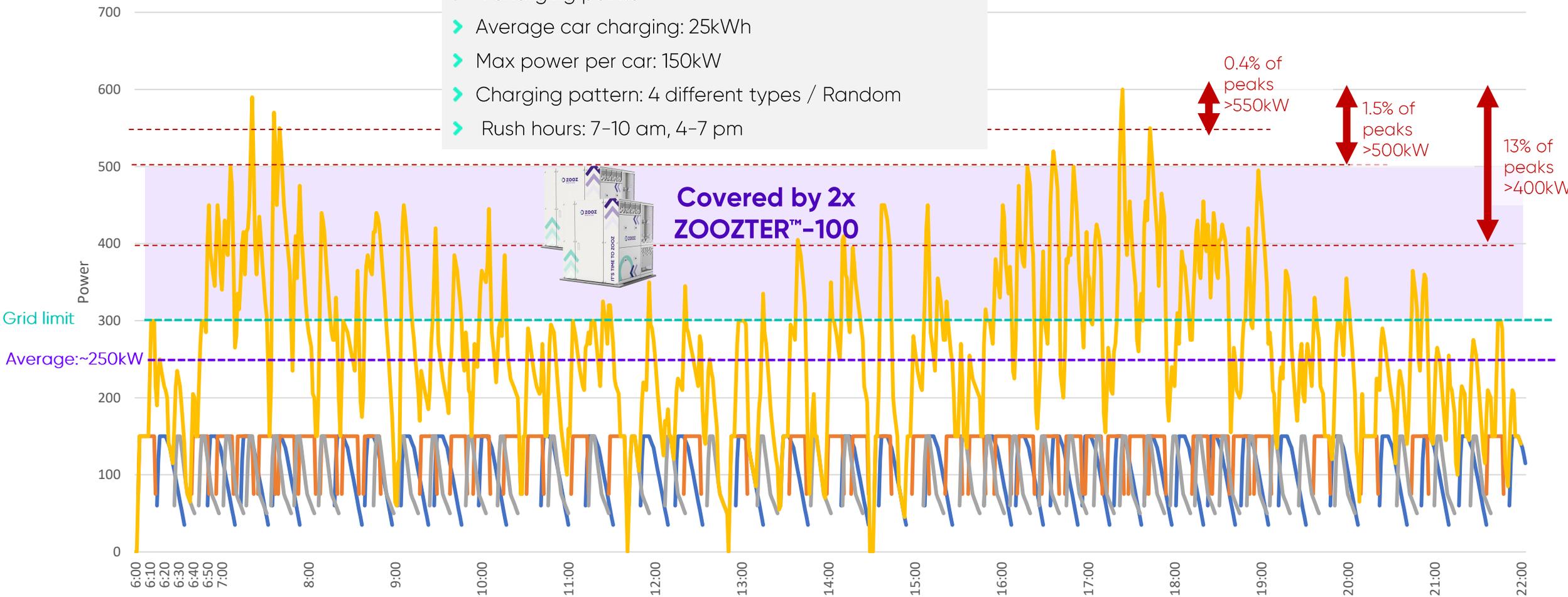
Charging Hub – Powered by ZOOZ

Random offset of charging - Stacked



Simulation of Charging Hub Demand with High Utilization

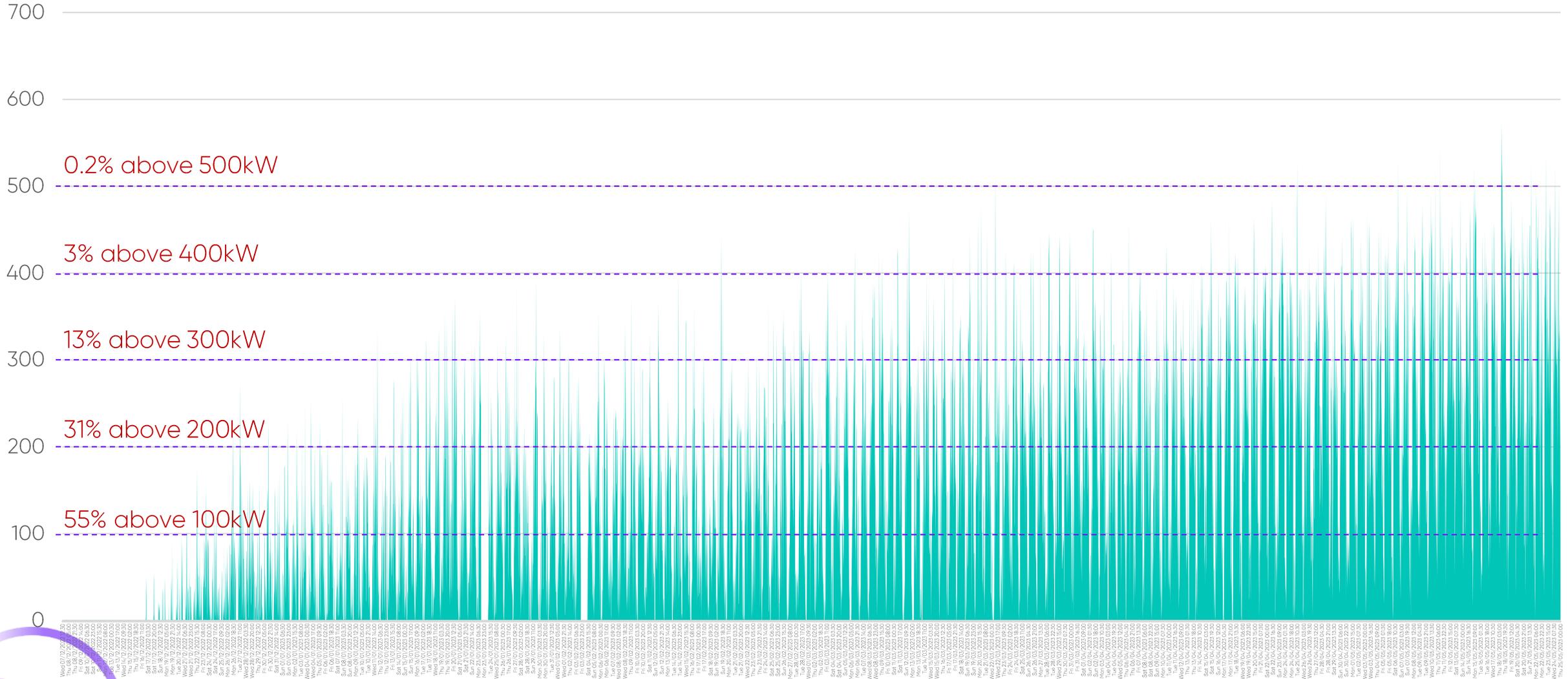
- > 100 cars per day (6 am-10 pm)
- 4 charging points
- Average car charging: 25kWh
- Max power per car: 150kW
- Charging pattern: 4 different types / Random
- Rush hours: 7-10 am, 4-7 pm



Covered by 2x
ZOOZTER™-100

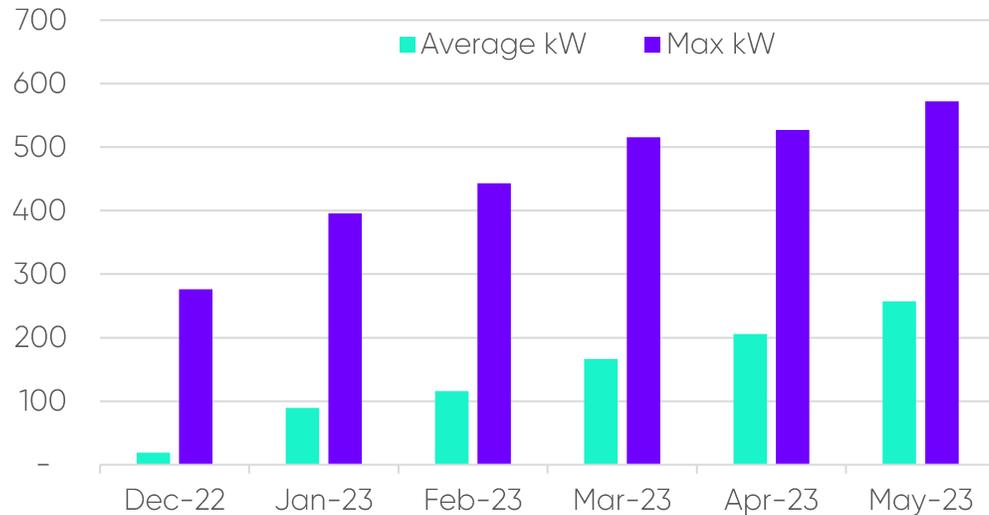
Demand Profile – UK Charging Hub

Active Power kW (Dec 22– May 23)

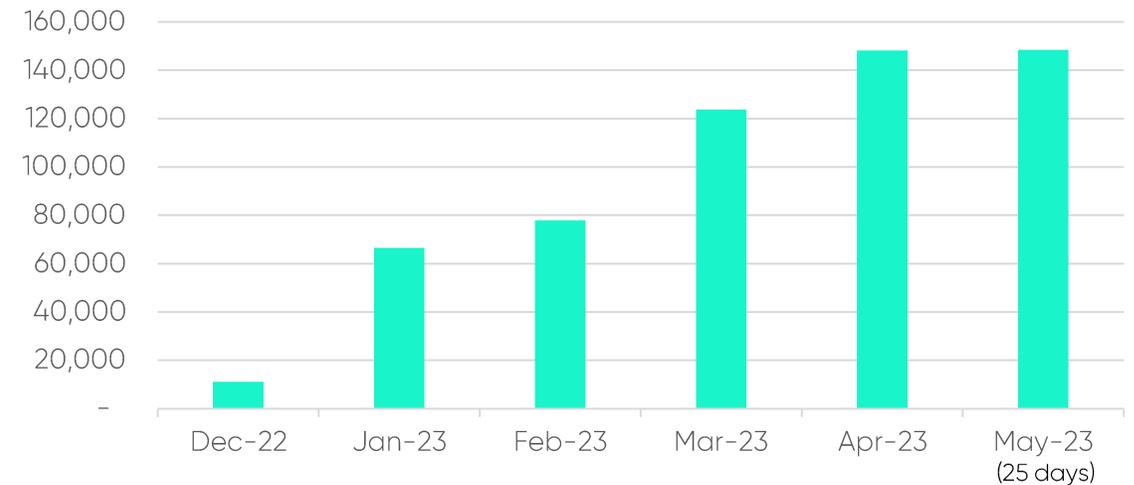


Demand Profile – UK Charging Hub

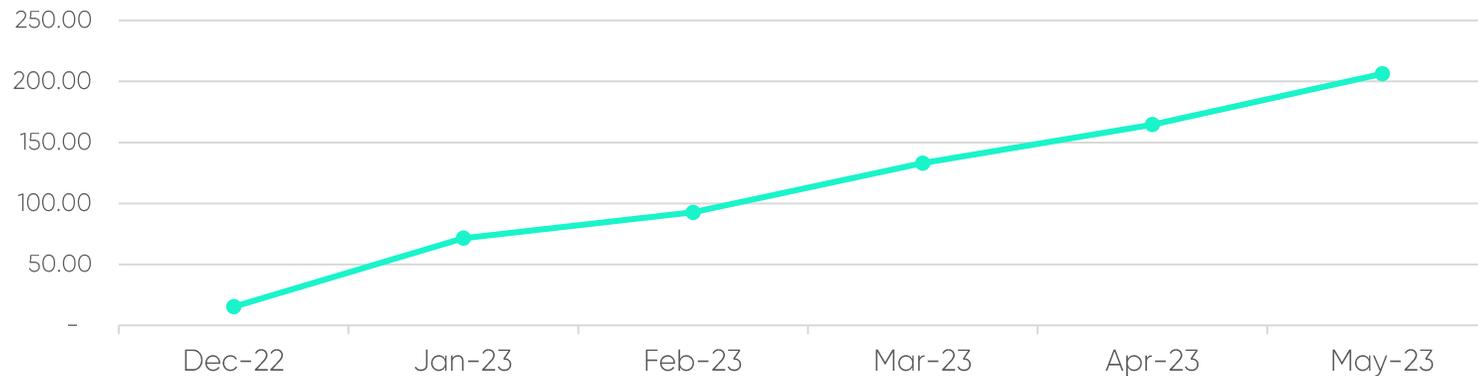
Active Power (Dec 22- May 23) Average & Max Power kW



Active Power (Dec 22- May 23) Total kWh / Month

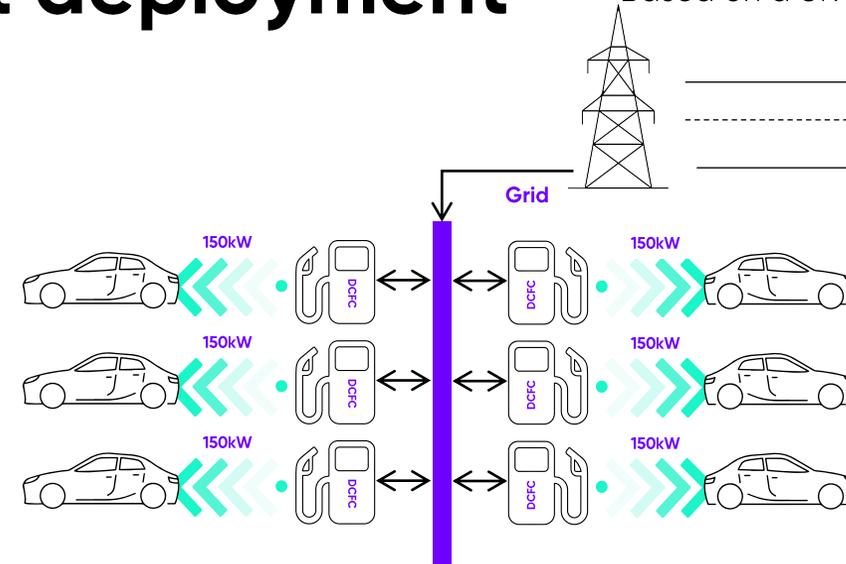


Utilization: Cars/Day (average of 30kWh per car)



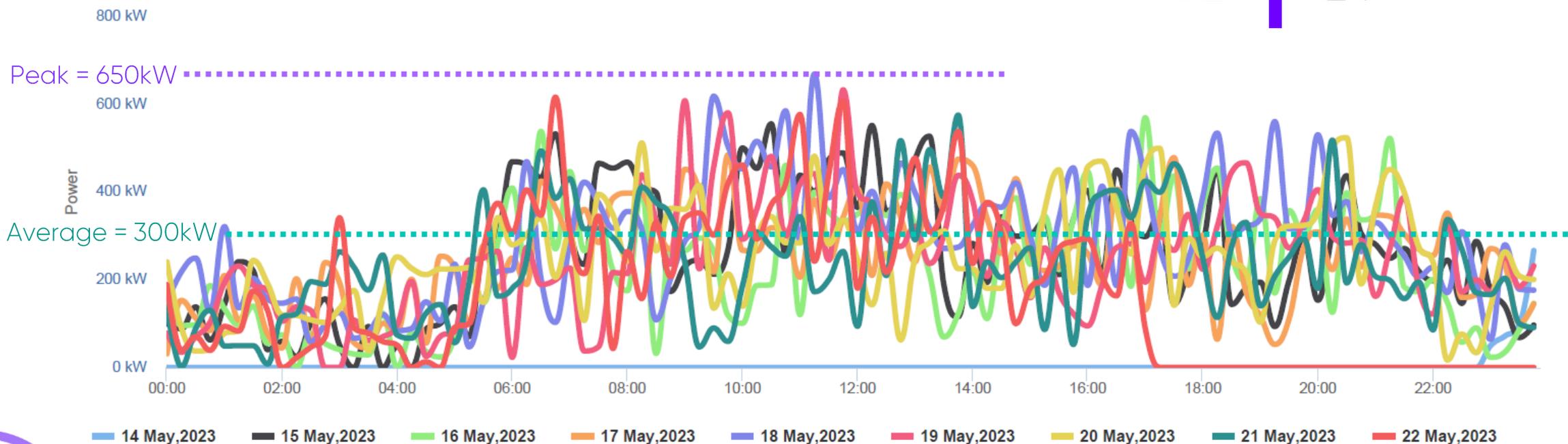
Based on a UK site data

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



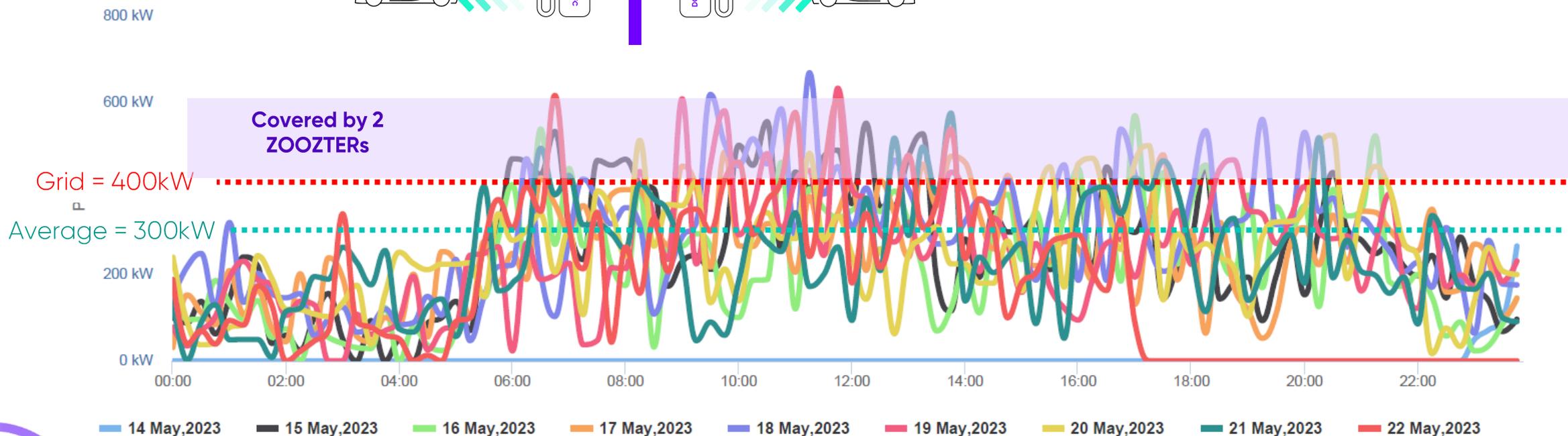
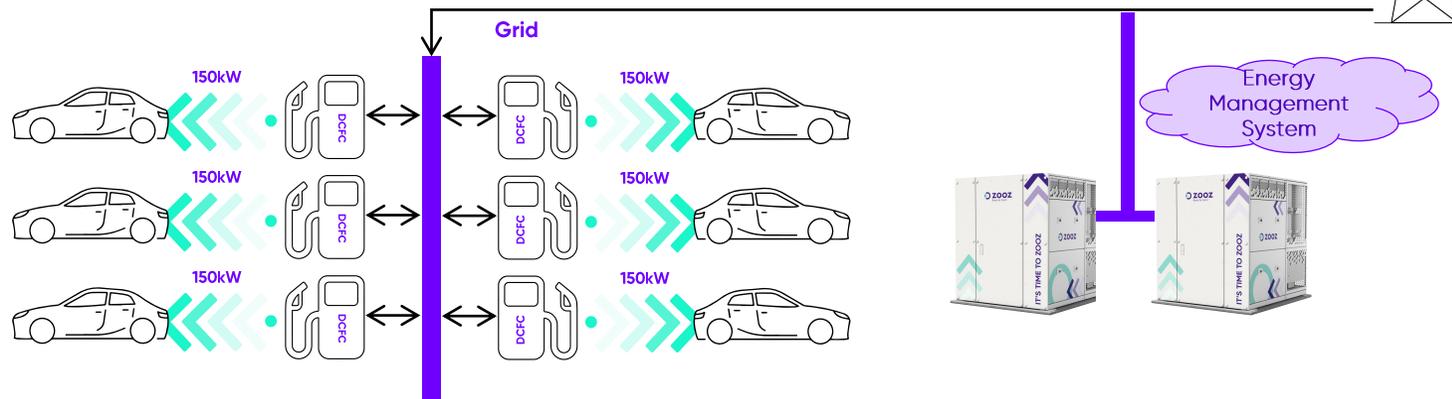
Grid = 900kW

Power Last 7 Days



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

- Grid: 400kW
- 6 Chargers X 150KW
- 2 ZOOZTER X100kW



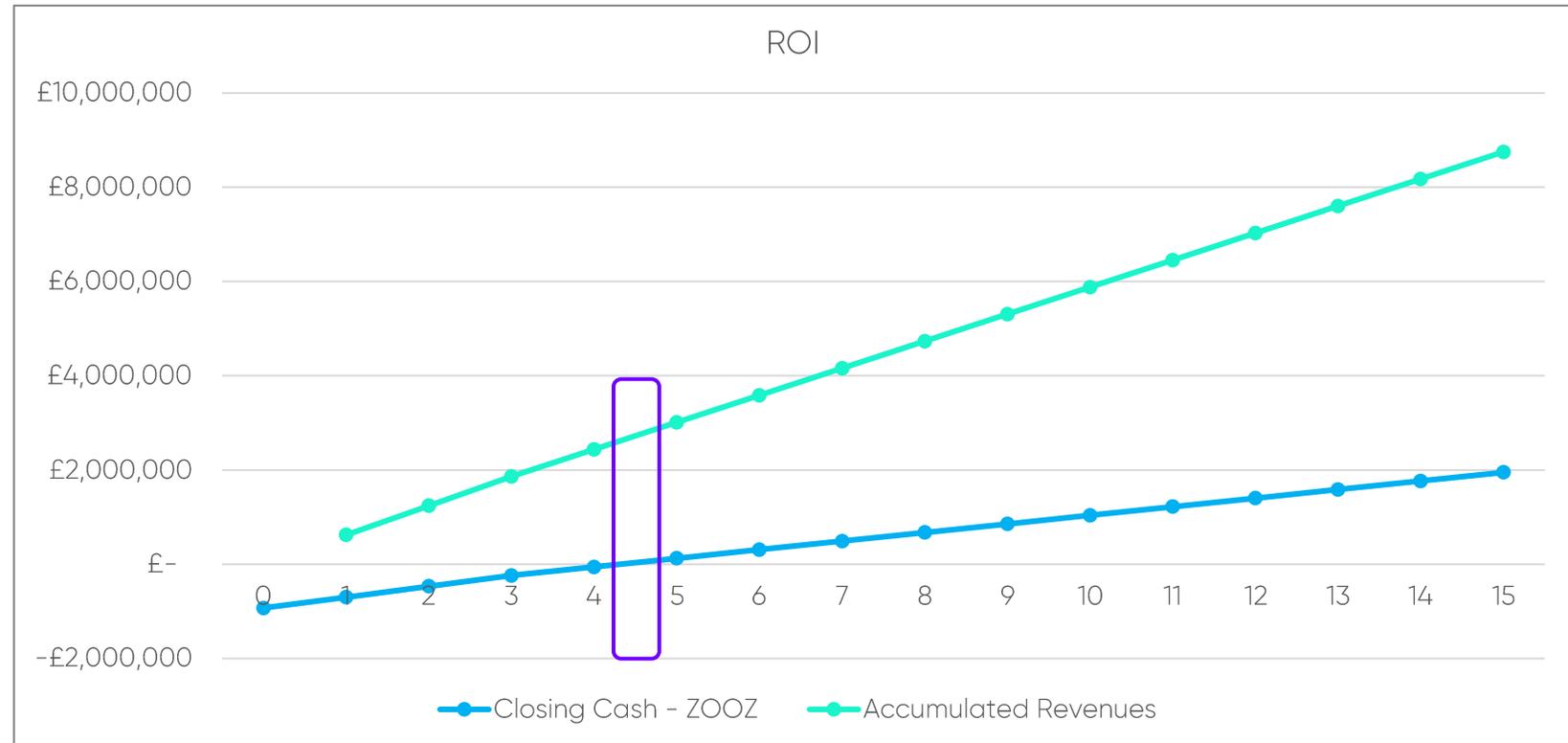
ROI (for 2 ZOOZTER +4 Chargers, 100 cars/day)

CAPEX			
	Costs	Qty.	Total
Power Booster	██████████	2	██████████
Ultra-fast Charger	██████████	4	██████████
Make Ready' Costs	██████████	1	██████████
Installation & Commissioning Costs	██████████	1	██████████
Investment			£ 927,143
Gov. Grant			£ -
Total investment	927142.66		£ 927,143

Technical Data			
Grid Connection at Site	250 kW		
Ultra-fast Charging capability	900 150x6		
Power Booster Round-trip Efficiency	80%		
Fast Charger Efficiency	95%		
Overall System Efficiency	81%		
Extended Range per Charging	200 km		
kWh to km conversion	6		
Average Charging per EV	26.2 kWh		
Average Charging EVs / Day	100.0		

Financial Data			
Booster Depreciation Period	15 years		
Charger Depreciation Period	10 years		
Rent Annual Fee	██████████		
Billing Annual Fee	██████████		
Other Annual Fixed Costs	£ -		
Billing recurring fee (%)	██████████ 2%	of Revenues	
Insurance Annual Cost	██████████ 0.6%	of Equipment Cost	
O&M Annual Cost	██████████ 0.4%	of Equipment Cost	
Other Variable Costs	██████████ 0.6%	of Revenues	
MSP Connection Cost (Per EV)	██████████ 0.48		
Electricity Cost	\$0.30	£/kWh	
Fast-Charging Price	£ 0.65	£/kWh	years 1-3
	£ 0.60	£/kWh	years 4+

Yearly Numbers of Charging			
Charged Electricity	956,300 kWh		
Consumed Electricity	1,176,582 kWh		
EV Charged - 1st year	100		
Y2Y Charging growth	15% years 1-3	6% year 4+	
Max EV Charging @ site	100		
Operating Days/year	365		



Summary

- EV infrastructure market is accelerating - supporting **HUGE potential** for our unique solution.
- Market education & learning period – **Perfect timing** for launching our innovative ZOOZTER™-100.
- First site in Israel – commercially operational for 5 months !
- **Moving forward with US penetration** – 4 Pilots with major partners to be operational by end '23*.
- **Two sites launched** in Germany !
Three more sites expected to be operational soon* !
Customer expressed intent to order 5 more sites* !
- Working on **additional opportunities** (Europe & US) while leveraging live sites and real recorded data.



* Company estimation, subject to changes



Legal Disclaimer

- The information included in this presentation is not comprehensive and does not include all the information on ZOOZ Power Ltd. ("ZOOZ" or the "Company") and its business. (the "Presentation") is not an offer or solicitation to buy securities of the Company, and its provisions are not a recommendation or an opinion. This Presentation includes forecasts, estimates, assessments and other information pertaining to future events and/or matters, whose materialization is uncertain and is beyond the Company's control, and which constitute forward- looking information, as defined in the Securities Law, 5728-1968. Such information may not materialize, in whole or in part, or may materialize in a manner significantly different to that forecast. No representation or warranty, express or implied, is made by the Company or any of its affiliated entities, as to the fairness, accuracy or completeness of the information contained herein. The past performance information contained herein is not indicative of future results and there can be no assurance that the Company will achieve comparable results or that the Company will be able to implement its investment strategy or achieve any investment objective. The summary information herein does not purport to be complete. No reliance should be placed on the fairness, accuracy, completeness or correctness of the information or opinions contained in this Presentation.
- This presentation is for informational purposes only and does not constitute or form any part of any offer for sale or subscription of, or solicitation of, any offer to buy or subscribe for any shares or other securities of the Company or any of its affiliated entities nor shall it or any part of it form the basis of, or be relied on in connection with, any contract, commitment or any investment decision whatsoever in Israel or in any other jurisdiction.
- This Presentation has been prepared to provide preliminary information about the Company to a limited number of prospective sophisticated and experienced investors, to assist them in determining whether they have an interest in investing in the Company. No legally binding obligations will be created, implied, or inferred from this Presentation.
- If any inconsistency shall be found between the information included in the Presentation and the information included in the Company's reports on www.magna.isa.gov.il, the information provided on www.magna.isa.gov.il shall prevail.
- With the exception of trademarks owned by the Company and / or trademarks which the Company has rights to use, any trademarks mentioned in this presentation are the property of their owners and are used in the presentation for the sole purpose of understanding the context. The use of such trademarks should not be construed as approval or verification of the Company's software, services or securities.

Enabling Ultra-fast EV charging Anywhere



x8





Appendix Slides



June 2023

USA - NEVI (National EV Infrastructure) Program

About NEVI:

- Federal funding of **\$5B** for EV-Charging along **Alternative Fuel Corridors**
 - To be allocated by state DOTs in '22-'26
 - Plans approval by FHWA, by Sept. 30th each year
 - Federal cost-share - up to 80%.
- Additional **\$2.5B** in discretionary funding – No guidance yet



Requirements For Charging Infrastructure:

Installed **every 50 miles** along state's interstate HW **within 1 mile of the exit**

Include **min. 4 x 150kW DCFC** capable of simultaneously DC charging of 4 EVs

At food retailers, convenience stores, etc.
(publicly accessible locations)

Scalable Offering for Charging-Hub

> Land Grab

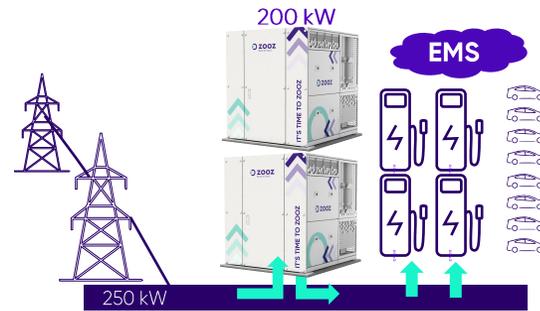


ZOOZTER enables:

- Grid upgrade deferral
- Early start of service

> Increased Utilization

50-100 Cars, Grid 250kW



Additional ZOOZTER & EMS enable increasing hub's utilization with **limited grid upgrade,**

> High-demand Operation

>100 Cars, Grid 250kW

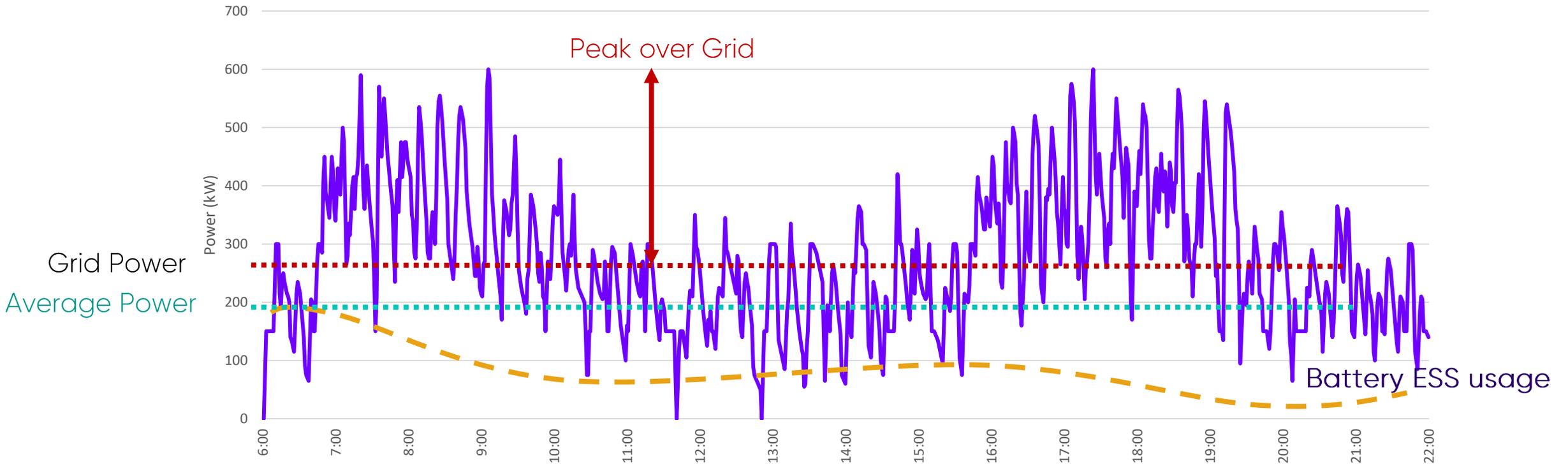


A hybrid solution required only for very high-utilization to enable additional capacity during high-demand hours

Gradual CAPEX investment, Minimizing OPEX (demand charges), Increasing revenues

Hybrid Solution Serving Charging Hub with Very High Utilization

Daily Profile of Charging



- Grid supports average energy/power consumption
- Battery ESS supports peak demand during rush hours
- Flywheel-based Booster – front-end storage to support multiple/frequent cycling
- Avoiding HUGE demand charges