



Battery-buffered charging solutions

**Less Grid Expansion,
More Revenue.**

We Empower Your Business.

We believe that the energy supply of the future will be decentralised and flexible. Renewable energy will replace fossil fuels.

Our futureproof smart products put the energy transition within reach. Our customers are already electrifying their energy applications and using electricity when they need it, cost-effectively and off-grid.

In times of change, we offer solutions that are long-term, safe and profitable.

With our advanced battery storage and ultra-fast DC charging systems, we provide our customers in the energy and mobility sectors with a secure and reliable basis for their business models. Developed and manufactured in Germany, our integrated solutions offer more than meets the eye. With our reliable systems, we help our customers to increase their independence and secure their position during the energy transition.

- 2024**
Sweden's largest battery storage system with > 20 MW
- 2022**
Market launch of ChargePost
- 2021**
Nasdaq listing
- 2018**
Development of ChargeBox
- 2010**
Foundation of ADS-TEC Energy
- 2007**
First battery pack developed in house

The transformation of the energy system

Green energy: The future of our energy supply

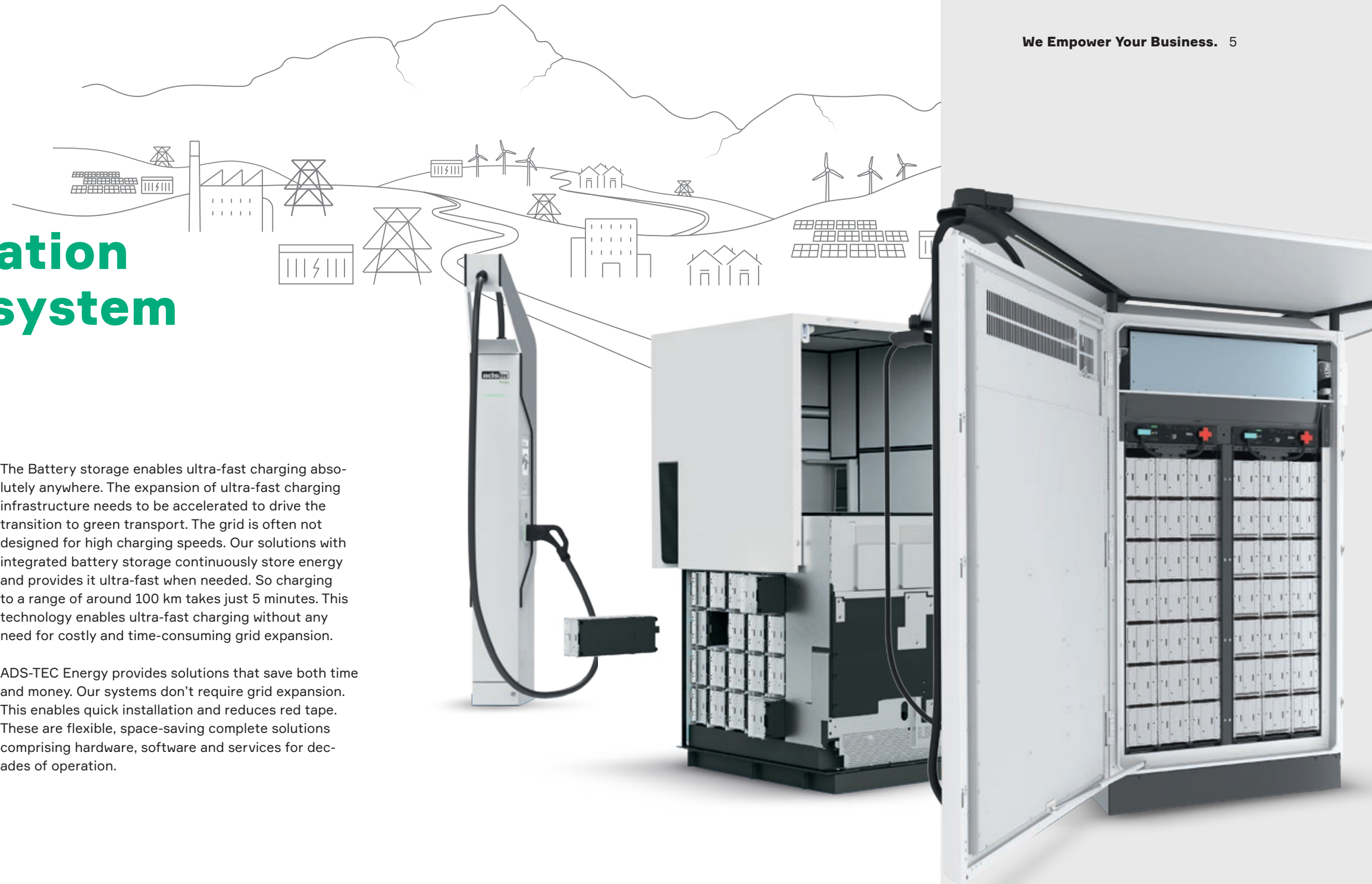
Green electricity is generated by solar panels, wind turbines and hydroelectric power stations. But renewable energy sources are not always available. The sun only shines during the daytime, and the wind is irregular. This poses a challenge, especially when electric vehicles also require additional power. Another factor is that the energy system of tomorrow will be decentralised. A large number of small power plants will need to be intelligently controlled.

Our solution: Battery-based energy storage and charging solutions.

This is where battery-based solutions from ADS-TEC Energy come into play. Our battery-based charging solutions are equipped and designed for the challenges of tomorrow.

The Battery storage enables ultra-fast charging absolutely anywhere. The expansion of ultra-fast charging infrastructure needs to be accelerated to drive the transition to green transport. The grid is often not designed for high charging speeds. Our solutions with integrated battery storage continuously store energy and provides it ultra-fast when needed. So charging to a range of around 100 km takes just 5 minutes. This technology enables ultra-fast charging without any need for costly and time-consuming grid expansion.

ADS-TEC Energy provides solutions that save both time and money. Our systems don't require grid expansion. This enables quick installation and reduces red tape. These are flexible, space-saving complete solutions comprising hardware, software and services for decades of operation.



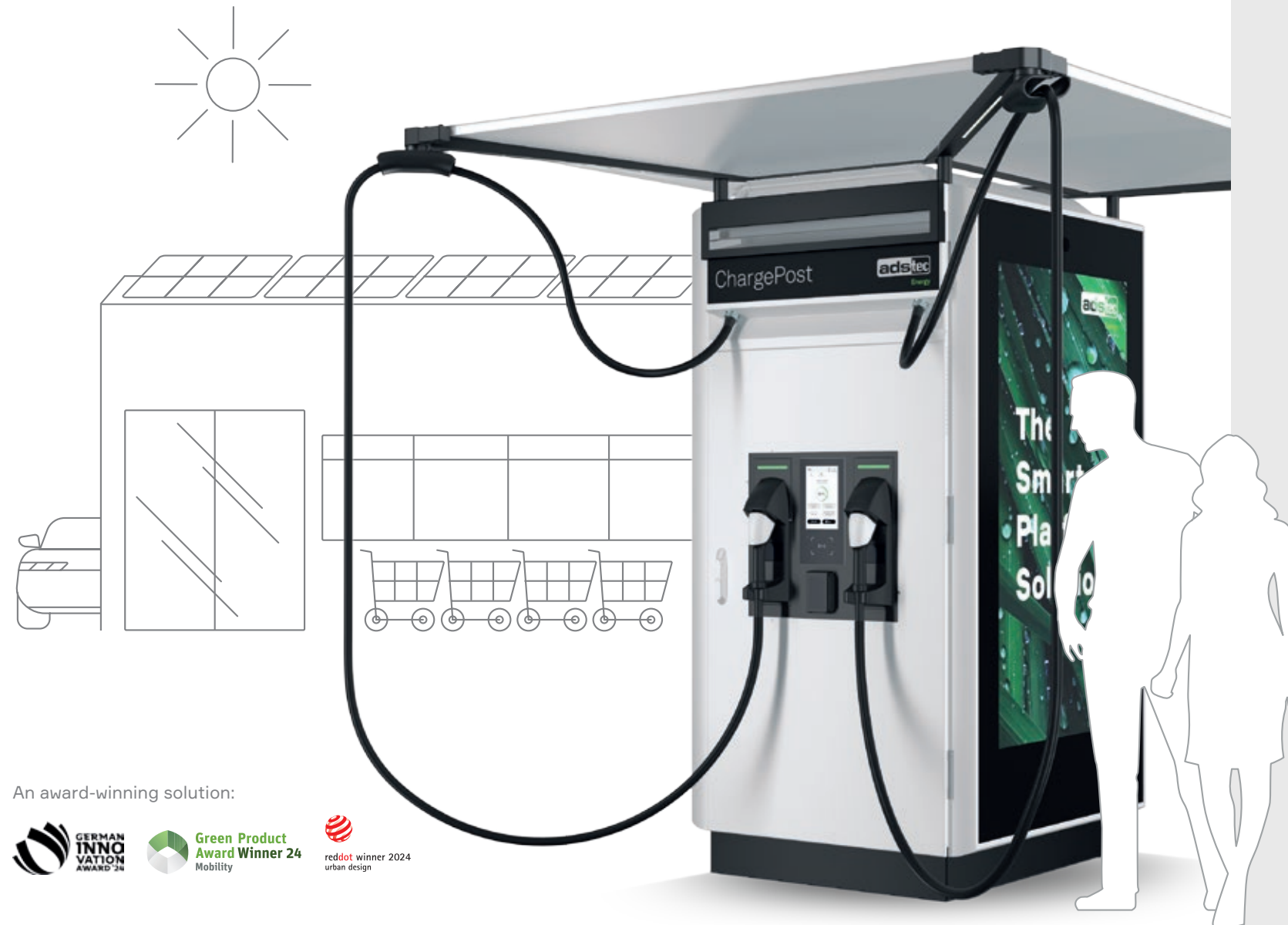
ChargePost

The all-in-one charging solution for the challenges of tomorrow.

ChargePost enables ultra-fast charging of electric vehicles, independent of the power from the grid. The integrated battery storage system stores energy from the power-limited grid and delivers up to 300 kW of charging power, eliminating the need for expensive grid expansion.

At night or when not in use, the battery capacity can be used for additional purposes or fed back into the grid, increasing sustainability and profitability. Two large HD screens provide space for advertising and information. The bidirectional nature of the battery storage system means it can be used for peak shaving or to feed power back into the grid. Multiple ChargePosts can be linked together to form a virtual power plant for trading on the electricity market. Using PV electricity cuts energy costs and the load on the grid, making ChargePost an economically and environmentally sound solution.

This innovation paves the way for electromobility and offers companies an attractive, versatile charging infrastructure.



An award-winning solution:



Up to 201 kWh
of battery capacity.

Up to 300 kW
or 2 x 150 kW
of ultra-fast charging.

75-inch
4K advertising displays.

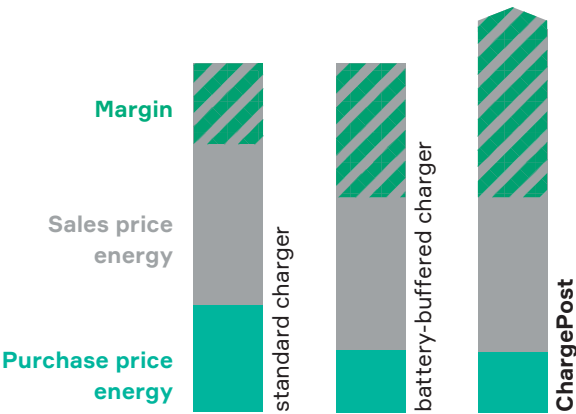
Ca. 5 min.
of charging for over
100 km of driving.

What added value do battery-buffered charging solutions offer compared to other options?

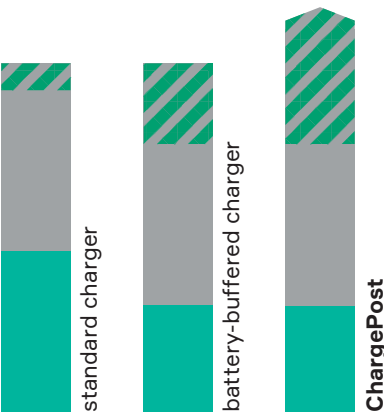
To make a valid statement about the cost of a charging solution over its entire life cycle, all investments need to be considered in the calculation. This includes necessary expenses such as power grid expansion and substations. In addition to installation costs, ongoing operating costs, including potential demand charges also need to be considered.

At the present, these demand charges intensively soar. Battery-based charging solutions such as the ADS-TEC Energy ChargePost are largely independent of those price increases. So this solution may prove to be more affordable over its entire life cycle than alternatives without integrated battery storage, and it can deliver a faster return on investment.

Comparison business case today

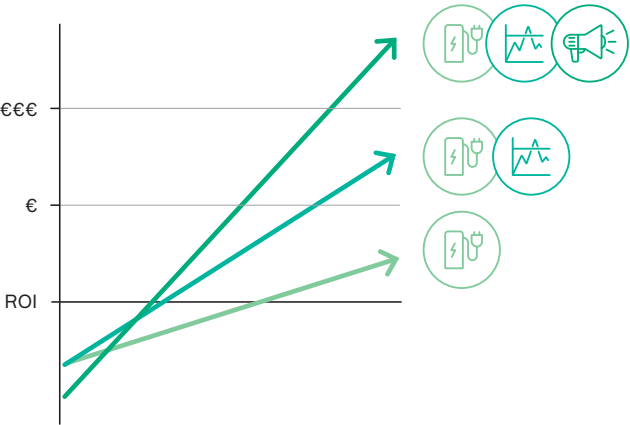


Comparison business case tomorrow



More than just EV charging

Our battery-based, ultra-fast charging solution is not only ideal for aligning your business model with electric vehicle (EV) charging. ChargePost also offers a host of complementary business opportunities. Even at locations where a high utilisation is not yet expected today, ChargePost introduces potential business models. There are benefits even for high-utilised charging points: return on investment (ROI) can be achieved faster than expected, making the site profitable sooner.



Arbitrage

ChargePost allows you to trade energy. You can even purchase energy when costs are low or even negative and store it in the battery storage system. Since electricity can be fed back into the grid, it can be traded on the electricity market.



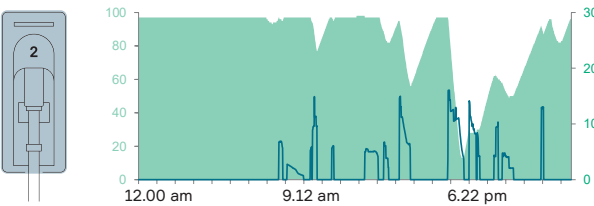
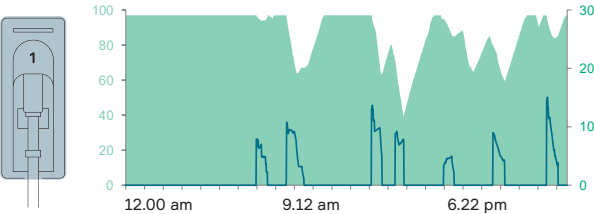
Self-consumption optimisation

Use your renewable energy more efficiently: Store surplus solar power in the integrated battery storage system and increase the share of renewable energy. Good for the environment and cost-effective operation.



Advertising (DOOH)

Our solution offers up to two 75-inch Ultra-HD screens to make the charging station even more profitable, even in low-traffic locations. Increase revenue and shorten your ROI by generating additional income from digital out of home advertising.



Max. charging power: 169 kW

24 charging sessions

Input Power: 63 kVA

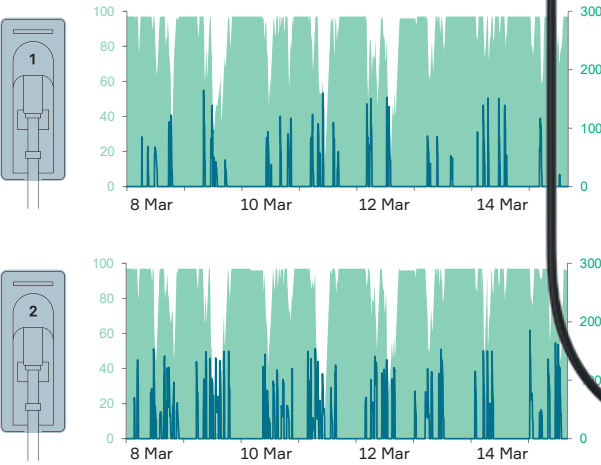
880 kWh charged

The charts show real data from a charging location equipped with an ADS-TEC Energy ChargePost. They show the charging curves of the electric vehicles and the state of charge of the battery storage system. The data includes charging sessions over a period of one week (see page 10) and a single day (see page 11).

State of charge Charging power

What happens in the battery storage system at high-traffic charging points?

Our innovative storage technology enables ultra-fast charging of dozens of vehicles day in, day out. The storage system can operate continuously in all directions and even recharges itself while charging a vehicle. Thanks to our extensive field data and analyses, we can demonstrate that ultra-fast charging is possible at all times, even at high-traffic points.

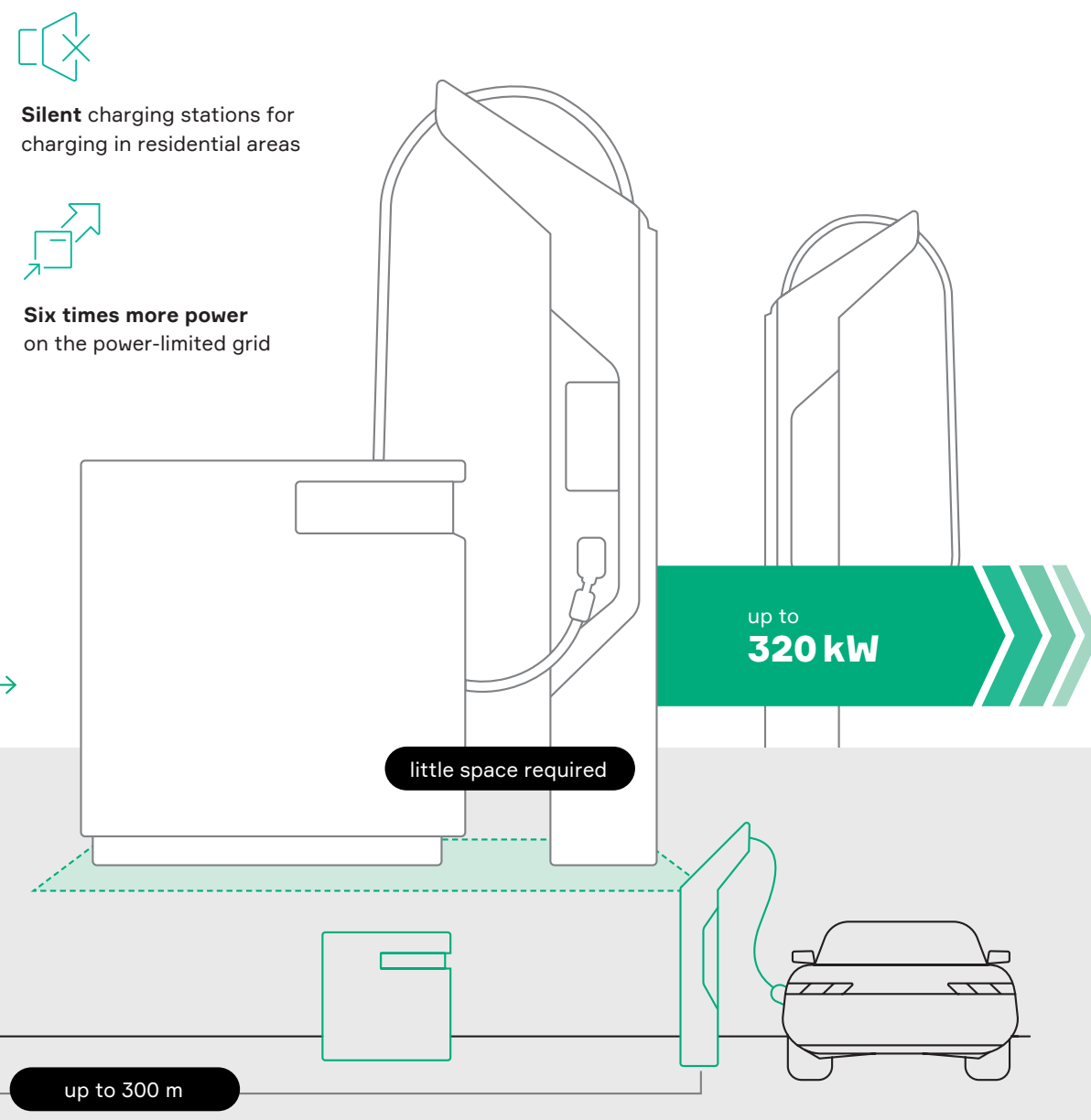
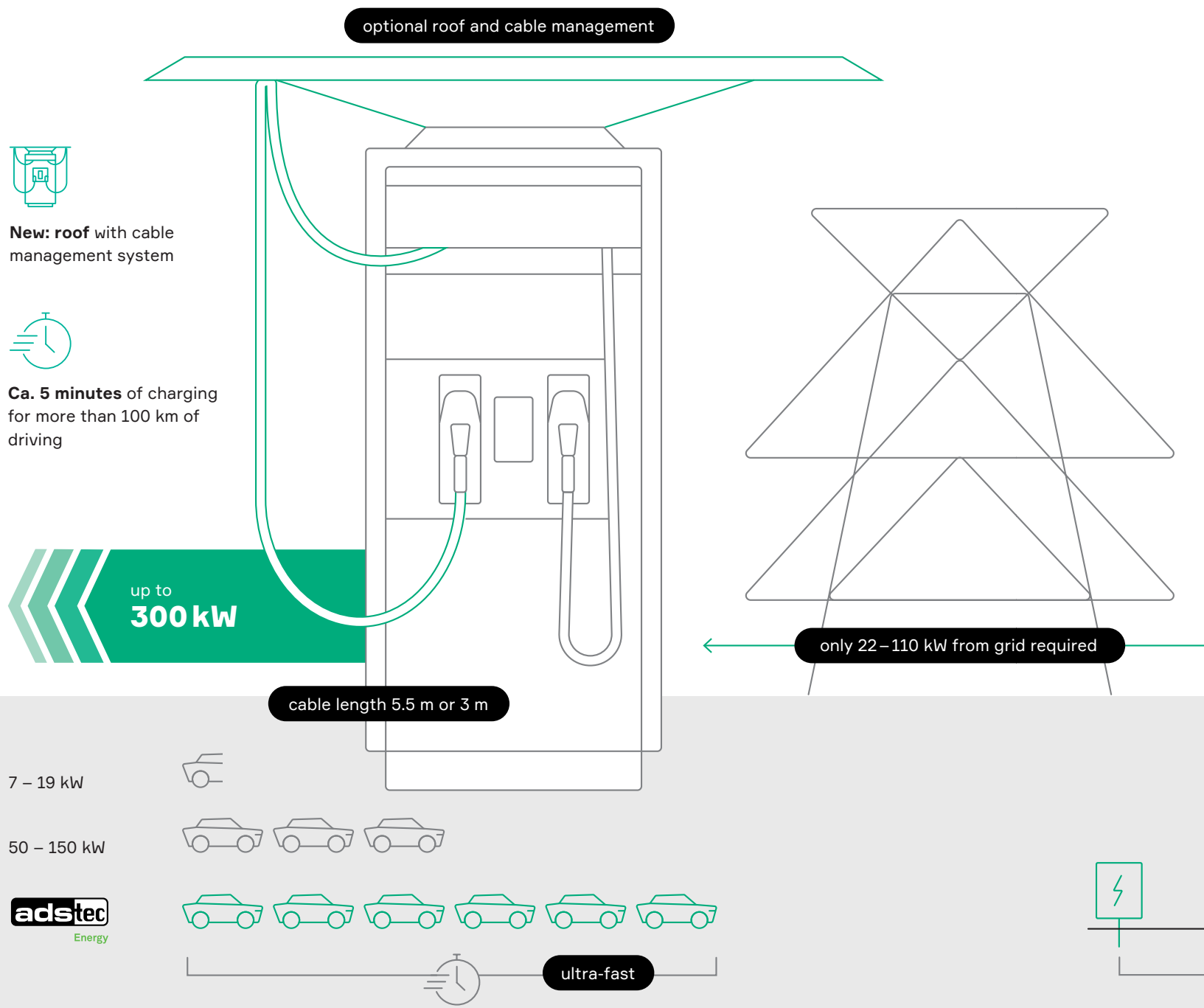




EV charging	Charging power	Two charging points with up to 1 x 300 kW or 2 x 150 kW simultaneously
	DC output voltage	150 – 920 V DC
	Max. charging current (output)	Max. 400 A
	Charging cable	Uncooled, CCS2 plug
	Cable management	Cable arms, optional roof (weather protection)
	Usable cable length	3 m or 5.5 m (with cable management)
Battery	Gross capacity and cell technology	Up to 201 kWh, lithium-ion
	Battery module weight	< 25 kg, easy to replace
Grid connection	Input voltage AC	400 V (+/- 10%)
	Input power	22 – 87 kW
	Connection	Fixed installation with terminals
Advertising display	Number of monitors	0, 1 or 2 monitors
	Size and resolution	75", 4K (2,160 x 3,840 px)
	Remote ad content upload	Yes, open platform for third-party CMS
	Night mode	Automatic adjustment of display brightness
User interface	HMI	1x10" HD touchscreen, sunlight-optimised
	RFID reader	Integrated into HMI
	Payment terminal	1 x credit/debit card reader with pin on glas; Contactless payment
Operation	Mode of operation	Consumer unit; consumer and generator unit
	Regenerative power	Up to 87 kW
General data	Dimensions (HxWxD)	2.4 x 1.3 x 1.5 m
	Weight	2.1 t* (excl. battery modules), approx. 3.2 tonnes* (incl. battery modules)
	Certification	IEC 61851-23/ISO 15118/DINspec70121
	Protection type and class	IP54; IK10/payment terminal IK8, HMI unit IK8.5
	Operating temperature range	-20°C to +40°C**
	Noise emission	Adjustable, optimised for urban environments
	Communication channels	Three separate communication channels (4G/LTE for back-end, monitoring and remote service, advertising)
	Backend protocol	OCPP 1.6J, OCPP 2.0.1 in development
	DC Meter	Integrated, each with viewing window Compliant with calibration regulations/MID

* Total weight depending on configuration. ** Depending on configuration
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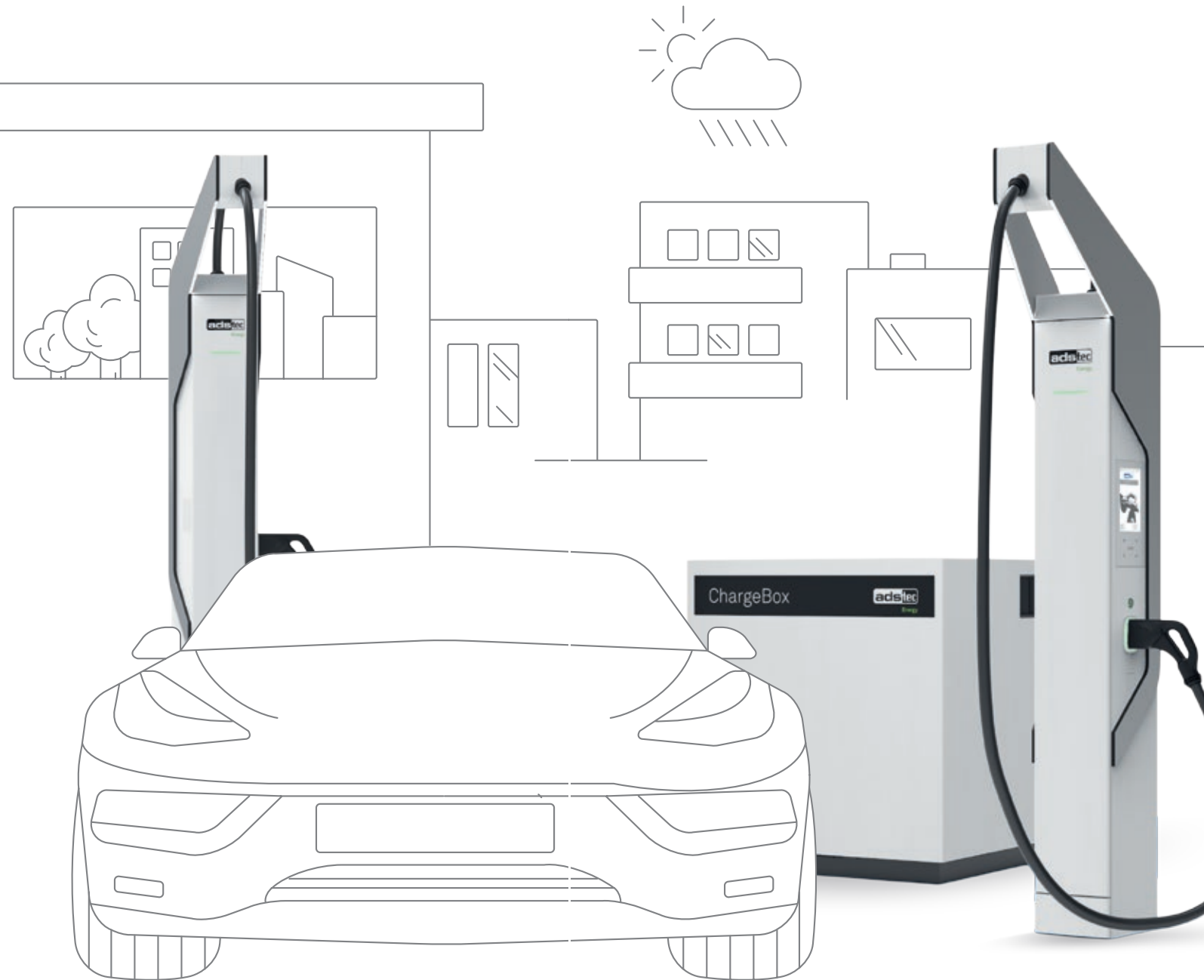


ChargeBox System

More flexible and futureproof

Our ChargeBox offers flexible installation options to make your charging project fast, efficient and affordable. With a charging power of up to 320 kW, the ChargeBox enables ultra-fast charging even on a power-limited grid, eliminating the need for expensive and time-consuming grid expansion.

The separation of charging station and battery storage system allows maximum flexibility in the placement of system components; the grid connection and charging point can be up to 300 metres apart. Compatible with voltage ranges from 150 to 920 V, the ChargeBox is a compact, efficient and futureproof charging solution that meets both present-day and future electromobility needs. Discover the ChargeBox and benefit from a flexible, powerful and futureproof solution for your charging infrastructure.



140 kWh
of battery capacity.

Up to 320 kW
or 2 x 160 kW
of ultra-fast charging.

1.6 m²
installation footprint.

Up to 300 m
between grid connection
and charging point.

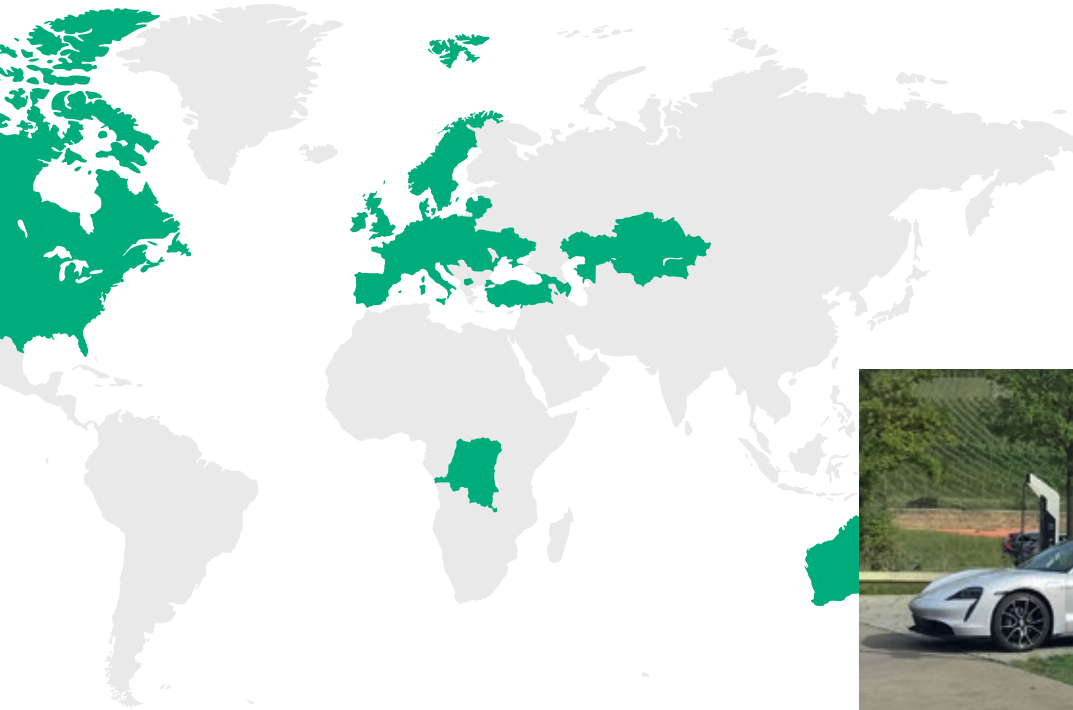


EV charging	Charging power	Two charging points with up to 1 x 320 kW or 2 x 160 kW simultaneously
	DC output voltage	150 – 920 V DC
	Charging cable	Liquid-cooled, CCS2
	Usable cable length	3.8 m
Battery	Gross capacity and cell technology	Up to 140 kWh, lithium-ion
	Battery module weight	< 25 kg, easy to replace
Grid connection	Input voltage AC	400 V (+/- 10%)
	Input power	39 – 110 kVA
	Input current	Max. 186 A
Installation option	ChargeBox Booster	Outdoor use, up to 200 m from the grid connection
	Booster dimensions (L x W x H)	1.3 x 1.3 x 1.4 m plus foundation and underground cabling**
	ChargeBox Dispenser	Indoor and outdoor use, up to 100 m away from the ChargeBox Booster
	Dispenser dimensions (L x W x H)	0.4 x 0.4 m (footprint) x 2.7 m
User interface	HMI	1x10" HD touchscreen, sunlight-optimised
	RFID reader	Integrated into HMI
General data	Booster weight	2.8 t (incl. cooling medium and batteries)
	Dispenser weight	170 kg
	Certification	61851-23, ISO 15118, DIN 70121
	Protection type and class	Dispenser: IK9, IP55; Booster: IK8, IP54
	Operating temperature range	-30°C to 50°C
	Noise emission	Quiet charging with the Dispenser
	Back-end connection	Fibre-optic (FO) cable, 4G, Ethernet
	Back-end protocol	OCPP 1.6J
Energy measurement		Integrated, one per charging point, each with viewing window Compliant with calibration regulations/MID

* Depending on grid connection power/vehicle voltage/vehicle charging curve
** Above-ground version approx. 0.6 m higher *** Subject to approval of local authorities
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References

Our ultra-fast charging solutions ChargeBox and ChargePost are used worldwide with over 2,500 charging points. Our customers include CPOs, OEMs, fleet operators and utility companies. They all wanted a futureproof, ultra-fast charging solution that would allow them to deploy fast charging points independently of the existing grid.



ServiceCrew

We Empower Your Products.

Our service team will support you with all matters relating to your ADS-TEC Energy charging and storage solutions. As a reliable partner, we'll be at your side from installation to maintaining of your system components. With our comprehensive service portfolio, we guarantee a high level of economic availability for your equipment. Our experienced and competent service team members work in a customer-focused and goal-oriented manner, so you can concentrate completely on your core business.

Contact our ServiceCrew

Please contact our team if you have any service enquiries.



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Remote and on-site service

Our experts provide rapid remote diagnostics and on-site support for your storage and charging solutions. Qualified staff ensure stable operation of your systems through maintenance and rapid troubleshooting.



Service agreements

Efficient remote maintenance, comprehensive protection and guaranteed availability. High-quality spare parts availability ensures long-term functionality. Extend your warranty by up to seven years.



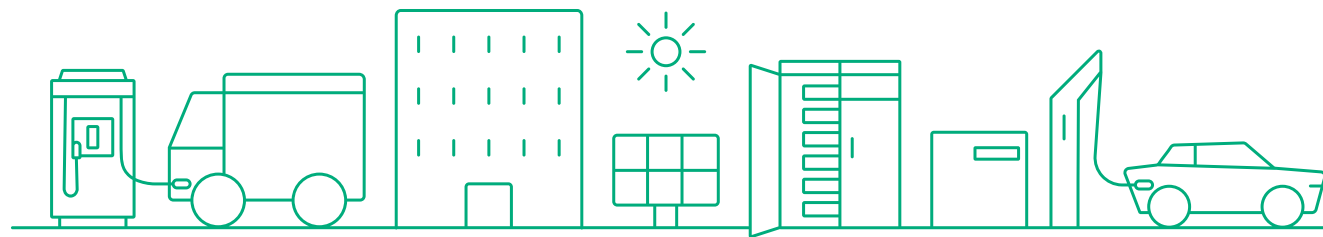
Training

Our customised training enables your team to troubleshoot, maximises equipment availability and provides immediately applicable expertise on operation, installation, commissioning, safety and maintenance.



Spare parts

Top quality and fast availability: ADS-TEC Energy delivers original spare parts for your equipment on time. You benefit from solution-oriented consulting, tailor-made packages and ultra-fast worldwide delivery.



We Empower.



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