

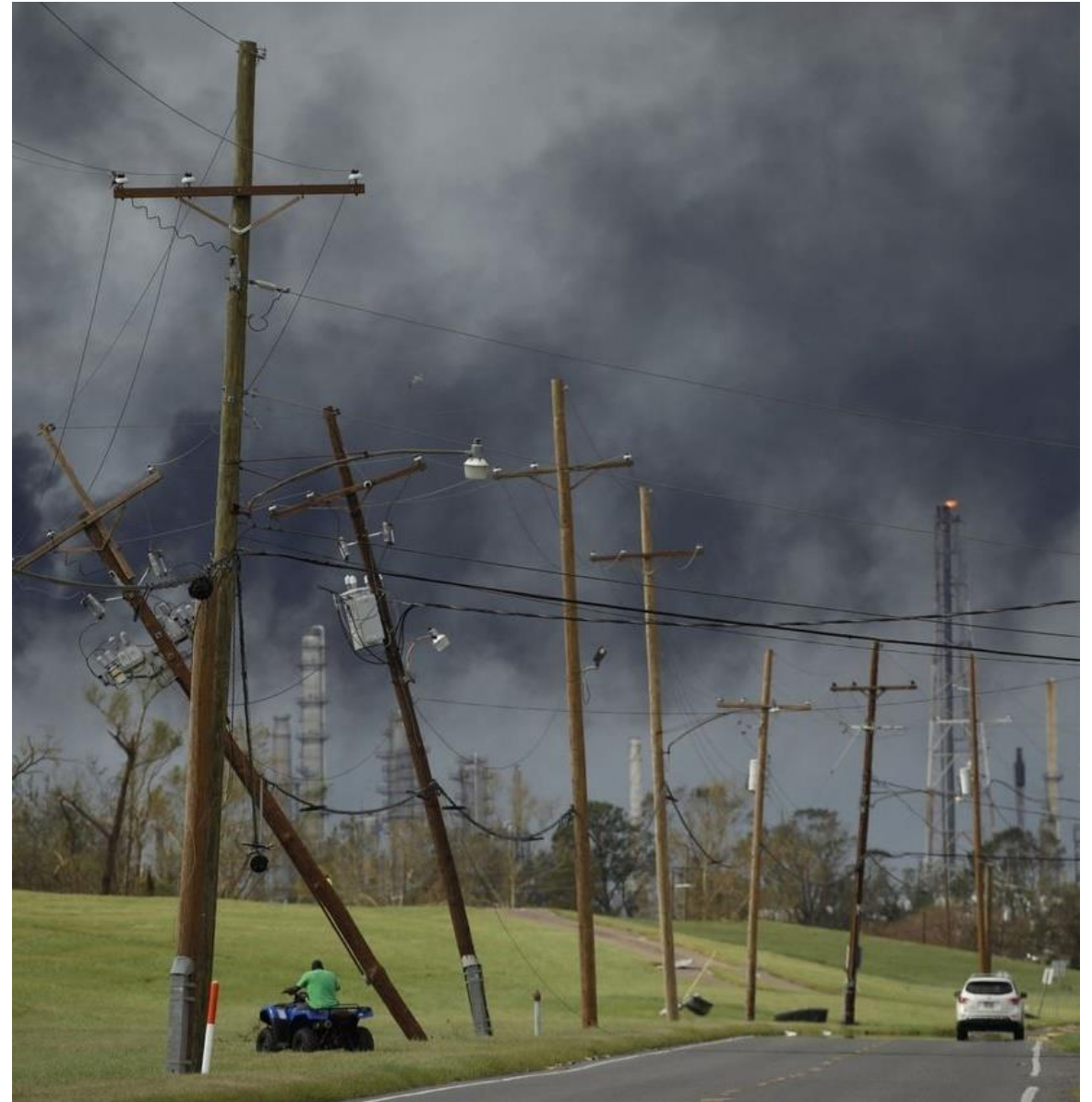
Enabling Ultra-fast Charging on Today's Power-Limited Grids



Michael Spurr
19/07/2024

Will the electricity grid be a bottleneck for electrification?

- Electricity transmission systems need to be expanded significantly (+60% by 2025)
- >70% of the grid transmission lines and power transformers are **over 25 years old**
- Local level: **Increased stress on grid resources from electrification**

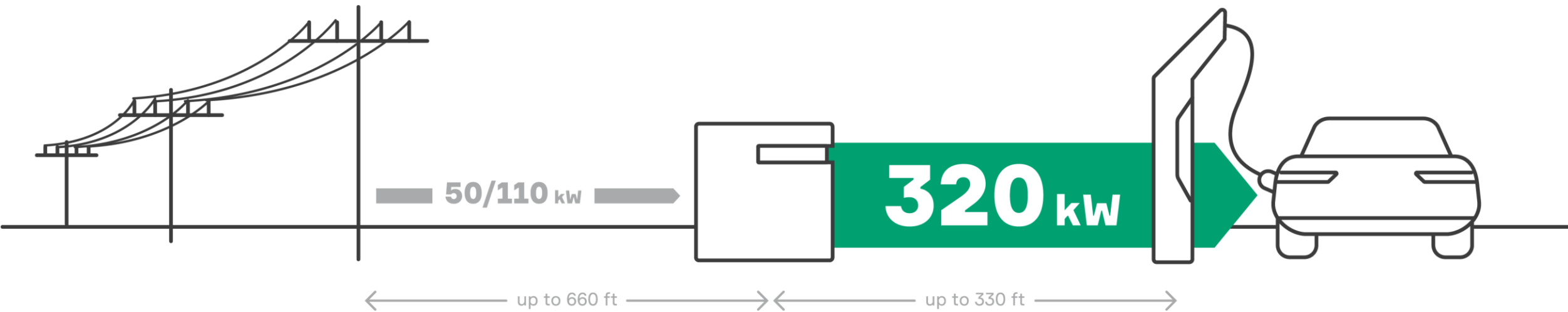


Battery-buffered DC fast charging – reduces peak power demand by 65% vs. common DC chargers

Low power input from the grid

Battery-storage system (booster)

High power output ultra-fast charging



No grid expansion necessary & reduced operating costs (demand charges)

Our solution: ChargeBox System

Global market leader in performance and size


Ultra-fast charging system

Field-proven >98% uptime

No power transformer required

Works with low power grid

Reduced demand charges

 EV charging power up to 320 kW

 Battery capacity 140 kWh

2 x ChargeBox Dispenser →



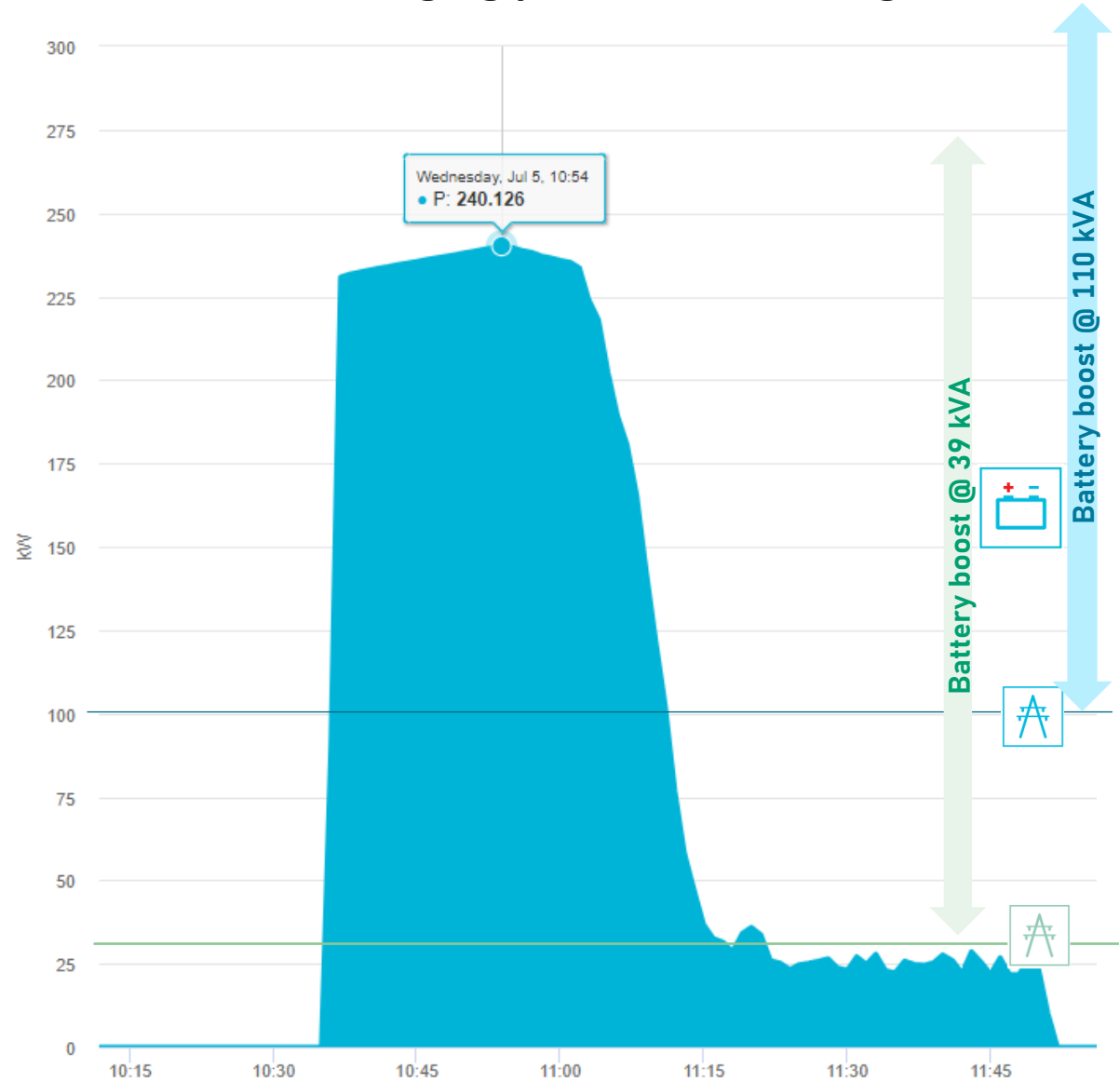
↑ ChargeBox Booster



Battery-buffered truck charging solutions



240 kW charging power on 39 kVA grid



Use cases and examples



**283kW charging power with only 40kW input power
(at ChargePost)**

Thank You



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