

buzzard

by **multipowr**

buzzard

High power wireless power transfer at Multipowr

TETRA Draadloze Energie overdracht: Seminar 09/10/2025
Dr. Cédric Lecluyse, CTO Multipowr

Agenda

- Introduction of Multipowr
- High power wireless power transfer at Multipowr
- Product presentation
- Applications
- Demonstration

buzzard wireless charging solution

for industrial electric vehicles

No more extended downtime for recharging. Thanks to the buzzard, your industrial electric vehicles work 24/7 for you

How does it work



GET IN TOUCH >



The locations

Belgium: Ghent HQ

- Experience in power electronics since 1998
- Electronics & hardware design
- PCBA engineering and research



Hungary: Simonyi Technologies Budapest

- Electronics & hardware design
- Mechanical design
- Firmware & software design

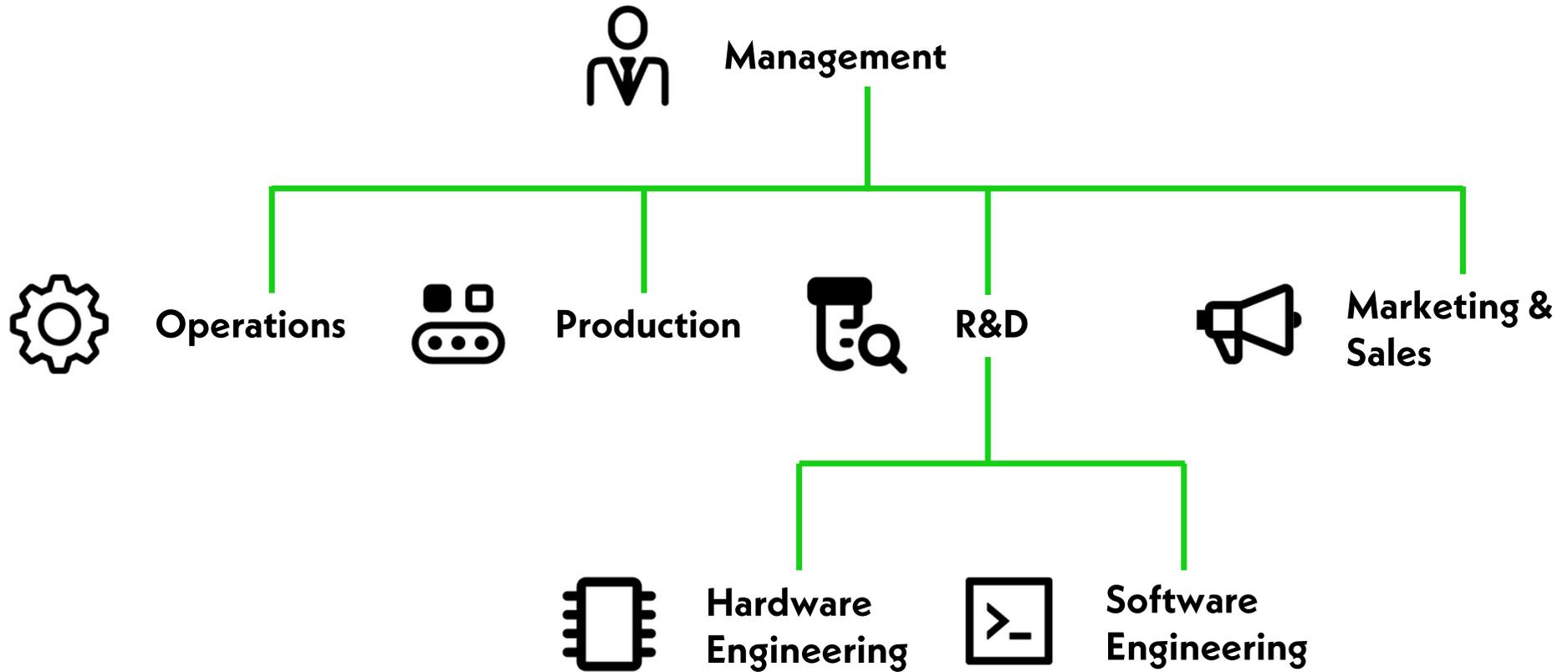


Hungary: Simonyi Technologies Szegy

- Production and assembly
- Technical and functional testing
- PCBA programming and testing



All under one ownership & management



Our mission

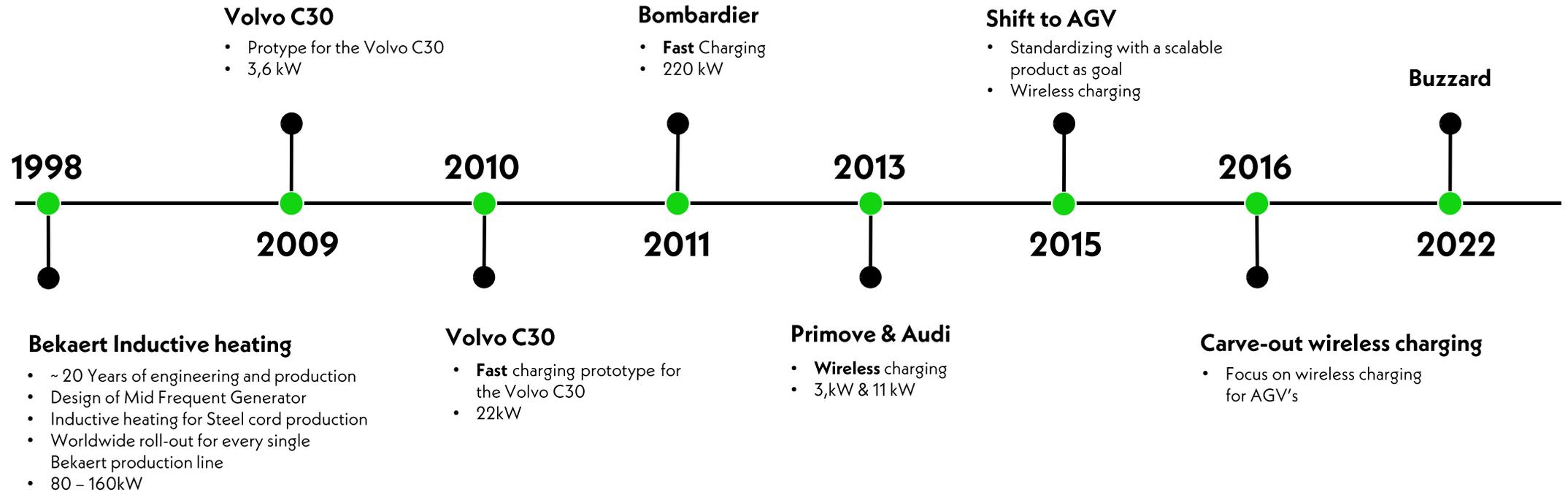
At **Multipowr**, our mission is to revolutionize the wireless charging industry through cutting-edge technology and innovation.

We are committed to providing **configurable, standard, and intelligent** inductive charging solutions, with our flagship product buzzard at the forefront.

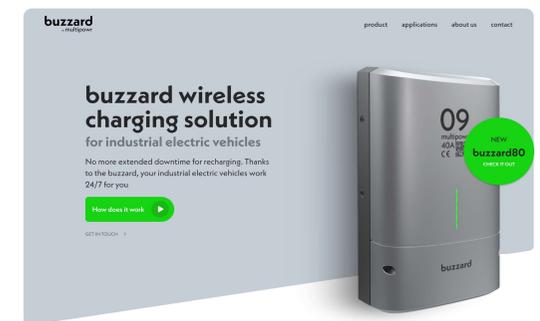
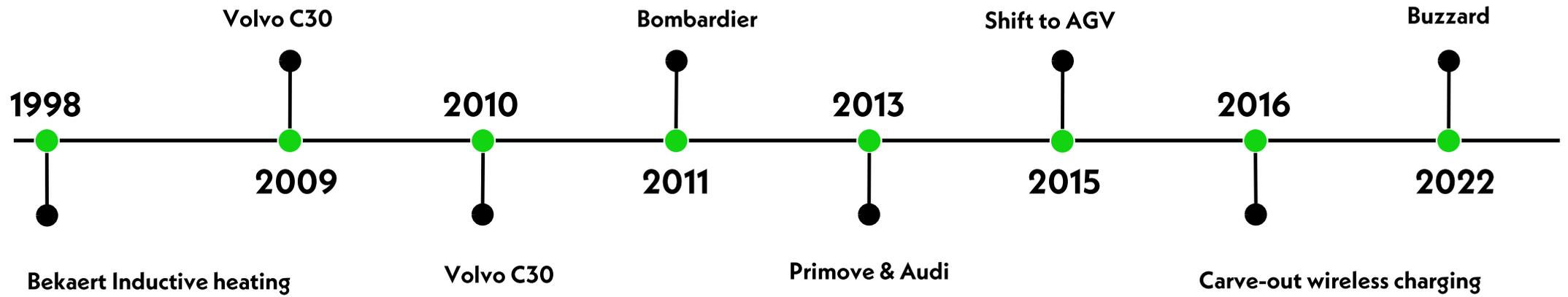
Our focus is on **reducing Total Cost of Ownership (TCO)** for our clients, ensuring they have access to **flexible and intelligent** products that **seamlessly integrate** into their operations.

buzzard

Our history



Our history made Buzzard possible



buzzard

Multipowr's buzzard solves the hidden bottleneck in industrial automation

The problem: conventional charging limits automation

In industrial environments such as warehouses, factories, and distribution centers, industrial electric vehicles like **AGVs** and **AMRs** are increasingly used to automate logistics and material handling.

While these robots drive efficiency and reduce labor costs, **battery charging remains a major bottleneck:**

- Conventional chargers require **manual connection** or physical contact, causing **downtime** and **operational delays**.
- Charging zones take up **valuable floor space** and **restrict layout flexibility**
- Contact-based systems are subject to **wear, failures**, and pose **safety risks** in 24/7 operations.

Multipowr offers a **scalable, wireless alternative**

No more scheduled charging cycles

Suitable for dusty, humid and other **challenging environments**

Complements lithium-based battery technologies, **ideal for modern robotic workflows**



in-process charging



no cables or contact wear



compact and rugged



smart communication



frequent, high-current charges

Safer & reduced maintenance needs

Supports multiple fleet protocols (CAN, Ethernet, ...)

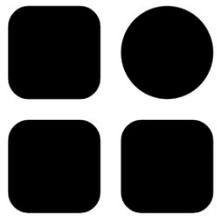
Who **benefits** from Multipowr's solution?



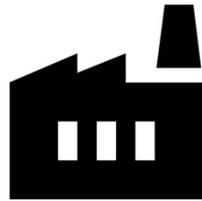
**AGV
Manufacturers**



**Battery
Manufacturers**



**OEMs & System
Integrators**



**Operators of
AGVs and AMRs**

Multipowr is especially relevant in **critical environments** with continuous operations, space constraints, or scalability needs.

Full Integration Service

The goal:

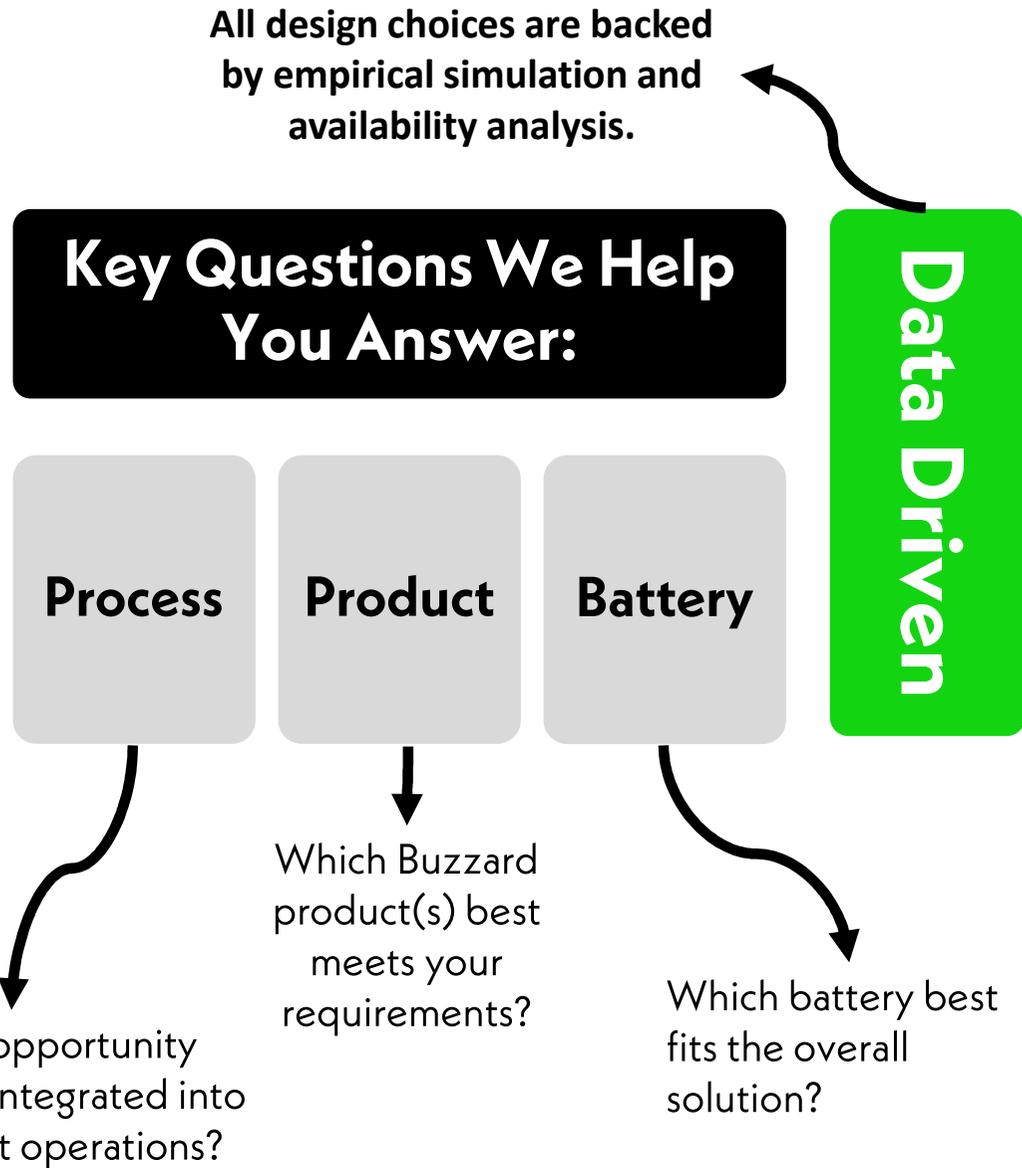
Seamless integration of our products into your system—for maximum efficiency, performance, and cost-effectiveness.

Expert Knowledge:

Our engineering team brings over **30 years of experience**. They've seen it all—and are here to help tailor the perfect solution for you.



All design choices are backed by empirical simulation and availability analysis.



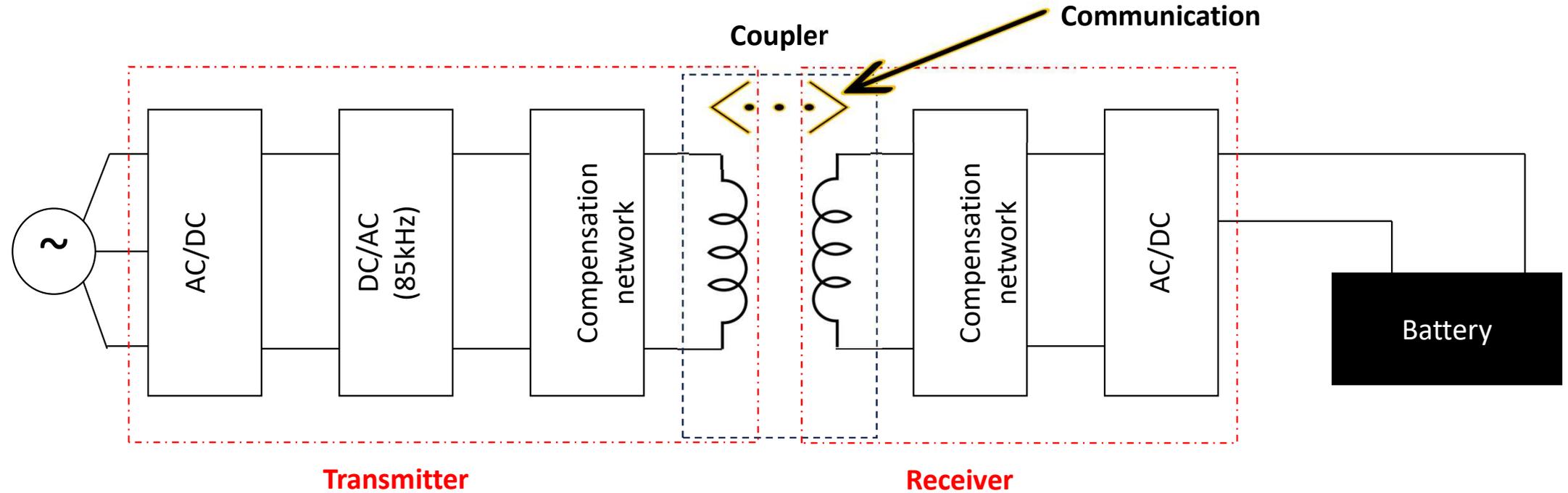
How can opportunity charging be integrated into your current operations?

Which Buzzard product(s) best meets your requirements?

Which battery best fits the overall solution?

High power wireless power transfer

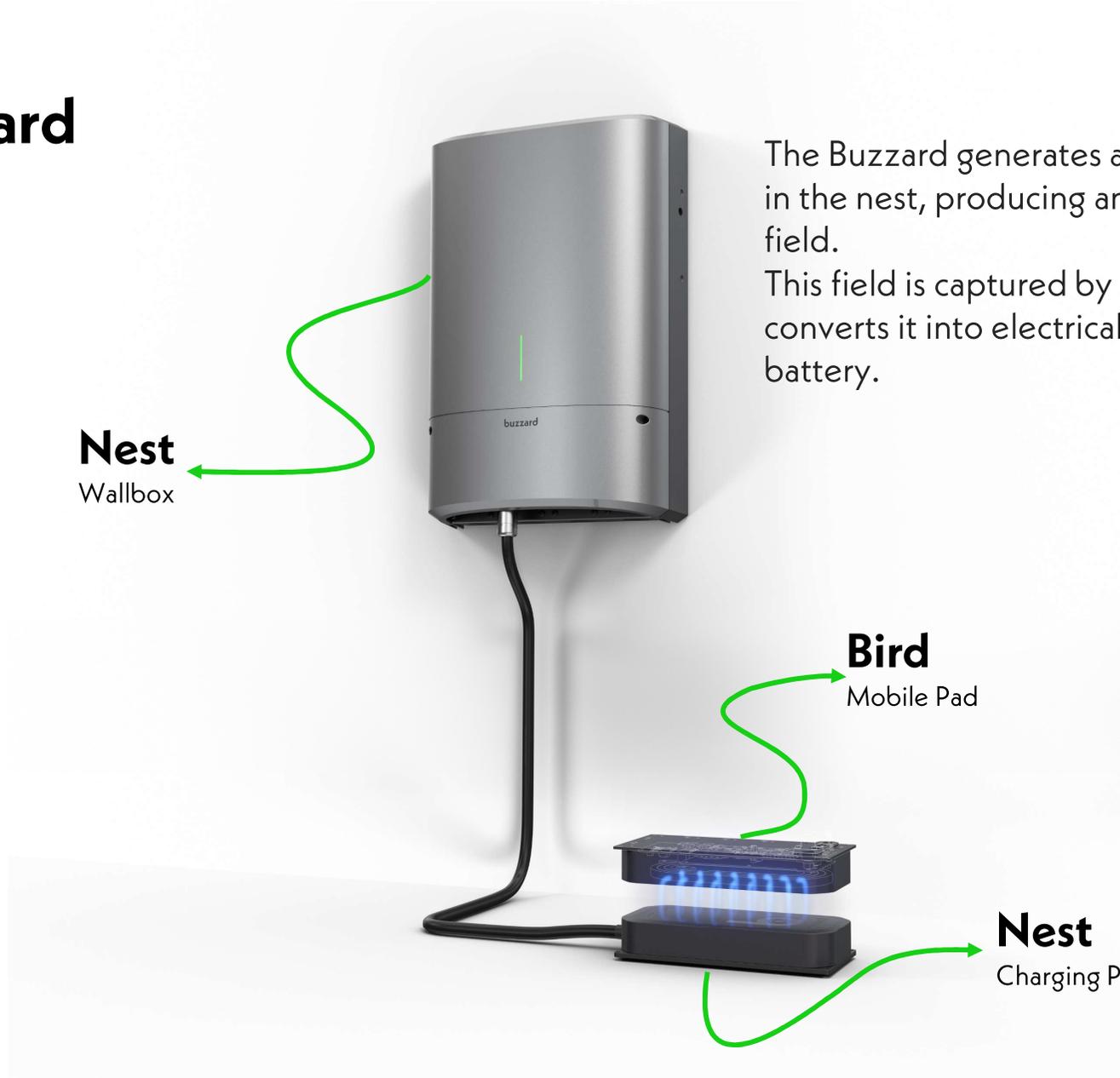
General principle of Wireless power transfer



Challenges:

- Heat dissipation
- EMC – regulations
- Fault handling

Buzzard



The Buzzard generates an alternating current in the nest, producing an alternating magnetic field. This field is captured by the bird, which converts it into electrical current to charge the battery.

Nest
Wallbox

Bird
Mobile Pad

Nest
Charging Pad

buzzard

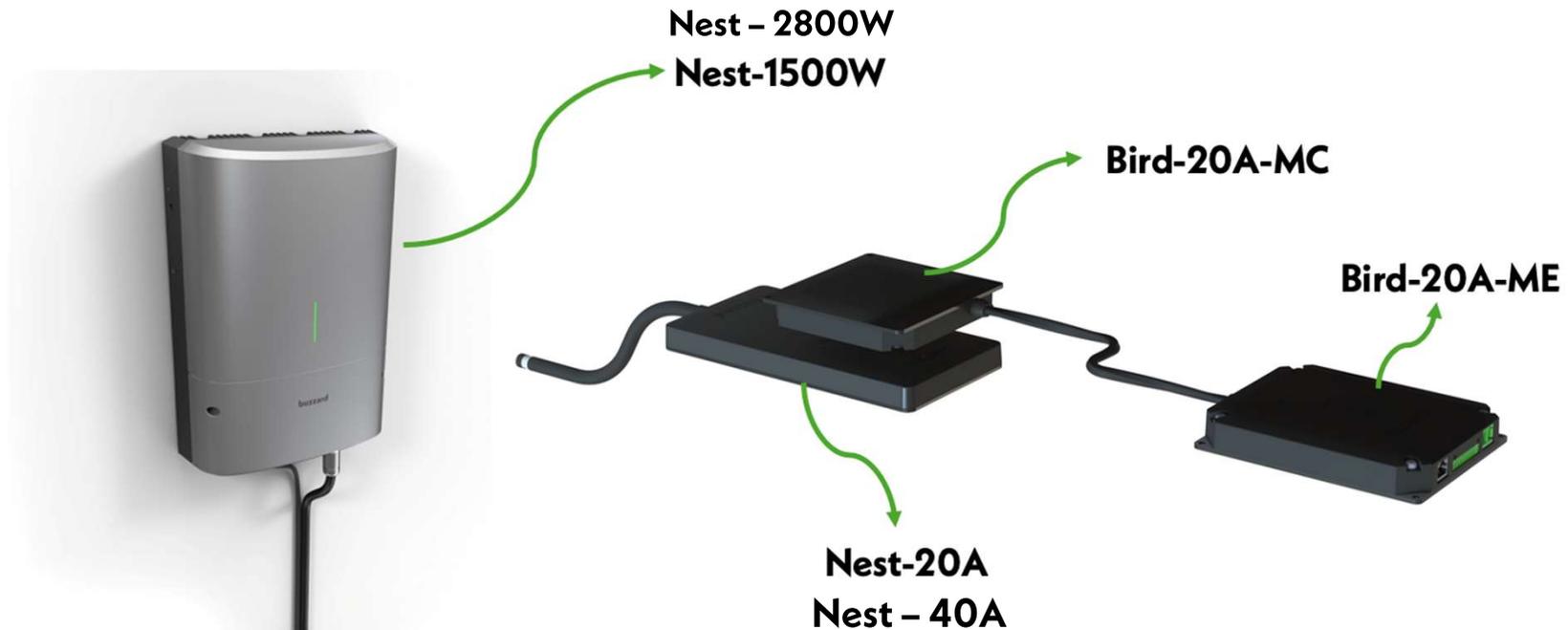
Buzzard – General specifications

		Buzzard20	Buzzard40	Buzzard80	Buzzard120
	Power	1.5 kW	1.5 kW / 2.8 kW	5.5 kW	7.5 kW
	Input voltage	110 / 230 VAC	110 / 230 VAC	400 VAC – 480VAC	400 VAC – 480VAC
	Output current	≤ 20 A	≤ 40 A	≤ 80 A	≤ 120 A
	Battery voltage Battery chemistries	≤ 60 V All	≤ 60 V All	≤ 60 V All	≤ 60 V All
	Efficiency	94%	94%	94%	94%

buzzard



Buzzard20 – Bird 20A fully compatible with nest buzzard40



The compatibility of buzzard20 with buzzard40 charging stations ensures seamless integration and future-proof scalability across your fleet.

Applications

Buzzard is relevant for AGVs in several identified vertical industries

**Intralogistics
& automated materials handling**

Public transportation & Micro Mobility

Industrial & Manufacturing Automation

Battery Manufacturers

Ports & Airports

Retrofit of Forklifts

Mining & Heavy Equipment

Military

Healthcare & Medical Robots

Drone

Demonstration

Contact us



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Let's find the perfect wireless charging solution for you



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Become a part of our **buzzard** community and **soar to new heights!**

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