POWERING THE FUTURE OF WORK

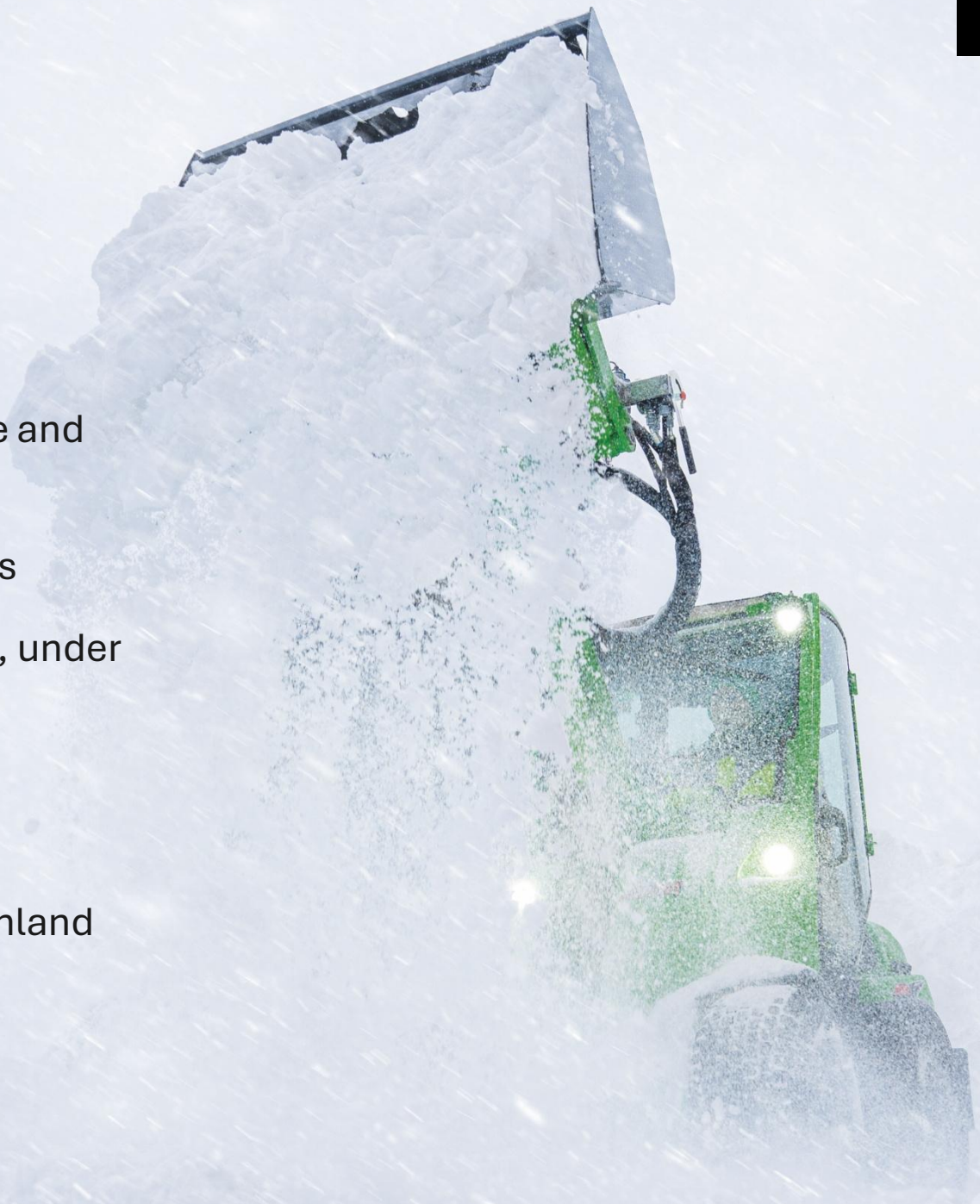


Mikko Kettunen / Avant Power Oy

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WHAT IS AVANT?

- Avant designs and manufactures innovative and multifunctional compact loaders
- World’s most versatile range of attachments
- Global market leader in articulated loaders, under 3 ton
- Strong culture in product development and customer orientation
- Factory and headquarters are in Ylöjärvi, Finland



AVANT® GROUP

Revenue 2025: **245 M€**

MANUFACTURING COMPANIES

AVANT TECNO OY
Avant loaders

AVANT POWER OY
Batteries | Mobile energy storages

LEGUAN LIFTS OY
Leguan spider lifts

SALES COMPANIES

AVANT TECNO DEUTSCHLAND GmbH
Sales company in Germany

AVANT TECNO USA, Inc.
Sales company in the USA

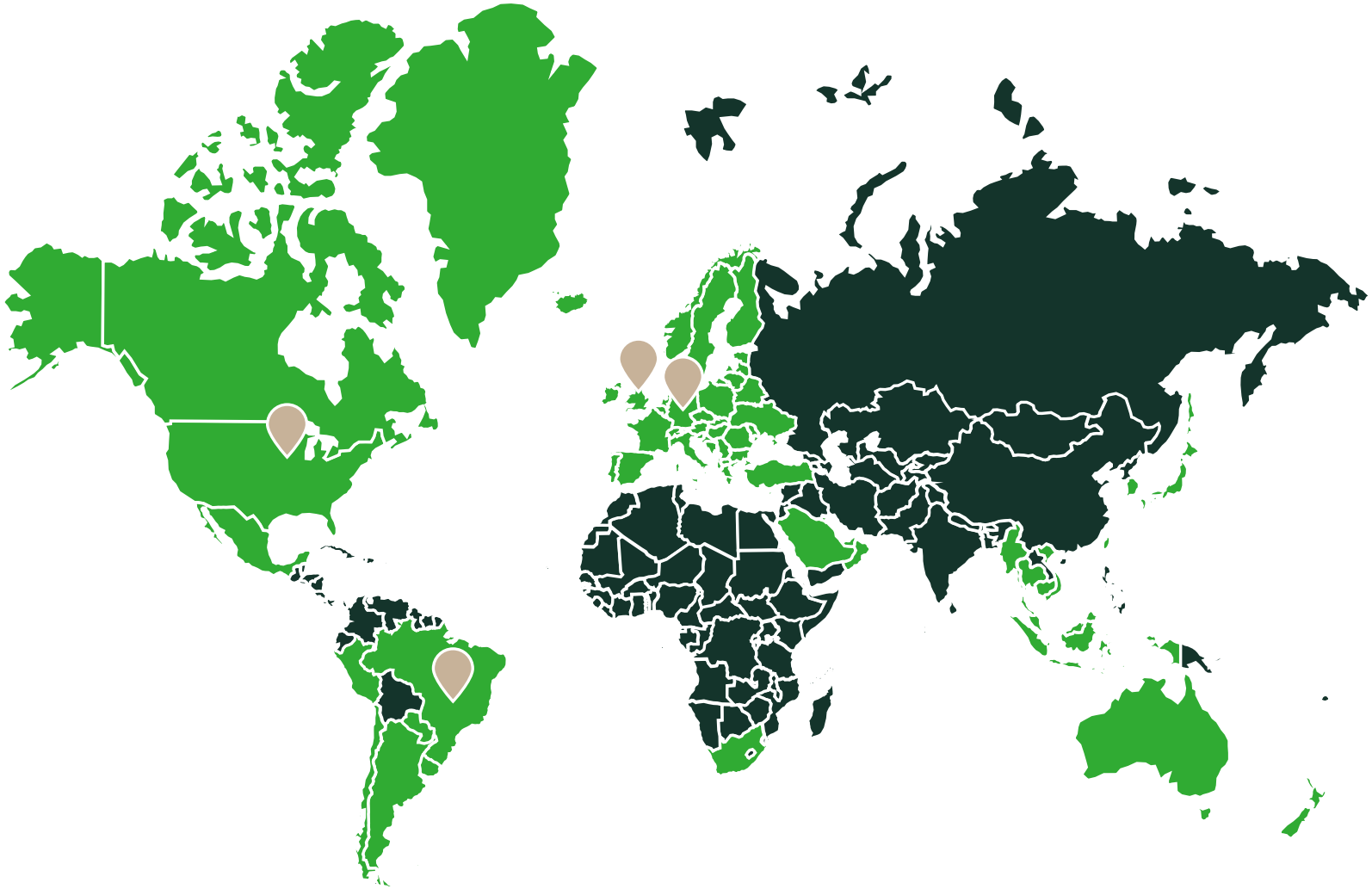
AVANT TECNO UK Ltd
Sales company in the UK

AVANT TECNO DO BRASIL Ltda
Sales company in Brazil

SAMI AS
Attachments; Affiliated company in Estonia

AVANT LOADER SALES INTERNATIONALLY

OVER 70 EXPORT COUNTRIES



SALES COMPANIES

- GERMANY
- UK
- USA
- BRAZIL

AVANT POWER

Powering Smarter Machinery & Greener Futures

- Part of the Finnish family-owned Avant Group. Innovative global market leader in compact loaders.
- 100% own product development and manufacturing in Finland

Turnover

M€ 4

Personnel

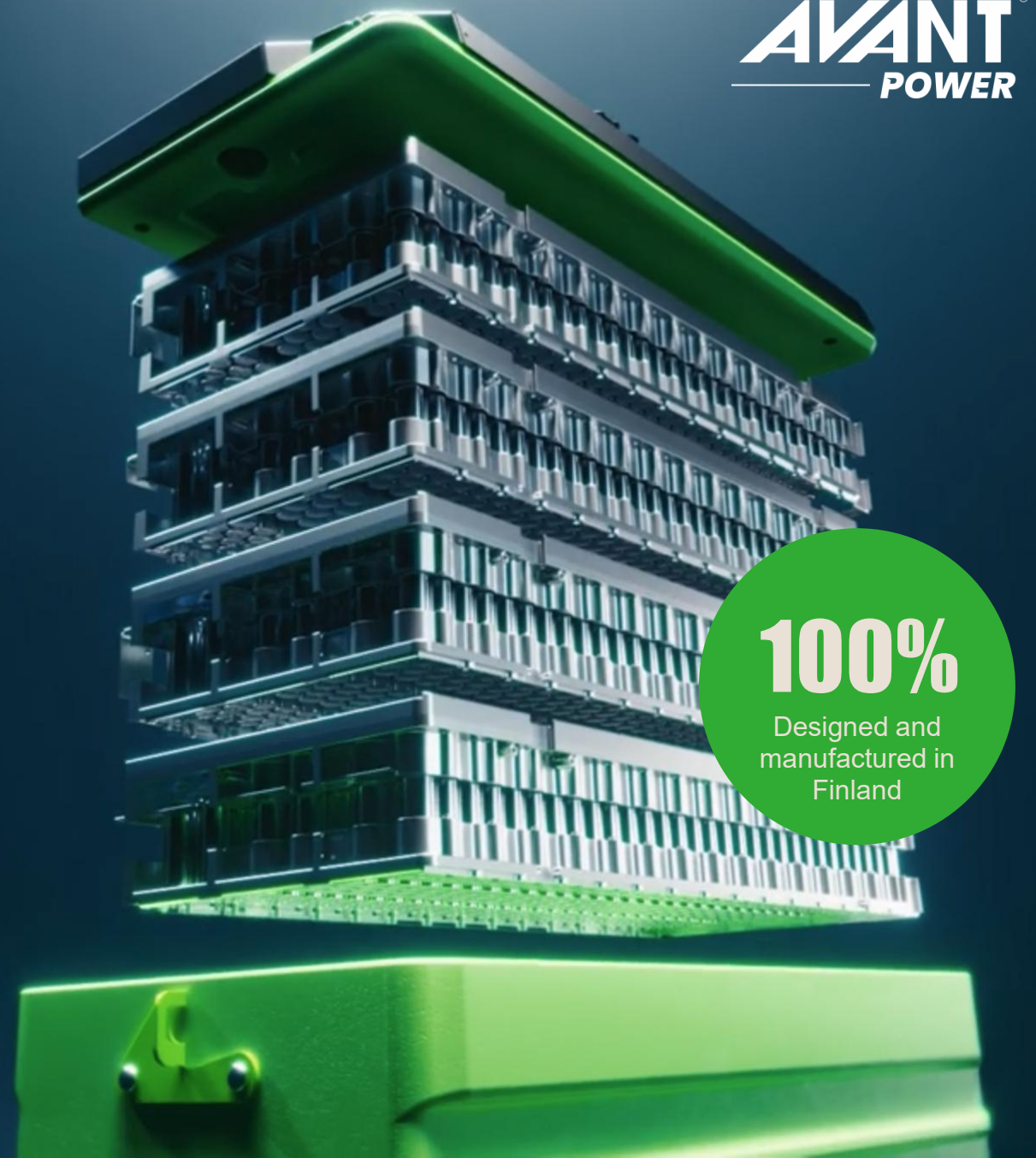
24

Founded

2022

Batteries / year

1500+



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UNIQUE OPTI-TEMP TECHNOLOGY

- The world's safest batteries: Ensuring a smooth, uninterrupted, and safe worksite
- Easy and safe maintenance: no special training needed



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AVANT POWER

OPTITEMP CUBE 47



UNIQUE OPTI-TEMP TECHNOLOGY

OptiTemp® CUBE47



Capacity 46 kWh	**Cell chemistry** NMC	**Operating temperature** -30...50 °C**	**Charging inlet** 400 VAC / 16A / CEE
Charging time ~4 h @ 11 kW*	**Battery voltage** 51 VDC	**IP** 54	**Socket outlet** 400 VAC / 16A / CEE
Maximum power 11 kVA	**Energy density** 68 Wh/kg, 42 Wh/l	**Voltage** 230/400 VAC	**Socket outlet** **3 x 230 VAC / 16 A / Type F, E, G, J, K and L**
Weight 690 kg	**Cooling** Immersion cooling	**Frequency** 50 Hz	**Options** **Solar / GenSet / 1-phase charging**

AVANT POWER

*Charging times 10–80% SoC. Charging time is affected by ambient conditions and temperature.
**The device's power is limited near the upper and lower limits of its operating temperature range

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Subject to change

OPTIGRID™

MORE VALUE FROM EVERY ENERGY INVESTMENT



AVANT POWER

MIKKO KETTUNEN

PART OF AVANT GROUP

ELECTRIFICATION CREATES A NEW MANAGEMENT CHALLENGE

01 Consumption, generation, charging and storage are becoming increasingly dynamic

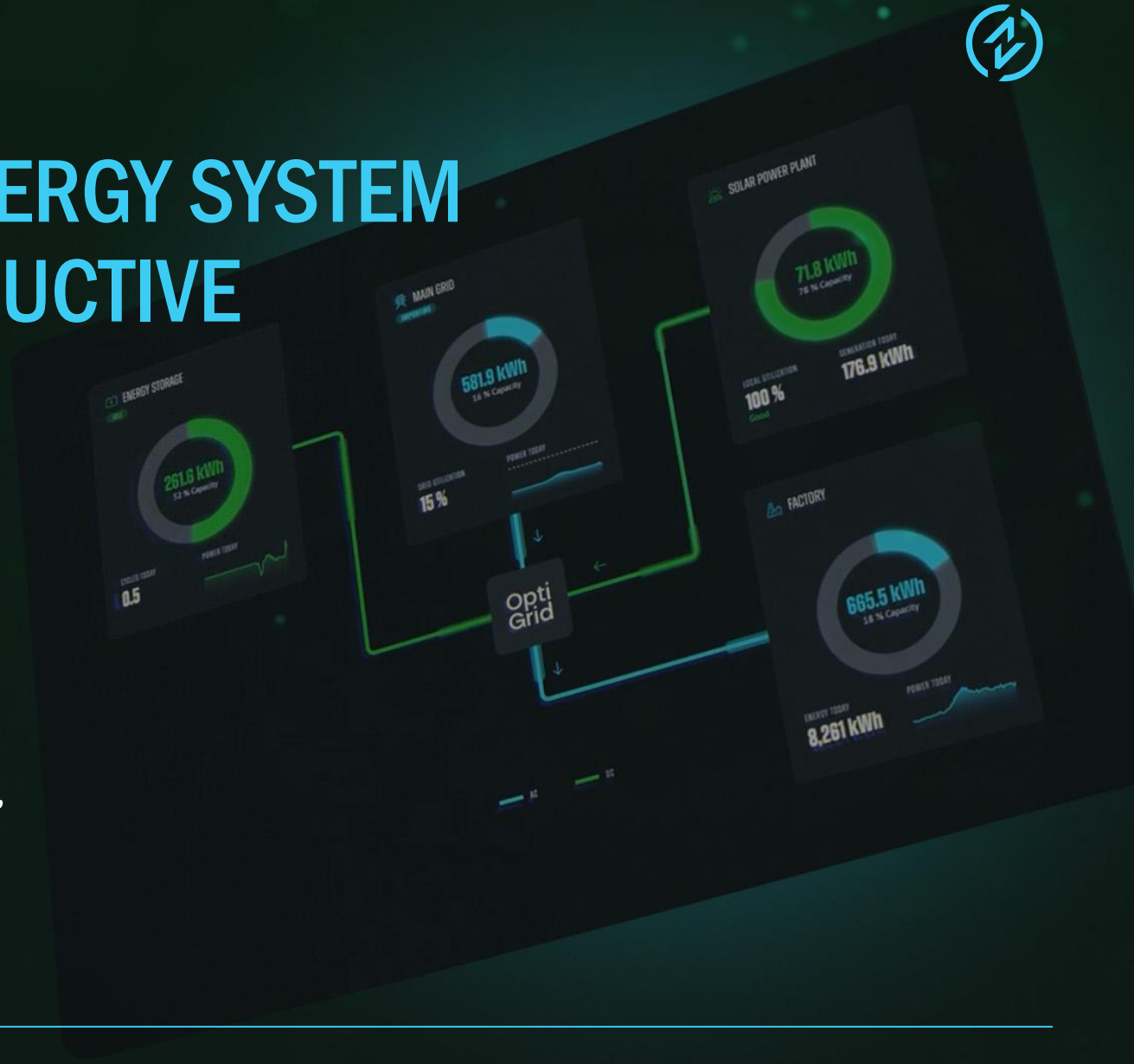
02 Devices and systems often operate separately, leading to sub-optimization

03 Electricity prices, consumption peaks and ancillary markets continuously change what optimal operation looks like

04 Customers need to manage the whole system without having to become energy market experts

OPTIGRID MAKES THE ENERGY SYSTEM MANAGEABLE AND PRODUCTIVE

- Connects electricity consumption, generation, storage and charging
- Automatically optimizes energy use based on current conditions and business objectives
- Manages consumption peaks and helps reduce energy costs
- Creates opportunities for new revenue streams, for example through ancillary markets



FROM CLOUD TO ENERGY INFRASTRUCTURE



OptiGrid Cloud

Forecasting, analytics, optimization and electricity market interface



Local control

Fast and secure on-site control



Physical energy infrastructure

Battery storage, solar power, charging, flexible loads and DC microgrid

The cloud optimizes. Local control ensures safe operation. Energy infrastructure provides flexibility.

WHAT DOES OPTIGRID OFFER CUSTOMERS TODAY?

- OptiGrid Cloud: visibility, analytics, forecasting and optimization
- Customer-specific use case and savings potential assessment
- Pilots in real-world sites
- Ancillary market capabilities
- Electricity consumption forecasting and optimization
- Highly sophisticated control and service



OPTIGRID GROWS WITH THE CUSTOMER'S NEEDS

NOW



Cloud Services

Visibility, forecasting and optimization

NEXT



Holistic optimization

Electricity + heat + storage + charging + flexible loads

FUTURE



DC microgrid platform

A scalable platform for compatible energy assets

Customers do not need to build everything at once – the system can be expanded as their needs evolve.

AVANT POWER

THANK YOU

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