



Näkökulmia latausjärjestelmien tulevaisuuteen

Ilmastoratkaisujen vauhdittaja (ACE) - Raskaan liikenteen päästöjen vähentäminen
Sidosryhmien keskustelutilaisuus 30.9.2024



Specialized in EV charging systems, energy transmission & storage technology and their maintenance.

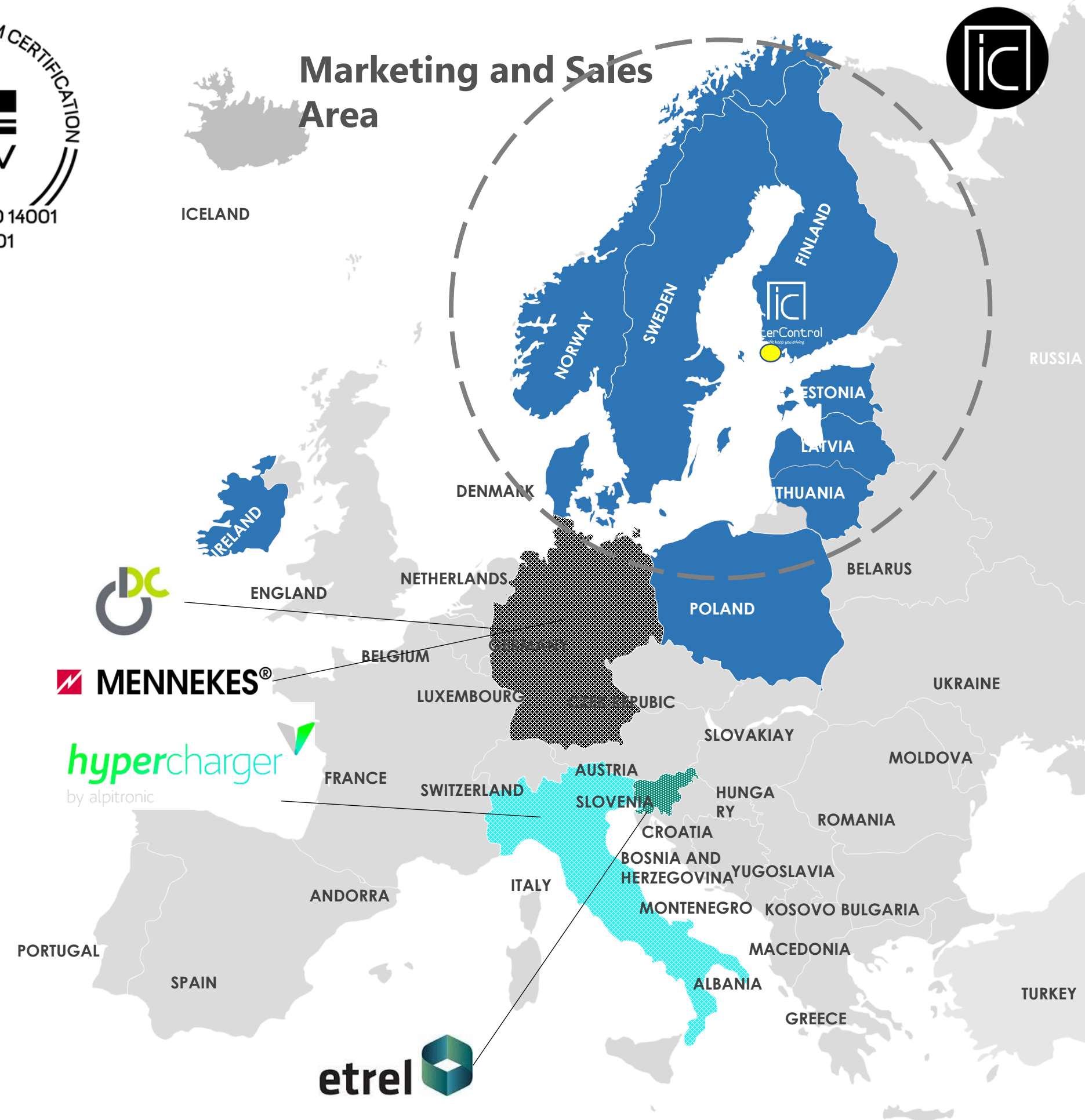
Operations in the whole Nordic and Baltic countries.

Established in 2011

EV charging services

- Inspection & testing
- Ticket handling
- Branding
- Spare parts
- Software & updates
- Quick/JOT deliveries
- Customer settings

Carefully selected products fully made in Europe



InterControl is the pioneer of High Power Charging



Finland's first High Power Charging Point

Fortum Charge & Drive had opening ceremony of the Finland's first High Power Charging Point on November 1st 2018 at Lohja ABC station.

The charger was part of the first five high-power chargers corridor from Helsinki to Stockholm and Oslo. Two of these HPC's were delivered by InterControl.

The Norwegian ferry company Norled AS has converted the fast catamarans Fjordøy and Fjordled to 100% electric. The vessels operate from the city of Haugesund to the islands of Feøy and Rødvær.

The vessels have a 1.6 MWh battery & charging systems and electric propulsion systems, which are designed and supplied by Brunvoll El-mar AS.

The ships are charged in Haugesund, Feøy and Røvær by 2 x 300 kW Hyperchargers in each location, the total charging power is 1.8 MW. Hyperchargers are supplied by Intercontrol.



Key Features

- Modular
- Dynamic load balancing
- Efficiency 97% through SiC technology
- Full power from 300-1000V, range starting at 150 V
- V2G ready

- Oikea ja riittävä teho arkipäivää
- Siirrettäviä puskuriakuratkaisuja jo monia vaihtoehtoja, kiinteistä puhumattakaan
- Kuka tahansa voi olla energian myyjänä



Small housing up to 200 kW

(1-2 pc x 100 kW power stack)



Large housing up to 400 kW

(2-4 pc x 100 kW power stack)



50 kW (2x25 kW) DC

(Wallbox or with pedestal)





Alpitronic products
are already charging trucks
across Europe



FASTNED

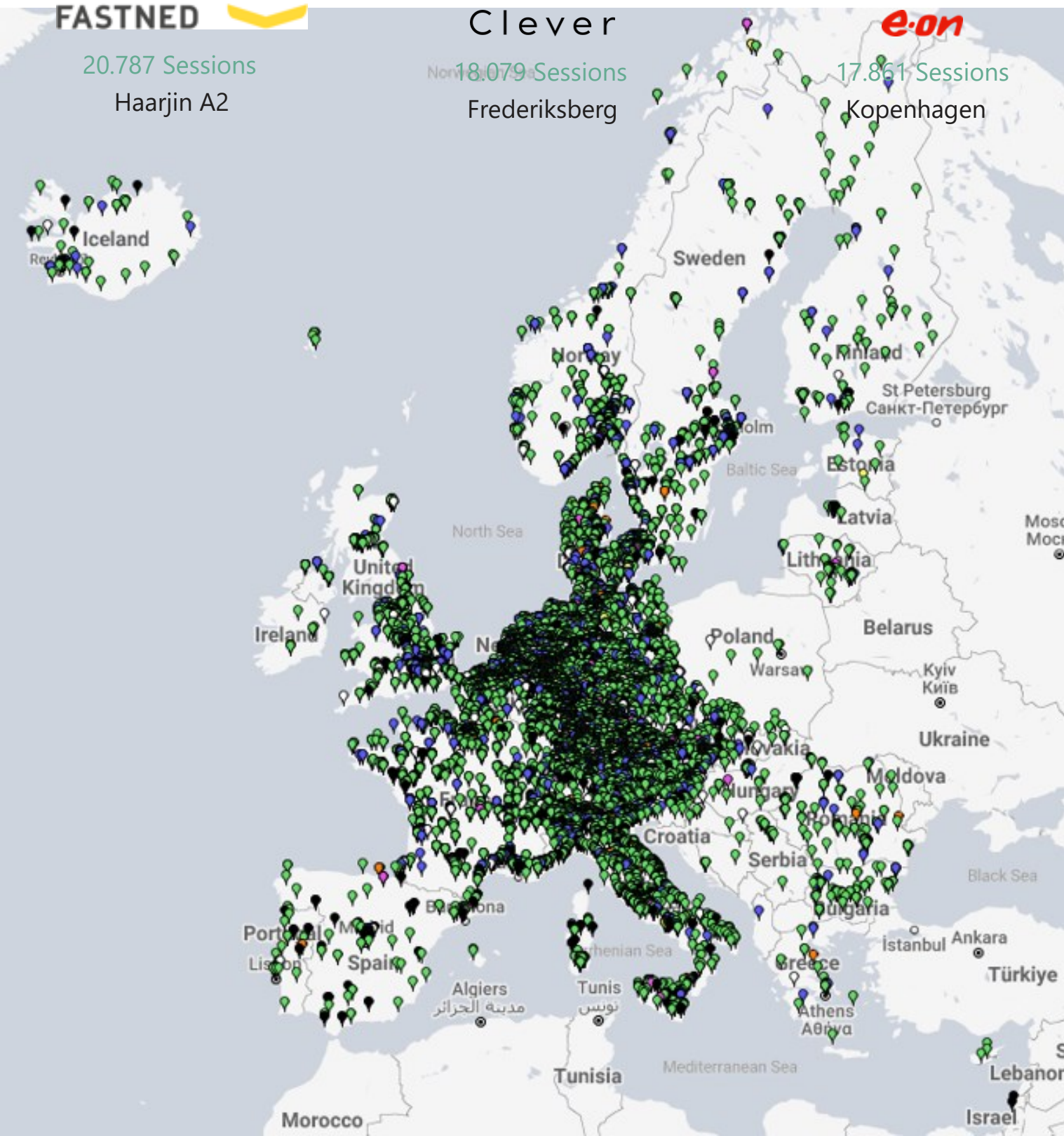
20.787 Sessions
Haarjin A2

Clever

18.079 Sessions
Frederiksberg

e-on

17.861 Sessions
Kopenhagen



Future



Alpitronic Announces the Mega Watt Charging System, MCS

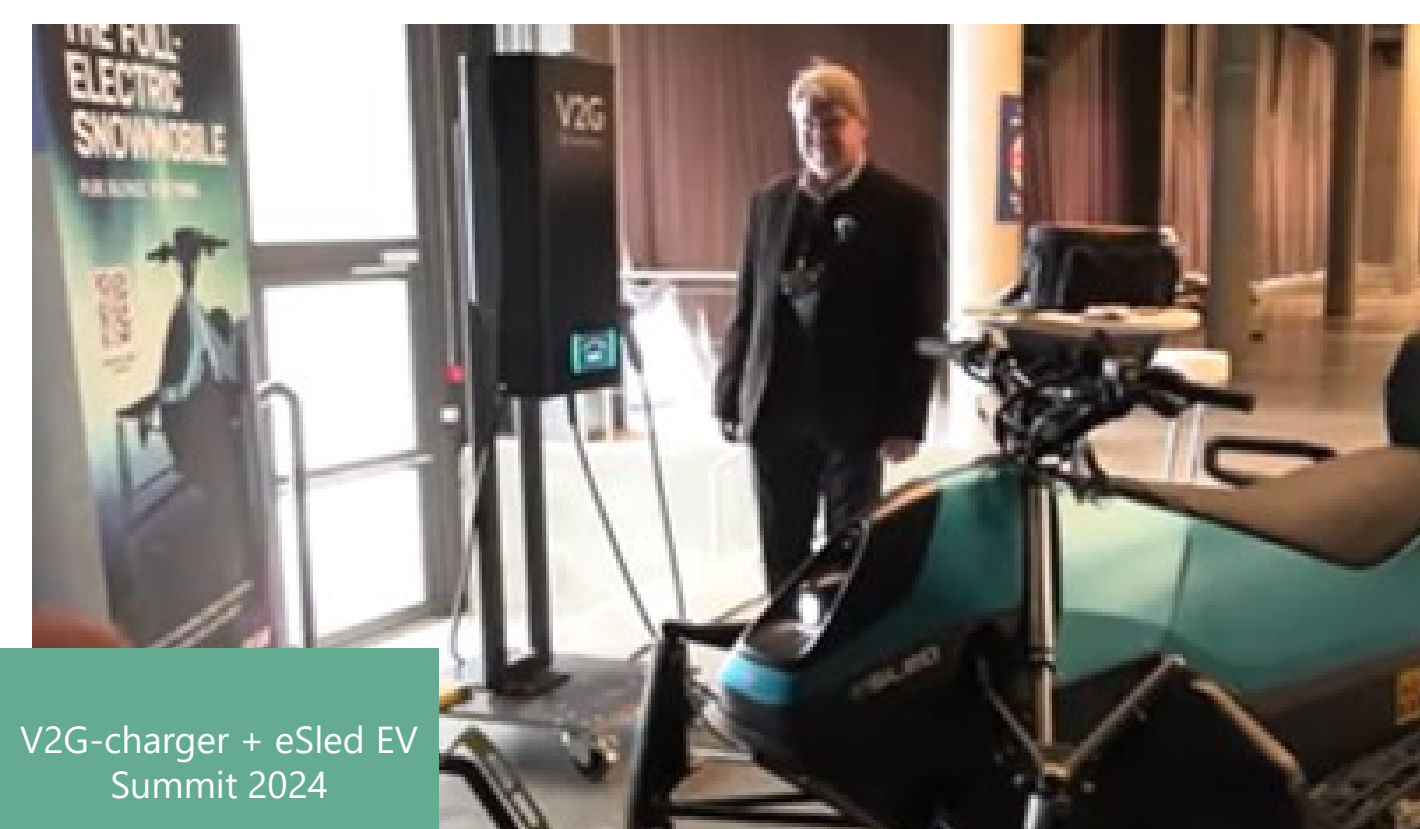
As demand for fast, reliable charging grows, Alpitronic's MCS offers unmatched speed and efficiency, empowering logistics companies to electrify long-haul fleets and reduce emissions.

"Our MCS is a major leap in charging technology, meeting the needs of logistics companies and advancing the decarbonization of transport," said Wolfgang Ademmer, CMO of Alpitronic.

Key features:

- MCS Performance – 1MW power unit, up to 1500A per dispenser
- Enhanced Efficiency – Over 97% efficiency with advanced technology
- Future-Proof Design – Scalable to meet evolving industry needs
- High Reliability – Based on the SiC power stack technology ensures highest reliability, proven in over 80 million sessions

The Mega Watt Charging System will be unveiled in February 2025, with production starting in Q2.



V2G-charger + eSled EV
Summit 2024

Vehicle to Grid, V2G

Molempia lataustekniikoita, sekä AC että DC –latausta, voidaan käyttää molempiin suuntiin eli sähköauton akkua voidaan lataamisen lisäksi myös purkaa ja auton akussa varastoitua energiaa käyttää muihin tarkoituksiin.

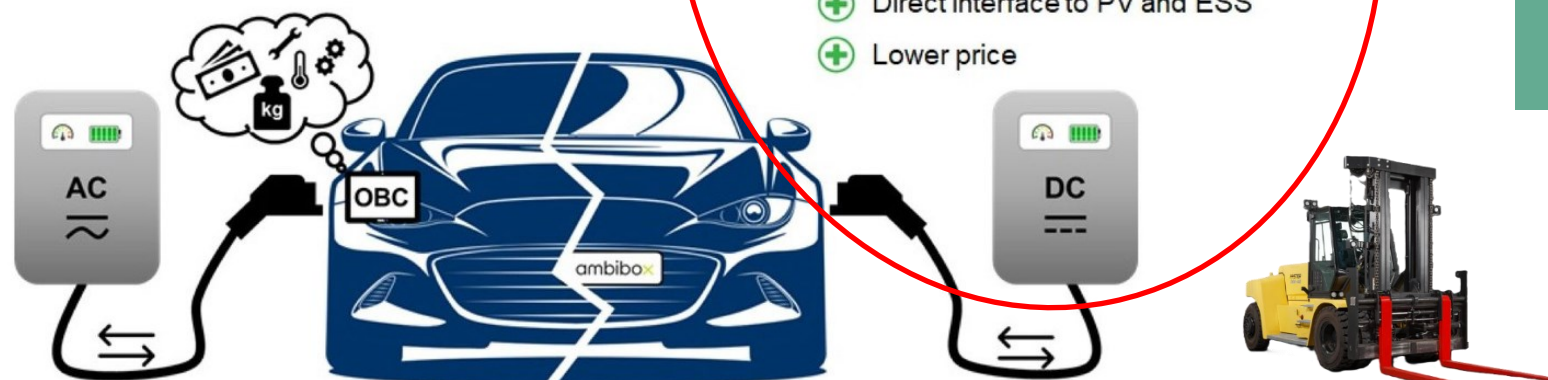
AC-BIDI-CHARGING ↔ DC-BIDI-CHARGING

Wallbox + bidi-OBC ↔ Wallbox

- ⊖ Extra costs
- ⊖ Additional weight
- ⊖ Package constraints
- ⊖ System integration costs
- ⊖ Complex automotive requirements

- ⊖ Technology content
- ⊖ Customer use-case
- ⊖ Lifetime

- ⊕ Higher efficiency
- ⊕ Wider operating range
- ⊕ Lower complexity
- ⊕ No package constraints
- ⊕ Easier maintenance & updates
- ⊕ Direct interface to PV and ESS
- ⊕ Lower price



- Latauskentille tulee monen tehoisia laitteita, jonka käyttötarpeet määrittelevät
- "Akustot kumipyörillä", V2G
- Kuka tahansa voi olla energian myyjänä
- Riskinä moninaiset toimijat/valmistajat





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Thank you!

InterControl Oy

**Electric Solutions for
Sustainable Future**

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