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adibus ChargePlan

Optimize Charging of EV Busses & Trucks

Agenda

Development Manager at Adibus
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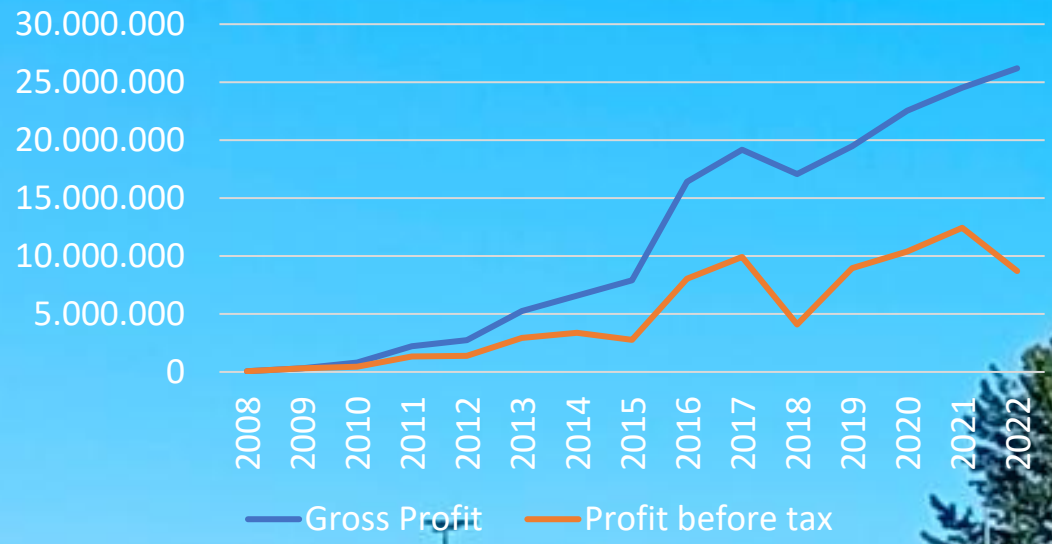
Phone: +45 60403017

- Who is Adibus?
- Facts about EV charging and EV fleet operations
- What is ChargePlan?
- How can ChargePlan help EV fleet operators?

- Profitable since 2007
- 3.000 Vehicles
- 35 Employees
- Product portfolio
  - Charge Management
  - Real time Fleet Monitoring and Planning
  - Infotaiment
  - Lane Management
  - And much more…



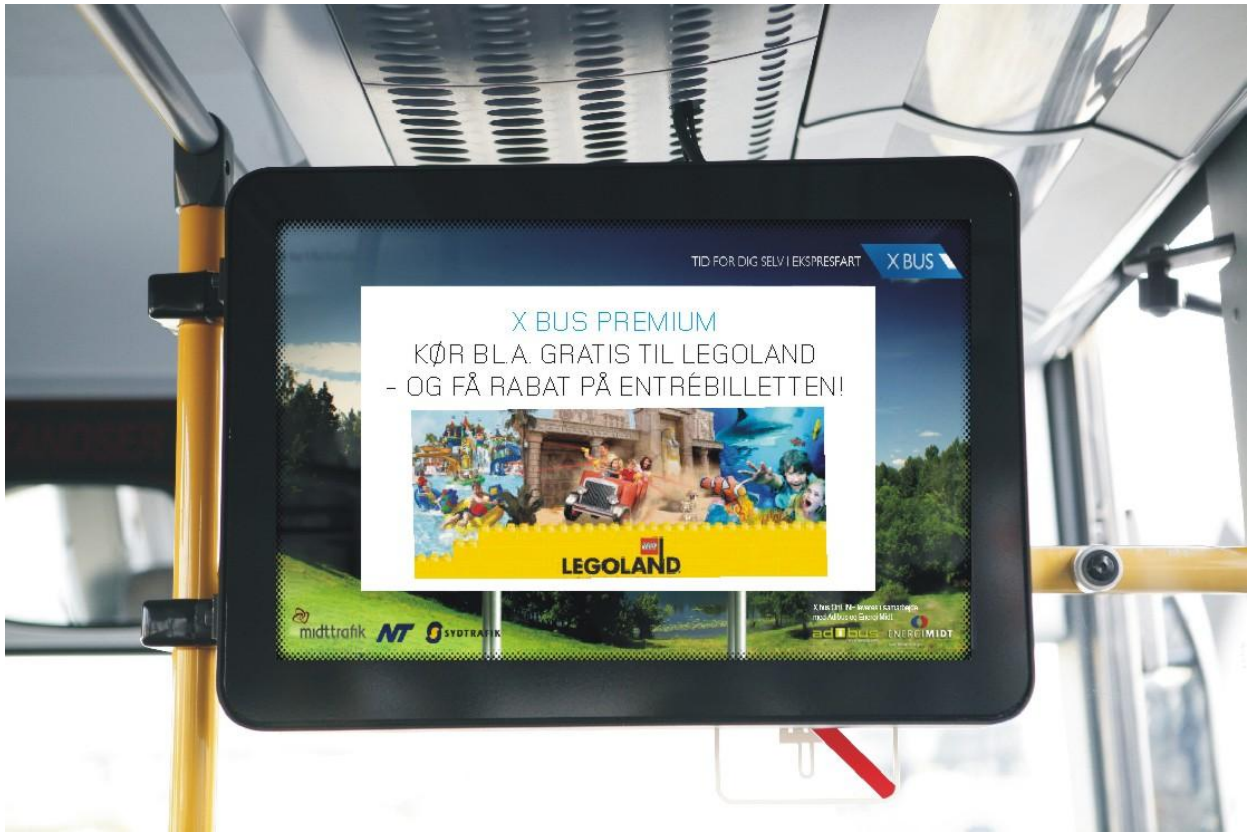
Guld
10+ år

AAA

BØRSEN

x 5

It started with a Monitor



INNOVATIVE **IT SOLUTIONS** FOR PUBLIC TRANSPORT

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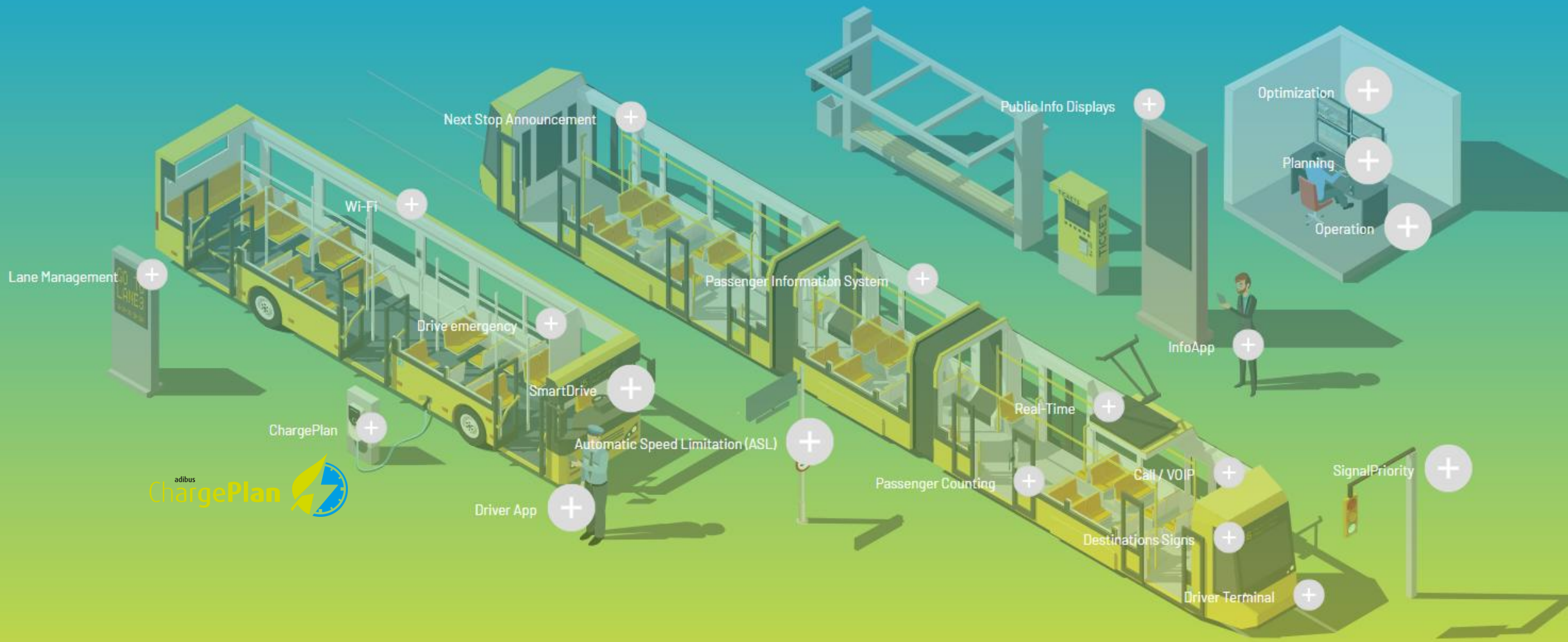

ONE SYSTEM - LOTS OF POSSIBILITIES


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ChargePlan
Reliable, Convenient, and Sustainable
Charge Management Solution

Facts about EV Fleet Operations

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1 | **EV fleet Management is Challenging**
Diesel fueling is a 10 minutes tasks. EV fueling is technology management - vehicles, chargers, local energy resources and storage makes it complicated.

2 | **Electricity prices fluctuate 400% per day**
Green energy equals high price fluctuation. This can be exploited!

3 | **CO2 reduction**
Emission free or CO2 reduced delivery is a market demand and authority requirement.

4 | **Charging infrastructure creates new revenue opportunities**
Ancillary Services creates earning opportunities in the millions
B2B sales of charging capacity

Unlock the Potential of EV Charging

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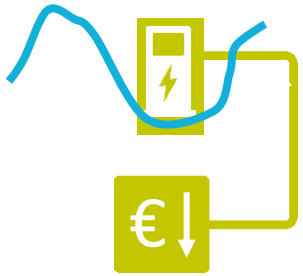
- Ensures price optimal charging
- Retrieve CO2 emission data on all Charging sessions
- Makes sure that your EV is fully charged without overloading the grid
- Get informed early through proactive monitoring and alarming
- Minimal administration
- Supports a fixed fleet of vehicles chargers

ChargePlan Product Options

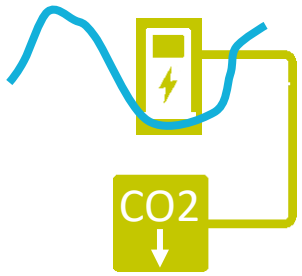
SMART Charge

Energy Price Optimization



Move charging to reduce electrical cost

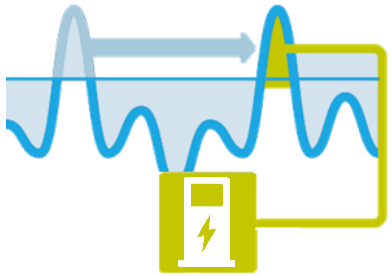
CO2 Optimization



Move charging to reduce emissions

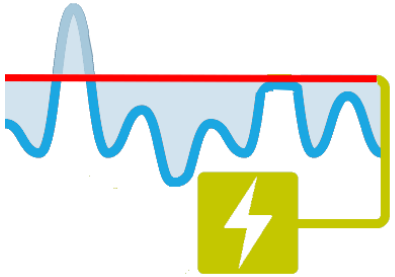
Balance

Load Shifting



Distributing power among EV chargers to prevent overload

Peak Shaving



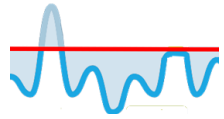
Reduce electricity peaks to avoid overload

Features in the Detail

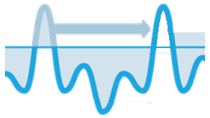
ChargePlan SMART Charge

- Reduce charging cost with +20%
- Proactive alarming related to chargingproces
- Live depot monitoring/ Status of chargers
- CO2 Emission-report DK
- Realtime maps and range informations
- Extend battery life
- Charge Scheduling
- Forecast of Remaining range
- Online / Offline EV Authentication
- CO2 Optimized Charging
- Forecast of charging time and energy consumption
- Report of electricity consumption

ChargePlan Balance



Peak Shaving



Load Shifting

SMART Charge

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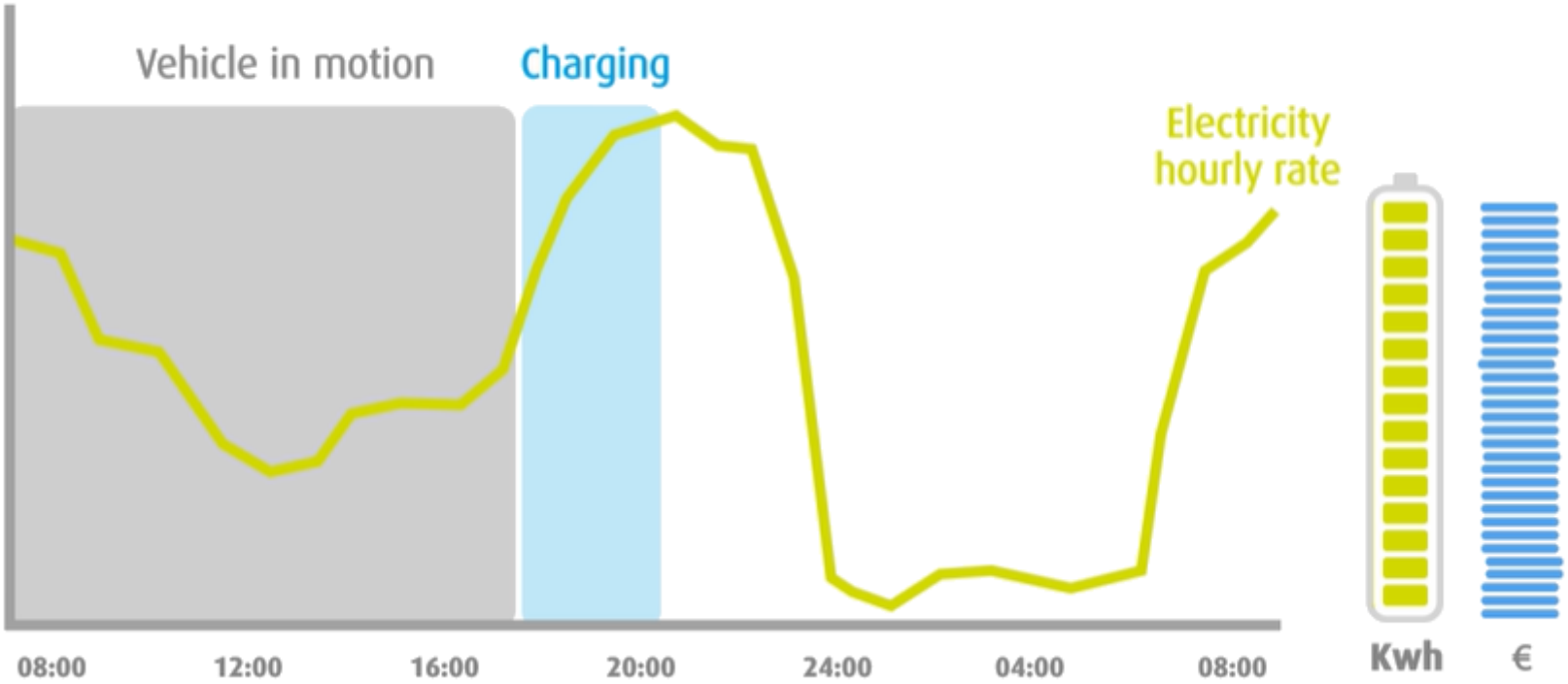
CHARGING ON ARRIVAL AT DEPOT



SMART Charge

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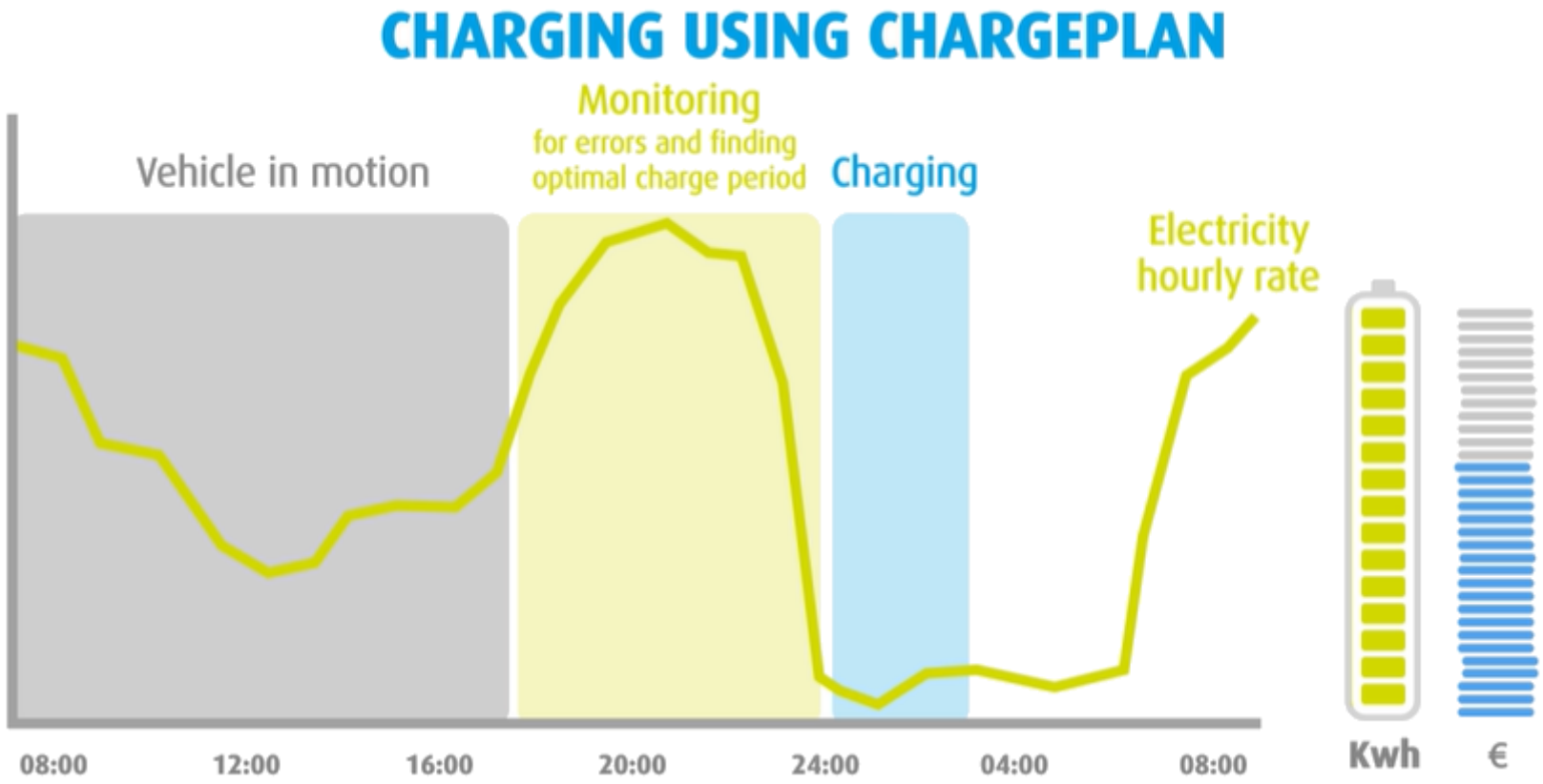


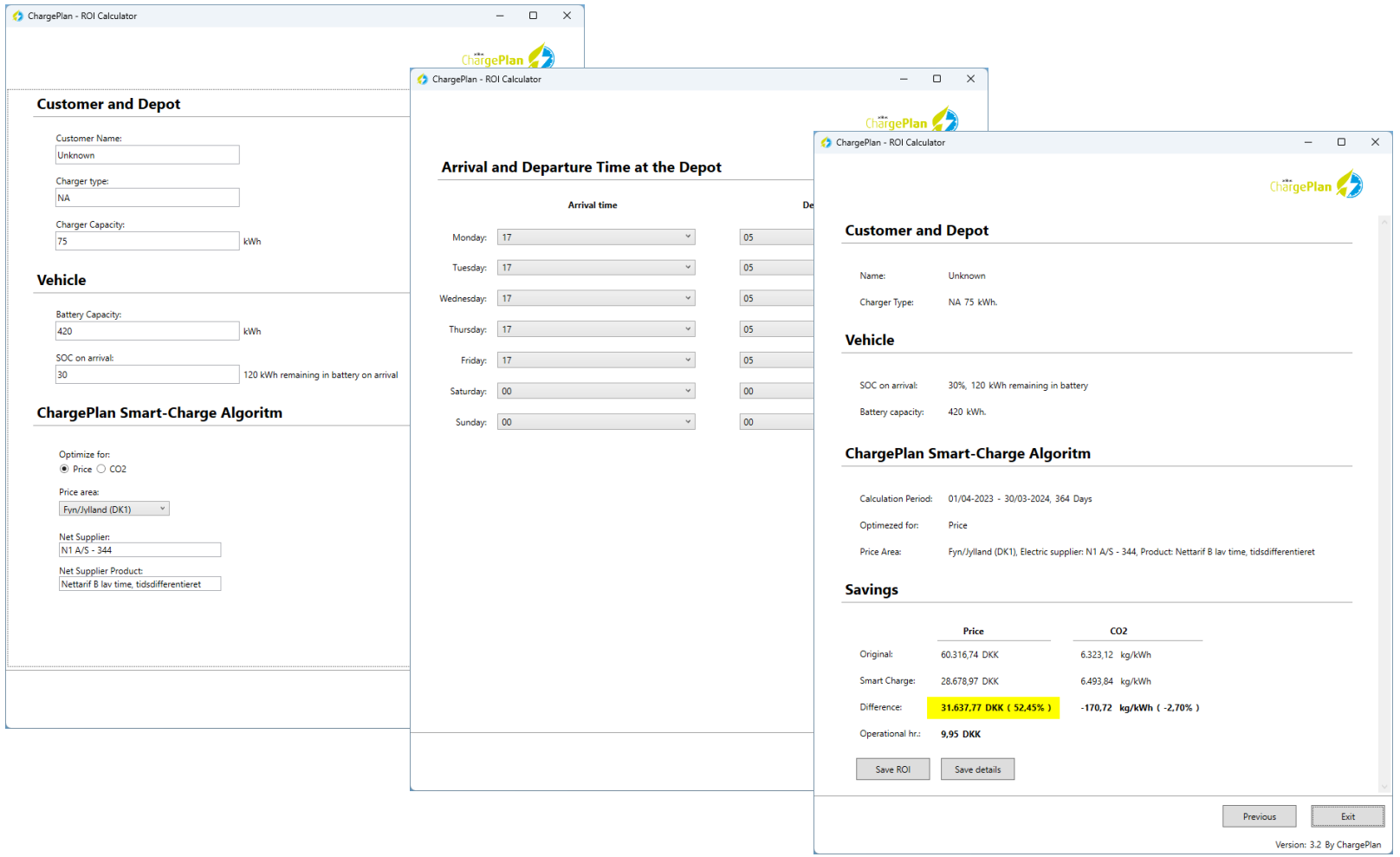
Exploiting Price Fluctuation

EV battery capacity: 400 kWh
Charging requirement: 280 kWh ~ SOC = 30% on arrival at depot
Driving pattern: Monday – Friday 05:00am – 6:00pm
Period: 1/4-2023 – 30/3-202, Denmark

Charger Capacity	Required Charging time	Savings ChargePlan SMART Charge
50 kWh	5 h. 36 min.	40% = 3.000 € / year
75 kWh	3 h. 44 min.	48% = 3.700 € /year
100 kWh	2 h. 48 min.	51% = 4.000 € / year

Savings over 10 Years: 30.000 – 40.000 €

SMART Charge – The Business Case



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The product

Plan when to Charge

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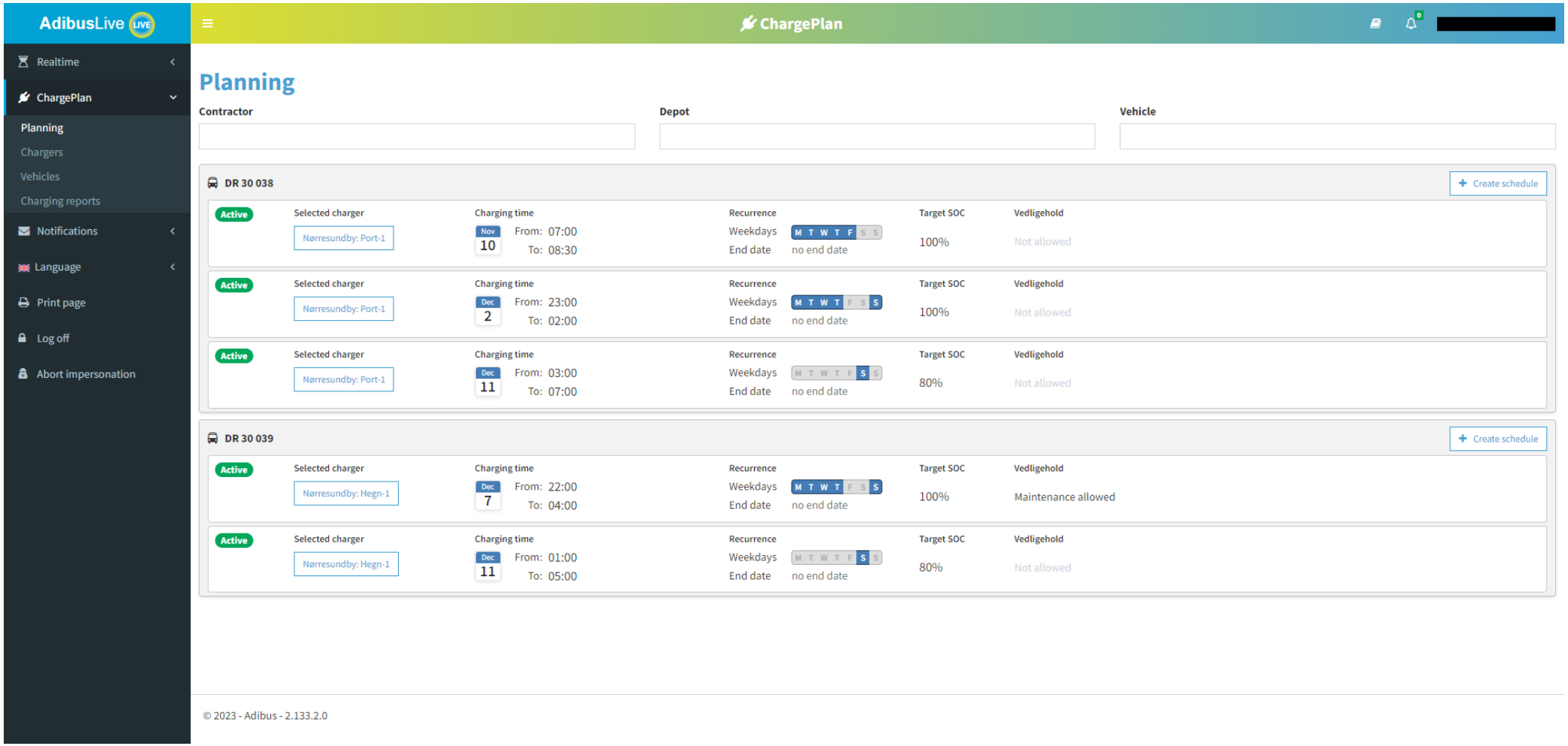

Plan when to Charge

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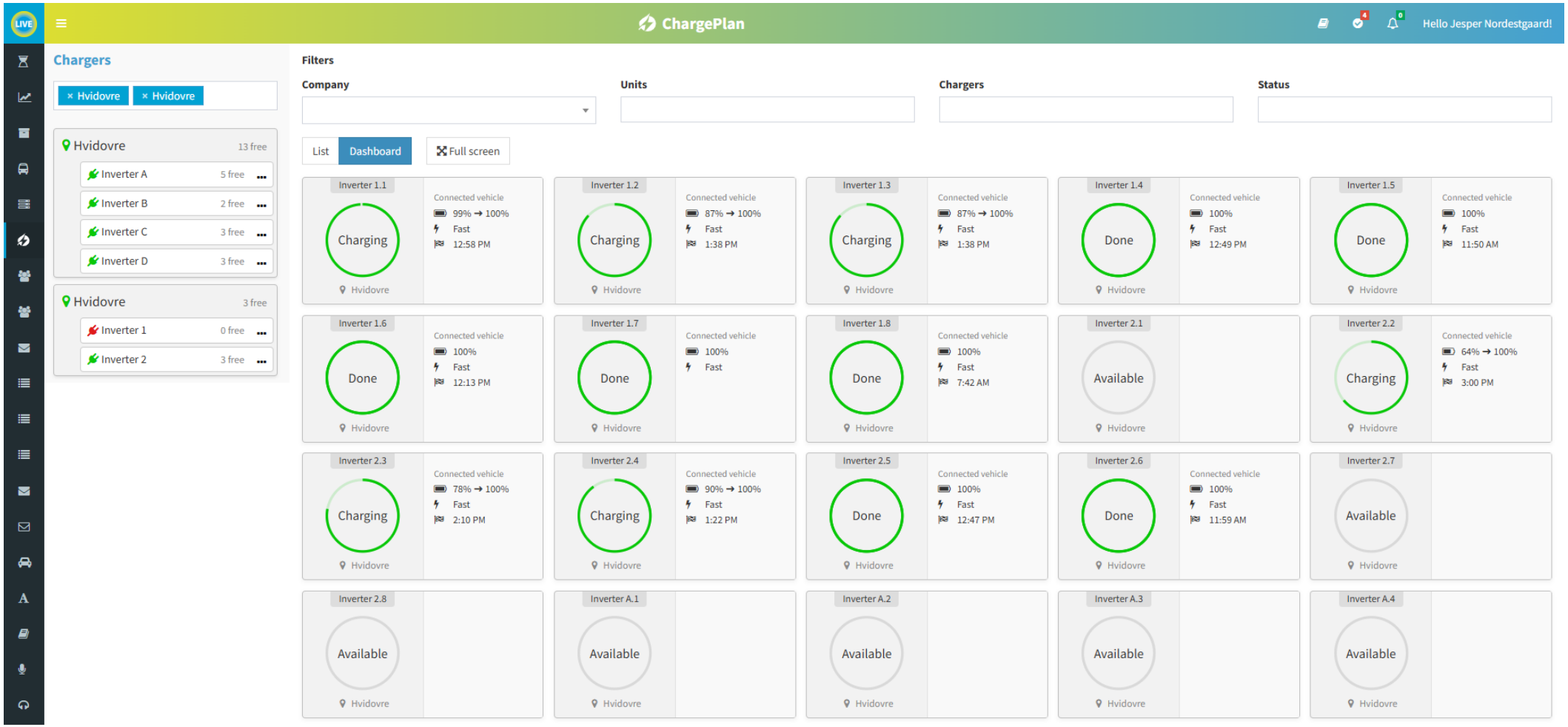
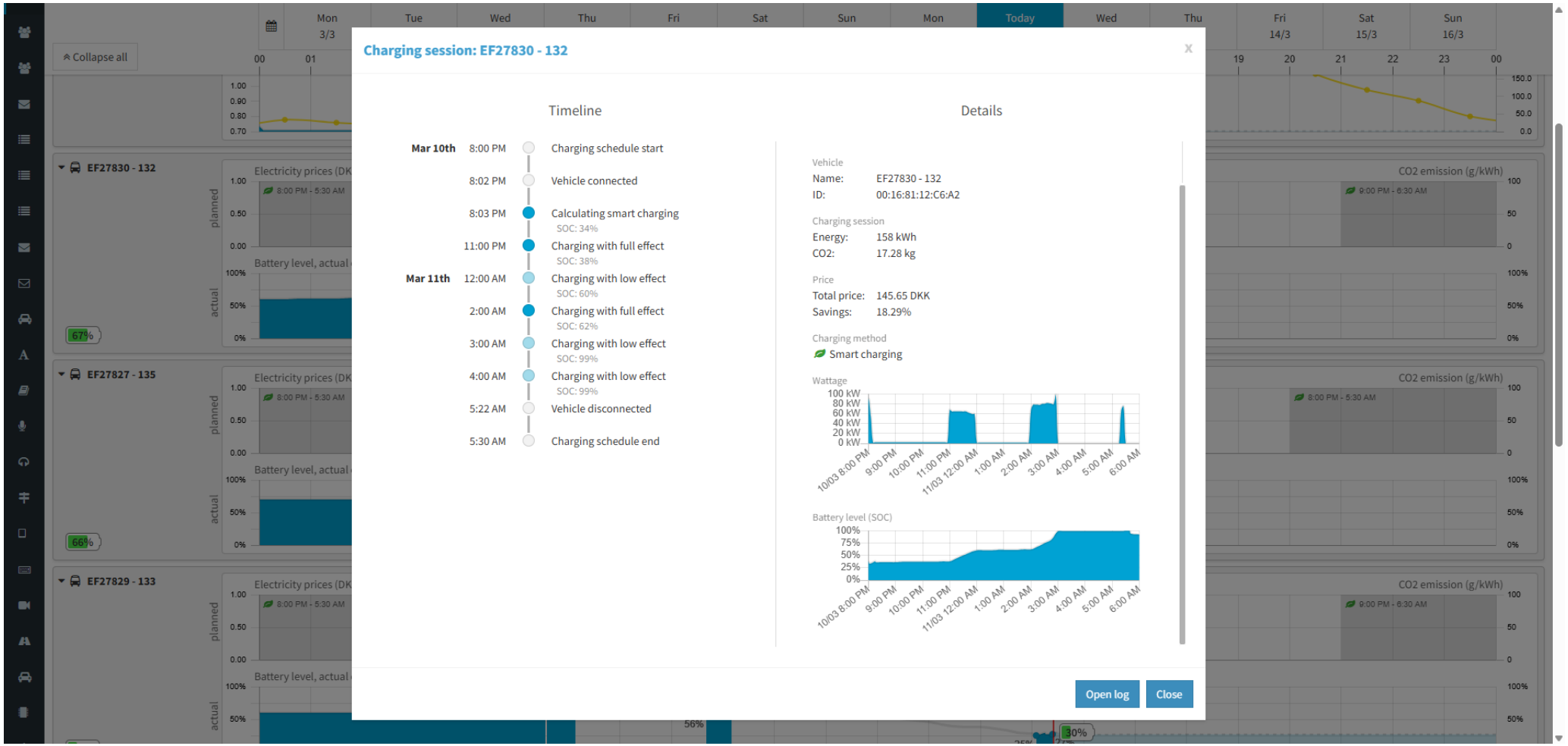


Charger overview

Charger overview

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Cases

Holstebro Turist

Bus Operator in Midtjylland, Denmark

- Realtime Fleet Planning and Monitoring
- Fleet, Employee and Charge Planning
- ChargePlan – SMART Charge
  Multi site management (5 locations)

Chargers: Kempower

Vehicles: VDL Citea LE 122, 2024, Battery: 429 kWh

Driving pattern: Mon – Sat 6am – 9pm

Charging upon arrival: 6.500 € / Year / EV
ChargePlan SMART Charge: 4.400 € /Year / EV
Savings: 2.100 € / Year / EV (30%)

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Marius Pedersen

Waste Management And Recycling Company

- ChargePlan – SMART Charge with B-HPC
  - Multi site management (5 locations)
  - Mixed EV fleet and charger setup

Chargers: Nerve Hyper Charger (B-HPC), Kempower

Vehicles: Mercedes eActros, Volvo FM Electric

Driving pattern: Mon – Fri 5am – 2pm

Charging upon arrival: 9.400 € / Year / EV

ChargePlan SMART Charge: 5.000 €/Year/EV

Savings: 4.400 € / Year / EV (45%)

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Get in touch

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