

LPK 482.98 ▼ 15.33

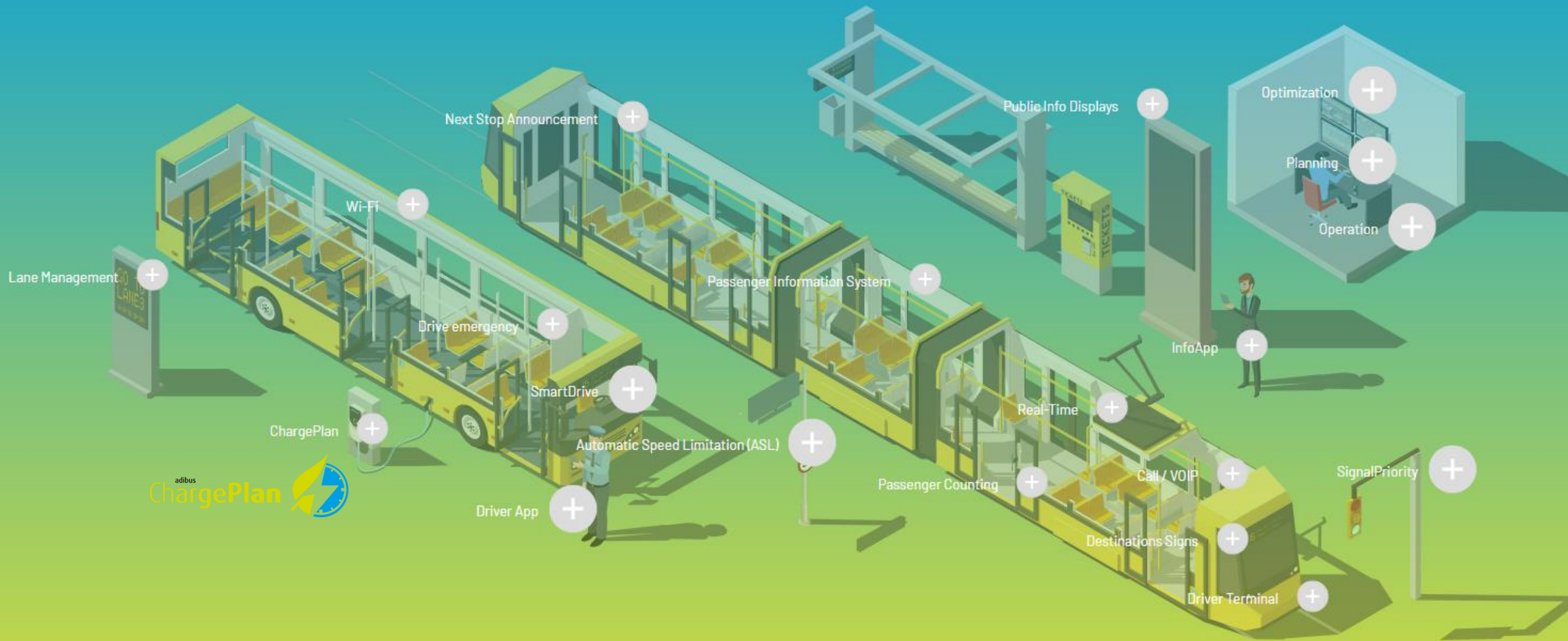


Intelligent Charge Management of EV fleets

Henrik Eriksen hke@adibus.com

INNOVATIVE IT SOLUTIONS FOR PUBLIC TRANSPORT

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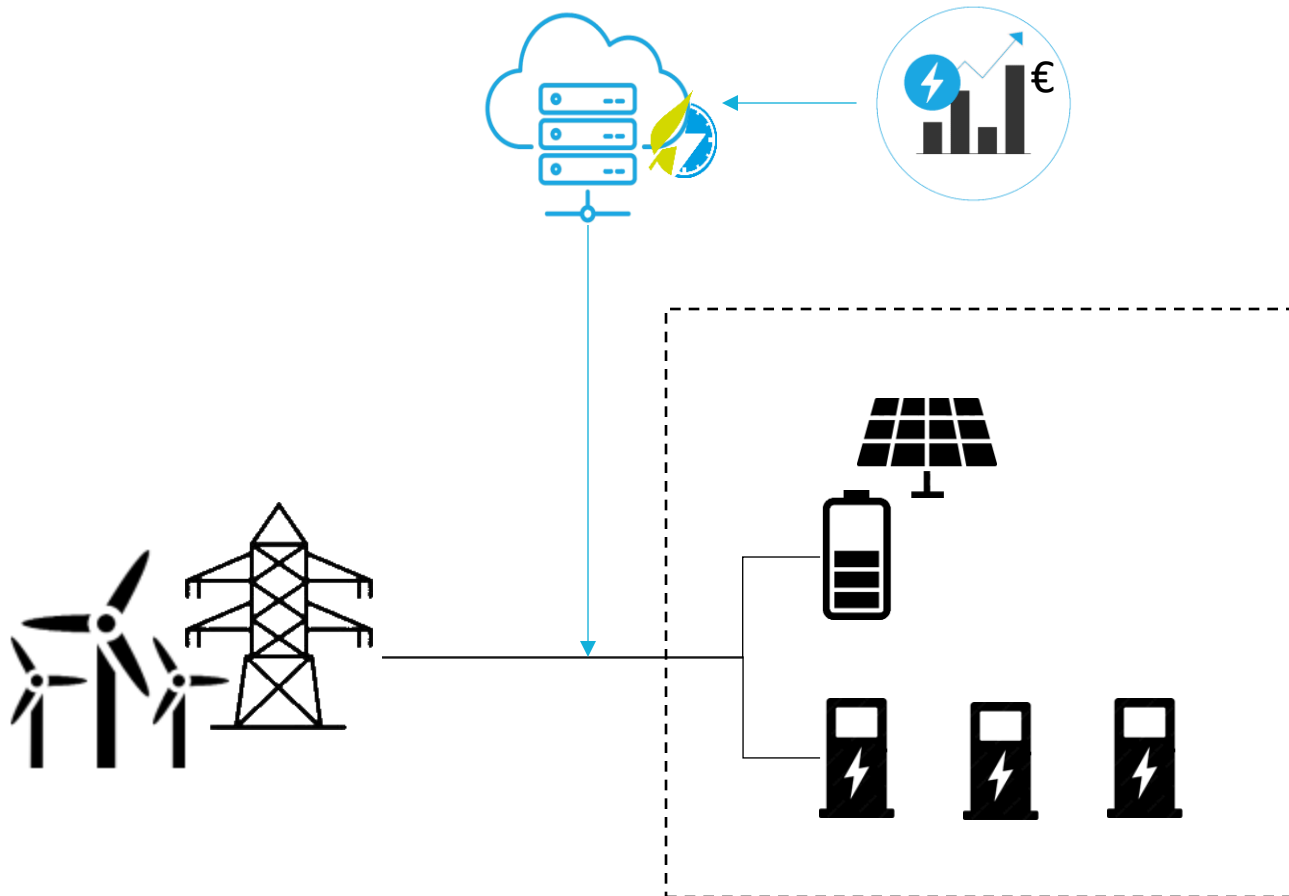


ONE SYSTEM - LOTS OF POSSIBILITIES

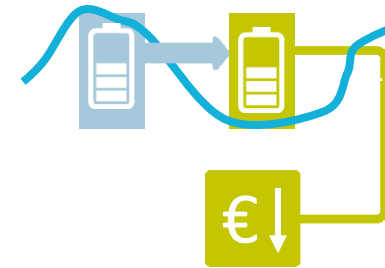
ChargePlan at a glance

- Optimal EV charging based on Price, CO2 emission and/or Capacity
- Tailormade for heavy transportation vehicles
- Ensure Operation stability
- Proactive monitoring and alarming
- Minimal administration
- Ensure Grid balance (Ancillary services)
- Technology agnostic / Supports all OCPP chargers

ChargePlan SMART Charge

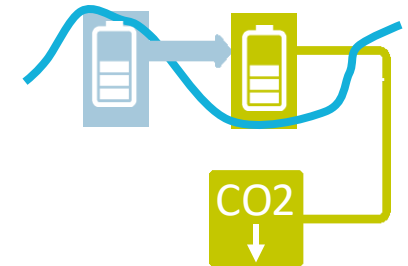


SPOT Price Optimization



Move charging to reduce electrical cost

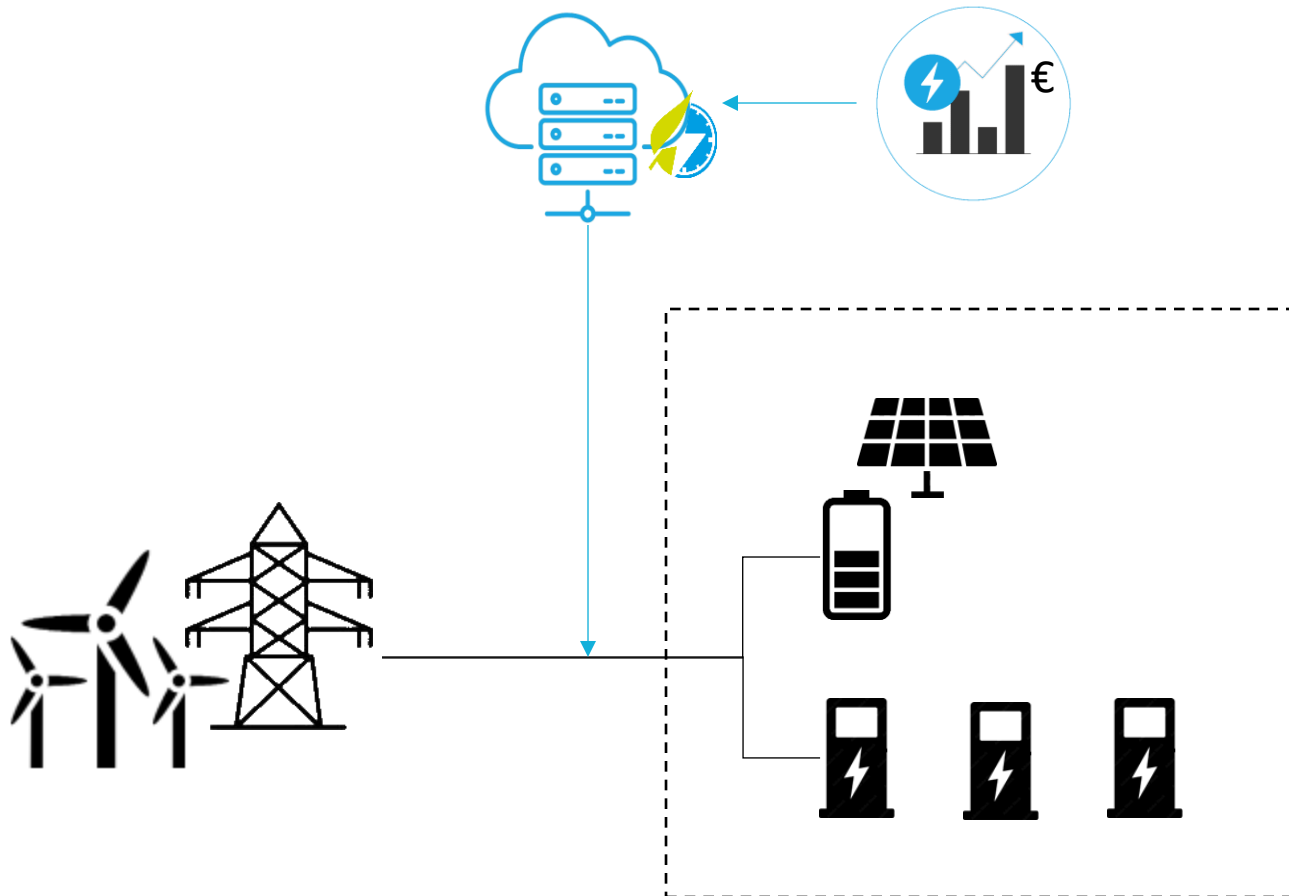
CO2 Optimization



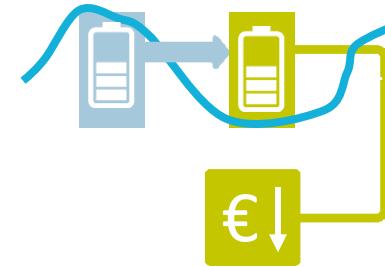
Move charging to reduce emissions

Usually, our customers save
2-5.000 Euro pr. vehicle

ChargePlan Balance

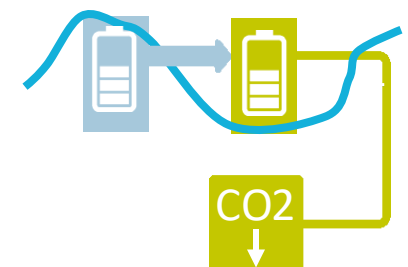


SPOT Price Optimization



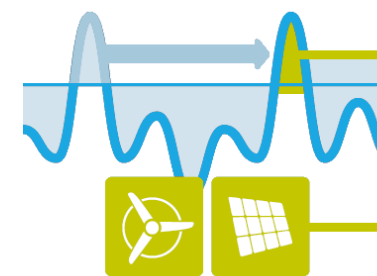
Move charging to the cheapest period

CO2 Optimization



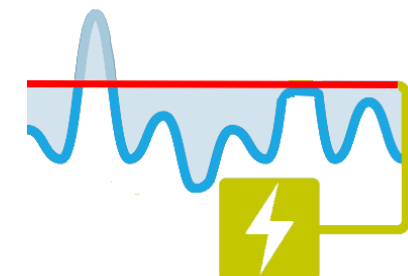
Move charging and reduce emissions

Load Shifting



Charge battery based on electric pricing and grid capacity

Peak Shaving



Reduce electricity consumption to avoid overload

Features in the detail

ChargePlan SMART Charge



Reduce charging cost with +20%



Proactive alarming related to charging process



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



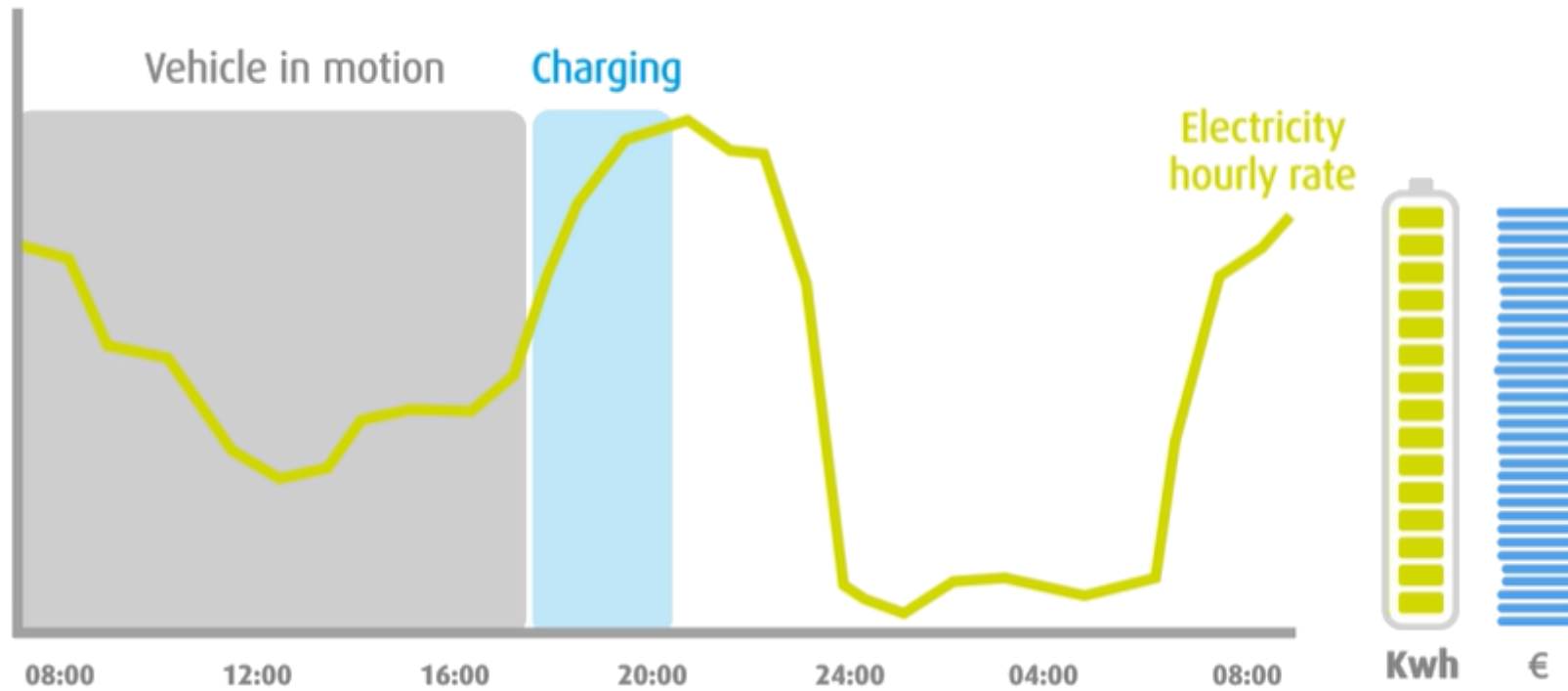
Depot load Balancing



Peak Shaving

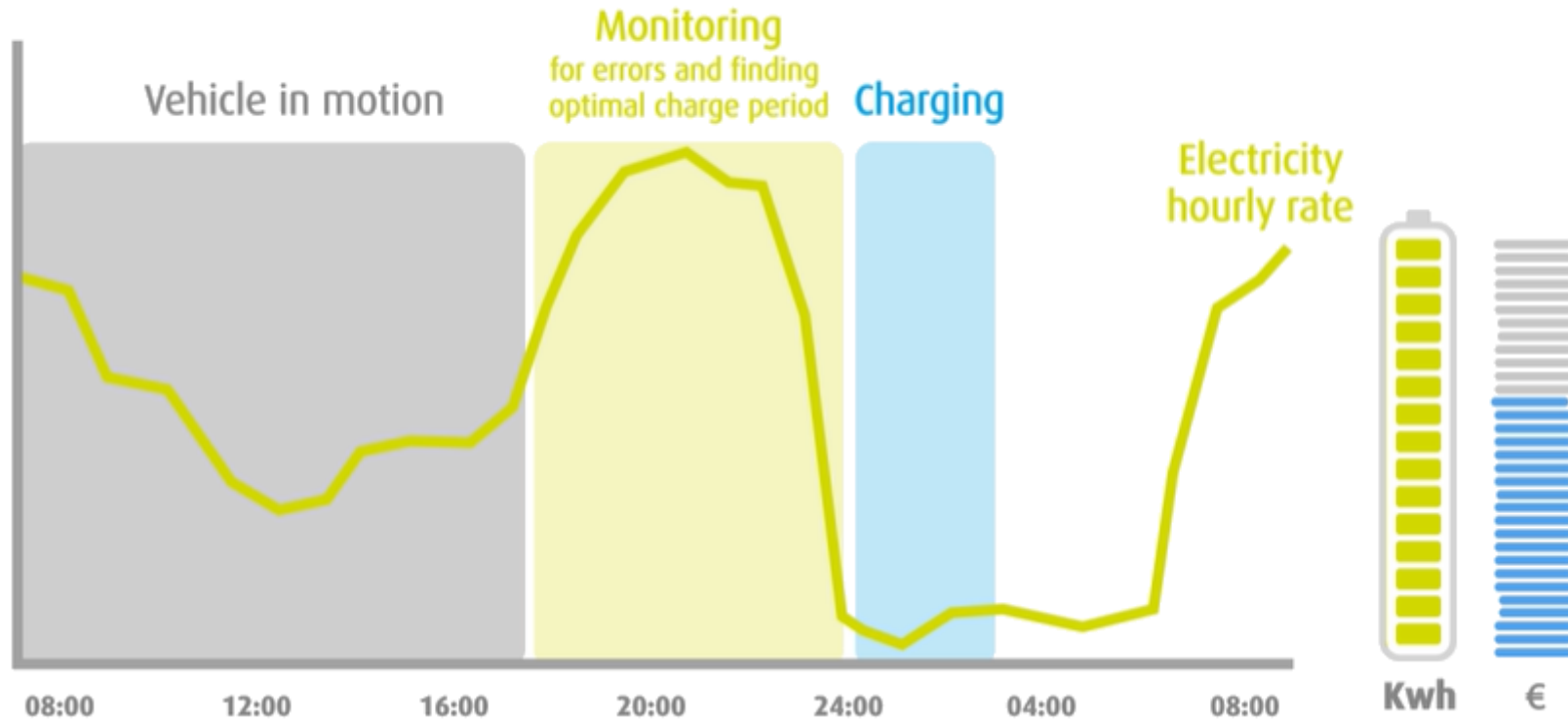
SMART Charge

CHARGING ON ARRIVAL AT DEPOT

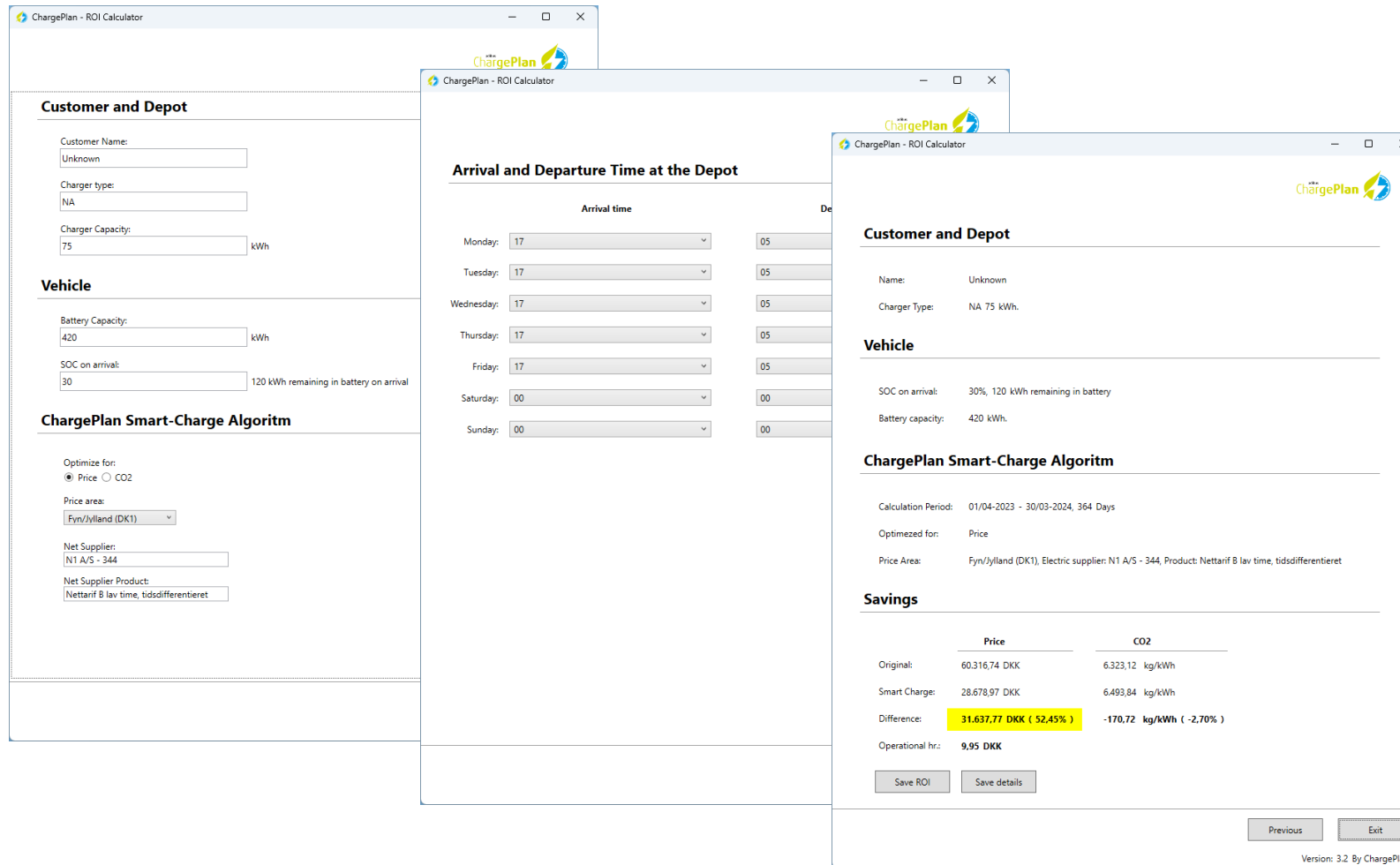


SMART Charge

CHARGING USING CHARGEPLAN



SMART Charge – The Business Case



ChargePlan - ROI Calculator

Customer and Depot

Customer Name: Unknown
 Charger type: NA
 Charger Capacity: 75 kWh

Vehicle

Battery Capacity: 420 kWh
 SOC on arrival: 30% 120 kWh remaining in battery on arrival

ChargePlan Smart-Charge Algorithm

Optimize for: Price CO2
 Price area: Fyn/Jylland (DK1)
 Net Supplier: N1 A/S - 344
 Net Supplier Product: Nettarif B lav time, tidsdifferentieret

Arrival and Departure Time at the Depot

Arrival time

Day	Hour	Minute
Monday:	17	05
Tuesday:	17	05
Wednesday:	17	05
Thursday:	17	05
Friday:	17	05
Saturday:	00	00
Sunday:	00	00

Customer and Depot

Name: Unknown
 Charger Type: NA 75 kWh.

Vehicle

SOC on arrival: 30%, 120 kWh remaining in battery
 Battery capacity: 420 kWh.

ChargePlan Smart-Charge Algorithm

Calculation Period: 01/04-2023 - 30/03-2024, 364 Days
 Optimized for: Price
 Price Area: Fyn/Jylland (DK1), Electric supplier: N1 A/S - 344, Product: Nettarif B lav time, tidsdifferentieret

Savings

	Price	CO2
Original:	60.316,74 DKK	6.323,12 kg/kWh
Smart Charge:	28.678,97 DKK	6.493,84 kg/kWh
Difference:	31.637,77 DKK (52,45%)	-170,72 kg/kWh (-2,70%)
Operational hr.:	9,95 DKK	

Buttons: Save ROI, Save details, Previous, Exit

Version: 3.2 By ChargePlan

Plan when to Charge

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ChargePlan
⋮

- Realtime <
- ChargePlan >
- Planning
- Chargers
- Vehicles
- Charging reports
- Notifications <
- Language <
- Print page
- Log off
- Abort impersonation

Planning

Contractor
Depot
Vehicle

DR 30 038
+ Create schedule

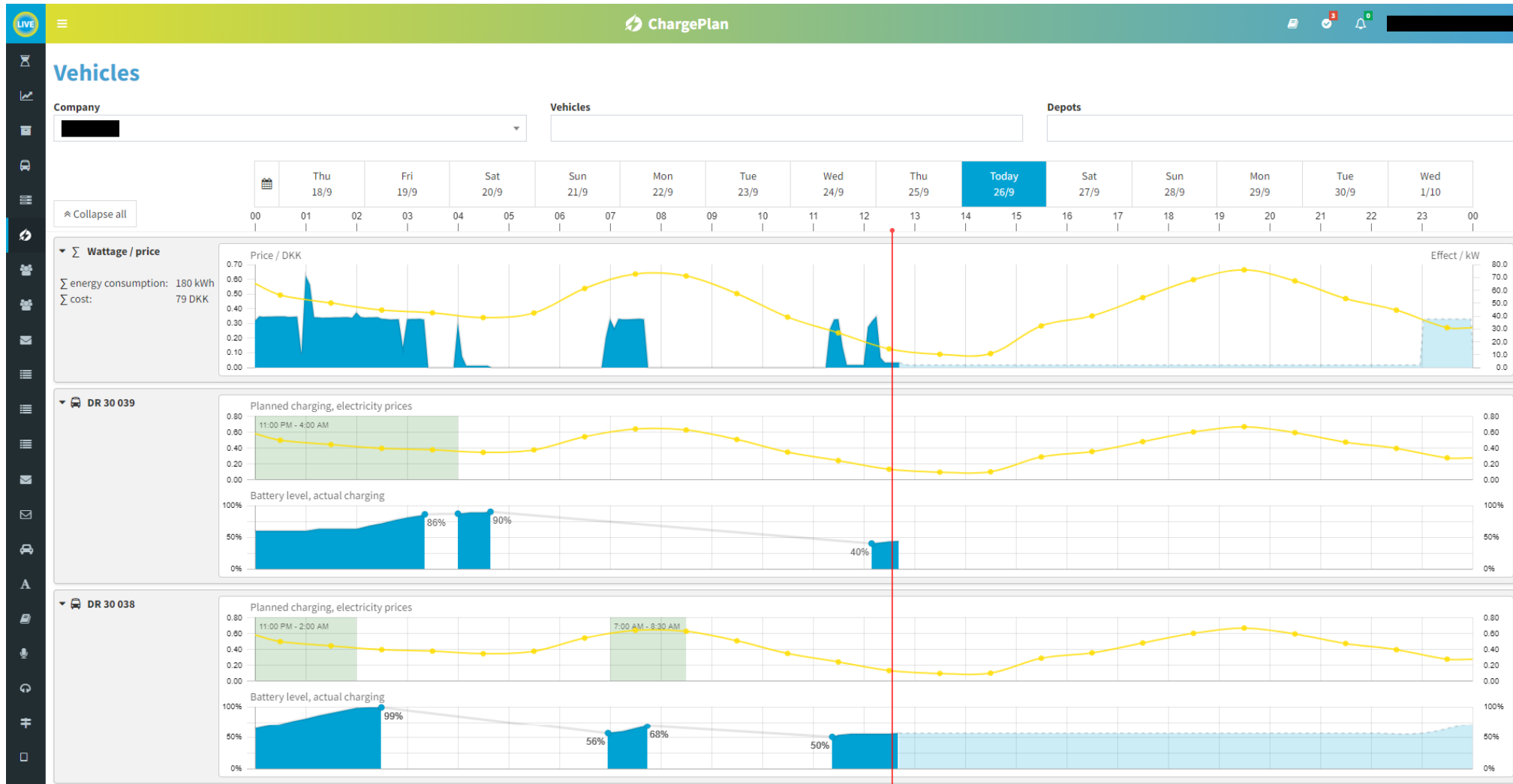
Active	Selected charger <input type="text" value="Narresundby: Port-1"/>	Charging time Nov 10 From: 07:00 To: 08:30	Recurrence Weekdays M T W T F S S End date no end date	Target SOC 100%	Vedligehold Not allowed
Active	<input type="text" value="Narresundby: Port-1"/>	Dec 2 From: 23:00 To: 02:00	Weekdays M T W T F S S End date no end date	Target SOC 100%	Vedligehold Not allowed
Active	<input type="text" value="Narresundby: Port-1"/>	Dec 11 From: 03:00 To: 07:00	Weekdays M T W T F S S End date no end date	Target SOC 80%	Vedligehold Not allowed

DR 30 039
+ Create schedule

Active	Selected charger <input type="text" value="Narresundby: Hegn-1"/>	Charging time Dec 7 From: 22:00 To: 04:00	Recurrence Weekdays M T W T F S S End date no end date	Target SOC 100%	Vedligehold Maintenance allowed
Active	<input type="text" value="Narresundby: Hegn-1"/>	Dec 11 From: 01:00 To: 05:00	Weekdays M T W T F S S End date no end date	Target SOC 80%	Vedligehold Not allowed

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Charger overview



Supported Chargers



And many more.....





Becoming a ChargePlan Partner

Henrik Eriksen hke@adibus.com

www.charge-plan.com