HIGH POWER E-BUS INFRASTRUCTURE

LESSONS FROM DEPLOYMENT

EKO ENERGETYKA SMART ENERGY SYSTEMS™

WHO WE ARE

KEY DATES

2009 Establishment of the company

2010 First charging project - city of Wrocław

2012 High power chargers for e-buses

OUR OFFER

TURN-KEY CHARGING SOLUTIONS FOR E-BUSES

R&D

PRODUCTION

DEPLOYMENT

MAINTENANCE

REMOTE MANAGEMENT

OUR PRODUCTS

DEPOT CHARGERS
20-80kW

OPPORTUNITY CHARGERS
200-450kW

MATRIX CHARGING

BUS CHARGING CONTROLER

1

“THERE IS SO MUCH POLLUTION IN THE AIR NOW THAT IF IT WEREN'T FOR OUR LUNGS THERE'D BE NO PLACE TO PUT IT ALL.”

ROBERT ORBEN

European Environment Agency (EEA) estimates that air pollution is responsible for more than 430 000 premature deaths in Europe.

2

*“ in 2023 the sales of electric trucks and buses will reach 160,000 units globally***

Navigant Research

*Frost and Sullivan

** Navigant Research https://www.navigantresearch.com/newsroom/sales-of-electric-trucks-and-buses-are-expected-to-reach-nearly-160000-annually-by-2023

OUR CHARGERS IN ACTION

5GWh

Total energy loaded to buses to date

5000kW

the total cumulated charging power of our e-bus chargers deployed to date

JAWORZNO

190kW 32kW

"An e-bus charges like any other electric device, there needs to be a source of power, a charger and the device. Of course, any technological innovation carries with it its risks but for us it was acceptable, we learnt and now are able to increase our e-fleet"

HANNOVER

450kW 150kW

- Traction powered,
- Serving three charge points,

3 electric Solaris Urbino
12 Buses

"Each city should be able to choose its own charging poles"

BARCELONA

450kW

- Opportunity charger, to be installed in the city,
- The biggest hurdle - administration

Visualisation from Barcelona - photo provided by TMB

LESSONS LEARNED

1

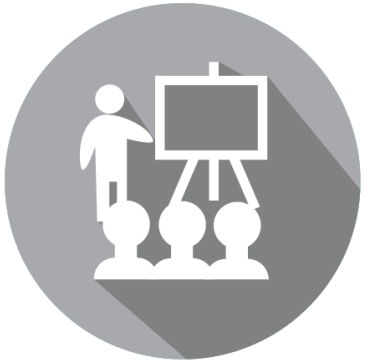
E-bus deployment
= no problem*

*for some!

2

Design is important

3



Administration
can be a hurdle

TRENDS

1

Smaller,
prettier chargers

2

Infrastructure owned
by charger provider

3

Photo: Schunk Pantograph

Pantograph
for depot charging

THANK YOU!

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