Electric roads
Finding solutions for individual customer needs

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Head of Hybrid System Development
Scania
Utilise available solutions

% of fossil energy use

Today 2050

Technology
Driver
Logistics
Biofuels
Electrification
A modular system
A modular system
A modular system

- NONE
- H2
- CNG/LNG
- ETHANOL
- FAME
- DIESEL
- NUCLEAR
- HYDRO
- WIND
- SOLAR
- BIOWASTE
- FOSSILE
- GAS

Traffic Condition  Climate  Fuel  Electricity  Infrastructure  Engine  Transmission  Battery

SCANIA
Different solutions…

Conductive power transfer from overhead lines

Inductive power transfer from the road

…for different needs
Current solution

Hybrid electric road vehicle

Scania hybrid powertrain

Open standardized interface

Inductive

Other

Conductive

Current solution
In operation for two years

Here and now!
Electrification will ignite the future…
…when the business model is in place

Cost of technology (vs competing tech)

Cost of energy
Cost of pollution + other features

Negative business case
Positive business case

it’s not if, it’s when

“reduced cost of technology and increased energy price will boost the business case with a double effect in the future.”