



The future of City Transportation is Electric

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**Night-time assignments improve
safety and productivity**



Indoor Noise



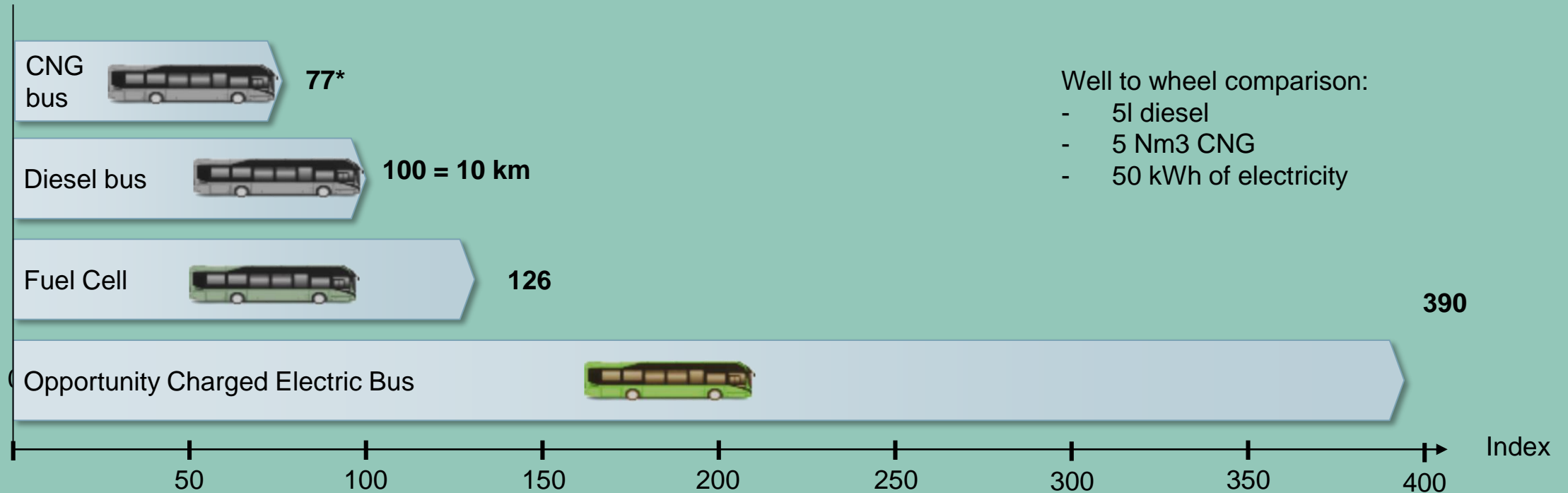
Accessible

Attractive and efficient

Clean

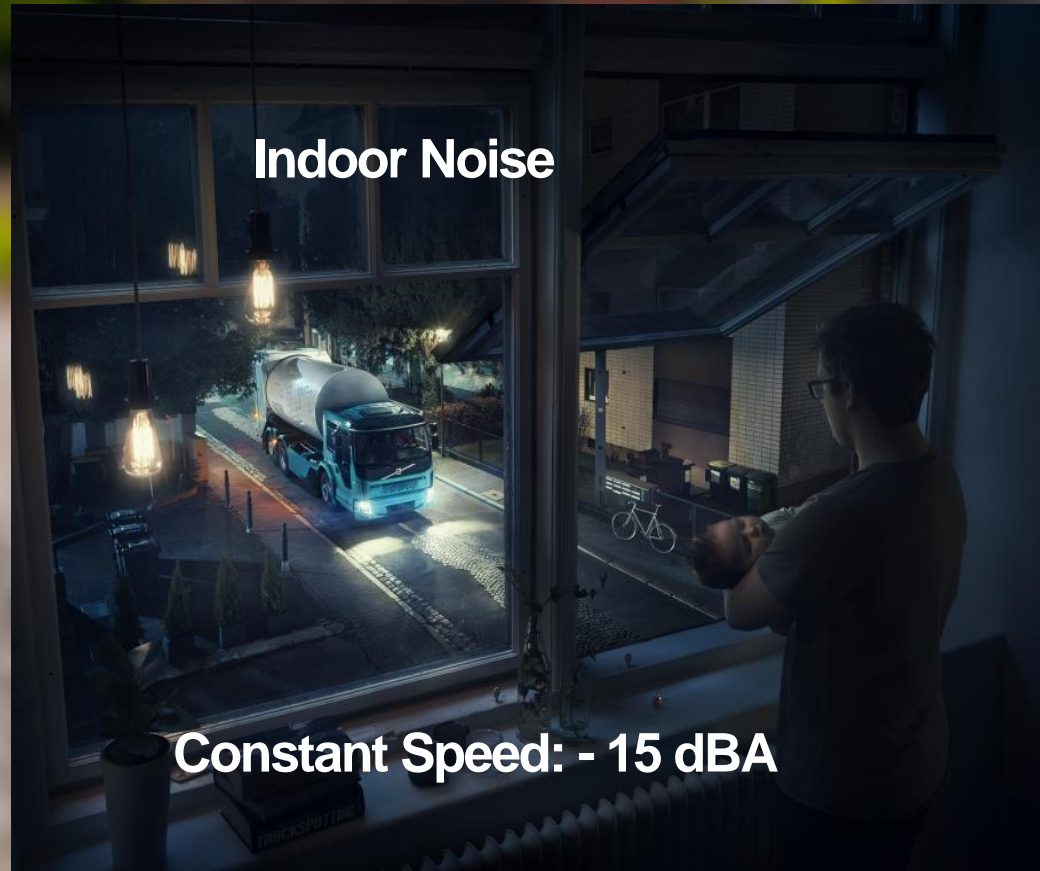
Silent

How far does 5 liter of diesel take you?



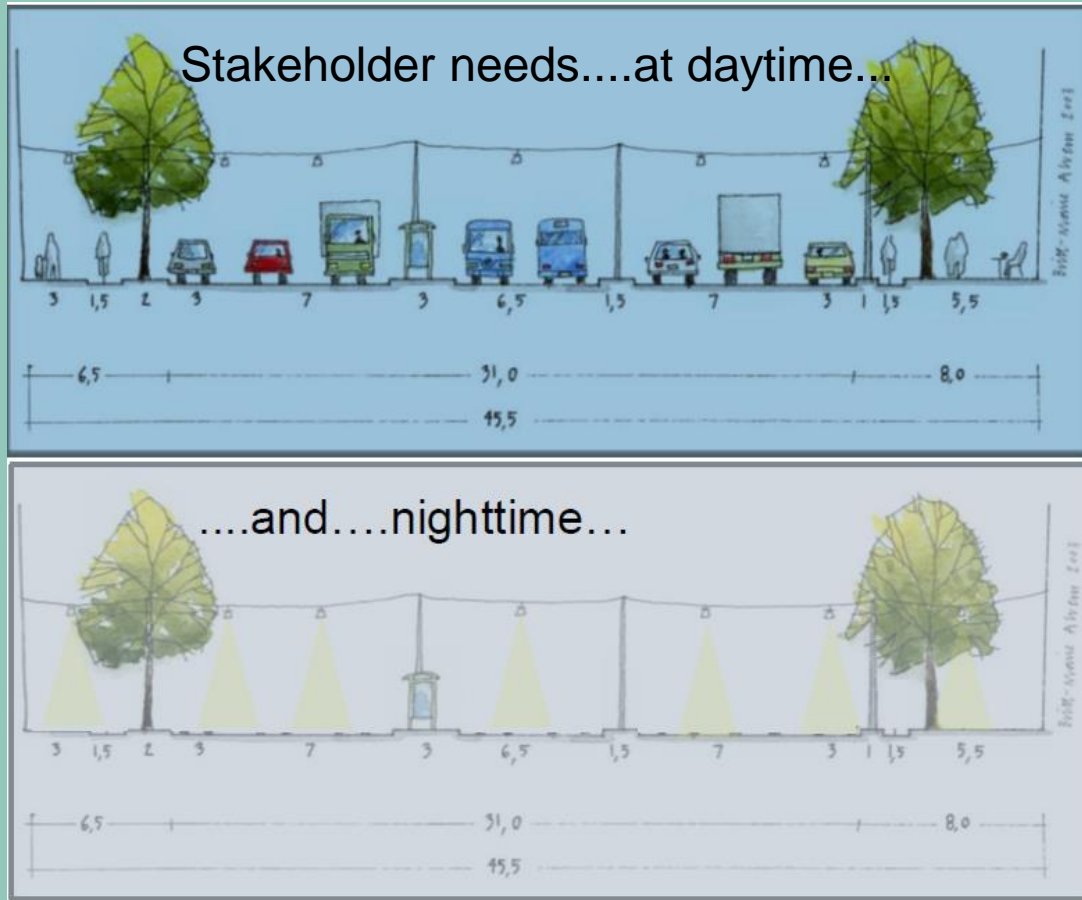
SOURCE: FCH JU , International Energy Agency 2011

Making the city quieter



Source: Sustainable city – open to the world, Trafikkontoret, Göteborgs Stad

Off Peak Deliveries



Pilot Tests

(New York, London, Stockholm)

- ✓ Average speed go up
- ✓ Shipment times go down
- ✓ Increased delivery precision
- ✓ Inventory cost goes down
- ✓ Less peak hour congestion
- ✓ Local air quality improves
- ✓ Fuel consumption reduced
- ✓ Reduced risk of accidents
- Night-time Noise?
- Customer convenience?

Electric City Distribution Challenges

ZERO-EMISSION
ZONE

SILENT ZONE

OPPORTUNITY
CHARGING

SAFETY ZONE

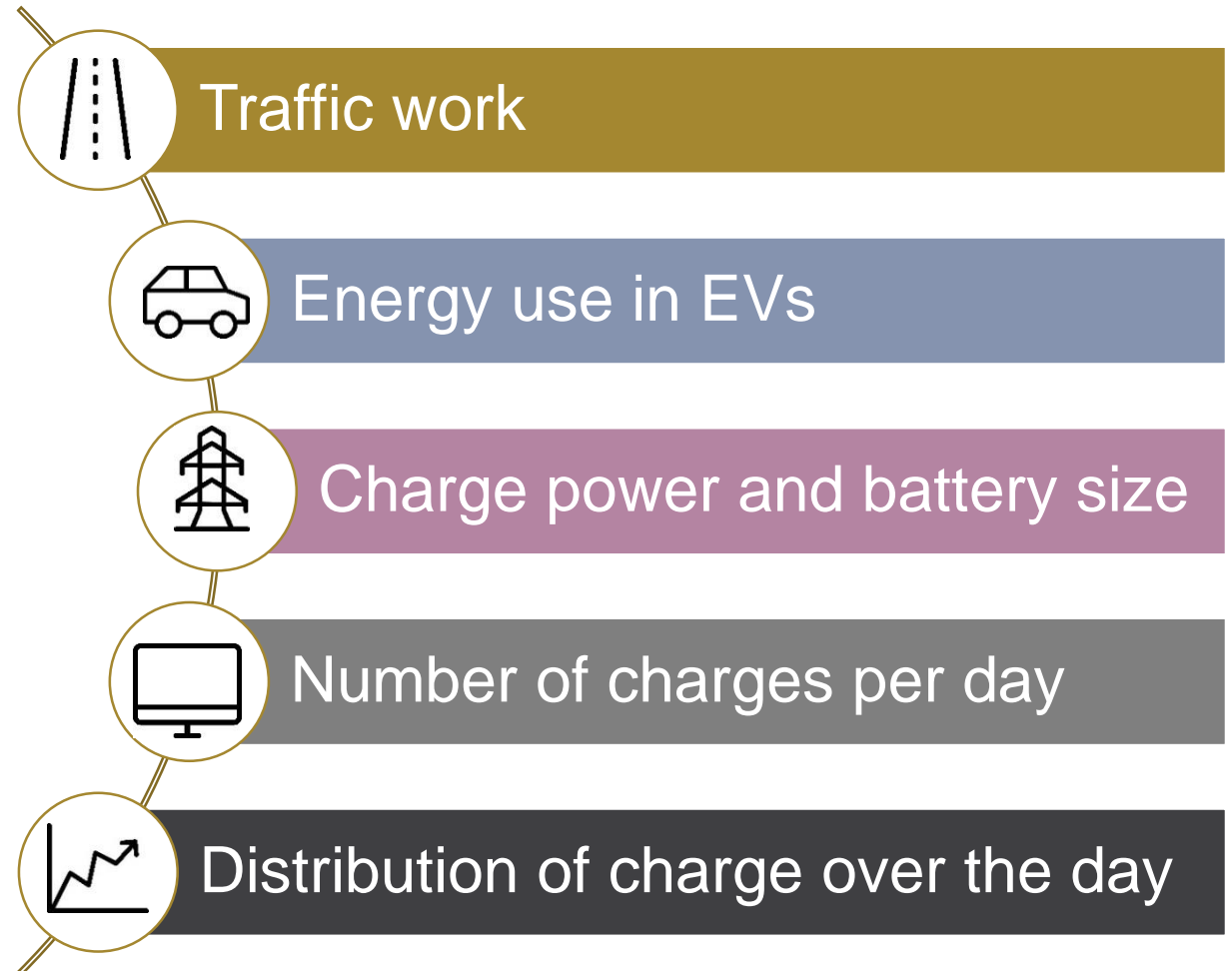
- Vehicle Size
- Driving Range
- Charging Strategy
- Driver behaviour
- Logistic development
- Regulatory development
- City-scaping
- Public opinion





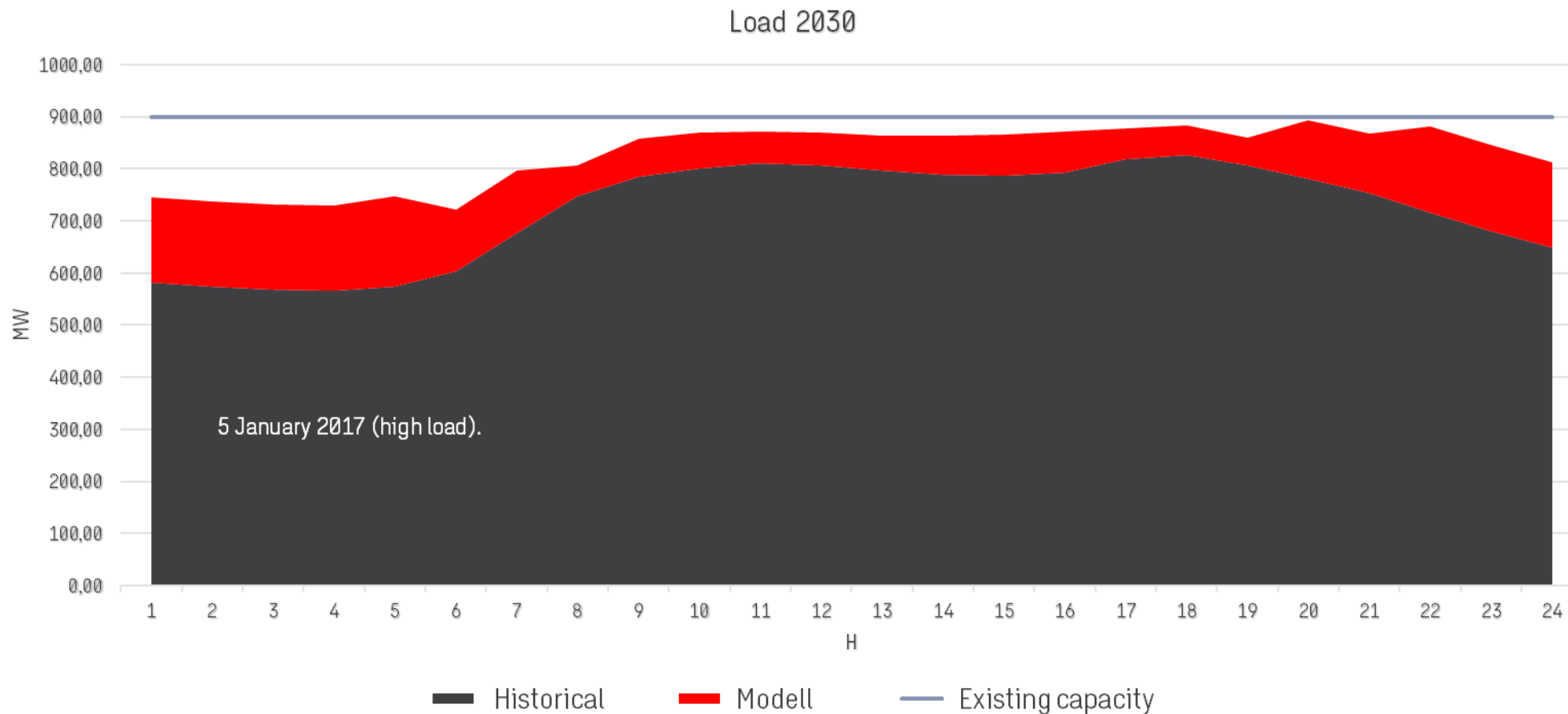
Estimating energy and power requirement for charging of EVs in Gothenburg

- The purpose is to estimate whether the capacity of the DSO grid in Gothenburg will manage “total” EV-load
- Traffic work in the municipality of Gothenburg and commuting to and from neighboring municipalities
- Scenarios for development to the year 2030
- Presented as a scenario for full electrification and "new traffic hierarchy"





Estimated energy and power impact for charging of EVs in Gothenburg



Volvo FH & FM LNG



Saving fuel



VERA



We need to travel into the future together!

