Night deliveries with clean and silent vehicles

International Urban Freight Conference

2019-10-16, Long Beach, Los Angeles

Robin Billsjö, City of Stockholm, Magnus Blinge, Scania
What is the Eccentric project?

Sustainable mobility and transport in suburban and peripheral districts – 50 measures.

30 partners in Madrid, München, Ruse, Stockholm, Turku

1 sep 2016 – 31 aug 2020
Eccentric measure 7.4
Night deliveries with clean and silent vehicles
Eccentric measure 7.4
Night deliveries with clean and silent vehicles
Eccentric measure 7.4
Night deliveries with clean and silent vehicles
Eccentric measure 7.4
Night deliveries with clean and silent vehicles
Eccentric measure 7.4
Night deliveries with clean and silent vehicles

- Night-time deliveries to 6 McDonald restaurants in Stockholm inner-city
- A plug-in hybrid Scania truck
- Electric drive within defined zones
- Charging at one restaurant and at HAVI terminal 30 km from city centre
- Scania Zone (Geogencing) is used for controlling speed and electric drive within defined geofenced zones
Eccentric measure 7.4
Night deliveries with clean and silent vehicles

- Pre-defined areas where the truck can be controlled regarding speed, noise and emissions
- Automatically complying to defined rules

- Plug-in Hybrid Electric Vehicle, designed for our customer needs
- 10 km electric
- 20 min charging time
- Trade-off between range and cost
Eccentric measure 7.4
Night deliveries with clean and silent vehicles

Results

- 30% reduction of delivery time
- 44% lower fuel consumption
- 80% less NOx
- Less stressed drivers
- EV’s are critical enablers for off-peak
- Delivery noise is critical, also in busy areas, silent equipment needed
Challenges?

• "Too good to be true"…

• We need to extend the pilots to find the challenges
  - More sensitive areas
  - Different customers
  - Charging stations
  - Battery capacity
  - Personnel receiving the deliveries
Eccentric measure 7.4
Night deliveries with clean and silent vehicles
Eccentric measure 7.4
Night deliveries with clean and silent vehicles

- Zero Emission
off-peak Urban deliveries
Thank you!

Robin Billsjö  
**City of Stockholm**  
robin.billsjo@stockholm.se

Magnus Blinge  
**Scania**  
magnus.blinge@scania.com

civitas.eu  
stockholm.se  
scania.com