

VOLVO BUSES

Electric Buses and Opportunity Charging



Full Electric Bus

- Opp Charge opportunity charging.
- Unlimited operational distance.
- Up to 36 km from one charge.
- Zone Management Capability
- Operating in Gothenburg, Luxembourg, Montreal and UK.







OPPcharge

FAST CHARGING OF ELECTRIC VEHICLES







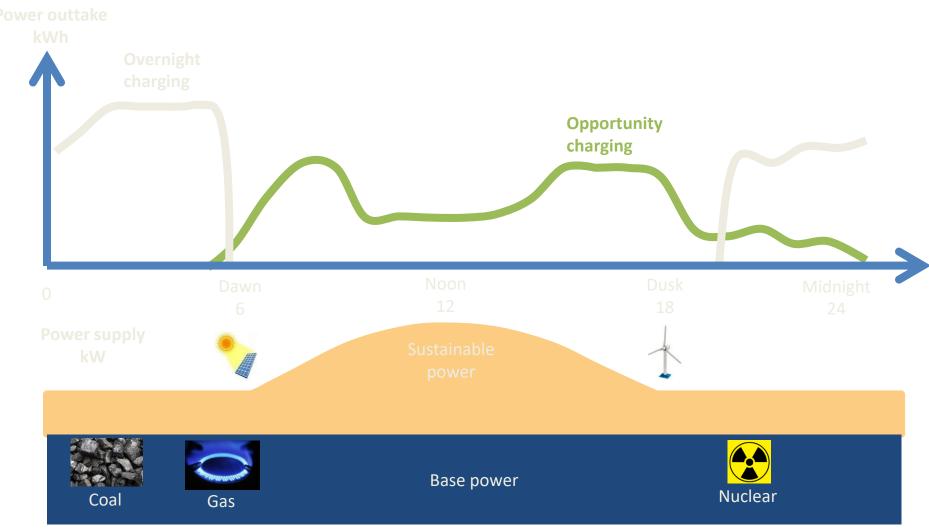
Opportunity Charging Advantages.

- Even distribution of power demand
- Energy consumption spread through the day and night
- Allows for 24 hour operation
- Common open interface
- Fully automated connection
- High utilisation of the charger
- Allows flexibility for operators and local authorities.





Opportunity Charging and Renewables





Harrogate

- First project in the UK
- Converting the town
 network to zero emissions
- Supporting Transdev and Harrogate to move towards a low emission bus town.
- Traffic Start Q2-18





Harrogate

- 8 Vehicles
- 3 Routes
- 3 Charging Stations

<u> 3 Harrogate - Jennyfield</u>



<u>6-x6 Harrogate Panel Ash Beckwith Knowle</u> <u>Business Park</u>



2A Dene Park/New Park and Bilton Circular





Harrogate







UK Demonstration Programme





- Investment in 12 month UK programme.
- Design of mobile charging station.
- Manchester
- Heathrow
- Coming to a City near you.





