

ElectriCity 2013-2018

ElectriCity line 55

- The buses and chargers works well all year around and in all weather conditions
- The buses are very appreciated by the drivers and by the passengers
- Noise from the buses are greatly reduced at low speeds
- Local emissions are greatly reduced
- The city needs to take an active part in the planning for electric buses
- The buses are also equipped with VDS (Volvo Dynamic Steering), also very appreciated by the drivers



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Photo ElectriCity



ElectriCity EL16



- A new line was started last summer, with articulated buses
- The line and buses are designed for high capacity (Citybus)
- Bus stops have new design and screens for faster passenger flows
- The buses can operate without charging during peak traffic
- The city is studying the need of development for the citybus-system

Photo Peter Lindgren

Autonomous city buses

- Automated systems support the bus driver
- They are working together with safety systems
- Three support systems
 - Bus stop docking
 - Automated depot driving
 - Bus train
- These functions will be tested on city roads
- The city and PTA plan for new bus lines where automated functions is a possibility (Koll2035)



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Photo Peter Lindgren

Urban development

- The indoor bus stop works well
- The city is looking at how electric buses and other heavy vehicles can transform the city
 - Indoor bus stop
 - New bus depot design
 - Local bus chargers
- This a part of new development plans in Gothenburg
- Here the automated functions and safety systems are key factors
- The buses are also geofenced for speed and driveline
- The city are now working on a system to push the city's regulations to the buses



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ElectriCity 2019-2022



Electric trucks



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- Volvo Trucks has delivered two electric trucks
 - Refuse truck
 - Delivery truck
- These will be tested in real conditions
- They have different charging strategies
- A super high power charger is built to support the trucks
- The city is looking at the requirement of charging infrastructure
- The city are also looking at how the transformation can be accelerated

Photo Peter Lindgren

Marine demo arena

- A passenger ferry will be rebuilt to electric drive, “Älvsnabben 4”
- Charging infrastructure will be developed
- An environmental- and noise study of ferries is planned
- Automated functionalities will be developed and tested
- This will also collaborate with the new ferries on the river “Älvsnabbare”
- This will be used in new riverside development areas in Gothenburg



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Photo Peter Lindgren

Electric work site

- New electric working machines for building sites will be developed
- These will be tested at work sites in the city
- Both for large sites and for smaller maintenance works in the city
- The drive is both quietness and elimination of local pollutants
- New battery and/or wired power systems will be tested
- Electric supply must be adapted for electric work sites
- The city of Gothenburg study how demands for electric machines can be included in procurements



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Photo Volvo AB

Conclusion

- Electrification is a big part of the solution
- Cooperation is the key
- We must learn from each other
- Welcome to visit us



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A low-angle photograph of a building's exterior. A large, white, stylized 'ELECTRIC' sign is mounted on a dark blue or black panel. Above the sign, a white structural element is visible, revealing a complex network of red and black cables and electrical components. In the background, a building with a green-tiled roof and a red-tiled roof are visible against a clear blue sky.

ELECTRIC

Photo Peter Lindgren



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THANK YOU
WELCOME to join our journey

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