

Electric buses

In 2030, the Municipality of Aarhus aims to be CO₂ neutral. As the transport sector is the biggest challenge towards that goal, a separate “green transport” plan has been developed. It e.g. contains the goal that already in 2027, all public bus transport must be CO₂-neutral.

FIRST BUSES IN 2019

That is why the first four electric buses in Aarhus were introduced in August 2019. The project received 1,5 mio. DKK in subventions from the Danish Energy Agency.

Besides CO₂ reductions, the electric buses have several other advantages: The noise level is reduced and furthermore, air pollution and health hazardous substances such as particles and NO_x are eliminated as the electric buses have no exhaust. Due to those reasons as well as cheaper operational costs, electric buses are a better choice than e.g. buses running on biogas or biodiesel. Electric buses generally have a longer life span than diesel-buses and with the fast improvement of batteries going on, perhaps the buses can last even longer than anticipated. The first four electric buses have a rather small battery, which allows a bigger number of seats, however it also limits the amount of kilometers they can drive. A 300-kW fast charger, located at one end station of their route supplies the buses with electricity during the day. They drive in shifts, as one bus cannot run on one charge for a whole day. At night, the buses are charged at the bus company's facilities.

MORE BUSES ON THE WAY

By 2021, 29 more buses will be added to the fleet. The new buses will be of the same model (Volvo 7900 Electric), however they will be articulated - with a bend in the middle and sum up to 18,6 meters. They also have a much bigger battery, which makes it possible for them to drive at least 200 km without needing to charge.



FACTS:

- The first four buses are expected to reduce CO₂ emissions with 246 tons yearly with the current energy mix.
- The new buses are expected to reduce CO₂ emissions by up to 2,000 tons annually.
- Introduction of electric buses to the entire city bus network will result in a CO₂ reduction of approximately 10,546 tons of CO₂ annually, eliminating the consumption of 6.3 million liters of diesel.

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