

Charging station energy storage 20 kWh

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Polat, H.; Hosseinabadi, F.; Hasan, M.M.; Chakraborty, S.; Geury, T.; El Baghdadi, M.; Wilkins, S.; Hegazy, O. A Review of DC Fast Chargers with BESS for Electric Vehicles: Topology, Battery, Reliability Oriented Control and Cooling Perspectives. *Batteries* 2023, 9, 121. <https://doi/10.3390/batteries9020121>

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Electric cars are expected to account for 16% of the global car fleet in 2030, rising to 51% in 2040 and to 69% in 2050 [8]. On one hand this electrification process will lead to a significant drop of the average GHG emissions; however, on the other hand, it will require the integration of vehicles into a reliable and affordable as well as easy-of-use infrastructure for the supply of energy [9].

Before establishing the AC-DC converter, the first decision to be made in the design of a UFC station is whether to follow a common AC or a common DC bus approach as shown in Fig. 2. Nevertheless, this holds only in case of line frequency transformer, in fact if the SST is chosen as connection to the grid, a common DC bus configuration is the only possible solution, since the mentioned technology covers the functionality of LF transformer and AC/DC conversion.

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