

Norway peak shaving

Renewable energy generation enables the industries and commercial buildings to harvest energy from wind, solar or biogas and to be more self-sufficient in meeting their power demand. They try to reduce the dependency on the external power supply and to produce their own power to manage their electricity demand [6]. However, shifting to renewable, self-generated energy involves various challenges as renewable energy is not available consistently. It rather depends on the environmental aspects such as weather conditions for wind and solar energy.

Based on the registrations between January 2017 and November 2017, the basic description of the most popular battery electric vehicles running in Germany is mentioned in Table 1 [20].

The listed vehicles have an average battery capacity of 37.3 kWh. The definition of the test fleet of electric vehicles for the test cases is based on the specifications of the vehicles, mentioned in Table 1. It is further assumed that these vehicles support V2G technology.

The electric vehicle's battery management system (BMS) provides information about the remaining battery state of charge (SOC) and the remaining available driving range. The participation in the V2G services requires the consent of the Electric vehicle owner. For the considered scenarios the permission of the owner is always assumed as granted.

The Short-Term parking scenario implies the parking pattern over a period of 24 h. It represents the parking patterns on parking lots of office buildings or employees' parking lots at commercial infrastructures. The employees usually have a regular work schedule over the weekdays and the electric vehicles are used for commute to work and back home.



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