



Electric Bus Charging Station (Nanjing, China)

The Project:

In August 2012, 20 electric buses were introduced on Line 19 in Nanjing. To facilitate their operation, a charging station was built in the current bus depot, which has 1 battery changing point and 2 charging points. Changing a bus battery for a bus takes 8-10 minutes. In total, each day, 72 bus batteries can be changed. The bus can operate for 70 km on one charge, which is more than sufficient to cover the 16km bus route.

This scheme was introduced to help improve the energy efficiency of public transport, and to reduce local air pollution and noise. The scheme cost ¥ 53.3 million, and was built under the cooperation framework contract between the local transport authorities and the National Grid.



Current successes/problems

This scheme is the first in the city, and lays the foundations for the future deployment of electric buses. The scheme has already played an important role in reduction of air pollution and noise. The local government plans to enlarge the electric bus fleet to 1058 buses in 2014 and 2275 in 2015. Four new charging and battery changing stations have been planned.