

BACKGROUND

SBS Transit is Singapore's largest public scheduled bus operator with close to 3,000 buses, 97% of which are air-conditioned. Of these, 1,970 are single-deck buses while the remaining are double-deck. SBS Transit currently operates over 250 bus services and carry some 2.2 million passenger trips a day.

The Company is a strong proponent of environmental conservation. Amongst the many measures it has taken include:

Vehicle Emission Reduction Measures

- In 2008, SBS Transit became the first in Asia to invest S\$147 million in 400 new Euro V buses from Scania. These buses hold the distinction as Asia's first European Enhanced Environmentally Friendly Vehicles (EEV). The EEVs are able to reduce the emission of unburnt hydrocarbons by 46% as compared to the standard Euro V models. Close to 200 such buses are already in service.

- SBS Transit has recently ordered another 350 new buses at a cost of S\$159 million.
By the end of 2010, about one in two of our buses will be new.

- We have another 500 Euro IV buses in service. These new buses emit fewer harmful particulates into the atmosphere. In addition, exhaust gas re-circulation technology is employed to cleanse the fumes emitted.

- SBS Transit's North East Line (NEL) and Light Rail Transit (LRT) trains do not emit any exhaust gas as these run on electricity. There are a few specialised work trains that run on diesel but emission control for these trains is very stringent and complies with the minimum standard stipulated by the Land Transport Authority.

- SBS Transit has been using ozone-friendly air-con refrigerant on its entire fleet since 1994. Similarly, NEL stations, depot, trains and LRT vehicles also use environmentally friendly refrigerant.

Energy Usage

- Air-condition setting at the NEL stations is optimised to provide a comfortable temperature gradient between the train cabin and outside ambient. This translates into an estimated \$300,000 in annual savings.
- Station lifts and escalators come with energy saving mode to reduce electricity consumption.
- All trains and LRT vehicles are equipped with a regenerative braking feature which converts dynamic energy into electrical energy which can then be used by other trains or the stations. This reduces electricity demand for train operations and the regenerated energy amounted to recovery of about 10% of train operation energy.

Water Usage

- NEL's wash plant has a water saving device which consumes an average of 380 cubic litres of fresh water every month – 70% less than what it would have been without it. Close to 70% of the water is recycled for train washing. Industrial wastewater collected in the depot is treated before being discharged into the public sewage system.
- At SBS Transit, recycled water is used for washing of buses at the depots.

Waste Management

- In 2005, an in-ground oil interceptor was installed at SBS Transit's depot in Ang Mo Kio to improve wastewater discharge. The company also monitors the discharge level of its wastewater at the depots to ensure compliance with regulatory standards.
- Scrap metal from NEL's train wheels and rails are sold for recycling.

- The refrigerant from NEL's air-conditioning system is recovered, cleaned and recycled during routine maintenance checks.

- At SBS Transit, tyres are re-treaded for re-use if the casings are assessed to be fit for re-use. Obsolete tyres are sent for recycling.

- Batteries and other scrap materials from vehicles are collected for recycling.