

# Mass Rapid Transit Statistics

## **E31 Mass Rapid Transit Operation Statistics**

- E31010 Train-kilometers  
The total mileage of all MRT trains during a specific period and in a particular region.
- E31020 Average Headway During Peak Hours  
The average time interval between two consecutive trains passing a certain point in a system in the two time slots of 7~9 am and 5~7 pm during weekdays.
- E31030 Average Headway During Off-peak Hours  
The average time interval between two consecutive trains passing a certain point in a system any time other than the peak hours.
- E31040 Single Journey Ticket  
The ticket allowing in/out of paid zone one time within the day of purchase.
- E31050 Station Volume  
The number of passengers entering or leaving station in the day or peak hours.
- E31060 Peak-hour Loading  
The number of trips passing through two stations during peak hours.

## **E32 Mass Rapid Transit Transportation Statistics**

- E32010 Mass Transit System  
A public transportation system that connects a city and its satellite towns and provides services to the general public with fixed routes, schedules, stations and rates, such as buses, railways and mass rapid transit systems.
- E32020 Mass Rapid Transit Systems (MRT)  
A public transportation system that uses ground-level, underground or elevated facilities without interference from road traffic and deploys special power vehicles driving on independent and exclusive routes to carry large volume of passengers within urban areas and neighborhoods with high frequency and quick service.
- E32030 Medium-capacity System  
An automated guideway system that uses light rail type trains that can carry around 5,000 to 25,000 passenger trips per hour in one direction, such as the Muzha line of the Taipei MRT.
- E32040 Heavy-capacity System  
An automated guideway system that uses trains with steel wheels on steel tracks or

rubber-tired wheels that can carry over 20,000 passenger trips per hour in one direction, such as the Taipei MRT Danshui line, Zhonghe line, Xindian line, Banqiao line, Nangang line, Xiaonanmen line and Tucheng line; the Kaohsiung MRT Red line and Orange line.

E32050 Design Speed

The maximum speed of the route design.

E32060 Operating Speed

The actual operating speed driving route.

E32070 Max. Operating Speed

The maximum speed allowed during the operation of the train.

**E33 Mass Rapid Transit Mechanical and Electronic Engineering Statistics**

E33010 Stabling Yard

A stabling yard provides a place where Electric multiple units(EMUs) are parked when they are not in operation. EMUs at a stabling yard are powered by the third-rail electrification system.

E33020 Automatic Ticket Issuing/Add Value Machine (ATI/AVM)

An ATI/AVM is used for selling single journey tickets to passengers who can pay their fares by coins, cash or stored-value tickets (EasyCard 、iPASS 、icash, and HappyCash) and providing top-up services.

E33030 Bulk Supply Substation (BSS)

The electricity of MRT system is supplied by BSS fed from Taiwan Power Company (TPC) distribution network to satisfy the power demands of metro stations and plants. In general, TPC serves dual loop Ultra-High Voltage power to BSS of Metro system and then transmits to load level after voltage reduction.

E33040 Mean Time Between Failure

The average time of operation or test stage duration without failure. In mechanical engineering for the metro, it means the ratio of system operation hours to the failure counts in metro Electrical and Mechanical (E&M) system.

E33050 Mean Time To Repair

The average time of recovery from failure to normal operation. In mechanical engineering for the metro, it means the ratio of system maintenance hours for failure event to the failure counts in metro Electrical and Mechanical (E&M) system.