

## Railway accident investigation report

Tramway operator: Nagasaki Electric Tramway Co., Ltd.  
Accident type: Vehicle derailment, accompanied by the accident against road traffic  
Date and time: About 14:56, July 31, 2013  
Location: Around 44 m from the origin in Irie-machi stop, between Tsuki-Machi stop and Shiminbyoin-Mae stop, Oura branch line, Nagasaki City, Nagasaki Prefecture.

### SUMMARY

The 5001 electric car, one-man operated and composed of one vehicle, starting from Hotarujaya stop bound for Ishibashi stop of Nakasaki Electric Tramway Co., departed from Hotarujaya stop at about 14:41, on July 31, 2013. The train driver found the bus entered into the track to turn right while powering the vehicle at about 21 km/h from Tsuki-Machi stop towards Shiminbyoin-Mae stop, immediately he sounded a whistle and applied an emergency brake, but the vehicle collided with the bus and stopped after derailed to right.

There were about 60 passengers and a vehicle driver on board the vehicle, 11 passengers were injured. In addition, there were 6 passengers and a bus driver on the bus, among them, 5 passengers were injured,

The front right part of the vehicle was damaged, and for the bus, the right side of the body was damaged but a fire did not outbreak.

### PROBABLE CAUSES

It is considered probable that the tram driver applied an emergency brake immediately after he noticed the bus ahead, the tram derailed with the bus and the first axle of the front bogie derailed to the right because the bus driver moved the bus into the tramway track, without checking whether the tram approach the intersection, to turn right crossing tramway track and obstructed the route of the tramway, in the situation that it was difficult to see the traffic condition by standing buses around the intersection.