

COUNTRY : JAPAN
Last Name : *OKADA*
First Name : Hiroumi
Title : Assistant Manager, Planning and Development Division
Company : JR East Design Corporation

SHORT BIOGRAPHY:

Born in 1976 at Tokyo.

Graduated from Graduate school of Science and Engineering, Architecture department, Waseda University in 2002 .

Joined Aeroports de Paris Ingenieurs (Paris) in 2002.

Joined Shigeru Ban Architects Europe (Paris) in 2004.

Founded Hiroumi OKADA/ OKEANOS(Tokyo) in 2005

Joined JR East Design Corporation in 2008.

Chief staff , Architectual Design Devision (2008– 2010)

Chief staff, Station Development Planning Dept .(JR East Co),(2010– 2012)

Assistant Manager, Planning and Development Division (2012 – Present)

Theme: **Eco-Station in Tokyo urban area Yotsuya Station**

JR East Design Corporation

Mr Hiroumi OKADA

1. Background

JR East and JR East Group Company develop actively considerations for environment which are reducing energy consumption of train operating and office buildings, using more efficient generator and natural energy, and planning a tree beside the track. JR East also uses various technologies for environmental safeguards and develops "Eco-Station" which is the station for saving energy. JR East has chosen twelve stations, "models of Eco-Station", at various situations in own area and is examining how to make them. Yotsuya Station, which is the first of "Eco-Station", was completed an improvement in 2012. The speaker (Mr Hiroumi OKADA) is a designer for architecture and took part in a person in charge of designer at this project. It shows the result of improvement for renewal.

2. Presentation

(1) Introduction of Yotsuya Station

Yotsuya station is in the center of Tokyo metropolitan area and 270,000 passengers (total of two operating companies, JR East and Tokyo Metro) use it every day. This station is one of the special cases which exist in a moat of Edo-ryo castle that is a cultural asset.

(2) What is "Eco-station"?

JR East decided that Yotsuya station is the first of the "models of Eco-Station". The criterion of judgement is what is "Eco-station" in the Tokyo metropolitan area as various viewpoints.

(3) Eco-Design in Yotsuya Station

These are introductions of Eco-program in Yotsuya station.

- >development of less energy : including a light from nature, using LED light and setting on a toilet for using less water.
- >increasing natural : planting on the roof of station building and platform and walls in the station.
- >creation for energy : constructing solar cells.
- >sending information of ecology : information of ecology is put up on the bulletin board.

(4) Results and technical validation

Yotsuya station is reduced the big amount of CO2 emissions and improved the environment of heating in this project. Changing to "Eco-station", the passenger which uses Yotsuya station has a better impression of the station.

(5) Next "Eco-Station"

JR East and JR East Group Company are changing to "Eco-station" not only Yotsuya station but Hiraizumi and Kaihin-Makuhari station. Service area of JR East has a characteristic of long distance between north and south area in the eastern half of Honshu island which includes the Tokyo metropolitan area. JR East and JR East Group Company estimate that "Eco-station" will be made various and characteristics of types in each region.