

Siemens Solutions at Marmaray Project

Background: Signaling Technologies & Building Technologies

About the Marmaray Project:

- Known in the public as Marmaray, the Gebze-Halkalı Commuter Line will provide a seamless high-capacity commuter rail system, an inter-city passenger service and a freight link between Europe and Asia.
- The Line is also part of the Ankara-Istanbul Corridor and will serve the transport needs for not only the city of Istanbul and its hinterland, but also for the whole of Turkey.
- The Project includes the design, execution and completion of an upgrading of 63 kilometers of the commuter rail system of Istanbul, plus the construction of a railway tunnel under the Bosphorus Strait.
- So far, only the first phase of the project, i.e. the section under the Bosphorus Strait has been completed. This section is 13 kilometers long.
- The section under the Strait was opened on October, 29th, on the 90th anniversary of the foundation of the Turkish Republic.

Signaling of the railway link under the Bosphorus Strait

- DLH (Demiryollar, Limanlar, Hava Meydanları İnşaat Ltd. Şti), Turkish General Directorate of Railways, Harbours and Airports Construction, awarded the joint venture of OHL (Obrascon Huarte Lain) S.A.) and Spanish Invensys Rail Dimetronic (today Siemens Rail Automation) the contract to provide railway signaling and control technologies for the Gebze-Halkalı Commuter Line in 2011.
- Signaling and control technologies of Siemens Rail Automation were used in the first phase of Marmaray project, the section under the Bosphorus Strait.
- This 13-kilometer section includes a railway tunnel under the Bosphorus and five stations. (Two stations in the Asian side and three stations in the European side).

Products, services and solutions implemented by Siemens

- The design, supply, tests and commissioning of the Trainguard FUTUR 1300. ERTMS (European Railway Traffic Management System) Level 1 and Trainguard. SIRIUS CBTC (Communications Based Train Control) trackside equipment.
- A new signaling system including Trackguard Westrace electronic interlocking.
- Train detection systems (jointless track circuits and axle counters).
- LED wayside signals.
- Controlguide Rail 9000 Centralised Traffic Control (CTC).
- Telecommunication and SCADA systems for the entire project.
- Maintenance for two years with an option to extend it to a further five years.

Building Technologies:

- Fire Alarm (Detection) System Flame Detection System.
- FM200 Extinguishing System.
- Gas-Dust Detection System.
- Linear Heat Detection System (Fibro laser).

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