



M34 HIZRAY Rail System Line Implementation Main Project

The HIZRAY project, planned by the İstanbul Metropolitan Municipality (İMM) in 2020, provides the transportation from Beylikdüzü to Sabiha Gökçen Airport in approximately 1 hour. Thanks to HIZRAY, which will keep the land use and development under control between the eastern and western axes of the city, within the TEM-D100 corridor, the pressure for growth towards the forested areas in the northern part of the city will be reduced.

Due to the inability to increase speed in conventional metro systems, express/high-speed metro lines have become current public transportation investment models in mega-cities such as London, Hong Kong, Sydney, Tokyo, Paris and Seoul.

Upon its operation, HIZRAY is expected to transport 1 million passengers per day. The total cost for the construction of the project and procurement of metro vehicles is estimated to be around 6 billion dollars, excluding financing costs.

Project start date	2020
Construction phase	2024-2030
Commissioning	2030
Length	74.5 km
Number of stations	13
Headway	145 sec inner loop (Kirazlı-Mevlana)
Vehicle configuration	10-car train set
Operating speed	140 km/hr
One-way journey time	53.4 min.
Integration	16 Metro, Metrobus, YHT
Bosphorus crossing distance	1.580 m
Depth of passage of the Bosphorus	130 m
Max. one-way passenger capacity	46.396 passenger/hr



The creation of the Medina Public Transportation Network and the M1 Miqat-Airport Metro Project

Metro İstanbul has established the public transportation network in Medina and completed the design for the M1 MIQAT-Airport Metro Project.

Firstly, the travel demands for the rail system lines, metrobus and bus lines in Medina were identified. Subsequently, the Medina Metro Project, which includes underground and above-ground stations, was prepared. Within the scope of the project, route planning, architectural, structural, electromechanical projects, feasibility reports and construction tender documents have been prepared.

Project start date	2013
Project end date	2015
Length	33 km
Number of stations	23
Daily passenger capacity	60.000 passenger/day
Vehicle configuration	6-car train set



Pakistan Lahor Metrobus Line Engineering Consultancy Project

The Lahore Metrobus Line project has been planned in stages on Ferozepur Road, an important corridor in the city of Lahore, Pakistan. It is Lahore's first high-capacity mass transit system, and the project was prepared for the Lahore Transport Company. As part of the project, route and architectural area plans, as well as feasibility reports, have been prepared.

Project start date	2011
Project end date	2012
Length	27,5 km
Number of stations	27
Daily passenger capacity	25.000 passenger/day



M20 Sefaköy-Beylikdüzü (TÜYAP) Metro Line Implementation Basis Project

The M20 Sefaköy-Beylikdüzü (TÜYAP) Metro Line, with a length of approximately 18 kilometers, will extend from Sefaköy all the way to Beylikdüzü, covering the east-west axis of the city.

The design philosophy of the line's route focused on maximizing passenger attraction, minimizing station depths and land acquisition requirements to reduce construction costs, while also emphasizing integration with potential rail systems and other modes of transportation.

Project start date	2020
Project end date	Continues
Length	18 km
Number of stations	10
Daily passenger capacity	64.000 passenger/day
Vehicle configuration	8-car train set

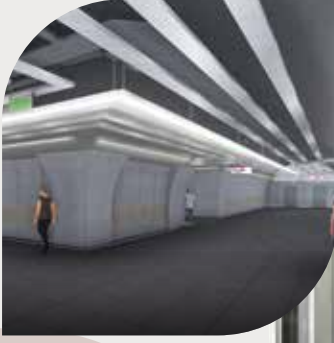


A1 Hattı (Ankaray) Dikimevi-Natoyolu Extension Line

The Ankara Dikimevi-Natoyolu Extension Line, with a total length of 8.5 kilometers, is an extension of the existing A1 Ankaray Dikimevi-AŞTİ Rail System Line. It consists of 11 stations.

The extension line, which includes the stations Abidinpaşa, Aşık Veysel, Tuzlucaıyır, General Zeki Doğan, Fahri Korutürk, Cengizhan, Akşemsettin and Natoyolu, is 7.4 kilometers long.

Project start date	2020
Project end date	2023
Length	7,4 km
Number of stations	8
Daily passenger capacity	27.720 passenger/day
Vehicle configuration	3-car train set



Sultangazi-Arnavutköy Rail System Line Final Project

The Sultangazi-Arnavutköy Metro Line is planned as an extension of the Vezneciler-Sultangazi Metro Line, which starts from the historic peninsula. It is one of the first projects in İstanbul designed based on BIM, with strong interdisciplinary coordination.

Within the scope of the project, route planning, architectural, structural, electromechanical projects, feasibility reports, and construction tender documents have been prepared. VR simulations have been used to provide an opportunity for experiencing the stations before construction, leading to the development of innovative solutions.

Project start date	2016
Project end date	2018
Length	15,5 km
Number of stations	4
Daily passenger capacity	45.000 passenger/day
Vehicle configuration	6-car train set



Seyrantepe-Alibeyköy Cep Otogarı

Rail System Line Final Project

The extension of the M2 Yenikapı-Hacıosman Metro Line between the Sanayi Mahallesi and Seyrantepe stations has been designed as an extension of the shuttle line operation.

In this BIM-based project, interface problems that may arise during design, construction and operation stages have been minimized.

Within the scope of the project, route planning, architectural, structural, electromechanical projects, feasibility reports and construction tender documents have been prepared. Passenger simulations have also been conducted to optimize the designs.

Project start date	2016
Project end date	2019
Length	6,9 km
Number of stations	3
Daily passenger capacity	70.000 passenger/day
Vehicle configuration	8-car train set



Bilecik-Bozüyük Nostalgic Tramway Project

The Bozüyük Nostalgic Tram Line is a project located on Atatürk Avenue, Hükümet Avenue, and İsmet İnönü Avenue in the town center of Bozüyük. It has been prepared for the Bozüyük Municipality.

The total length of the line is 12 km and it has been designed to operate in both directions. Along the route, a total of 20 stations are positioned in the median strips. A depot area has been designed at the end of the line.

Project start date	2021
Project end date	2022
Length	12 km
Number of stations	20
Daily passenger capacity	2000 passenger/day
Vehicle configuration	1-car train
Average speed	12 km/hr



Gölbaşı Nostalgic Tramway Project

3.1 km rail system line with 8 stations has been designed for Ankara Gölbaşı Municipality.

The project operates along the north-south axis of Gölbaşı, on a busy route;

- Easing urban traffic congestion.
- Providing affordable and fast transportation for university students to access social facilities in Gölbaşı District.
- Reducing the demand for vehicles within the city by offering a modern, fast, comfortable, and safe tram travel.
- Aim to significantly decrease traffic congestion, air pollution, noise, and visual pollution caused by road vehicles.

The Gölbaşı Line route primarily passes through areas with residential and commercial functions. Additionally, there are several public and commercial facilities along the line, including Ankara University Gölbaşı Campus, Ankara University Technology Development Center, University Dormitory Zone, Gölbaşı Municipality, and Gölbaşı District Governorship. Inspired by the important symbol of Gölbaşı, the Crane Bird, a special canopy design has been created for the stations.

Project start date	2022
Project end date	2023
Length	3.1 km
Number of stations	8
Daily passenger capacity	2000 passenger/day
Vehicle configuration	1-car train
Average speed	12 km/hr
Tour duration	30 min.