



Project Kayseray, City of Kayseri, Turkey

The City of Kayseri Uses Rain Bird® Solutions to Manage Irrigation of its Railway Green Spaces

Kayseri, a large industrialized city in Turkey, has developed “Kayseray,” a light rail street tram system introduced to reduce traffic congestion and increase the use of mass transit. Because of the long strips of turf that have been installed parallel to the railway lines, UITP has awarded Kayseray “Best Railway System Compatible with the Environment.”

THE CHALLENGE:

With the creation of the new 35 km Green Line, the city must now irrigate 250,000 square meters of associated turf. Because the soil is very shallow and the turf area is very narrow, the Kayseri Metropolitan Municipality needs to install a water-conscious irrigation system that mitigates erosion and minimizes run-off, and overspray.

THE SOLUTION:

The Kayseri Metropolitan Municipality has teamed up with Daspinar Irrigation Ltd. to install a sub-surface drip irrigation system featuring innovative Rain Bird products. This sustainable, low-maintenance solution will maximize water-saving opportunities and satisfy the practical needs of both the city and the railway.



XFS Subsurface Dripline with
Copper Shield™ Technology

KEY OBJECTIVES

- ✓ Centralize Irrigation Control
- ✓ Conserve Water
- ✓ Maximize Efficiency
- ✓ Protect Against Water Damage

Core Products Used:

- XFS Subsurface Dripline with Copper Shield™ Technology
- XF Dripline Insert Fittings
- PGA Series Valves
- IQ™ Central Control
- ESP-LXD Series 2-Wire Decoder Controllers
- FD-TURF Series 2-Wire Decoders
- D Series Pump Station



Site Report: **Project Kayseray, City of Kayseri, Turkey**

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APPROACH:

Keep It Green

Rain Bird's XFS Sub-Surface Dripline with Copper Shield Technology™ is buried below the soil surface, delivering water at the root zone for maximum efficiency. As opposed to an overhead irrigation system, sub-surface dripline will provide maximum protection against run-off, erosion, and overspray on the narrow strips of turf. Not only does this conserve resources, but it will also prevent water from accidentally spraying on equipment or pedestrians.

Centralize System Control

A new IQ™ Central Control platform will provide full visibility into the health and status of the irrigation system from a single location. IQ will allow irrigation managers to operate multiple ESP-LXD controllers from one home base, reducing the amount of labor it would take to manage each controller individually, and increasing response time in the event of a problem.



RESULTS:

A Flourishing Green Space

The Kayseray railway system was able to irrigate its green spaces efficiently using sub-surface dripline irrigation. Eliminating runoff and overspray has reduced the risk of hazardous conditions on the rail system and surrounding roads and walkways. The new Central Control system allows for more efficient and proactive irrigation management and sets Kayseray up for a successful and sustainable future.

