



Guadalajara Metro Line 3



SENER MOBILITY / TRANSPORTE URBANO EN / METRO / MEXICO

*GUADALAJARA METRO
LINE 3*

**Cliente: Secretaría de Co-
municaciones y Trans-
portes (SCT) de México**

Fecha inicio:

País: Mexico

**Fecha fin: diciembre del
2020**

At SENER, we have fully developed the project for the **line 3 of the Guadalajara metro**, from the pre-feasibility study to its detailed design and project management throughout the construction phase.

The Line connects the municipalities of Zapopan, Guadalajara and Tlaquepaque. It has 18 stations, 5 of which are underground and 13 elevated, with a total route length of 22 km, of which 15 km is above ground, 2 km on the surface and 5 km underground.

SENER contributed significantly to every phase of this project, with nearly 650,000 engineering hours:

- **Pre-investment studies**, related to the technical, economic, financial, legal and environmental feasibility analysis, cost-benefit analysis.
- Preliminary design and executive project, in which SENER was responsible for the layout; stations architecture and implementation; stations structure; electromechanical installations in stations; tunnel structural design (TBM project); viaduct structural design; urban integration; track design, signaling systems; communication and control rail systems; rolling stock; rail operational model;

Mobility



financial model; workshops and depots and transport junction design.

- Specialized technical consultancy or **Project Management** for the construction project.
- Certification and **commissioning**.

The design has been integral considering all its components and disciplines. The railway systems, the layout of the workshops and depots, the structural solution for the stations and viaducts and the monitoring of the operation of the tunnel boring machine which, as it passes under buildings of great cultural and historical value such as the cathedral, has required a unique monitoring.

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