



Barcelona – SPAIN

Exemplary environmental management

Contract facts

TRANSIT AUTHORITY:
ATM Transport Authority

OPERATORS:
Trambaix UTE and
Trambesòs UTE

CONTRACT START:
2004

CONTRACT DURATION:
25 years

Key figures

NETWORK:
29.3 km network
2 networks, 6 lines

PASSENGERS:
23.2 million/year

VEHICLE FLEET:
56 stations
37 carriages

STAFF:
164 operations employees

Challenge

- Apply the highest standards of environmental management.
- Accompany the City of Barcelona in the achievement of Agenda 21, a sustainable development roadmap designed to engage citizens and adopt new behaviors.

Objectives

- Quantify the operational, energy consumption and environmental benefits of the tramway.
- Help the City of Barcelona achieve its objective of **reducing greenhouse gas emissions by 1% a year** by delivering a clean and efficient transportation system.

Veolia Transport's solution

- **Achievement of ISO 14001**
Veolia Transport worked with maintenance teams and subcontractors to ensure all elements of the operation achieved the highest standards of environmental management.
- **Triple certification: Quality, Security, Environment (QSE)**
The operation exceeds ISO 14001 with the achievement of triple certification: daily and monthly management reports incorporate the highest managerial standards and environmental procedures.
Result: excellence in service delivery to passengers and a reduced environmental footprint.

- **Water recycling**
Our tram vehicle fleet is maintained using recycled water - representing a saving of 70% in water consumption per vehicle wash.
- **Eco-Efficient Travel™**
Veolia Transport conducted an Eco-Efficient Travel™ indicator assessment and in-house environmental audit.

Result: recommendations for further integration of the transportation network and future infrastructure developments to connect the two tram lines were made.



With the development of the tramway, 162,500 m² of road space has been converted into pedestrian spaces and new cycle routes, and 135,000 m² of roads into green planted areas.

