



Infrastructure and construction

Exemplary architecture and public engineering
at the service of the environment

CIUDAD DE NÁJERA
PABELLÓN MULTIUSOS





Tragsatec develops infrastructure, architecture and building site management projects and activities under strict parameters of quality, cost, sustainability and respect for the environment.

development
INFRASTRUCTURE ARCHITECTURE
projects
site management
QUALITY
COST sustainability
respect FOR THE environment

Our values

- | We offer appropriate professional response and flexibility to Public Service needs via specific projects that are technically and economically viable and incorporate the added values of efficiency and sustainability in all activities.
- | We develop R&D&I projects that enable us to give up-to-date responses in accordance with the latest technology.
- | We have a technical team with extensive experience always able to meet the highest standards of technical quality.





Products and services

Telemetry and control networks

1. Weather station networks.
2. Air quality measurement stations.
3. Stations measuring the physical-chemical parameters of water.
4. Oceanographic buoys.
5. Sensor calibration laboratory.
6. Computer-assisted information management and control.

Key projects

| **SiAR Network** (Agro-Climatic Information System for Irrigation).

| **SICA**, Integrated Project Control System in Murcia.

| Extraction measurement and control in **aquifer 23**.

| Automation of levels in the **Cantabrian Hydrographic Confederation**.

| Measurement of nitrate levels in the **Community of Madrid**.

| Network for the study of global change in **National Parks**.

| **Navarra and Murcia** air quality network.

| Installation of agrometeorological stations for the '**Water Bureau of Beijing**' (China).

Installation engineering

1. Industrial installation engineering.
2. Efficiency and energy assessments.
3. Auxiliary installations.
4. Inspection of electric energy production facilities using solar photovoltaic, thermosolar, wind and cogeneration technology.
5. Energy management of buildings.

Key projects

- | **Production of medium and high voltage supply lines**, 132 and 45 kV substations, transformer stations, industrial installations...
- | **Energy assessments** to quantify the potential for energy savings (Cine Doré and Adif facilities in Ciudad Real).
- | **Energy management** for the buildings of the Filmotheca Española (Spanish Cinemathèque) with a

view to reducing their energy consumption.

- | **Support for Spain's National Markets and Competition Commission, CNMC**, in its task of **inspecting electric energy production** facilities using solar photovoltaic, thermosolar, wind and cogeneration technology.
- | **Design and dimensioning** of all necessary installations to service the headquarters of the **Ministry of Foreign Affairs and Cooperation**, achieving energy efficiency label B and BREAM certification.
- | **Solar photovoltaic installation project** to supply electric energy to Cabrera National Park.
- | **Animal By-Products Treatment Plant project** with maximum processing capacity of 200 tons / day of Category 1 by-product.





Architecture, construction and urban planning

1. Construction projects for new buildings and buildings requiring restoration.
2. Site management and health and safety coordination in all types of construction work.
3. Urban planning and adaptation of spaces.
4. One-off works; markets, equestrian centres, logistical bases, recycling points, observatories, and so on.
5. R&D&I; GIAE and EDISOS.
6. Sustainability assessment.

Key projects

- | Design and site management of project to restore blocks and offices at the **Zarzuela racecourse in Madrid**.
- | Design of interpretation centres in different **National and Natural Parks (Teide, Rio Mundo, Alto Tajo)**.
- | Design and site management of the **Parcbit Balearic Research Complex in Palma de Mallorca** with a surface area of over 10,000 square meters.
- | Multipurpose sports complex and pavilion in **Nájera**.
- | Restoration and landscaping in **Azuda de la Montaña, Aranjuez**, with a landscaping area of 207 Ha.
- | Implementation plan for the partial restoration of the offices of the **Ministry of Economy, in the Cuzco complex**.
- | Planning and management of works at the **SEPI Foundation Residence Hall** in Madrid.

Civil engineering

1. Design of unique civil engineering elements. Bridges, walkways, towers, lookouts.
2. Design of structural engineering projects in wood.
3. Technical assistance in construction works.
4. Pathology and building restoration studies.

Key projects

| **Adaptation of the structure of the Ministry of Foreign Affairs and Cooperation** building at number 4, Plaza del Marqués de Salamanca in Madrid, as part of a comprehensive restoration project.

| **Restoration of the Plazaola railroad bridge in Latasa (Navarra)**, over a height of 43m with double bow wooden beams.

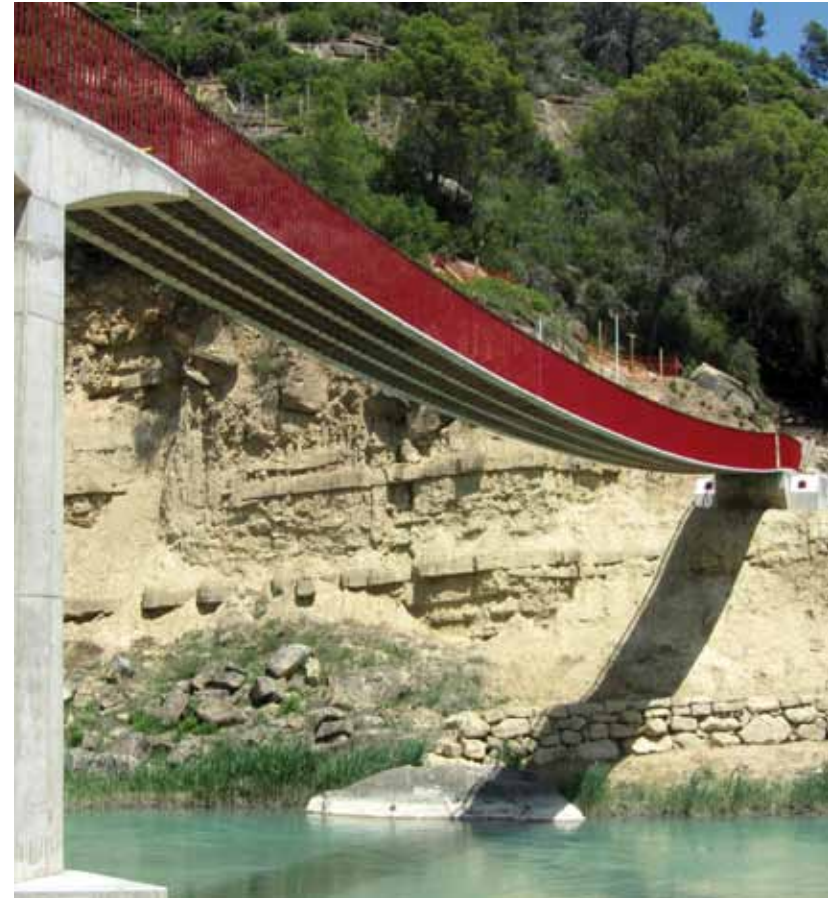
| **Two 25m wooden walkways** on a pedestrian path in **Cazorla Natural Park** built parallel to separate bridges on the A-319 motorway over the river Guadalquivir.

| **Cable-stayed footbridge in Mina Concepción (Huelva)**, spanning 28m over the river Tinto.

| **Footbridge over the river Gállego in Murillo de Gállego (Zaragoza)**, with two 49m spans, composed of a stressed ribbon structure of corten steel.

| **Arched footbridge over the river Cidacos in Arnedo (La Rioja)**, spanning 36m and made from Swedish fir laminated wood.

| **Hanging metal bridge over the river Narcea (Asturias)** spanning 82m.



We are experts

- | Project development and construction of commercial buildings, both new constructions and renovations.
- | Landscape interventions.
- | Management and improvement of the energy efficiency and sustainability of buildings.
- | Heritage renovation.
- | Integration and urban improvement of degraded spaces.
- | Auxiliary installations and engineering of industrial facilities.
- | Full-service building maintenance.
- | Design of all types of structures, adapting our work to the needs of the Public Service.
- | Design of unique civil engineering elements. Bridges, walkways, towers, lookouts.
- | Structural engineering projects in wood. Pathology and structural restoration studies.
- | Design of telemetry networks, selection of components thereof, system and data management and full network maintenance.
- | Periodical inspections of electric energy production facilities using renewable energy, cogeneration and waste material.





R&D&I

- | Environmental data capture in protected marine areas.
- | Monitoring and management of wildlife in conservation areas.
- | Project on the comprehensive management of rainwater in built environments (GIAE).
- | Project on energy efficiency and sustainability in the renovation of public buildings (EDISOS).

R&D&I
EFFICIENCY
engineering
telemetry
CONSTRUCTION
ONE-OFF works
INSTALLATIONS
urban PLANNING
networks
energy MANAGEMENT
INSPECTIONS



Grupo Tragsa

Head office
C/ Maldonado, 58
28006 Madrid

www.tragsa.es

