

FCC INDUSTRIAL

FCC Industrial Headquarters
Calle de Federico Salmón, 13
28016 Madrid, España
Tel: +34 91 757 28 00
www.fccindustrial.com

FCC INDUSTRIAL WORLDWIDE

EUROPE

FCC Industrial UK
62-64 Cannon Street, EC4N 6AE London, England

FCC Industrial Italy
Corso Duca Degli Abruzzi, 14
10128 Torino To, Italia

AMERICA

FCC Industrial Columbia
Carrera 13 N° 98-70 Of. 205
Bogotá D.C. Colombia
Tel: +57 1 744 1527

FCC Industrial Mexico
Presidente Masaryk, n°29-6°
Col. Chapultepec Morales.
Del. Miguel Hidalgo, C.P. 11570 Mexico DF
Tel: (+52) 55 5203 3929/ 79/ 05

FCC Industrial Panama
Higinio Araúz,
entre calle 2ª Pueblo Nuevo y 12 de Octubre
Panama City. Rep. de Panama
Tel: +507 203 2488

FCC Industrial Chile
Vitacura 2771, Of. 403
Las Condes, Santiago, Chile
Tel +56 2 25772700

FCC Industrial Peru
Avda. Víctor Andrés Belarude 181. Oficina 501
San Isidro. Lima 27-Perú



HYDROCARBON PIPELINE

Safe clean hydrocarbon transport

- Gas pipelines
- Oil pipelines
- Special crosses and DH&DC

FCC Industrial has become specialised in all types of hydrocarbon pipelines, district cooling and heating and special crosses. Both onshore and offshore projects are included in its works. Its experience in the sector, specialisation, and synergies with other FCC Industrial divisions enable it to provide a comprehensive service to large international companies, such as Repsol, CLH, Enagas and Gas Natural Fenosa.

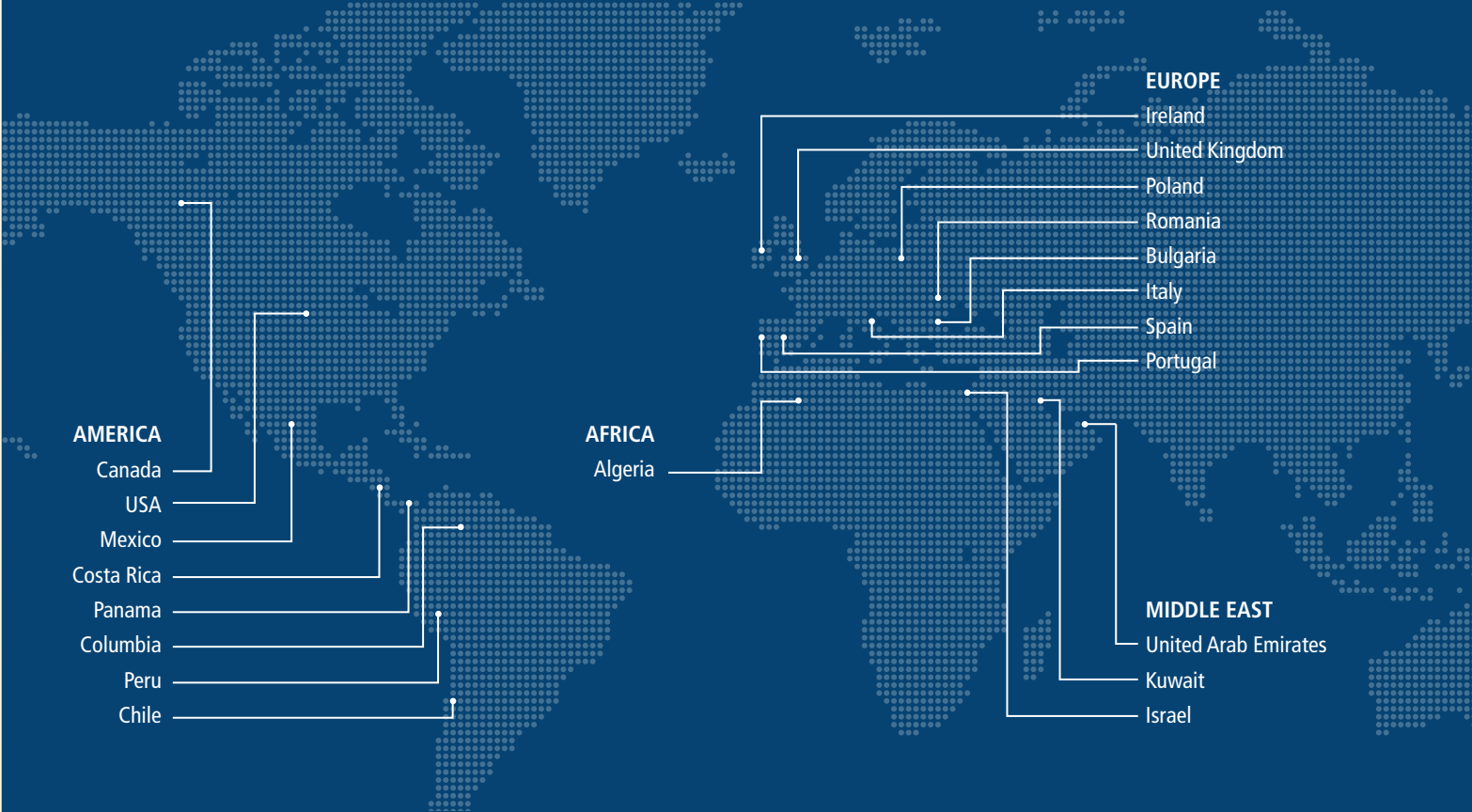
LINE OF ACTIVITY

	INTEGRATED PROJECTS
	HYDROCARBON PIPELINE
	ELECTROMECHANICAL INSTALLATIONS
	MAINTENANCE AND ENERGY EFFICIENCY
	DISTRIBUTION NETWORKS
	IT SYSTEMS

FCC Industrial.

Towards integrated projects

FCC Industrial is the FCC company that is specialised in the design, construction and maintenance of industrial projects and works. FCC Industrial has become specialised in comprehensive projects that require the participation of all engineering branches. Today, FCC Industrial is a young company that has the experience of several veteran companies within the industrial sector that operates in twenty-one countries through its various divisions.



Gas and oil pipelines



Denia-Ibiza- San Juan de Dios (Mallorca) submarine gas pipeline

- **Client:** Enagas
- **Location:** Alicante-Ibiza-Mallorca (Spain)
- **Execution period:** 22 months
- **Completion date:** July 2010

Description: The project consists of the construction of a submarine gas pipeline between Denia (Alicante) to Ibiza and Mallorca, with a total length of 269 kilometres and 20-inch diameter. The works include the execution of micro-tunnels, the joining of section over water, cofferdam execution and the laying of piping at sea.



Yela-Villar de Arnedo gas pipeline, southern section

- **Client:** Enagas
- **Location:** Soria and Guadalajara (Spain)
- **Execution period:** 11 months
- **Completion date:** August 2012

Description: The project consists of the execution of the pipeline between the provinces of Soria and Guadalajara, with a total length of 110 kilometres over steep hilly terrain and rocky ground. The piping has a 30-inch diameter and thicknesses between 9.5 and 14 mm, with five valve positions.



Tivissa-Paterna gas pipeline, central section

- **Client:** Enagas
- **Location:** Catsellón (Spain)
- **Execution period:** 10 months
- **Completion date:** April 2012

Description: The works consist of doubling the central section of the Tivissa-Paterna gas pipeline. Located in steep hilly terrain, this section is 53.4 kilometres long; the piping has a 40-inch diameter and a 22.2-mm maximum thickness.



Mariña-Lucense gas pipeline

- **Client:** Gas Natural Fenosa
- **Location:** Lugo (Spain)
- **Execution period:** 9 months
- **Completion date:** under construction

Description: The works consist of the construction of a pipeline and auxiliary installations in the Province of Lugo. The gas pipeline is 65 kilometres long, with a 16-inch piping diameter. The elevated environmental and cultural commitments of these works, because of the areas it passes through, must be emphasised.



Torrejón-Barajas oil pipeline

- **Client:** CLH
- **Location:** Madrid (Spain)
- **Execution period:** 9 months
- **Completion date:** September 2013

Description: The project consists of the construction of section I of the Torrejón-Barajas oil pipeline. The oil pipeline is made up of two 24-inch diameter, approximately 11.079 m long pipes. Noteworthy in this project is the large number of horizontal drill holes and works along urban sections affecting third parties.



Cartagena-Puertollano oil pipeline

- **Client:** REPSOL
- **Location:** Murcia (Spain)
- **Execution period:** 19 months
- **Completion date:** September 2011

Description: The project consists of the construction of Section I of the oil pipeline between Cartagena and Mula, also in Murcia. It has a 14-inch diameter and a 92-kilometer length. The works are framed within the Repsol Section C10 Project. The works will be executed with steep slopes and under high-risk conditions alongside an existing, in-operation oil pipeline.



LPG Storage Plant Expansion Terminal Callao in the Port of Callao in Perú

- **Client:** VOPAK Peru
- **Location:** Peru
- **Execution period:** 16 months
- **Completion date:** under construction

Description: The project consists of the construction of three spherical LPG (Liquefied Petroleum Gas), with a total capacity of 90,000 barrels. The works include the installation of a new line distributed through the Port of Callao Terminal (Quay 7).

Special Cross and DH&DC



DHP (Drilling Horizontal Perforation) Cross Tajo

- **Client:** Enagas
- **Location:** Estremera (Spain)
- **Execution period:** 4 months
- **Completion date:** November 2013

Description: River Tajo directed horizontal drilling, with 30-inch diameter piping and a 17.5-mm thickness. These are works with high environmental requirements and deep drilling that affects services, such as highways and drove roads, as well as the actual fluvial course.



DH&DC La Vaguada

- **Client:** La Vaguada Shopping Centre
- **Location:** Madrid (Spain)
- **Execution period:** 36 months
- **Completion date:** December 2010

Description: The project consists of the improvement of the air-conditioning system in La Vaguada shopping centre in Madrid. The works for the installation of a District Heating & Cooling system were executed with the shopping centre open.

HYDROCARBON PIPELINE

More than 2,500 kilometres of piping