Sacyr Construcción has 30 years of experience in several construction activities:

- Civil Works and Transport Infrastructure
- Residential and Non-residential Building
- Hydroelectric projects
- Turnkey / EPC
- Design and Construction of singular projects

Sacyr’s principles are based on project deadline compliance, promotion of innovation, construction with high standards of safety, quality and respect for the environment.

EPC - Engineering, Procurement and Construction
Interior of the High Speed Train station in Logroño, La Rioja (Spain)
TRANSPORT INFRASTRUCTURE

Since our first transport works in Spain, 30 years ago, Sacyr Construcción has developed a number of large international projects, which allow the organization to collaborate with public agencies around the world.

Sacyr’s borderless expansion is based on locally sourced construction machinery, in countries of America, Africa, and Europe.

Roads
Railway works
Airport projects
Maritime works
Roads

Experienced in highly complex and large infrastructures, Sacyr has provided constructive solutions for three decades in the development of road infrastructure.

HIGHWAY INFRASTRUCTURE/ PROJECTS COMPLETED

- Highway A17 between Marinha Grande and Mira (PORTUGAL) 2006/2007 – 10.7 km of highway expansion (2x3 lanes), including nine structures and two viaducts of 650 and 450 m of length respectively
- Salerno Reggio Calabria Highway (ITALY) 2006/2016 – 31 km of highway
- International Concession Contract for America Vespucio South Highway, Road 7-AV Grecia (CHILE) 2003/2005 – 24.1 km of InterCity highway
- Highway N6 from Galway to Ballinasloe, Dublin (IRELAND) 2007/2009 – 57.6 km of highway
- Santiago de Compostela-Grenoble Tollway Santiago-Alto de Santo Domingo section, A Coruña (SPAIN) 2000/2004 – 56.6 km of highway
- International Concession Contract for Ruta 5. Río Bueno-Puerto Montt section (CHILE) 1998/2001 – 35.8 km of highway
- International Concession Contract for Ruta 5. Los Vilos-La Serena section (CHILE) 1997/2000 – 228.6 km of highway
- Construction and Operation of Serena Vallenar Highway (CHILE) 2012/2015 – 186 km of highway
- Improvements to the M-30 link road with the A-3, Madrid (SPAIN) 2005/2007 – 2 km of highway
- Highway A-1 from P.K. 101 to 247. Puerto Burgos section, Burgos (SPAIN) 2008/2012 – 146 km of highway
- Engineering and Construction of the Concession Contract for Public Works North-East Access Road (CHILE) 2006/2009 – 21.5 km of InterCity highway
- Construction and Operation of Highway Ruta 43 in the region of Coquimbo (CHILE) 2014/2017 – 86 km of highway
- Vallenar-Caldera Concession Project Development (CHILE) 2009/2011 – 186 km of highway
- Rehabilitation and Improvement of Turia Highway (CV-35), Valencia-Losa del Obispo Section and North Banaguasi Relief Road. CV-50 Section, Valencia (SPAIN) 2006/2009 – 56.6 km of highway
- M50 Highway Third Lane Ring Road expansion, Dublin (IRELAND) 2007/2010 – 24 km of highway
- San José de Caldera Road (COSTA RICA) 2008/2009 – 76.8 km of highway
- Highway N7. Section: Castletown (IRELAND) 2008/2010 – 36.15 km of highway
- Concession Contract for West Coast Road (PORTUGAL) 2009/2012 – 6.5 km of Highway A8 and 11 Km of IC9 main road
- Málaga Road – Los Curos (COLOMBIA) 2016/2018 – 153 km of road

Photographs: 1. Rutas del Algarrobo Motorway, Chile 2. Las Pedrizas Motorway, Málaga (Spain) 3. Vilademuls JV, N II connection, Barcelona (Spain) 4. N6 Motorway, Dublin (Ireland)
Railways

Sacyr Construcciones has been involved, since its inception, in the creation of new public transport corridors, expanding connectivity between urban centers and improving commuting systems within large scale capitals. Sacyr currently develops high-speed, urban, heavy and light rail projects in Europe and America.

RAILWAY INFRASTRUCTURE/ PROJECTS COMPLETED

- Moncloa Transport Interchange of Madrid Construction Project (SPAIN)
  2006/2008 New Interchange development, including metro-bus connection

- Barcelona Metro Line 9 Construction Project.
  Section 2 – Parque Logístico-Zona Universitaria (SPAIN)
  2005/2010 – New line development, including four (4) new stations

- Madrid Metro Line 9 Expansion Construction Project from Madrid to Mirasierra (SPAIN)
  2009/in progress – New line development of 2.5 km, including two (2) new stations

- Basque Country Railway Network. Section: Bergara (SPAIN)
  2011/2015 – Railway section of 3.1 km, including large viaducts

- New Railway Line in Torrejón de Ardoz (SPAIN)
  2011/in progress – New underground line development, including station rehabilitation

- Nacala Railway Project – Sections 6 and 7 (phase 1) and Section 7 (phase 2) (MOZAMBIQUE)
  2013/2013 – 587 km of railway development

- Lisbon Metro System (PORTUGAL)
  1992/2000 – Restauradores, Rossio, Baixa-Chiado and Cais do Sodré Stations of 3.5 km of tunnel

- Rio Line 9 Metro station in Madrid (Spain)
  2003/2009 – Red Line Extension – Alameda/S. Sebastiao-Lisbon 2.1 km of tunnel with two tracks

- Oriente Station, Lisbon (PORTUGAL)
  1995/1998 – Overall length of 620 m. Railway terminal gross area: 59,600 sqm
  Omnibus Terminal gross area: 71,000 sqm

- Sao Paulo Metro System (BRAZIL)
  2012/2014 – Vila Prudente Station
  2013/2015 – Four stations on Sao Paulo’s Monorail System Green Line: Sao Lucas, Camilo Haddad, Vila Tolstoi and Vila Uniao

- Railway Infrastructure LRT Green Line of Dublin (IRELAND)
  2007/2010 – Green Line extension of 7.5 km, including construction of twelve new stations

- Madrid-Barcelona-Zaragoza-Frontera Francesa HST System (SPAIN)
  2006/2008 – Section: Barcelona La Torrassa-Sants
  HSR Platform Development, including SEM tunnel of 1.4 km of length (by Austrian and Belgium method)

- Cordoba-Malaga HST System. Malaga Rail Line Integration (SPAIN)
  2006/2010 – 3 km of railway section. The project includes two underground tracks with International width and two other Iberian tracks

- Madrid-Castilla La Mancha-Comunidad Valenciana-Region of Murcia HST System (SPAIN)
  2006/2009 – Alzira-Algeciras section, 8 km of section length

- Madrid-Castilla La Mancha-Comunidad Valenciana-Orihuela-Colada de la Buena Vida HST System (SPAIN)
  2009/2016 – 6.7 km of new high-speed platform

- Oporto Metro (PORTUGAL)
  2001/2006 – LRT with double track system of 72 km of length; 7 km of which are underground, built by TBM method

- Palermo-Orleans Rail Line (ITALY)
  2005/2018 – 30 km of length, including seventeen stations

LRT – Light Rail Transit
HST – High-speed Transit
SEM – Sequential Excavation Method
TBM – Tunnel Boring Machine

Photographs: 1. Galicia High Speed Rail Section: Pontevedra-Copo
dez (Spain) 2. Galicia High Speed Rail Section: Malgrana-Bregoa, A Coruña (Spain) 3. Sao Paulo Metro System, Brazil. Vila Prudente Station 4. Interior of the Line 9 Metro station in Madrid (Spain)
Railway Projects Superstructures and Maintenance

PROJECTS COMPLETED

- Railway Integration Construction Project in Logroño. Phase 1 (SPAIN)
  2009/2015 – Underground rail line under the city center, including construction of a new station

- Northern Line Rehabilitation. Sub-section 1.2. Alhambra – Setil
  Vilafranca de Xira Norte-Azambuja Section (PORTUGAL)
  2005/2006 – 32 km of line rehabilitation/renovation

- Improvement Works on Terrasa-Manresa Line Electrification (SPAIN)
  2008/2009 – 32 km of line electrification

- LUAS LRT Line-B1 in Dublin City. Section: Sandyford – Cherrywood (IRELAND)
  2007/2010

- Madrid-Alcázar de San Juan-Jaén. Adaptación HST to 220km/h.
  Section: Alcázar de San Juan-Manzanares (SPAIN)
  2007/2011

- Bombel and Vidigal-Evora Section Rehabilitation (PORTUGAL)
  2009/2012 – 54 km of railway improvement

- OCS Implementation, including related HST systems for
  Madrid-Zaragoza-Barcelona-Frontera Francesa HST. Section: Barcelona – Figueras (SPAIN)
  2007/2012 – 132 km of OCS works

- HST Atlantic Corridor. Section: Cerpozons-Portela in Pontevedra. Trackbed works (SPAIN)
  2008/2013

- HST Atlantic Corridor. Section: Ponentevedra-Cerpozons in Pontevedra. Trackbed works (SPAIN)
  2008/2014

- Infrastructure Maintenance, HST trackwork and new access detours to
  Levante (East coast of Spain). Madrid-Castilla la Mancha-Comunidad Valenciana, Region of Murcia
  Section: Gabaldón-Valencia-Albacete, Gabaldón JV (SPAIN)
  2010/2013

- HST Atlantic Corridor Project. Section: Vilagarcía de Arousa-Padrón. Trackwork (SPAIN)
  2013/2015 – 26 km of corridor

- OCS Implementation, including related HST systems for
  Madrid-Zaragoza-Barcelona-Frontera Francesa. Section: Barcelona-Figueras (SPAIN)
  2012/2015

- HST Infrastructure Maintenance Services, trackwork and new access detours.
  Section: Gabaldón-Alicante. HST Madrid-Castilla la Mancha-Comunidad Valenciana-
  Region of Murcia (SPAIN)
  2015/2016

- Comprehensive Refurbishment and Rehabilitation of Nacala Corridor.
  Section 6E-Phase 1 and 2 (MOZAMBIQUE)
  2013/2016 – 580 km of corridor

- Railway Infrastructure Maintenance Services in southern area (PORTUGAL)
  2005/2017 – 600 km of railway

- DART Line Maintenance 1500V DC (IRELAND)
  2008/2019

- Third cable and electrification of goods branch at Port of Barcelona, including
  access implementation of 1435mm of width in the Terminal de Can Tunis (SPAIN)
  2009/2010

LRT – Light Rail Transit
HST – High-speed Transit
OCS – Overhead Contact System
JV – Joint Venture

Photographs: 1. High Speed Rail: Alcázar de San Juan - Manzanares section (Spain)
2. Luas – Light Rail Maintenance (Ireland)
3. Modernization of the Bombel and Vidigal – Evora section (Portugal)
4. High Speed Train Atlantic Corridor. Pontevedra - Cerpozons Section (Spain).
Viaducts

Sacyr Construcciones develops major road infrastructure projects with emblematic viaducts of a high degree of complexity.

PROJECTS COMPLETED OR IN PROGRESS

· Talavera de la Reina Suspension Viaduct in Toledo (SPAIN)
  2007/2011 – 726 m of length
· Hisgaura-Santander Suspension Viaduct (COLOMBIA)
  2015/2016 – 688.20 m of length
· Viaduct over Tajo Segura-Alicante Water Transfer (SPAIN)
  2011/2013 – 1,008 m of length
· Vilafo – Orense Viaduct (SPAIN)
  2007/2009 – 1,031 m of length
· Viaduct over Valilfas-Pontevedra River (SPAIN)
  2007/2009 – 744 m of length
· Terri-Gerona Viaduct (SPAIN)
  2008/2010 – 680 m of length
· Riera de Santa Coloma – Gerona Viaduct (SPAIN)
  2006/2008 – 727 m of length
· Viaduct over Deba-Guipúzcoa River (SPAIN)
  2013/2016 – 900 m of length
· Etxevarri Viaduct and Viaduct over A-2620 – Guipúzcoa (SPAIN)
  2009/2010 – 1,412 m of length (over A-2620) + 360 m (Etxevarri)
· Cadagua-Guipúzcoa Link Viaduct (SPAIN)
  2008/2010 – Viaduct 1: 370 m; Viaduct 2: 370 m; Viaduct 3: 303 m; Viaduct 4: 470 m and Raised Roundabout: 272 m.
· Viaduct over Arousa – Pontevedra River (SPAIN)
  2007/2009 – 700 m of length
· San Lázaro-Lugo Hanging Walkway (SPAIN)
  2010/2011 – 135 m of length
· Ladrada River Viaduct in Lugo (SPAIN)
  2006/2008 – 315 m of length
· Ferreira River Viaduct in Lugo (SPAIN)
  2013/2014 – 270 m of length
· García Sola Viaduct in Badajoz (SPAIN)
  2002/2005 – 561 m of length
· Arco de Cieza Viaduct in Cantabria (SPAIN)
  2002/2004 – 130 m of length
· Amolanas Viaduct – Region III (CHILE)
  1989/2000 – 268 m of length
· Steel Viaduct over Guadalquivir River in Jaén (SPAIN)
  1994/1995 – 220 m of length
· Buendía - Guadalajara and Cuenca Viaduct (SPAIN)
  2004/2007 – 319.90 m of length
· Viaduct over Guadalquivir-Córdoba River (SPAIN)
  2001/2003 – 860 m of length
· Málaga Las Pedrizas-Málaga Highway (SPAIN)
  2009/2011 – Viaducts lengths between 553 and 733 m
· Pedrero-Cantabria Viaduct (SPAIN)
  2001/2003 – 932 m of length
· Guadaira-Sevilla Viaduct (SPAIN)
  2006/2008 – 766 m of length
· Vasco da Gama – Sacavém/Montijo Bridge (PORTUGAL)
  1995/1998 – 107 m of length
· Rainha Santa Isabel-Coimbra Bridge (PORTUGAL)
  2001/2004 – 330 m of length in four spans; main span 180 m
· Pumarejo-Baranquilla Suspension Viaduct (COLOMBIA)
  2015/2018 – 2,173 m of length

Aviation Projects

Sacyr Construcción aviation projects are an example of its commitment to the technological vanguard and to improve the quality of the service to society. Sacyr Construcción collaborates on major projects, creating a portfolio of diversified and prestigious projects.

PROJECTS COMPLETED

- Central/Ciudad Real International Airport Construction Project (SPAIN) 2004/2008 – New Airport Development, including Terminal building, ATCT and runways
- Region of Murcia International Airport Construction Project (SPAIN) 2008/2012 – New Airport Development, including Terminal building, Air Traffic Control Tower (ATCT) and runways
- Runway 15L-33R, including associated taxiways at Madrid/Barajas International Airport in Madrid (SPAIN) 2002/2004 – New runway of 3,500 m and taxiways of 1,500 m, 1,800 m and 2,400 m
- New Airside Facilities at Burgos Airport (SPAIN) 2006/2009 – New runway of 2,100 m of length
- Airport Underpass Extension (service tunnel), Phase 2 in Madrid (SPAIN) 2001/2003 – Service tunnel construction. 3,000 m of tunnel between terminals for connecting flights (passengers and baggage)
- Terminal Apron Construction – Santiago Airport South Zone in A Coruña (SPAIN) 2009/2011 – New terminal apron of 180,000 sqm
- North Terminal Apron Upgrade, Gran Canaria Airport (SPAIN) 1998/1999 – Construction of a new terminal apron of 250,000 sqm
- New Terminal Apron 7 and Ramp 6 Construction at Madrid/Barajas International Airport (SPAIN) 2009/2010 – New terminal apron construction
- 4 de Fevereiro – Luanda International Airport (ANGOLA) 2008/2010 – Rehabilitation and extension
- Catumbela International Airport, Phase 1 and 2 (ANGOLA) 2011/2012 Phase 1: General finishes, including specialized systems implementation Phase 2: ATCT, Power Substation, Service Centre, Fire Fighter Station

ATCT – Air Traffic Control Tower

Photographs: 1. Interior of Terminal T4, Adolfo Suarez-Barajas Airport. Madrid (Spain) 2. New airfield, Burgos Airport (Spain) 3. Quatro de Fevereiro International Airport. Luanda (Angola) 4. Menorca Airport, Balearic Islands (Spain).
Maritime Projects

Our accumulated experience, great technical capacity, and specialized team are some of the key elements that enable Sacyr Construcción to successfully undertake the challenges of international maritime projects; which encompasses activities in the most diverse underwater locations, including seawalls, quays, docks, discharge outlets, naval shipyards and landside infrastructure.

PROJECTS COMPLETED OR IN PROGRESS

- Panama Canal Expansion. Third set of sluice gates (PANAMA) 2009/2016 – New maritime way construction
- Port of Valencia Breakwater Works Expansion, Valencia (SPAIN) 2008/2012 – 3,306 m of seawall construction
- Punta Sollana Breakwater Quay Extension in Bilbao (SPAIN) 2012/ in progress – 355 m of caisson quay extension
- Port Causeway Commodity Berth (PANAMA) 2015/2015
- Blanes Fishing Port Expansion in Gerona (SPAIN) 2010/2011 – 595 m of new breakwater construction
- West Commercial Quay in Pontevedra (SPAIN) 2010/2013 – 240 m of caisson quay wall construction
- Barra do Douro Breakwaters (PORTUGAL) 2005/2009
  North Pier including concrete walls, caissons, and segments (450 m); South Pier including screw fittings and Antifer blocks, with high-density concrete
- Jardim do Tabaco Quay (PORTUGAL)
  Quay including a reinforced concrete retaining wall system
  2007/2009 – Phase 1
  2008/2011 – Phase 2
- Port of Praia Expansion and Rehabilitation (CABO VERDE) 2008/2010 – Phase 1: Quay 2 Complex Rehabilitation (218 m)
  2010/2013 – Phase 2: Quay 1 Rehabilitation and Expansion (217 m)
- Port of San Miguel - Ponta Delgada Cruise Terminal (PORTUGAL) 2006/2008 – New recreational marina, with 480 moorings, a dock for ferries and another for docking large cruises.
- Port of Sines – PSA Container Terminal in Port of Sines (PORTUGAL) 2001/2003 – 325 m frontage of deep-water mooring
- Sines Marine Terminal – Multi-use Terminal in Port of Sines (PORTUGAL) 1996/1999 – Terminal extension. 305 m of quay mooring
- Port of Jorf-Lasfar Main Pier (MOROCCO) 2000/2002 – 920 m of breakwater pier reinforcement
- Casablanca’s New Cruise Terminal (MOROCCO) 2015 / in progress – Quay with 24 caissons of 27.7 m of depth

Photographs: 1. Third set of sluice gates in the Panama Canal 2. East berth and harbour, Port of Valencia (Spain) 3. Extension of the Punta Sollana seawall and quay, Bilbao (Spain) 4. Ponta Delgada Cruise Liner Terminal, Azores (Portugal).
Sacyr Construcción recognized within the tunneling industry for its contributions and achievements with innovative tunneling techniques and engineering for Transportation Infrastructures, Rail, utilities and mining.

Regardless of diverse environments, ground conditions or possess. Sacyr unique design and application of innovative methods and use of the most advanced machinery, is the key for success to your project.
Underground Projects

Sacyr Construcción expertise in the construction of underground infrastructures is notable, including other hydraulic, industrial and environmental contributions.

The application of new methods and construction processes, along with the most advanced machinery, is essential to achieving progress quality, schedule and optimization of materials in underground construction.

UNDERGROUND PROJECTS - PROJECTS COMPLETED

- **HST Madrid-Zaragoza-Frontera Francesa. Lleida- Barcelona Section (Martorell).**
  - Subsection VIII-A (SPAIN)
  - Three Viaducts and three Tunnels of 3.5 km

- **Cantabria-Meseta Highway. Section: Los Corrales de Buelna (Sur) – Molledo (SPAIN)**
  - Two Tunnels of 3.6 km

- **HST Atlantic Corridor. Bregua Relief Road (SPAIN)**
  - Double trackway tunnel of 2.8 km

- **Mediterranean Highway. CN-340 Cádiz to Barcelona via Málaga. Section: Castell de Ferro (Ganchos link) - Polopos Link, Granada Province (SPAIN)**
  - Tunnels of 525 and 450 m

  - Two Viaducts and a Tunnel of 2.6 km

- **Barracuda, Can Pineda, Can Pega and de Sant Celoni Tunnels, Madrid-Barcelona-Frontera Francesa HST Platform. Section: Llinars-Sant Celoni (SPAIN)**
  - Three Tunnels of 150 m, 240 m and 810 m respectively

- **Sants-Sagrera HST Tunnel Connection (SPAIN)**
  - 2008/2015 – 5 km of railway tunnel

- **Priego Tunnel, Óviedo-Salas Highway. CN-634 from San Sebastián to Santiago de Compostela (SPAIN)**
  - Two Tunnels of 1.2 km of length

  - Railway tunnel of 1.4 km of length

- **HST Atlantic Corridor. Section: Meirama-Bregua in A Coruña. Platform and trackway (SPAIN)**
  - Viaduct and tunnel of 12 and 3.5 km respectively

  - Tunnel of 508 m of length

- **Ronda de La Bahía de Santander Highway. Section: Parbayón-Cacicedo in Santander (SPAIN)**
  - 8 sections of underground highway

- **New Penstock Construction, Supply and Assembly of La Muela II Hydroelectric Power Station (SPAIN)**

- **Trackbed Construction for the HST Madrid-Zaragoza-Barcelona-Frontera Francesa.**
  - Section: Borrassà-Figueres (SPAIN)
  - Tunnel of 1.7 km of length

- **HST Atlantic Corridor. Section: Carpenzons-Portela. Platform and trackway in Pontevedra (SPAIN)**
  - Double trackway tunnel of 1.000 m of length

- **Trackbed Construction for the HST Vitoria-Bilbao-San Sebastián.**
  - Section: Arajona-Mondragón, Álava and Guipúzcoa (SPAIN)
  - Double trackway tunnel of 500 m

- **Navarre Canal. Sections: 7B, 8, 9 y 10 (SPAIN)**
  - Over 20km of length

- **Metropolitano de Bilbao Line 3 Rail Network. Section: Txurdinaga-Casco Viejo (SPAIN)**
  - Main Tunnel of 750 m

- **Trackbed Construction for the HST Madrid-Extremadura.**
  - Section: Cáceres-Mérida. Sub-section: Aída del Cano-Mérida (SPAIN)
  - Puerto Viejo Tunnel of 1000 m of length

- **Da Costa Tunnel Construction. Exterior Port Access of A Coruña (SPAIN)**
  - twin Tunnel with one-way traffic of 490 and 485 m

- **HST Córdoba-Málaga (SPAIN).**
  - Section: Gójar- Abdalajís West Tunnel
  - 2004/2008 - 2 tunnels, Length of section 10.400 m
  - TBM tunnel using single shield with conventional tunnel opening

- **HST León-Asturias (SPAIN)**
  - 2004/2007 - 2 tunnels, Length of section 10.400 m
  - TBM tunnel using single shield with conventional tunnel opening

- **HST North-Northeast (SPAIN)**
  - 2002/2008 - Guadalajara Tunnel: A Twin tunnel with 30m of cantarline separation and 28.4 km of length. The excavation and lining was achieved using double shield TBM's

- **Guadalajara Metro Network (MEXICO)**
  - 2015/5 in progress - 1 section bored entirely underground, length 3.492 m
  - Tunnel constructed using EPB TB

Photographs:
1. Barcelona High Speed Rail Sants-La Sagrera Section (Spain)
2. High Speed Train Atlantic Corridor. Bregua Bypass. A Coruña (Spain)
3. Venda Nova III Dam, increase in power output. Vila de Minho (Portugal)
4. Line 3: Bilbao Metropolitan Rail Network (Spain)
Sacyr construction develops infrastructure projects of significant social and environmental interest, promoting a better use of water resources and water cycle optimization.

Sacyr has proven expertise in dam construction and hydroelectric projects, having developed relevant examples in Europe, Africa, and South America.
Hydroelectric Projects

PROJECTS COMPLETED OR IN PROGRESS

- Júcar-Vinalopo Channeling. Section VII. San Diego Valencia Reservoir (SPAIN)
  2004/2008 – Regulating reservoir built from loose materials of 20.15 Hm3 with a maximum height of 36 m

- Pasco Sewage and Water Supply Facility (PERU)
  2005/in progress – sewage and water supply improvement works with over 83 pipelines

- Overall Water Cycle Improvement and Rehabilitation Works. Water supply to Puertollano in Cúdiz Real (SPAIN)
  2008/2013 – 35 km of pipeline, WTP and WWTP

- Section: Sera-Loteta Water Supply Project for Zaragoza and surroundings. Municipalities of Castejón de Valdejasa, Taute, Pradilla del Ebro, Boquileni and Luceni (SPAIN)
  2005/2007 – 27 km of water supply pipeline

- Drainage for supporting irrigation of Campo de Cartajena in Murcia (SPAIN)
  1995/2001 – 28.9 km of irrigation

- Sewage and Treatment of Arroyo de La Reguera Basin in Madrid (SPAIN)
  2005/2008 – catch basin network installation, including WWTP of 80,000 m3/day of flow

- Itoiz Dam Construction Project and Environmental Impact corrective measures. Lorn-Guido and Aozz Municipalities in Navarra (SPAIN)
  1993/2004 – Concrete dam of 122 m of height (above foundations)

- Mularroya Dam, Diversion Dam and Water Transfer Channel. Almunia de Doña Godina, Chodes and Ricla Municipalities in Zaragoza (SPAIN)
  2008/in progress – Dam constructed from loose materials with 90 m of height over the foundation line

- Navarra Canal Construction Project. Sections 4, 5 and 18 in the municipal areas of Tiesas, Artajona, and others. Navarra (SPAIN)
  2004/2009 – 16.8 km of canal with 45 m3/sec of flow

- Alqueva Dam (PORTUGAL)
  1996/2003 – Concrete dam, double curvature domed; height 96 m; length of crest 458 m, capacity 240 MW

- Foz Tua Dam, Vila Real (PORTUGAL)
  2011/2016 – Concrete dam, double curvature domed; height 108 m; length of crest 275 m, capacity 251 MW

- Bemposta Dam Power Upgrade (PORTUGAL)
  2008/2011 – Hydroelectric Dam Power Upgrade

- Vendanova Power Upgrade, Venda Nova III Hydroelectric Power Station Upgrade (PORTUGAL)
  2010-2015 – Underground works built in several tunnels, shafts, and galleries. Located approx. 400 m of depth with a total capacity of 736 MW

- Luanda Dam. Lúcia Hydroelectric Operation (ANGOLA)
  2014/in progress – Construction of six towers and shafts of 80 m of height and 80 m of depth

- Fortaleza Canal (two contracts). Canal Integration between Castanhão and the Metropolitan Region of la Fortaleza (BRAZIL)
  2001/2008 – A complex ensemble of a pumping station, canals, pipelines and tunnels, referred as:
  - Castanhão Axis - RMF. Allows water transfer from Castanhão dumping site to the Metropolitan Region of Fortaleza.
  - Section 1: between Castanhão dumping site and Curral Velho (55 km built in 2001-2005)
  - Section 2: from Curral Velho dumping site to Sierra Felix (45 km built in 2005-2008)

WTP – Water Treatment Plant
WWTP – Wastewater Treatment Plant

Photographs: 1. Navarra Canal (Spain)  2. Bahía de Alcudia Desalination Plant, Balearic Islands (Spain)  3. Itoiz Dam, Navarra (Spain)  4. Foz-Tua Damm (Portugal)
BUILDINGS

Sacyr Construction undertakes a wide variety of residential and non-residential projects, including financial districts, residences, shopping malls, hospitals, hotels and sports and correctional facilities. Sacyr’s technical capacity enables the organization to execute refurbishment and rehabilitation projects in unique environments.
BUILDING PROJECTS

HOspitals

- Asturias Central Hospital, Asturias (SPAIN) 2005/2013 - 1,039 beds with a surface area of 180,000 sqm
- Antofagasta Hospital (CHILE) 2013/in progress - 671 beds
- Junin Hospital (PERU) 2014/in progress - New construction with a surface area of 19,300 sqm
- Braga Hospital (PORTUGAL) 2015/2017 - built-up area of 15,000 sqm
- Santar Espírito Hospital of Terceira Island, Azores (PORTUGAL) 2009/2011 - built-up area of 47,100 sqm
- Vila Franca de Xira Hospital (PORTUGAL) 2011/2013 - built-up area of 49,450 sqm

UNIVERSITIES AND OTHER EDUCATIONAL INSTITUTIONS

- University of Agostinho Neto Library, Luanda (ANGOLA) 2005/2011 - 4-Story: three of 350 sqm and one of 190 sqm; including an underground of 15,000 sqm
- University of Ulster in Belfast (North Ireland) 2015/in progress
- Faculty of Health Sciences, Grenada (SPAIN) 2010/2014 - built-up area of 16,000 sqm
- Faculty of Education, University of Zaragoza (SPAIN) 2012/2013 - built-up area of 18,000 sqm
- European University of Madrid (Universidad Europea de Madrid), Building B-6 (SPAIN) 2011/2012 - built-up area of 22,000 sqm

SHOPPING MALLS

- Kinaxixi Shopping Mall and Hotel (ANGOLA) 2009/2011
- Dolce Vita Coruña Shopping Mall (SPAIN) 2006/2007 – surface area 195,000 sqm
- Coimbra Forum (PORTUGAL) 2004/2006 - surface area 135,000 sqm
- Dolce Vita Antas Shopping Mall, Oporto (PORTUGAL) 2003/2005 - surface area 39,000 sqm
- Freepost Design Outlets, Alcochete (PORTUGAL) 2003/2004 - surface area 180,000 sqm

STADIUMS

- Dragon Stadium in Oporto (PORTUGAL) 2001/2003
- La Luz Stadium in Lisbon (PORTUGAL) 2001/2003
- Besa Siglo XXII Stadium in Oporto (PORTUGAL) 1998/2003
- Magalhães Pessoa Stadium in Leiria (PORTUGAL) 2002/2004

SINGULAR ARCHITECTURE

- Repsol Campus Social Headquarters, Madrid (SPAIN) 2009/2012 - Financial district of four (4) buildings with a built-up area of 123,400 sqm
- Sacyr Tower, Cuatro Torres Area Complex in Madrid (SPAN) 2001/2008 - building height of 235 m and 58 stories. Offices + Hotel 5*
- Logroño Railway Station, La Rioja (SPAIN) 2009/2015 - Future bus station connection
- IEFMA Pavilions 12 and 14, Madrid (SPAIN) 2005/2008 – Pavilions of 72,000 sqm
- Levante II Prison Facility in Murcia (SPAIN) 2015/in progress - Prison facility with capacity for 1,008 cells
- Barcelona Science Museum, Barcelona (SPAIN) 1998/2004 - 50,000 sqm of exhibition rooms
- Vigo Auditorium, Galicia (SPAIN) 2008/2011 - Conference Centre Auditorium of 46,200 sqm
- Zaragoza Conference Centre (SPAIN) 2006/2008 - built-up area of 32,000 sqm
- Casa da Música, Oporto (PORTUGAL) 2003/2006 - Facade system included white architectural concrete (17,305 m3) and grey concrete (12,695 m3) with an irregular geometry. Architect: Rem Koolhaas.
- Basilica of the Holy Trinity, Fátima (Portugal) 2004/2007 - Covered roof with a capacity for 8,800 people seated; 38,515 m2 of built-up area, grey concrete (31,000 m3) and white concrete (7,000 m3)
- Baía Azul Hotel Rehabilitation, Funchal-Madeira (PORTUGAL) 2015/2016
- Aquapura-Valle do Douro Hotel (current Six Senses Douro Valley), Lamego (PORTUGAL) 2006/2007 - built-up area of 17,500 sqm

Photographs: 1. Casa da Música, Oporto (Portugal) 2. Repsol headquarter. Madrid (Spain) 3. Dragon Stadium, Oporto (Portugal) 4. Vilafranca de Xira Hospital (Portugal)
OTHER ACHIEVEMENTS

Sacry Construcción in collaboration with its specialized division in water engineering Sadyt, has constructed several water purification facilities, desalination plants, and wastewater treatment projects.
Industrial Projects

PROJECTS COMPLETED

- Civil Works Supply and Installation of Penstock - CH La Muela II, Valencia (SPAIN)
  2007/2015 - Underground Civil Works for the Hydroelectric Power Station; 533 m optimization of ground elevation

- Lebrija I Solar Thermal Power Plant, Civil Works, Sevilla (SPAIN)
  Construction of a 50 MW Solar Thermal Power Plant

- 8 de Agosto and San Bartolo Hydroelectric Power Station (PERU)
  2005/in progress - Construction of 2 hydroelectric Power Stations of 19.6 MW and 8.6 MW respectively, including 1.84 km of high voltage connecting cable

- Pacific Rubianes (COLOMBIA)
  2014/2018 - Civil Works

- 3x10 MW Solar Thermal Power Plant, Badajoz (SPAIN)
  2008/2009 - Photovoltaic Solar Thermal Power Plant of 30MW

- San Pedro II Hydroelectric Power Station - Civil Works, Orense (SPAIN)
  2012/2017 - Hydroelectric Power Station of 26 MVA and 16 KV

- Industrial Building for a Production Plant Utility Module - Silicio Solar II, Ciudad Real (SPAIN)
  2008/2009 - Construction of a new solar power plant

- Project C10: Cartagena Refinery Expansion, Murcia (SPAIN)
  Pipeline trays, including tank base and civil works expansion for the refinery

- As Pontes CTCC, VA Coruña (SPAIN)
  2003/2007 - Construction of a Combined Cycle Power Station

- Ribatejo Thermoelectric Power Station, Carregado (PORTUGAL)
  2003/2005 - Truncated Power Station height: 60 m; Annual production capacity: 2,000,000 Wh

- Artplant Mega PTA, Sines (PORTUGAL)
  2008/2012 - New PTA Production Facility

- Liquified Natural Gas Terminal In Sines (PORTUGAL)
  Storage system with a nominal capacity of 150,000 m3

- La Riegua WWTP, Madrid (SPAIN)
  2008 - Flow: 79,929 m3/day

- Torrejón WWTP, Madrid (SPAIN)
  2009 - Flow: 75,000 m3/day

- Abarca WTP, Barcelona (SPAIN)
  2010 - Flow: 200,000 m3/day

- Jaca’s WTP, Huesca (SPAIN)
  2005 - Flow: 26,000 m3/day

- New Aguas/Guiadalentín Desalination Plant Expansion, Murcia (SPAIN)
  2007/2012 - Desalination Plant; production of 210,000 m3/day

- Construction and Operation of Bahía de Alcudia Desalination Plant, Mallorca (SPAIN)
  2006/2009 - Desalination Plant; production of 14,000 m3/day

- Expansion and Improvement Works of Llobregat River Water Treatment Plant, Barcelona (SPAIN)
  2006/2009 - Drinking Water Treatment Plant; production of 4 m3/day

PTA - Purified Terephththalic Acid
WWTP - WasteWater Treatment Plant
WTP - Drinking Water Treatment Plant

Photographs: 1. La Muela Hydro-electric Power Station, Valencia (Spain) 2. Lebrija Solar Thermal Power Station, Sevilla (Spain) 3. Sines Liquid Natural Gas Terminal (Portugal).
Urban Development

PROJECTS COMPLETED OR IN PROGRESS

- Roads and Infrastructure in Bani Hajar (QATAR) 2014/In progress - 60 ha of Urban Development

- Roads and Infrastructure in al Khesar (QATAR) 2014/In progress - 150 ha of Urban Development

- UZP Urban Development, Ensanche de Vallecas, Bridges over the M-45, collector-distributor lane, Service lane of M-45 through the U2013, Madrid (SPAIN) 2001/2014 - 250 ha of Urban Development

- UZP 2.04 Los Berrocales Urban Development - Civil Works including Earthworks (Phase 1) Madrid (SPAIN) 2006/2010 - 860 ha of Urban Development


- West Industrial Sectors 4 and 5 Urban Development, Pinto-Madrid (SPAIN) 2006/2009 - 115 ha of Urban Development


- Buena Vista Sector PP-03 Urban Development (Phases 1 and 2), Madrid (SPAIN) 2007/2009 - 120 ha of Urban Development

- Puerto Venecia Sector 88/3-1 Urban Development, Zaragoza (SPAIN) 2006/2008

- AVE Station Sector 1 Urban Development, Guadalajara (SPAIN) 2004/2008 - 270 ha of Urban Development

- AR-1 Temporales Urban Development, San Sebastián de los Reyes Municipal area, Madrid (SPAIN) 2005/2007 - 115 ha of Urban Development

Photographs: 1. Valdevezas Park, Madrid (Spain) 2. Urban development of the vicinity of the AVE high-speed train station in Logroño, La Rioja (Spain) 3. South Water Purification Plant, Madrid (Spain)
QUALITY, PREVENTION AND ENVIRONMENTAL VALUE

Sacyr Construcción provides integrated quality, environmental and energy management systems adhering to ISO 9001, ISO 14.001, ISO 50.001, UNE 158.301, UNE 158.101, EMAS, and other international references. Sacyr currently offers the following certifications:

Sacyr also provides integrated health and safety programs, through its policy of the prevention of occupational hazards. Together with its subsidiaries, the organization has established an OHSAS 18.001 occupational certificate, a health and safety management system that covers all of the activities developed, being this standard an international referent in health and safety.

Sacyr’s commitment to promoting Health and Safety at every level, employees, subcontractors, and visitors working, living, and health and safety conditions, has led the organization to achieve prestigious national and international awards in the last fifteen years, which has encouraged the group to continue along the policy. Some of these awards are:

- Chile: Four Stars Honors - PRL Excellence Indicators in 2013
- Qatar: 1.7 Million man hours worked without Lost Time Injury (LTI) – Hyder Safety Certificate
- Chile: Excellent result in the competitive company program
- Chile: Best Contractor in Risk control in Metro projects
- Chile: Contribution rate decrease recognition
- Spain: Health and Safety GIF Awards
SACRY

Sacyr Construcción is a multinational organization of infrastructures and construction services. Sacyr’s commitment to innovation and international excellence has developed its brand through several construction industries, and services in 29 countries.

Sacyr is a global reference with three decades of experience. Each project, regardless of its singularity and complexity, seeks to improve the quality of the service to society. Our organization understands that innovation is a key differentiating element of international competition.

In Sacyr we bring together synergies and create global teams.

SACRY CONCESIONES

Throughout its 20 year history, Sacyr Concesiones has demonstrated its experience, technical knowledge and financial capability with an executed global investment of 25,000 million euros. Specializing in greenfield projects, the organization undertakes design, financing, construction and asset management.

This global perception of business along with dynamic project management, allows Sacyr Concesiones to provide added value to their concessions, with outstanding recognition from financial partners.

The brand occupies the 6th place in the ranking of concession managers in transport infrastructure of Public Works Financing (PWF). It has 36 assets in private-public-partnership, of which 24 are in operation and the remaining in development, distributed in nine countries (Spain, Portugal, Chile, Colombia, Italy, Ireland, Peru, Paraguay and Uruguay), including highways (more than 3,800 km), transport interchanges, hospitals (more than 2,200 beds) and a metro line.
OTHER BUSINESS DIVISIONS

SACYR INDUSTRIAL

Sacyr Industrial specializes in EPC projects, delivering projects in power, industrial and waste treatment plants, oil and gas, refineries and electric networks.

Sacyr Industrial ensures comprehensive solutions in the development of projects in all sectors, including: metallurgy, petrochemical, textile, paper, food and water.

Sacyr Industrial develops its activities in five continents in collaboration with multidisciplinary teams, which participates in the development of projects in the international market.

VALORIZA

Valoriza provides comprehensive customer service, and always strives to meet their client’s needs. Valoriza is involved in a wide range of business activities, with a growing return as a result of its careful selection:

. Valoriza Agua: full-cycle management, drinking water treatment, desalination, water purification, and reuse.

. Valoriza Servicios Medioambientales: municipal services, waste management, landscape restoration and environmental work.

. Valoriza Multiservicios: industrial and buildings maintenance, maintenance and conservation of urban development, road infrastructure, maintenance of dams and channels, and facility services.

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