ACCIONA Agua

ACCIONA Agua consolidated its position as a global leader, obtaining contracts in 2009 to build the largest water desalination and treatment plants in the world.

Pipeline:
4.4 billion euros
Revenues:
438 million euros
Workforce:
2,080

ACCIONA Agua designs, builds and operates plants for drinking water and wastewater treatment, desalination and water reuse, and provides end-to-end water management services. It serves over 50 million people in 20 countries. It ended 2009 with a backlog (pipeline, or portfolio) of 4.4 billion euros and revenues of 438 million euros.

A commitment to innovation and cutting-edge technologies are the cornerstones of its business. ACCIONA Agua is a global leader in developing processes and technologies for seawater desalination via reverse osmosis (RO) technology and in optimizing the energy performance of desalination plants.

The Company's research efforts have led to 14 registered patents. Quality projects and a commitment to the environment are the mainstays of its actions, which were recognised for the third consecutive year with an award by Global Water Intelligence, one of the most prestigious publications in the industry.

ACCIONA Agua operates in three business areas: construction and management of desalination plants; construction and management of drinking water, wastewater treatment and water reuse plants; and end-to-end water management.

DESALINATION

ACCIONA Agua has designed and built more than 70 desalination plants worldwide, serving over six million people. It operates in Spain, the US, Australia, the UK, Italy, Peru, Cape Verde, Algeria and Venezuela.

The main projects underway are as follows: At the end of 2008, Petróleos de Venezuela, S.A. (PDVSA) chose ACCIONA Agua to design and build Venezuela's first RO desalination plant. It will be one of the largest desalination plants in Latin America, with a production capacity of 75,000 m^3/day. The project is in the execution phase.

The 120,000 m^3/day Fouka desalination plant in Algeria will be operational in Spring 2010. The desalination plant in Beckton (UK) passed drinking water production tests with flying colours and will be inaugurated in June 2010. This venture was voted 'Most Sustainable Project' by Global Water Intelligence magazine.

The world's largest desalination plant

In 2009, the AdelaideAqua consortium, headed by ACCIONA Agua, was awarded the contract by the South Australian government to double the capacity of the Port Stanvac (Adelaide) desalination plant. Total production will reach 300,000 m^3/day, making it the world's largest desalination plant under construction. It will supply half a million people, i.e. half of Adelaide's population. Investment is expected to total AUD1.8 billion and the plant is scheduled to open in December 2011. The consortium also includes United Utilities, McConnell Dowell and Abigroup.

ACCIONA Agua has almost completed one of the world's largest desalination plants, in Alicante (Spain)

ACCIONA Agua is close to completing a desalination plant in Torrevieja, Alicante (Spain); it will be one of the largest in the world, with a capacity of 240,000 m^3/day. Construction commenced in 2007; seawater and brine mains are currently being installed under the streets of Torrevieja.

Expansion of the Arucas-Moya (Gran Canaria, Spain) desalination plant was completed in June 2009, tripling production capacity. The plant will end supply problems in the area and meet water demand for agriculture. ACCIONA Agua will manage the plant for a period of 15 years. The installation of cutting-edge technology will reduce the plant's energy consumption by 21%.

Together with Aqualia, ACCIONA Agua was awarded a 15-year O&M contract for a desalination plant in Ibiza. In consortium with Degrémont, ACCIONA Agua renewed the contract to operate the San Pedro del Pinatar II desalination plant in Murcia..

DRINKING WATER AND WASTEWATER TREATMENT AND WATER REUSE

ACCIONA Agua has built over 110 drinking water treatment plants (DWTPs) and over 300 wastewater treatment plants (WWTPs) worldwide. Most of these facilities, concentrated in Spain, Portugal, Italy, China and Puerto Rico, are managed and maintained by ACCIONA Agua.

The keys to plant management are efficiency and minimal energy consumption, which lead to longer useful lives with minimal operating costs. ACCIONA Agua also ensures proper environmental management of sludge, waste and by-products generated during water treatment.

In 2009, ACCIONA Agua opened a drinking water treatment plant in Lepe (Huelva), which serves 100,000 people year-round and up to 300,000 during summer; it also opened a WWTP in Cerro de Águila (Málaga), which serves 240,000 people. The company also obtained important contracts to build WWTPs and to operate and maintain a range of facilities, significantly expanding its pipeline. The following is a list of major construction projects:

ACCIONA Agua to build the world's largest wastewater treatment plant

The Mexican government's National Water Commission (Conagua) awarded an ACCIONA Agua-led consortium the contract to build the largest WWTP in the world. The plant will cost almost 500 million euros and will treat the wastewater of 10.5 million people. The plant will be able to handle an average of 35 m^3/second and up to 50 m^3/second, including the final evacuation of solid waste and sludge. It will use a biogas-fuelled cogeneration system, allowing for maximum energy savings.

■ Spain's Cantabrian Hydrographic Confederation (CHC) awarded ACCIONA Agua the contract to design and build the River Gafo WWTP, designed to serve a population equivalent of 56,105. The construction budget is 16 million euros and the work has to be completed within 24 months. The plant will make the middle and upper reaches of the Nalon River navigable for fish swimming upriver, enabling salmon to complete their life cycle and completing the restoration of the river.

■ Also in Spain, Aragon Water Institute awarded ACCIONA Agua and COMSA Medio Ambiente, S.A. (in consortium) the contract to design, build and operate public infrastructure required for wastewater treatment in the Pyrenees (Zone P1), in the environs of the Aragon River. The contract includes building 57 WWTPs grouped into 35 sectors and operating them for 20 years.

■ In the Basque Country, ACCIONA Agua was chosen to build the tertiary treatment facilities at the 100,000m^3/day Crispijana (Vitoria) WTP. Tertiary treatment will serve two purposes: in winter it will handle stormwater, and, in summer, it will provide tertiary processing of the plant's output, part of which will be reused (around 60,000 m^3/day) to water gardens and for cleaning purposes.

■ The Dominican Republic's national water and sewage authority, INAPA, awarded ACCIONA Agua a build-and-operate contract for an 86,400 m^3/day drinking water plant in the province of Peravia. The project includes the construction of a 17.5 km supply main and the water distribution network.

ACCIONA Agua obtained the following O&M contracts:

■ BRAZIL. ACCIONA Agua has been chosen by COPASA (the public-private partnership in charge of managing water supply and sewage networks in Minas Gerais, Brazil's second-largest state) to provide technical assistance and maintenance of the sewage treatment plant in Arrudas (Sabará). The plant's processing capacity is 4.5 m^3 per

second, enough to serve a population of 1.6 million people. ACCIONA Agua will provide technology transfer for four years, during which time O&M of the plant will focus on environmental sustainability.

■ ITALY. Abbanoa SpA, Sardinia's government-owned water management company, awarded ACCIONA the contract to operate 16 drinking water treatment plants in various towns throughout the island, with a total flow rate of 135,829 m^3 per day. ACCIONA Agua will also operate 8 WWTPs and 23 pumping stations, and another batch of 22 WWTPs and 35 pumping stations, serving almost 200,000 people for one year (with the possibility of an extension). ACCIONA Agua, in consortium with Italian company Abulia, obtained a six-million-euro, 15-month contract for the maintenance and upkeep of the end-to-end water service and new sewer mains in Cagliari.

■ SPAIN. EMASESA, Seville's water and sewage company, awarded ACCIONA Agua a 5.5 million euro O&M contract for the Copero WWTP in Dos Hermanos and the pumping stations in Alcalá de Guadaíra (Seville). The two-year contract may be extended for an additional two years.

ACCIONA Agua expanded its pipeline considerably in Spain and other countries in 2009

The Copero wastewater treatment plant, the largest of its kind in Seville, has a rated capacity of 255,000 m^3.

■ The Water Institute of Aragón awarded ACCIONA Agua a contract to operate and maintain WWTPs in Zaragoza province, specifically in Calatayud (8,000 m^3/day) and Carramolina (160 m^3/day). The contract is for three years, with a possible three-year extension.

■ The Regional Council of Conca de Barberà (Tarragona) awarded ACCIONA Agua (in consortium with SAV-DAM) an O&M contract for the WWTP and sewers in Montblanc, Santa Coloma de Queralt, L'Espluga de Francolí and Senan, and the network of mains in Vimbodí, Poblet and Las Masías. The plants will process 5,000 m^3/day and serve 17,000 people.

■ Córdoba's provincial water company awarded ACCIONA Agua a contract to operate and maintain the transfer pipes, pumping stations and WWTPs in the municipalities of Aguilar de la Frontera, Cabra, Fernán Nuñez and Montemayor. The contract is worth 1,029,003 euros. The plants will process 35,000 m^3/day and serve 85,000 people.

■ The Catalonian Water Agency awarded ACCIONA Agua the contract to operate and maintain the facility for efficient thermal treatment of sludge at the Rubí WWTP (Barcelona). The facility has a thermal drying system which can produce three metric tons of evaporated water/hour; and a cogeneration plant with an installed capacity of 6,130 kW. The facility will treat 21,000 metric tons of sludge/year and generate 41,300,000 kWh/year.

END-TO-END MANAGEMENT SERVICES

ACCIONA Agua meets cities' water supply needs by providing end-to-end water management services. This includes gross water intake, potabilization, maintenance and control of reservoirs, management of distribution networks and billing of end users. More than 1.6 million users in 60 towns across Spain benefit from ACCIONA Agua's end-to-end water management services.

ACCIONA Agua will operate and maintain five wastewater treatment plants in Spain

ACCIONA Agua meets cities' water supply needs by providing end-to-end water management services

The Company has a network of laboratories to control water quality and ensure it is in peak condition for human consumption. In 2009, ACCIONA Agua obtained the following contracts:

- Construction of facilities and provision of end-to-end water management services for 36 years in ten residential complexes in Andratx (Mallorca), serving 5,000 people. Investment will total 44 million euros.
- Renewal of the end-to-end water supply management contract in Soria, worth 10 million euros. It includes intake, potabilization, drinking water distribution, customer management, sewage networks and wastewater treatment. ACCIONA Agua has been operating in Soria since 1993.

OTHER ACTIVITIES

ACCIONA Agua has been very active in initiatives related to sustainability, sponsorship, participation in forums and conferences, training and awareness-raising campaigns in all areas related to water treatment. The following events and actions stood out in particular in 2009:

- Water Week in Andratx (Balearic Isles, Spain). ACCIONA Agua, together with Andratx City Council, implemented "Environmental awareness and education on water", a programme designed to inform young people about reusing water, reducing consumption and minimizing household water contamination. The programme included information on water treatment and desalination.

- Sustainability Workshop. ACCIONA Agua provides schools in Spain with a set of learning materials designed to instil environmental values and contribute to a more sustainable world.

ACCIONA Agua participates actively in the dissemination and teaching of all issues related to water treatment