



Contents






Citizen Services

The **FCC Group** is a leading European group in infrastructures and environmental services....

...with more than **100** years' experience and ...

The business was founded in Barcelona in 1900 as Fomento de Obras y Contratas S.A. and became known as FOCSA. In 1992 FOCSA merge with Construcciones y Contratas, a company founded in Madrid in 1944 to form today's FCC group.

...**Leader** in its sector

Nº **1** and **3** in 
Citizen Services in Spain
and Europe respectively

Nº **1** and **8** in 
Cement in Spain and
Worldwide respectively

Nº **1** in 
Construction in Spain
and Austria

Nº **17** in 
Construction worldwide

...based on **unique** strengths...

1 Leadership in domestic markets

Central position in Spain, Central Europe
and the UK

2 International Presence

56 % of revenue from international
markets in 2012

**3 Integral Environmental
Services and Water offering**

End to end water management

4 Specific Know How

Vast experience in complex infrastructure
and environmental services projects

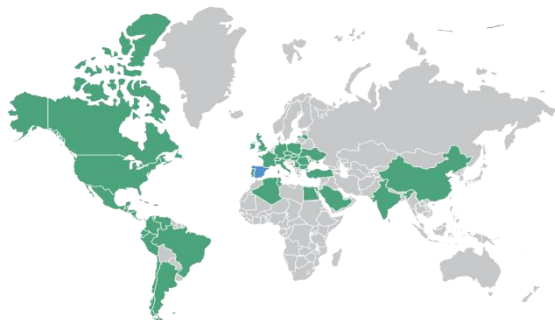
5 Sustainable business

Backlog coverage of 3.5 years (6.5 in
Services and 1.4 in Construction)

6 Recurrent business

65% of Group EBITDA in 2011 supported
by long term contracts

Through its global presence ...



FCC has activity in **56** countries.

At the end of 2011, **52%** of our turnover came from international markets.

90,000 employees all over the world.

...and its three divisions ...



FCC has three major divisions:

- ❑ **Services** covers two large areas: environmental services and services for citizens.
- ❑ **Infrastructures** works in the areas of construction and industrial activity.
- ❑ **Energy** is a business area that is undergoing a process of consolidation, and which generates business in the field of renewable energy.

...generating the following key financial figures...




IBEX-35



**Dow Jones
Sustainability Indexes**
Member 2011/12

FCC is listed in the IBEX-35 (Spanish stock market) and included in the Dow Jones Sustainability World, in the category of Heavy Construction.

2011 (Million €)	
Sales	11,754.8
Net profit	108.2
Business backlog	35,238.0



 aqualia



aqualia is the umbrella company within the FCC group specialized in **total water management through the following key companies...**



Unique strengths...

Leadership in Water Management



> 28'000.000

36% of Spanish market share and serving 1100 municipalities.

3^a company in the world in water management with more than 28 million population served (GWI 2011/2012).

Corporate Social Responsibility



1st company in Spain to get the GRI certification in the water sector

Global presence / implementation



17 countries are served in aqualia's portfolio



Best people



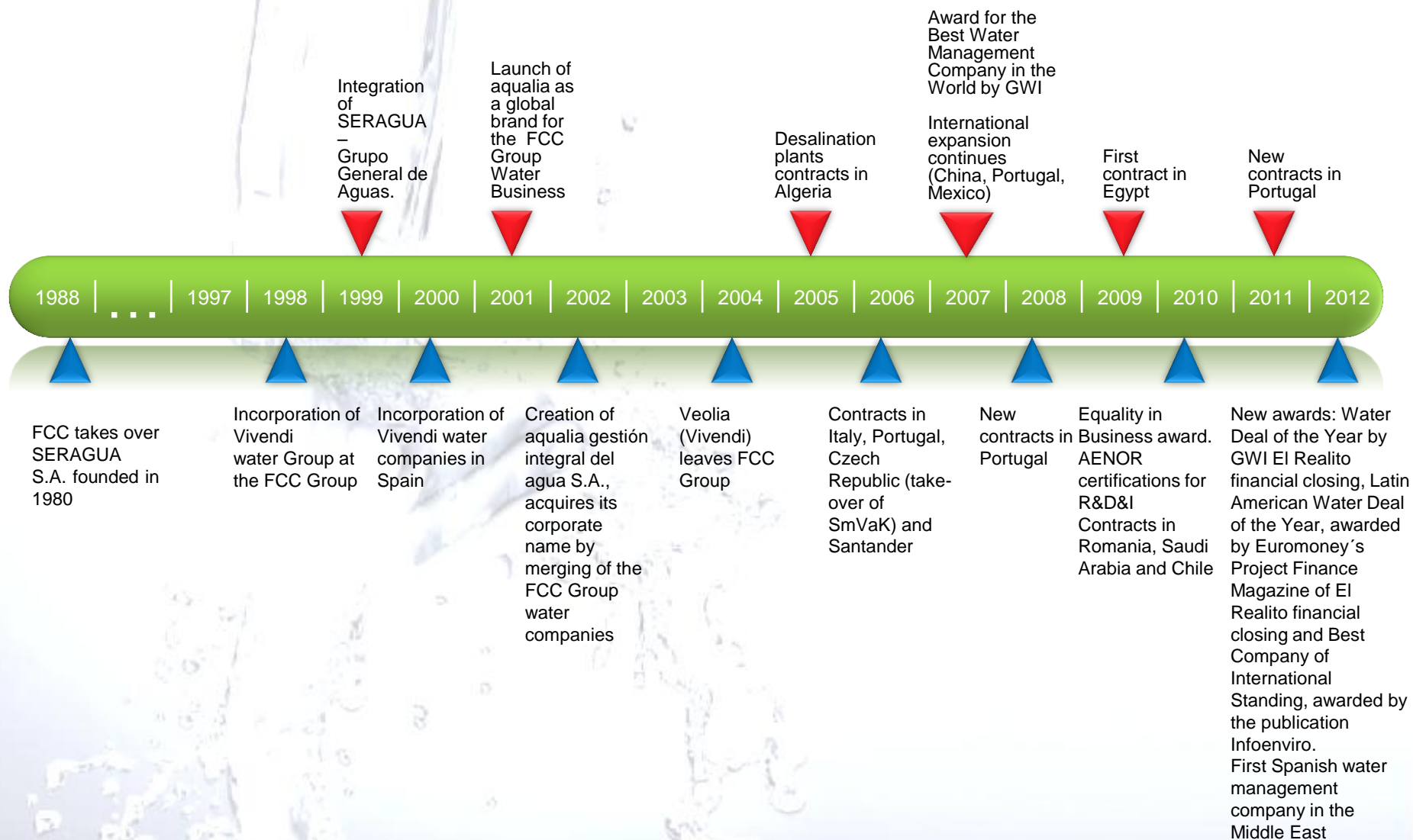
7,000 high qualified employees

International Awards



- 🏆 Best Company of International Standing (2012).
Awarded by the publication Infoenviro in their first Energy and Environment Awards
- 🏆 Latin American Water Deal of the Year (2012).
Awarded by Euromoney's Project Finance Magazine of El Realito financial closing.
- 🏆 Water Deal of the Year (2012).
Awarded by Global Water Intelligence (GWI) for "an elegant solution to a uniquely complex problem" of El Realito financial closing.
- 🏆 3rd best company in worldwide water management (2011)
- 🏆 African PPP Water Deal of the Year (2011).
Euromoney's Project Finance Magazine recognizes innovation, best practices, problem solving and economic value of the financial closing of the New Cairo Waste Water Treatment Plant.

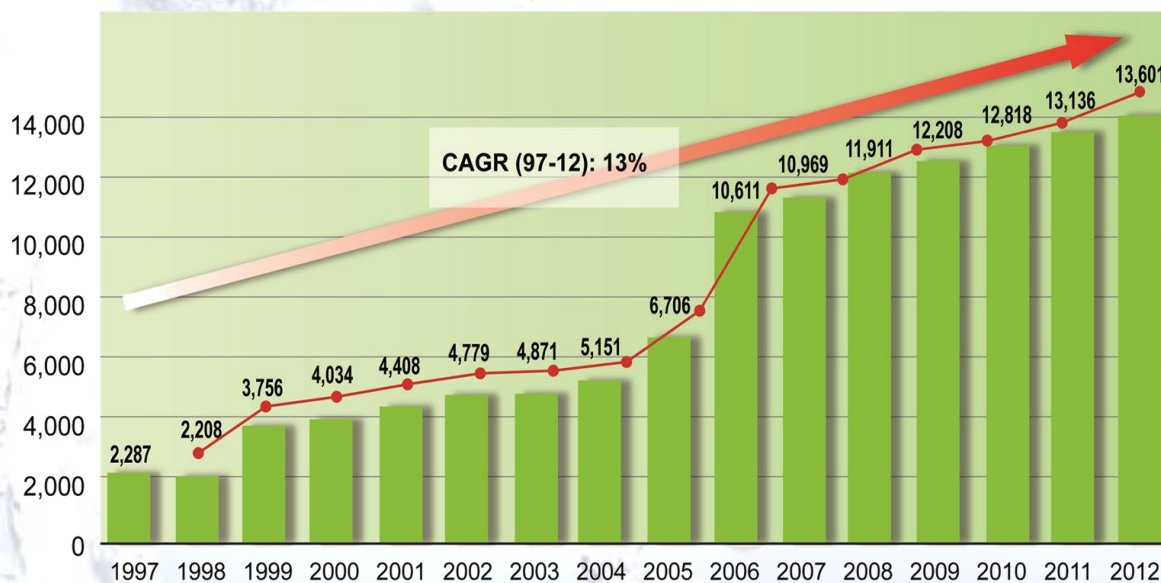
The history of aqualia through relevant events ...



aqualia latest key financial indicators ...

Main Financial Data	(€ millions)	2008	2009	2010	2011	2012 (e)
	Turnover	845	872	868	845	866
	Ebitda	157	166	164	173	184
	B.A.I.	61	70	65	59	55
	Business Portfolio	11,912	12,208	12,818	13,136	13,601

Business Portfolio Evolution





aqualia

infraestructuras



Citizen Services

aqualia infraestructuras is the company within aqualia and the FCC group specialized in **Design and Construction of hydraulic infrastructure**

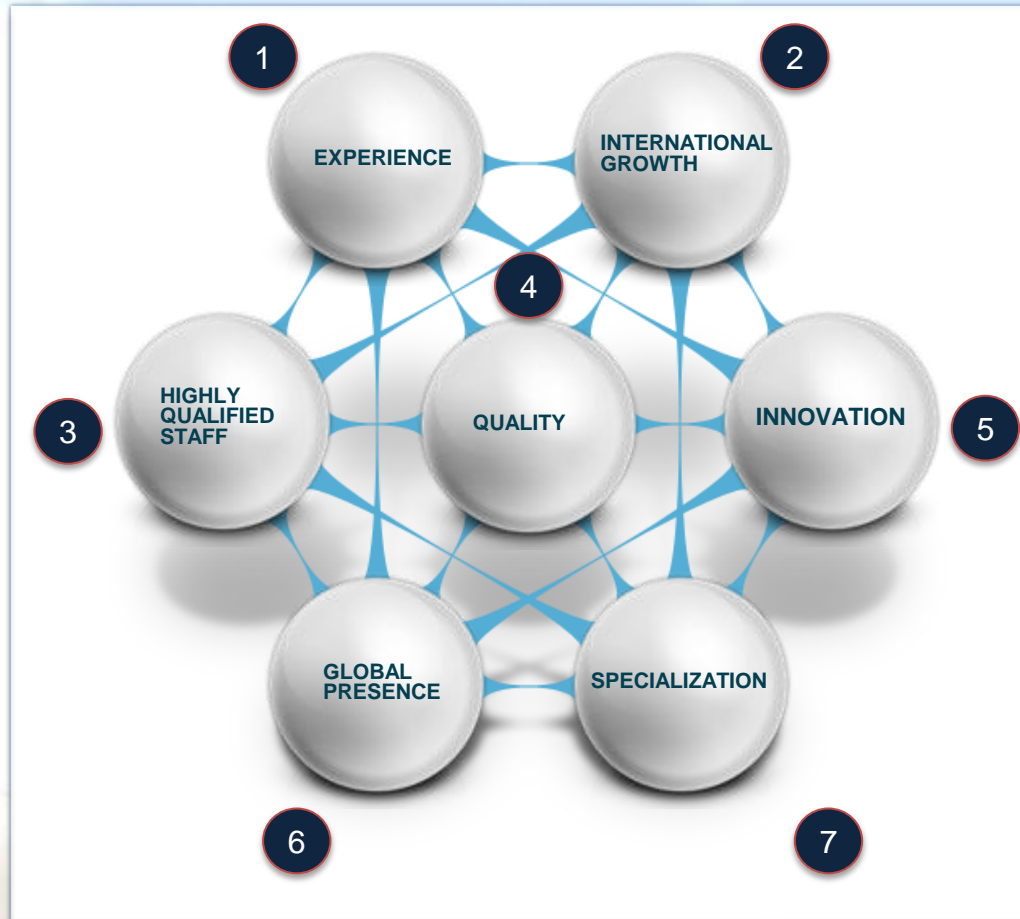


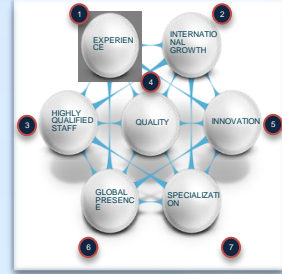
Our portfolio of services include ...

Specialised engineering, procurement, construction, testing and commissioning of hydraulic infrastructure and water treatment plants covering a vast experience in:

- ▶ Aqueducts
- ▶ Pumping Stations (PS)
- ▶ Wastewater Treatment Plants (WWTP)
- ▶ Drinking Water Treatment Plants (DWTP)
- ▶ Tertiary Treatments and Reuse (TT)
- ▶ Sludge Treatment from Wastewater and Drinking water Treatment Plants
- ▶ Reverse Osmosis Desalination for Sea Water (SWRO) and Brackish Water (BWRO)

...where our excellence in delivery
comes from solid strengths ...





More than 25 years of experience



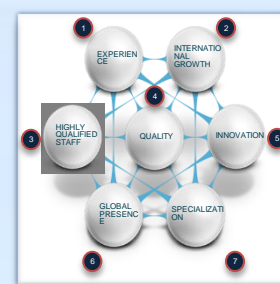
+ 100 installations for wastewater treatment with a total capacity equivalent to more than 32 million inhabitants.



+ 30 installations for drinking water treatment with a total capacity equivalent to more than 14 million inhabitants.



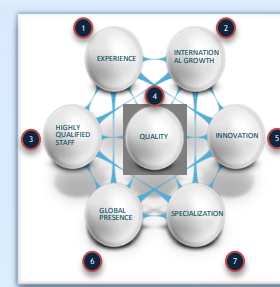
+ 30 reverse osmosis desalination plants for sea water, brackish water and reuse, with a total production of more than 700.000m³/d.



...with a highly specialized staff

EMPLOYEES	Nº
Directors	8
Heads of Department & Project Managers	66
Engineers, Bachelors & Qualified Technicians	25
Administrative officers	14
Works foremen	45
TOTAL	158





...following quality international standards

Quality Management System Certificate



ER-0141/1995

AENOR, Spanish Association for Standardization and Certification, certifies that the organization

AQUALIA INFRAESTRUCTURAS, S.A.

has a quality management system according to the UNE-EN ISO 9001:2008 Standard

(in the activities: The design, construction, operation and commissioning of water treatment or desalination plants and related installations.

which is carried out in: CL FEDERICO SALMON, 33, 28036 - MADRID
Delegación Chile: C/ APOQUINCO, 3001 P 9 LOS CONDES - SANTIAGO DE CHILE (Chile)
Delegación Montenegro: DRAGICE PRAVICE BB 81400 NIKSIC (MONTENEGRO)
Delegación México: AV 5 DE FERRER, 1351 INT. 1, EDIFICIO ROBLE OF, 304 COL. CARILLO PUERTO, ZONA IND. BENITO JUAREZ, 76120 - QUERÉTARO (México)

Issued on: 1995-05-19
Renewed on: 2013-07-07
Validity date: 2015-07-07

[Signature]
AENOR
Asociación Española de Normalización y Certificación

Ave. Jno BRITO
Chief Executive Officer

AENOR Asociación Española de Normalización y Certificación

Edificio A, 28004 Madrid, España
Tel. 91 522 20 20 - www.aenor.es

Quality management system certification body accredited by ENAC with accreditation Nº QUC-SC009

— **ICONEE** — AENOR is a partner of the ICONEE NETWORK (The International Certification Network)

Environmental Management System Certificate



GA-1998/0060

AENOR, Spanish Association for Standardization and Certification, certifies that the organization

AQUALIA INFRAESTRUCTURAS, S.A.

has an environmental management system in accordance to the UNE-EN ISO 14001:2004 Standard

(in the activities: The design, construction, operation and commissioning of water treatment or desalination plants and related installations.

which is carried out in: CL FEDERICO SALMON, 33, 28036 - MADRID
Delegación Chile: C/ APOQUINCO, 3001 P 9 LOS CONDES - SANTIAGO DE CHILE (Chile)
Delegación Montenegro: DRAGICE PRAVICE BB 81400 NIKSIC (MONTENEGRO)
Delegación México: AV 5 DE FERRER, 1351 INT. 1, EDIFICIO ROBLE OF, 304 COL. CARILLO PUERTO, ZONA IND. BENITO JUAREZ, 76120 - QUERÉTARO (México)

Issued on: 1998-10-06
Renewed on: 2012-07-07
Validity date: 2015-07-07

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Asociación Española de Normalización y Certificación

Ave. Jno BRITO
Chief Executive Officer

AENOR Asociación Española de Normalización y Certificación

Edificio A, 28004 Madrid, España
Tel. 91 522 20 20 - www.aenor.es

Environmental management system certification body accredited by ENAC with accreditation Nº QUC-MG021

— **ICONEE** — AENOR is a partner of the ICONEE NETWORK (The International Certification Network)

Gestión de la seguridad y salud laboral Occupational health and safety management

OHSAS 18001:2007

Certificado

SPRL - 087/2008



AUDELOCO, Auditoría de Riesgos Laborales, S.A. certifica que el Sistema de Gestión de la Prevención de Riesgos Laborales seguido por: **AUDELOCO, Auditoría de Riesgos Laborales, S.A.**, cumple con el *Guía de Gestión de la Salud y Seguridad en el Trabajo* según el estándar OHSAS 18001:2007.

aqualia

es conforme con los requisitos establecidos en el estándar OHSAS 18001:2007, con el siguiente alcance:

Actividades/Activities:

A) Construcción, mantenimiento, conservación y reparación de infraestructuras hidráulicas. B) Gestión de instalaciones de captación, tratamiento y distribución de agua potable; y desalación de agua. C) Gestión de instalaciones de depuración y transporte de aguas residuales. D) Control de la calidad del agua. E) Gestión de alcantarillas. F) Gestión de instalaciones deportivas. G) Construcción, mantenimiento, conservación y reparación de edificios, instalaciones. H) Management of operation, treatment and distribution drinking water and water desalination. I) Management of primary and secondary sewage waters. J) Quality control of the water. K) Customer management. L) Management of waste facilities.

Realizada/s en o desde/Conducted in from:

Oficina principal en C/ Federico Saldaña, 33, 28036, Madrid; oficinas e instalaciones gestionadas en España (Ver detalles de emplazamientos en anexo de control)

El presente certificado es válido durante el periodo abajo indicado, salvo suspensión o retirada notificada en tiempo por AUDELOCO. This certificate is valid unless it is suspended or withdrawn upon AUDELOCO notification.

Fecha emisión: 30/11/2013
Emit date:
Fecha caducidad: 30/11/2014
Expiry date:

AUDELOCO
Auditoría de Riesgos Laborales, S.A.
[Signature]
Jorge María Rodríguez
Director Técnico
Oficina: C/ de 28036 Madrid España
E-mail: info@audeloco.es

ENAC
CERTIFICACIÓN
Nº 360-SC049

AUDELOCO
AUDITORIA DE RIESGOS LABORALES

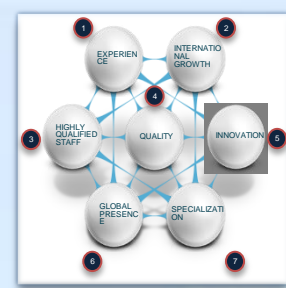
Entidad de certificación de sistemas de gestión de la seguridad y salud en el trabajo acreditada por ENAC con acreditación Nº 360-SC049

ISO 9001
Quality
Management
System

ISO 14001
Environmental
Management
System

OHSAS 18001
Occupational Health
& Safety Management
System

...focused on new technologies



R&D+I are one of the **high-priority** activities of the company, oriented to present solutions to the different problems that arise in the field of water treatment.

R&D+I is developed in **pilot plants integrated in real plants**. It allows the technical department to design the facilities of water treatment with the last and more modern technologies.

Investigations are performed by personnel of the company, usually in collaboration with **universities or research centres**.



I+D+i Management System Certificate



RD-0085/2010

AENOR, Spanish Association for Standardization and Certification, certifies that the organization

AQUALIA INFRAESTRUCTURAS, S.A.

has a I+D+i management system according to the UNE EN ISO 9001:2008 Standard

for the activities: Applied research, development and innovation in construction technologies, treatment, collection systems and equipment, desalination, drinking water treatment and distribution, engineering and technology of environmental systems, water purification and reuse for the activities of integral water management. Innovation in integral water chemistry, computer science (control systems for production processes, instrumentation and automation) for activities of projects and construction of installations for the treatment of water and its by-products.

which covers the sector: 22. FERRERÍA SALMOL, S.L. 28036 - MADRID

Issued on: 2020-02-24
Validity until: 2024-02-24

 AENOR, Spanish Association for Standardization and Certification, Certification Manager of I+D+i

AENOR

Normativa Española de Normalización y Certificación

Oficina de Gestión de la Calidad y la Seguridad
Tel: 902 00 00 00 - www.aenor.es

I+D+i management system certificate issued by AENOR with accreditation Nº 0022-20020

AENOR is a member of the IAF (International Federation of Pure and Applied Sciences)

R&D PROJECTS – COLLABORATING WITH AQUALIA



MBR -MBBR



ANNAMOX



SLUDGE – (HYDROLISIS)



AERATION CONTROL



ALL - GAS



INNPACTO
DOWNSTREAM



CENIT - MICROALGAE



ULTRAFILTRACION -
CERAMIC MEMBRANES



ACRILAMIDA-



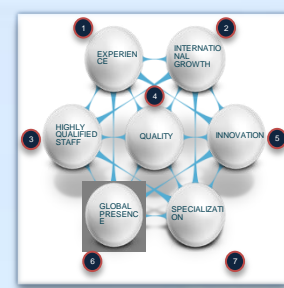
REMEMBRANE



ITACA

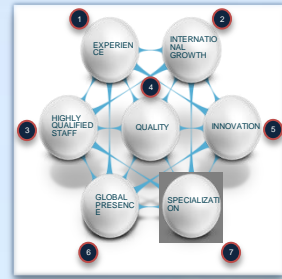


ISIS



...with global presence through participated companies.

Companies participated by aqualia infraestructuras	Country	Share
aqualia infraestructuras Beijing Representative office	China	100 %
aqualia infraestructuras INZENYRING SRO	Check Republic	100 %
STMM Mostaganem	Algeria	50 %
SMR DJINET	Algeria	50 %
Orasqualia	Egypt	5 %
aqualia infraestructuras de Mexico, SA de CV	Mexico	100 %
Constructora de Infraestructuras de Agua de Querétaro	Mexico	24,5 %
Constructora de Infraestructuras de Aguas Potosí	Mexico	24,5 %
aqualia infraestructuras Montenegro D.O.O. (AIM)	Montenegro	100 %
aqualia infraestructuras S.A. agencia en Chile	Chile	100 %



...and clear areas of **specialization**



Wastewater Treatment Plants



Tertiary Treatments



Drinking Water Treatment Plants



Reverse Osmosis Desalination Plants



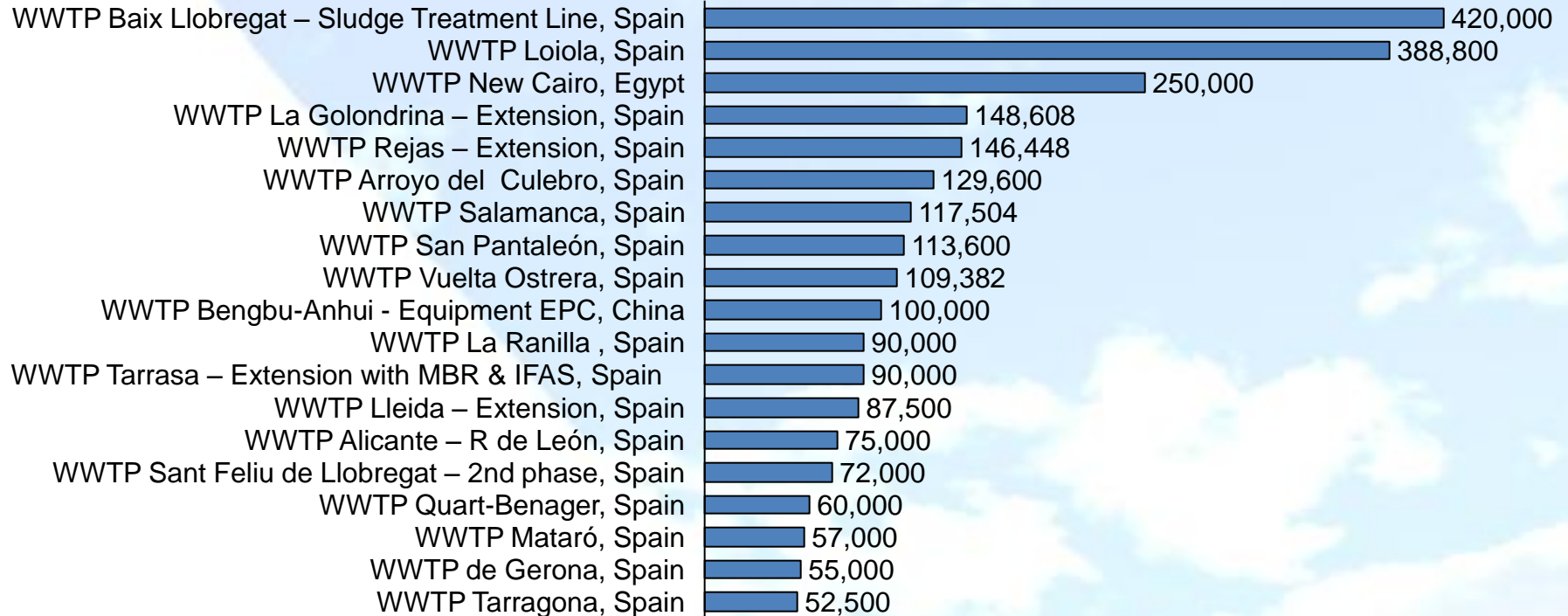
Aqueducts and Hydraulic works for water transport and distribution



aqualia
infraestructuras

Wastewater Treatment

Key References in Waste Water Treatment (m3/d)



WWTP built by **aqualia infraestructuras** treat
wastewater from **32 million** people equivalent.

More than **100** installations with state of the art
technology applied



WWTP Baix Llobregat- Sludge Treatment, Spain

Capacity 420.000 m³/d



WWTP New Cairo, Egypt

Capacity 250.000 m³/d



WWTP Loiola, Spain
Capacity 388.800 m³/d



WWTP Arroyo Culebro, Spain
Capacity 129.600 m³/d



WWTP San Pantaleón, Spain
Capacity 113.600 m³/d



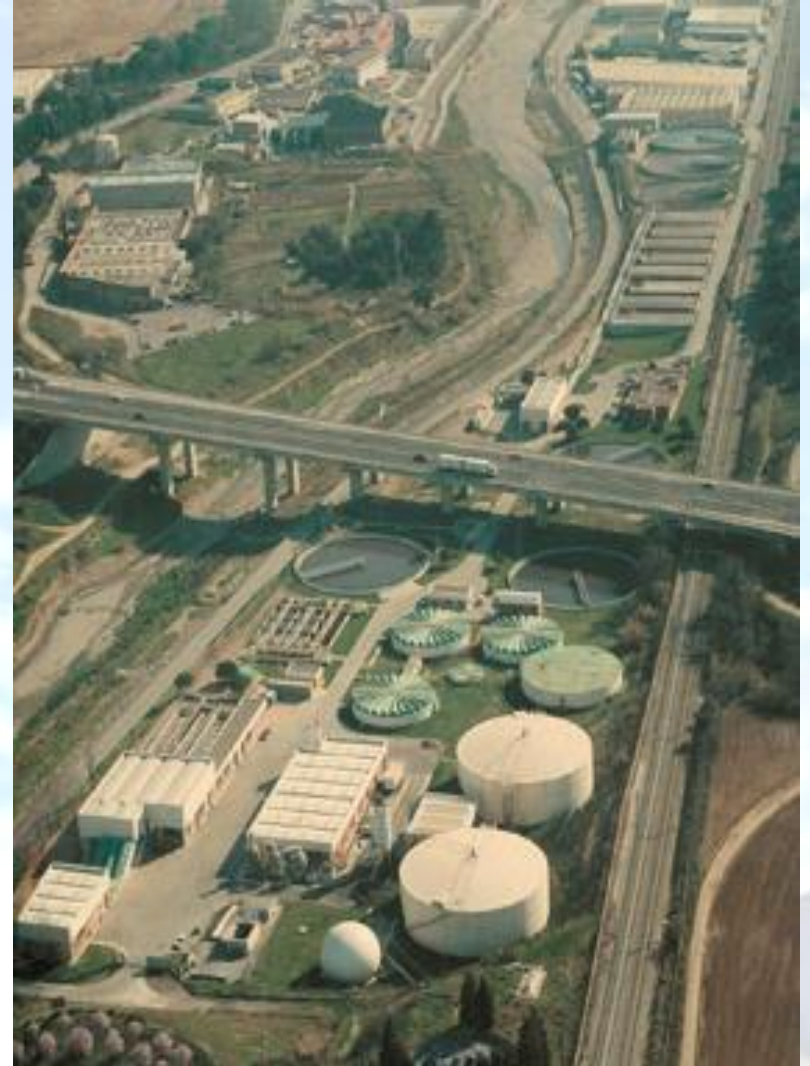
WWTP Vuelta Ostrera, Spain
Capacity 109.382 m³/d



WWTP La Golondrina, Cordoba, Spain
Capacity 148.608 m³/d



WWTP Salamanca, Spain
Capacity 117.504 m³/d



WWTP Tarrasa – extension with MBR & IFAS, Spain
Capacity 90.000 m³/d



WWTP Ranilla, Seville, Spain
Capacity 90.000 m³/d



WWTP Matosinhos, Portugal
Capacity 30.000 m³/d



WWTP Quart Benager, Spain
Capacity 60.000 m³/d



WWTP Nicsik, Montenegro
Capacity 15.422 m³/d

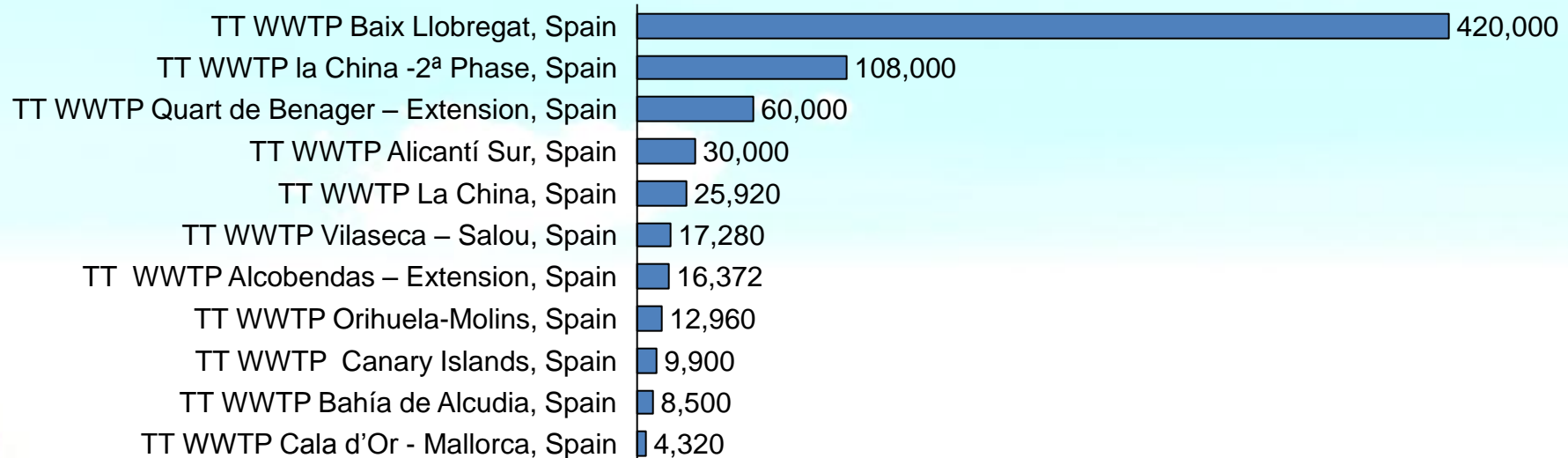


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Tertiary Treatments

Key References in Tertiary Treatment (m3/d)



aqualia infraestructuras has designed and built more than **15** tertiary treatments for existing WWTP to reuse in irrigation, aquifer recharge and creation of new ecologic flows. In total producing more than **700.000 m3/d** of clean water.



Tertiary Treatment Baix Llobregat, Spain
Capacity 420,000 m³/d



Tertiary Treatment Alcobendas- extension, Spain
Capacity 16.372 m³/d



Tertiary Treatment La China- 2^o phase, Spain
Capacity 108.000 m³/d



Tertiary Treatment Vilaseca – Salou, Spain
Capacity 17.280 m³/d



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Drinking Water Treatment Plants

Key References in Drinking Water Treatment (m3/d)



aqualia Infraestructuras has built more than **30** installations to provide potable water to more than **14 million** inhabitants.



DWTP Jieyuan- Sludge treatment, Tianjin, China
Capacity: 500.000 m³/d



DWTP Lingzhuang - Sludge treatment, Tianjin, China
Capacity: 750.000 m³/d



DWTP Sistema Acueducto II, Querétaro, México
Capacity: 129.600 m³/d



DWTP Letur- Extension, Spain
Capacity: 259.200 m³/d



DWTP Canal del Narcea, Spain
Capacity: 259.000 m³/d



DWTP Burgos- Extension, Spain
Capacity: 142.560 m³/d



DWTP Hellín, Spain
Capacity: 20.400 m³/d



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Reverse Osmosis Desalination



GRAN TARAJAL
1.500 m3/d



ADEJE – ARONA
22.000 m3/d



MOSTAGANEM
200.000 m3/d

1988

On the final 80's, the first desalination plants works began. Fuerteventura III with 4000 m3/d. (SW) and Gando, Gran Canaria, with 1000 m3/d (SW).

FCC has not been founded yet, the Group was called then FOCSA.

1992

From 1989 and 1992 there are three stations built and started up:

- Fuerteventura III 4.000 m3/d (SW)
- Corralejo 1.500 m3/d (SW)
- Gran Tarajal 1.500 m3/d (SW)

In 1992 FCC Group is founded and also SPA company is created (Group company for water treatment)

2007

Meanwhile SPA time, there were 10 desalination plants completely built and another 10 were ongoing:

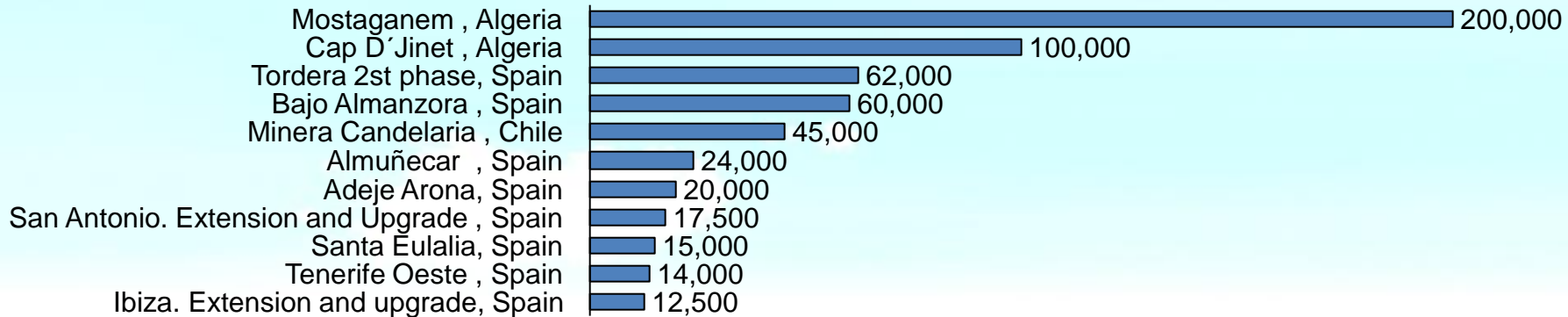
- Adeje – Arona de 22.000 m3/d (SW)
- Roque Prieto 5.000 m3/d (SW)
- Janubio 10.500 m3/d (SW)
- Tordera 1ª phase 28.800 m3/d (SW)
- Raconsª fase 5.000 m3/d (BW)
- La Solana 7.152 m3/d (BW)
- Repsol Química 1.440 m3/d (BW)
- Tarragona I 3.550 m3/d (BW)
- Arrecife 5.000 m3/d (RW)
- Haría 200 m3/d (RW)

2013

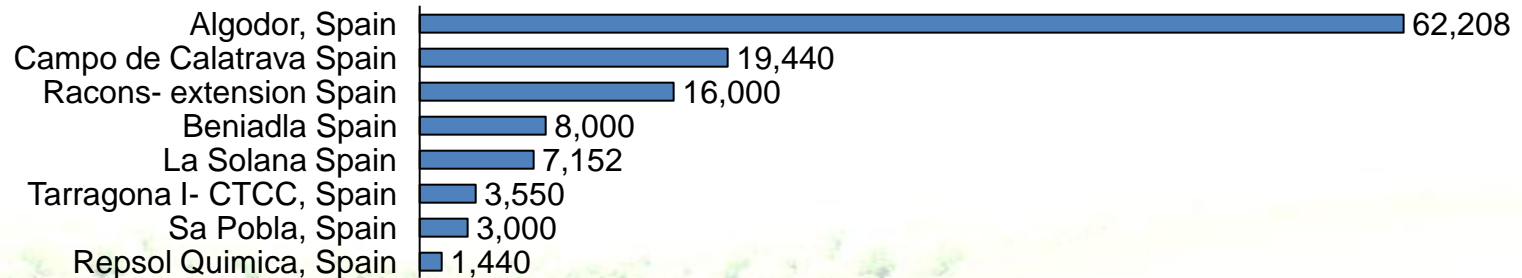
From 2007 aqualia infraestructuras has built, or is building the following plants:

- Mostaganem, Algeria. 200.000 m3/d (SW)
- Cap D' Jinet , Algeria. 100.000 m3/d (SW)
- Tordera II extension 62.000 m3/d (SW)
- Bajo Almanzora 60.000 m3/d (SW)
- Minera Candelaria, Chile. 45.000m3/d(SW)
- San Antonio 17.500 m3/d (SW)
- Santa Eulalia 15.000 m3/d (SW)
- Tenerife Oeste 14.000 m3/d (SW)
- Ibiza 12.500 m3/d (SW)
- La Caleta 10.000 m3/d (SW)
- Algodor (62.208 m3/d (BW)
- Campo de Calatrava 19.440 m3/d (BW)
- Sa Pobla 3.000 m3/d (BW)
- L'Alacantí Sur 15.000 m3/d (RW)
- Ranilla 2.000 m3/d (RW)

Key References in Sea Water Desalination



Key References in Brackish Water Desalination



aqualia infraestructuras has designed and built more than **30** reverse osmosis desalination plants to treat seawater, brackish water and reuse/tertiary treatments, providing more than **700.000** m3/d flow, for about **3 million** inhabitants.



Sea Water RO Desalination Plant Mostaganem, Algeria
Capacity 200.000 m3/d



Sea Water RO Desalination Plant Cap D'jinet, Algeria
Capacity 100.000 m3/d



Sea Water RO Desalination Plant Bajo Almanzora, Spain
Capacity 60.000 m3/d



Sea Water RO Desalination Plant Delta de La Tordera, Spain
Capacity 62.000 m3/d



Sea Water RO Desalination Plant Minera Candelaria, Chile
Capacity 45.000 m³/d



Sea Water RO Desalination Plant Adeje – Arona, Spain
Capacity 2320.000 m³/d



Sea Water RO Desalination Plant Santa Eulalia, Spain
Capacity 15.000 m³/d




Sea Water RO Desalination Plant Santa Antonio, Spain
Capacity 17.500 m³/d



Brackish Water RO Desalination Plant Algodor, Spain
Capacity 62.208 m³/d



Brackish Water RO Desalination Plant La Solana, Spain
Capacity 7.152 m³/d



Aqueducts & Hydraulic works

Water Supply System Aqueduct II, México

Main Characteristics

Design average Flow	1,500 lps
Access Roads	31 km
Dam	950,000 m3 storage
Pumping Stations	2 x 2,250 lps at 570mwc
Pressure Line	24 km
Tunnel "el Doctor"	3 km
Regulation Tank	400,000 m3
DWTP	1,800 lps
Gravity Line	99 km
Storage Tanks	4 x 12,500 m3 av
Pipes Diameters	30" to 54"
Pipes Materials	Welded Steel and Prestressed concrete



Water Supply System El Realito, México



Main Characteristics

Average Design Flow	1,000 lps
Access Roads	46 km
Pumping Stations	3 x 1,000 lps a 320 m
Pressuer Line	14 km
DWTP	1,000 lps
Gravity Line	98 km
Water Distribution Network	18 km
Storage Tanks	6 de 2,000 a 5,000m3
Main Collector Pipes Diameter	36" to 54"
Main Collector Material	Welded Steel and Prestressed concrete



Pumping Station El Caracol, 40m³/s, México

Highlights

20 submersible pumps of 2 m³/s and 45 mwc each .

12 power generation groups 3100 kW.

2 self-cleaning screens

4 electrical gates

1 Substation: 10 MVA



PS & Stormwater Tank Butarque 21m³/s, Spain

Highlights

Hydraulic gates and pre-treatment for **73 m³/s**.

Storm Water Pumping Station with 17 submersible centrifuge pumps. Total capacity = 21 m³/s.

400.000 m³ Storage capacity

Emergency drainage
pumping station. 3 pumps
Pumping capacity: 2.25 m³/s

2 Ventilation systems for
600,000 m³/ hr and
500,000 m³/hr.





THANK YOU!

www.aqualia-infraestructuras.es

www.aqualia.es

www.fcc.es