

PRESS FOLDER EXPO 2021

ACQUEDOTTO PUGLIESE

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## ACQUEDOTTO PUGLIESE

Our history is Water

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120 years

This year we will celebrate 120 years. Our history is Water.

With a spirit of innovation, it is a history of human beings and of territories, of challenges and of goals. Always in total respect of the Environment.

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The first call  
for tenders for  
utilities contracts

In the early 1900's, thanks to a European call for tender, the first in the history of utilities, we brought water to the driest region of Southern Italy, Puglia. 20 thousand workers constructed the longest canal of the time in Italy: 250 km



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Over 30 thousand  
kilometres, 2000  
employees

Today a system of integrated networks runs for over 30 thousand km. Acquedotto Pugliese gives work to 2,000 employees, serves more than 260 settlements and 4 million citizens.

It is a joint stock company running at a profit, with a turnover of 600 million euro per year and has invested a billion euro in the last decade.

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The complete  
water  
and  
wastewater  
cycle

We deal with the complete water and wastewater: drawing, distribution, purification and treatment. We can design, build, test and manage, within a sustainability plan, that is environmentally friendly economic and social at the same time. Acquedotto Pugliese offers its expertise for drawing up plans of aid and development in the water sector, it performs specialized training and is involved in energy management.

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The water  
culture at its  
heart

For us, the starting and arrival point is the water culture, as a common asset, that cannot be wasted and should be preserved. That ranges from safety and quality control, to reduction of energy consumption and to increasing renewable sources. That is supported by research in association with Universities and with the National Research Centre (CNR) and that cannot disregard Training.

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Human  
capital,  
Sustainability and  
Innovation

For this purpose, we created the AQP Water Academy - a centre of excellence on the integrated water and wastewater service, to enhance the value of the human capital.

We have created the largest Italian bio-phyto purification plant.

"Water that listens" is the digital service for the citizens, focussing on their needs.

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The Water  
Building

In 1924 "Il Palazzo dell'Acqua" a neo-Romanesque jewel, designed by Duilio Cambellotti, artistic genius, was built. He recited the sense of Water is thousands of forms. That building, in the heart of Bari, is still close to the heart of our Company. It is the visionary gaze on the future, that accompanies us.



## ACQUEDOTTO PUGLIESE The History

26th June 1902

### AQP an answer to the ancient thirst of Puglia

The idea of a water authority capable of providing answers to the ancient thirst of the Puglia region, started to take shape as far back as the middle of the 1800's: the Engineer Camillo Rosalba and the tenacity of some Southern Italian politicians, first and foremost the Right Honourable Matteo Renato Imbriani, are to be thanked for designing a great infrastructure through which the water was brought from Alta Irpinia to Puglia.

On 26th June 1902 law no. 245 was approved by the Kingdom of Italy. It formalised the birth of a Consortium for the construction and operation of the Apulian Aqueduct.

Before the creation of the Apulian Aqueduct, gastrointestinal illnesses and, particularly, typhoid fever, caused thousands of victims every year. Child mortality was shocking. Private tanks and wells, with their stagnant waters, provided the ideal substrate for the development of Anopheles mosquitoes, which caused the spread of malaria that represented one of the main causes of death in rural areas.

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## ACQUEDOTTO PUGLIESE

What we do and macro data

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One of the  
major  
players

Acquedotto Pugliese SpA is one of the biggest historical Italian companies and one of the major European players in the sector of managing integrated water systems. It manages the integrated water and wastewater system in over 260 settlements, for a total of 4 million inhabitants. The group includes the subsidiary ASECO spa, leader in composting. AQP is a virtuous example of a sustainable and circular water authority.

The water supply networks cover 20 thousand kilometres (of which 5 thousand for conveyance alone), along with about 1,500 installations including tanks, flow dividers and lifting systems. Added to this are over 12 thousand kilometres of sewage networks, equipped with 700 lifting works. AQP also manages 5 purification systems in three regions (Puglia, Basilicata and Campania), 10 analysis laboratories, 184 water treatment plants and 9 refinement systems for re-using treated water.



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## ACQUEDOTTO PUGLIESE

### Taking care of water

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#### Respecting nature

Desalination, reusing water and sludge, production of clean energy from water treatment.

Acquedotto Pugliese is busy constructing increasingly advanced technological realities, from desalination systems to new water systems and, regenerating the whole network together, in view of saving the resource and of respecting nature.

Water treatment and reusing the wastewater represent one of the main focal points of the AQP corporate strategy along with the production of clean electrical energy.

Water treatment will allow our region not only to have greater volumes of resources to allocate to agricultural productions, but also to further improve the quality of the waste disposed of in the environment.

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#### Clean sea

Today, thanks to the network of water treatment systems throughout the regional territory, Puglia can boast one of the cleanest seas in the Country. Aqp has purchased 60 dewatering stations that will make it possible, in the long term, to reduce sludge by 30% also thanks to the use of sustainable drying technologies like the 14 solar greenhouses under implementation.

The company is also involved in research and development projects to ensure that the sludge increasingly becomes a resource for the territory.

Aqp currently produces renewable energy from the sun, from water flow and from water treatment sludge from which it extracts biogas.



## ACQUEDOTTO PUGLIESE

### The future

Telecontrol, remote control of the networks, districtalization predictive models.

### Industry 4.0

The AQP innovation processes are based on digitalisation and introducing advanced systems in view of industry 4.0. Digitalisation concerns the various aspects of the activity: telecontrol of the networks, permitting real time monitoring of the flows, installation of smart meters, creating districts capable of favouring an optimal supply of the various areas of the territory and constructing predictive models.

The plan put into effect by Acquedotto Pugliese to replace all the traditional water meters with state-of-the-art digital meters without any cost to the customer amounts to about 30 million euro. The objective is to obtain continuous readings capable of reporting changes of consumption and any anomalies, in order to guarantee greater capacity for analysis.