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2024



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FISIA
ITALIMPIANTI

Water, the Hub of Life

For almost a hundred years of history, Fisia Italimpianti has been providing potable water to millions of people throughout the world. With its desalination and water treatment plants, it is helping guarantee the supply of the world's most precious resource to current and future generations.



2024

FISIA

WHO WE ARE



A Century of experience in the Water Sector

Fisia Italimpianti S.p.A. is a global leader in the sustainable design and construction of water desalination and treatment plants. By building sustainable and resilient infrastructure for the production of potable water and new sources of renewable energy, Fisia Italimpianti helps countries reach their full economic potential, especially in arid and semi-arid regions where the natural supply of water is limited.

It combines the highest standards in:

- **Design**
- **Technology**
- **Engineering**
- **Construction**

with a full range of **innovative solutions** to meet their growing needs.

The technologies that it deploys in desalination include:

- **Reverse osmosis**
- **Multi-stage flash**

The Company is the result of several mergers. It all began in **1926** with the foundation of Castagnetti Water Treatment, which would become an expert in the engineering and construction of water treatment plants as well as solid waste and industrial waste gas treatment plants.

In 1998, it was acquired by Impregilo SpA.

Fisia Italimpianti is now fully owned by **Webuild Group**, a leading global player in the construction of major complex infrastructures.

It specializes in the water sector, where Engineering News-Record (ENR) more than once recognized it as global leader, as well as railways and metro systems, bridges, roads and motorways, large civil and industrial buildings, and airports. The Group, since 1906, is the expression of applied engineering experience on five continents, with design, engineering and construction operations **+50 countries** and more than **85,000 employees** of over 100 nationalities.

FISIA

GLOBAL FOOTPRINT

Headquartered in Genoa, Fisia Italimpianti has operations and projects in various countries around the world.

Completed and ongoing projects include plants in different areas, among which the Middle East, Latin America, Europe, and Northern Africa, with a full know-how and the best technological solutions used.

Our operations are supported by local business units with experience and insight of the local markets, customers and suppliers.

The capacity to listen and satisfy the needs of its clients has led Fisia Italimpianti to become a worldwide leader in the water sector.

Track record

4,800,000 m³/day

(1,055 MIGD)

Total desalination production capacity of plants built and under construction.

11,200,000

inhabitants equivalent

Waste water treatment plants installed and under construction.

6,780,000 m³/day

(1,491 MIGD)

Treated water every day

20,000,000

People served by our desalination plants.

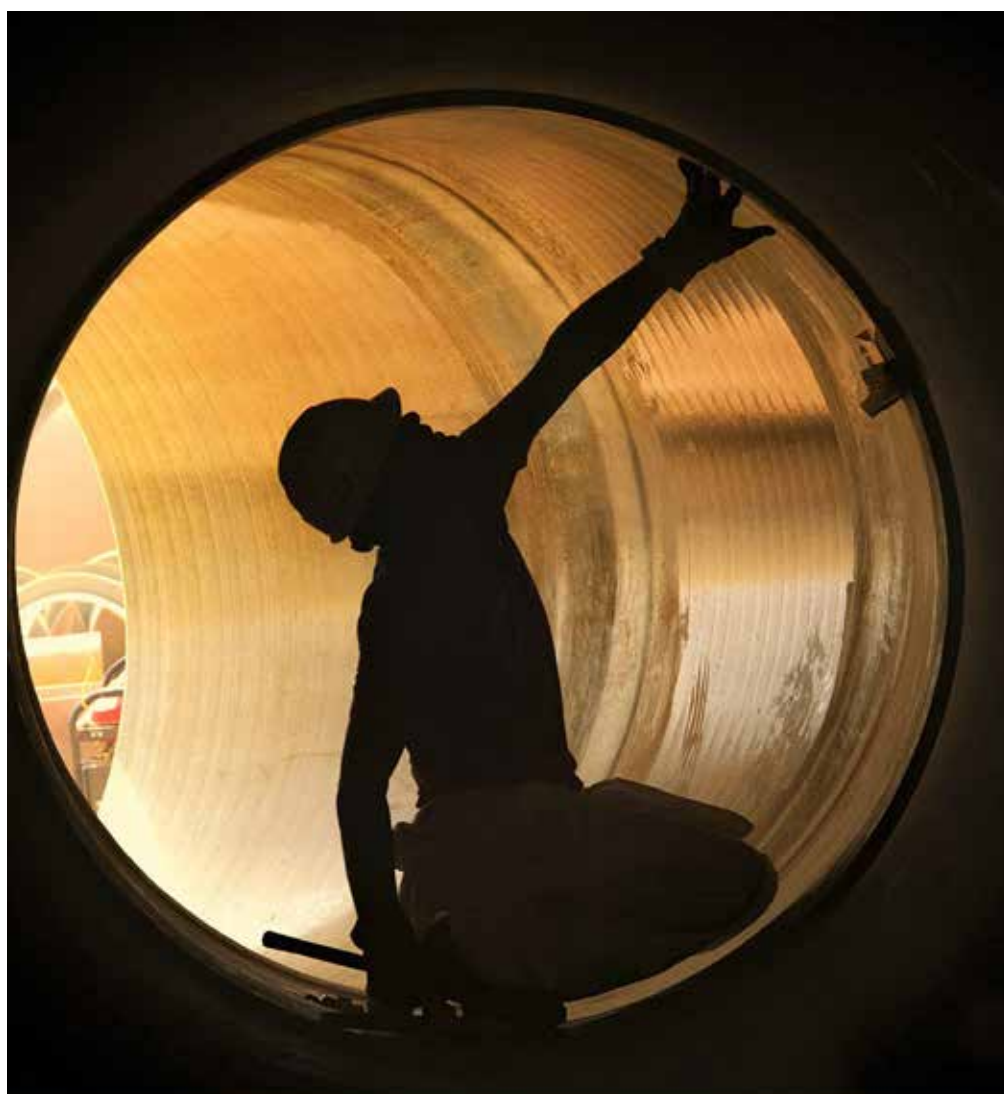
Operating from 1926 with the same passion, vision and positive client attitude.

3,400,000 tons/year

Municipal solid waster management.

FISIA

OUR VALUES



Innovation

Energetic and environmental development are the focus of Fisia Italimpianti's R&D: no effort is spared to minimize the energy consumption and to expand the utilization of renewable resources.

An innovative Research and Development process is integrated among the various business units in a continuous and organic effort to capitalize the existing know-how in order to offer more effective, cost competitive and fast delivered plants.

Fisia Italimpianti Research & Development is targeted to the following four tasks:



→ Improvement of energy efficiency



→ Adoption of new effective and cost competitive materials



→ Optimization of technological processes and of plant delivery time



→ Renewable energy

Sustainability

Desalination and water treatment plants can be fueled even through renewable energy sources, like wind and solar energy. According to the Worldwatch Institute of Washington, rising prosperity and the increasing urbanization of the world population could lead to doubling the volume of municipal solid waste (MSW) produced annually by 2025. Although some of the mechanical solid waste is recycled, the expected doubling of waste indicated would bring the volume of solid waste from present 1.3 billion tons per year to 2.6 billion tons, therefore challenging environmental and public health management in the world's cities. Fisia Italimpianti is playing a significant role in developing advanced technologies to obtain energy from the Renewable Sources and from waste, also using it to get potable water.

INTEGRATED BUSINESS AREAS

With three closely integrated business areas, Fisia Italimpianti is a leading engineering, procurement and construction (EPC) contractor for water resource management projects, helping provide clean, safe water to millions of people in regions with limited access to the precious resource.



Water Desalination





Water Treatment



Sustainable Waste Management





WATER DESALINATION

Seawater desalination is one of the most promising ways to solve the water shortage, providing and maintaining clean and safe water for drinking, daily public use, industrial processes, sanitary uses, etc.

Experience and skills gained in over 40 years allows Fisia Italmimpianti to identify the best solution among **all the available desalination technologies**, capable to fit the specific needs of different owners, always considering the geographical framework.



Salalah Independent Water Project

OMAN

Located in the Salalah area in western Oman, the plant is a reverse osmosis seawater desalination plant with a production of 113,500 m³/d (25 MIGD).



Shuaibah 3 Expansion II, Shuaibah

SAUDI ARABIA

The plant uses reverse osmosis technology to deliver up to 250,000 m³/d (55 MIGD) of water for more than one million residents in the cities of Mecca, Jeddah and Taif.



GHUBRAH 3 IWP

OMAN

Located on the coast in the Gulf of Oman north of Muscat, Ghubrah 3 IWP will serve residents living near the capital. The plant will use the reverse osmosis process to desalinate water from the sea and will have a production capacity of 300,000 cubic metres of water a day (66 MIGD).



WATER TREATMENT

Fisia Italmimpianti realizes the design and construction of several types of industrial plants for production of water for domestic as well as industrial use. The portfolio includes **Municipal and Industrial Waste Water Treatment Plants, Potable Water Treatment Plants, Remineralization Plants and Water Injection Plants for the Oil&Gas sector.**

Fisia Italmimpianti is capable to offer engineered solutions targeted to:

- optimize capital and operating costs
- maximize the reliability and the life of the plant
- reduce the environmental impact

In cooperation with Research Organizations and with the best Universities, the R&D department is studying new technologies for the improvement and the simplification of the water treatment processes.



Ataköy, Istanbul

TURKEY

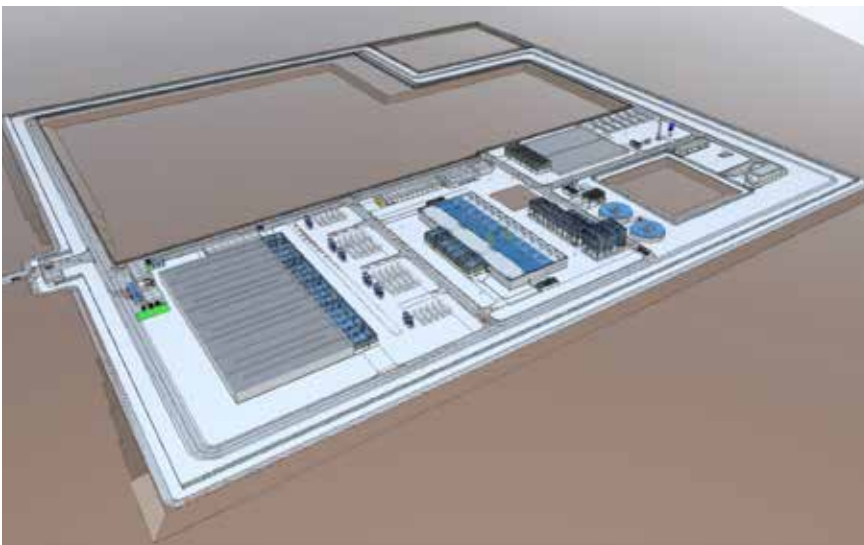
The Ataköy water treatment plant is located in the south-western part of Istanbul city, near to Atatürk International Airport. The scope of work includes the revamping of the existing plant that came in service in 2010 and the construction of a new WWTP having capacity 240,000 m³/d plus an MBR section sized for 20,000 m³/d. Total area for new construction is of 100,000 m².



2. #2 Lot of the Riachuelo system, Buenos Aires

ARGENTINA

The work will contribute to improve the severe environmental situation of the Matanza Riachuelo catchment area, with beneficial effects for the health and life quality of approximately 4.3 million inhabitants. The Riachuelo system will process up to a maximum of 2,332,800 m³ of waste water per day.



Zuluf

SAUDI ARABIA

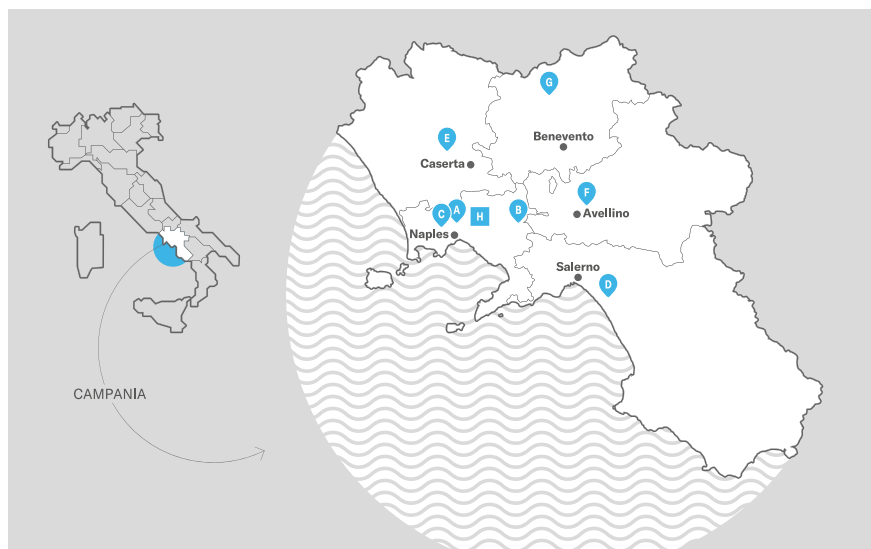
The project involves construction and management of a water treatment plant for the Zuluf onshore oil facilities. Located in eastern Saudi Arabia, approximately 6 kilometres west of the airport in Tanajib, the plant will treat, degas and filter water for iron and suspended solids at a maximum production capacity of 185,000 cubic metres per day.



SUSTAINABLE WASTE MANAGEMENT

Fisia Italmimpianti's experience ranges from design, build, commissioning and testing of plants to a specialized activity of operation and maintenance of the realized plants which are still in operation.

Specialized teams analyze and solve different problems occurred during plants life, such as materials corrosion, accidents investigation, equipment troubleshooting, performance optimization and improvements.



Campania integrated system for Municipal Solid Waste (Msw) Treatment

ITALY

Fisia Italimpianti led a consortium in charge of the design, turn-key realisation and operation of an integrated system for Municipal Solid Waste Treatment of Naples and the other Campania provinces (Avellino, Benevento, Caserta and Salerno).



Acerra

ITALY

Part of the integrated Waste Management Campania System, Acerra, the WtE plant is one of the largest in Europe, capable of disposing 600,000 tons/year of selected MSW. It generates 600 million kilowatt-hours per year of electric power, a quantity enough to satisfy the needs of 200,000 families.



Rennes Métropole waste-to-energy plant

FRANCE

The Rennes Métropole waste-to-energy plant treats 144,000 tons/year of waste and generates 31,000 MWh of electricity in addition to district heating for 20,000 homes. The plant modernization project will allow retaining its treatment capacity by spreading it over two new 9 tons/hr. lines. The new lines will be equipped with a dry fume treatment system.

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