

all
together

december

2018

news edition

TEMAK
TOTAL WATER SOLUTIONS

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Awards: Silver
Environmental Award

Projects in
Greece & Abroad

EDS Conference

03 CEO's message

04 Awards:
Silver Environmental
Award

08 Projects in Greece &
Abroad

16 EDS Conference

20 Exhibitions



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The world can ...do better

The peoples on Earth have, from ancient times, created elegant buildings, philosophy, sciences, arts, etc. that to this day represent a lighthouse for humanity.

They do not hesitate to travel, collaborate & be creative create across the whole of Earth, and even beyond our planet.

The countries of the 21st century, with inventive and wiser people bearing the experience of millennia in their DNA, are able to design, plan and implement accomplishments that will lead the world and humanity to a new Creative Age.

For this to happen, central governments (nations) must accelerate the necessary reforms for them to function peacefully, effectively and fairly, while at the same time we as citizens must put our best self forward for the common good.

We, as corporations and businesspeople must focus our attention on the welfare of the entire world, since this is nowadays our market, where we seek opportunities for our survival and growth.

May safeguarding the environment, having clean water and food, and peace and prosperity for all peoples be our primary concern, because the WORLD can...do better.

Merry Christmas
A Happy and Creative New Year



Herodes Mitsopoulos
Chairman of Board



Water Kiosk: An Award-Winning Sustainable Solution

In 2018, TEMAK was once again recognized for its work by receiving the Silver Environmental Award in the Sustainable Activities category for its Water Kiosks. The Environmental Awards are given for innovations that contribute to - and support - environmental protection and sustainability, while at the same time rewarding the contribution of businesses and organisations to society and the national economy. It is widely known that water in many areas of Greece is sourced from wells, natural springs or dams, and is unfit for human consumption owing to the old age or bad state of the distribution network, or due to the quality of the water itself.

48.100.000
fewer plastic bottles

(total saved between installation of the first system and April of 2018).



46,6%
lower power consumption

(6.4 kWh average power consumed for producing 1000 litres of potable water via a reverse osmosis water treatment system, against approximately 12kWh power consumed to produce 1000 litres of bottled water)

The severe stress on the environment caused by the 'easy' solution of consuming bottled water is already at the heart of worldwide discussions on replacing it.

TEMAK Water Kiosks: The Ultimate Solution for High Quality Potable Water

In this quest, TEMAK proposes an innovative, sustainable and totally environmentally-friendly solution: the TEMAK Water Kiosk, an automatic drinking water production and dispensing system. It uses the mains supply to generate clean, potable water for consumers, either free of charge or for a small price, depending on the water provider (local authority or utility).

The water produced is totally fit for human consumption, as per the applicable drinking water regulations (Directive 98/83/EC), and generally complies with all regulations in force at the time of installation of the units. It should be noted that more than 50 units have already been installed in Greece, with demand rising due to the units' recognizable benefits in islands such as, Andros, Syros, Mykonos and Kalymnos.

Water Treatment System Description

The expert staff of TEMAK investigate the prevailing conditions at the TEMAK Water Kiosk installation area and always propose the optimum solution.

The construction materials for the Water Kiosk are selected in order to display maximum resistance to the given conditions (such as high temperatures in summer, rain and strong winds in winter, highly corrosive conditions due to the often close proximity of the installed units to the sea).

Moreover, adhering true to the principles that guide all of TEMAK's activities, the system is designed so as to be totally autonomous and safe to use for both the operator and the environment.

The basic structure of the TEMAK Water Kiosk comprises a housing (kiosk), which contains all the required water treatment equipment to produce water in full compliance with European regulations on drinking water quality. The daily production capacity is 6.000 or 12.000 litres, depending on the model selected. The water treatment system in the housing is designed so as to be able, if so required, to treat raw water with conductivity of 10.000 $\mu\text{S}/\text{cm}$ or higher. The internal area of the TEMAK Water Kiosks is climate controlled in order to maintain excellent conditions for assuring the quality of the produced water and the longevity of the electronic, electrical and other equipment, as well as comfort for the operator.

The basic TEMAK Water Kiosk operation principle is reverse osmosis or filtration. The raw water to be

98%
fewer CO₂ emissions
to the atmosphere

(fewer CO₂ emissions per unit water generated for a reverse osmosis system versus the production of bottled water)



354 €

annual savings per consumer

(Purchase cost of water per person, based on a 3-litre daily per capita consumption at a cost of 10 Euro cents for 10 litres purchased from a Water Kiosk, versus buying a 1.5-litre bottle of water for 50 Euro cents)

treated is pumped and collected in a tank. It is then conveyed to the treatment system, which includes the pre-treatment stage, the main treatment stage utilising reverse osmosis membranes, and post-treatment, so that the produced water fully meets drinking water standards. The processed clean water is stored in a tank, where it is disinfected before being delivered to the consumer via the tap built into the TEMAK Water Kiosk, which is activated with the insertion of a coin or payment card. It is



worth mentioning that the system is designed in such a way that the user can very quickly and easily receive the desired water quantity, collecting it in his/her own vessel.

Technology that protects the environment

Several studies have conclusively shown that the application of TEMAK Water Kiosk technology protects the environment due to the significant decrease of CO₂ emissions to the atmosphere. Furthermore, it contributes to the reduction in environmental pollution caused by the disposal of plastic water bottles, which is highly detrimental, especially when the discarded bottles end up in the sea, thereby causing problems in the aquatic flora and fauna.

The TEMAK Water Kiosk is the ideal solution for delivering safe drinking water to consumers, is economically and totally safe to the environment, and represents one of TEMAK's many innovative projects offering sustainable and economically-viable development.

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Water Treatment System for the Hemodialysis of the Heraklion General Hospital «VENIZELIO – PANANIO»

LOCATION

Heraklion, Crete

PROJECT DELIVERY DATE

July 2018

PROJECT COMPLETION TIME

2 months

PROJECT DESCRIPTION

Complete water treatment system with double pass reverse osmosis with the ability of hot water (thermal) disinfection for the production of 1500 litres/hour of water to be used in hemodialysis, along with the construction of deionised water distribution loop made of material suitable for hot water disinfection, serving 20 hemodialysis

SUMMARY

Under the framework of an open national public tender, TEMAK was awarded the contract for the project of delivering a new water treatment system for the hemodialysis of the Venizelio-Pananio General Hospital in Heraklion, Crete. The hospital had previously installed and was operating an old hemodialysis system. The contract was completed as part of the hospital modernization programme, to provide the best possible water quality to its patients. The special feature of this project lay in the ability of the water treatment system to undergo disinfection using hot water (thermal disinfection), versus the conventional chemical disinfection method (using sodium hypochlorite or other disinfectants).





THE CHALLENGE

The thermal disinfection system should operate continuously without causing as much as a single day of interruption to the hemodialysis wing and sessions.

In addition, the timetable for delivery or such an innovative system for the Greek market was only two months.

CERTIFICATES

Certification according to Chapter V of Directive 93/42/EEC, concerning water treatment systems for the production and dilution of hemodialysis solutions.



«TEMAK is the only company in Greece that can manufacture and install reverse osmosis and deionised water systems employing thermal disinfection of the distribution loop.»

THE SOLUTION

The system consists of two reverse osmosis units in full 316L stainless steel construction, with hygienic type triclamp connections. All the main treatment stage equipment is made of materials that are resistant to temperatures of 85°C (high pressure pumps, membranes, membrane vessels, accessories, flowmeters, pressure gauges, pressure transmitters etc.).

The unit is equipped with a thermal disinfection CIP system which comprises a 316L stainless steel double-walled tank, with special thermal insulation to reduce heat losses, and roughness coefficient $R_a < 0,8$ micron to ensure the smoothest surface possible, thereby minimizing microbial growth in the pores of the tank walls. Furthermore, it contains a spray ball system for the water returned to the disinfection tank, so that the entire surface of its inner walls is covered, thereby reducing the possibility of microbial growth in blind spaces.

- The system was installed in a different area than the one originally intended.
- There was no shutdown or interruption of hemodialysis wing and sessions, which would have been impossible if the old system had to be removed and the new one installed (which would have required its shutdown for at least 15 days).
- The hospital kept the old system in reserve, as a back-up solution in case it is needed in the future.
- The unit is the first installed in Greece that is equipped with thermal disinfection of the reverse osmosis and deionized water distribution loop.

THE RESULT

1500 litres/hour of water for use in hemodialysis machines, of quality according to European Pharmacopoeia and AAMI (United States) standards, i.e. suitable for patient hemodialysis sessions without the presence of microbial infection.



Corfu: Design, Supply and Installation of a Brackish Water Reverse Osmosis Unit for the needs of a 5-Star Hotel

LOCATION

Hotel in Corfu

PROJECT DELIVERY DATE

December 2018

PROJECT COMPLETION TIME

Within 90 working days form contract award

PROJECT DESCRIPTION

Installation and commissioning of a Reverse Osmosis Desalination Unit producing 600 m³/d of potable water

SUMMARY

A new, fully renovated 5 star hotel in Corfu, by a group which owns two more hotel units in Halkidiki, with another hotel in Kos Island to be opened within 2019. The renovation of this hotel was one of the biggest investments in the tourism sector in 2018 (110 million Euro). TEMAK undertook the design, construction and installation of a Reverse Osmosis Desalination Unit for the needs of the hotel. The project was delivered within a very short timeframe, considering the capacity and design requirements of unit.

THE CHALLENGE

The water to be treated is sourced from 4 different wells owned by the hotel. The challenge for TEMAK was therefore to design, build, install and deliver

a fully operational water treatment unit, and do so in a very short time. The difficulties that were successfully overcome were mainly related to the contractual project delivery time, which was especially limited (the system had to be installed and fully functional within 90 working days from contract award), as well as the limited access to the machine room (as all equipment had to be lifted down by crane and then moved to the installation area with the help of many workers).

THE SOLUTION

- Delivery of a top quality reverse osmosis desalination system, producing 600 m³/d of excellent quality drinking water suitable for fully covering the needs of the hotel.
- High quality equipment was used for achieving optimum water quantity and quality, as well as specialist equipment for the safe operation of the system and its users.

THE RESULT

- High quality water suitable for all uses, which reflects the high standard of services offered by the hotel to its guests.
- Protecting equipment and prolonging its lifetime
- Maintaining clothing in excellent condition and prolonging its useful lifetime for many years.
- Reduction in washing powder and detergent expenses.
- Reduction in damage to the hydraulic equipment.



The Dodecanese: Supply of a Mobile Seawater Desalination Unit producing 300 m³/d of Potable Water

LOCATION

Municipality of Astipalaia Is. - The Dodecanese

PROJECT DELIVERY DATE

The system was started up in early August 2018

PROJECT COMPLETION TIME

Within 3 months from contract award

PROJECT DESCRIPTION

Desalination system installed in a 40-ft. container, producing 300 m³/day of potable water, together accompanying works (seawater well intake, drinking water pipeline, brine pipeline, concrete base for installing the equipment).

SUMMARY

Self-funded by the Municipality of Astipalaia Island, TEMAK undertook to complete the entire works for

a new Desalination Unit, including environmental permitting, for supplying potable water to the Maltezana settlement. The particularities of this project lay in the difficulty in drilling seawater, as well as the limited project delivery time.

THE CHALLENGE

The particular region was supplied with drinking water by a TEMAK Brackish Water Desalination Unit installed in 2014. Due to the drought suffered by the island in recent years, the well that was supplying the area deteriorated tenfold in water quality and could no longer yield water in the required quality and quantity. This not only stopped the supply to the settlement, but also caused frequent wear on the electromechanical equipment in homes and hotels. The challenge was to start-up the unit before the pick of the tourist season.

THE SOLUTION

TEMAK selected a suitable area for installing the plant, designed the entire system within a single container, and delivered it fully commissioned within just 90 days.

THE RESULT

The project benefited the residents as well as tourists in Maltezana, which is a tourist area with many hotels.





Iraklia Island: Seawater Desalination Unit Producing 300 m³/d of Potable Water

LOCATION

Municipality of Naxos and Minor Cyclades, Municipality of Iraklia, Iraklia Is. - Cyclades (Livadi location)

PROJECT DELIVERY DATE

October 2018

PROJECT COMPLETION TIME

3 months

PROJECT DESCRIPTION

Seawater Desalination Unit producing 300 m³/d of drinking water, installed in a building, under the framework of the 2014-2020 South Aegean Sea Operational Programme.

SUMMARY

While an energy-autonomous floating seawater desalination unit producing 70 m³/d - known as HYDRIADA - was installed in 2007, this was soon decommissioned, with the island being afterwards supplied through water tankers. The unit was installed in a covered area exceeding 100 m², specially designed in order to blend in with the natural environment, since Iraklia Island is a designated Natura 2000 area.

PROBLEM / CHALLENGE

The Problem:

- The island lacked a water distribution network, with water supplies through water tankers (only covering a part of the total needs).
- The cost of drinking water was 12€/m³, putting a financial burden on the national economy.

« TEMAK competitive advantage: know-how, number of reference projects, certifications, delivery time, quality of equipment. »

- A definitive solution to the water supply problem of Iraklia Island had to be given.

The Challenge:

- To deliver a fully operational unit as soon as possible in order to put an end to water supply through water tankers.
- To reduce the cost of drinking water to less than 1€/m³.
- To ensure a sufficient, continuous and uninterrupted supply of drinking water to all homes and businesses.
- To provide drinking water during the tourist season, to residents and tourists alike.
- To save financial resources for the national economy through reducing the costly dependence on water tankers.
- To improve quality of life for the island's inhabitants and tourists.

THE SOLUTION

Due to the difficulty in accessing the island, the unit is remotely monitored. In order to address the issue of prompt intervention, a local inhabitant was trained by TEMAK in monitoring the operation of the unit.

RESULT

Definitive solution for water provision to the island



Mauritius: Seawater Desalination System producing 500 m³/day of Potable Water for Rodrigues Island

LOCATION

Rodrigues Island (the smallest of the Maskaren islands, lying 560 km east of Mauritius Island in the middle of the Indian Ocean).

PROJECT DELIVERY DATE

November 2018

PROJECT DESCRIPTION

In cooperation with its local partner in Mauritius, TEMAK studied, designed, manufactured and installed a seawater desalination system producing 500 m³/day of drinking water according to WHO standards. The project may be expanded with an additional unit, also of 500 m³/day capacity.

PROBLEM / CHALLENGE

- Rodrigues Island faces a severe shortage in water for potable and general use. The population may have water for only a few hours in the day, and the nature of the island prevents the easy collection of natural water.
- Businesses in the industrial and tourism sectors in this region faced significant difficulties due to the lack of suitable water, which negatively affected their output and development respectively.
- The local administration of Rodrigues Island had experienced significant disappointment, having previously installed desalination systems by other suppliers which failed to provide potable water as contracted.



The challenge:

- To supply a desalination plant which could withstand the very harsh weather conditions in Mauritius.
- To supply and install the desalination plant within the strict deadline set by the tender.
- As Rodrigues Island did not cater for 40-ft. containers, the plant had to be customized for ease of transportation and site installation.

RESULT

Due to the excellent cooperation that has been achieved, the island's residents can enjoy an uninterrupted supply of safe, high quality drinking water. This project is particularly important, as it is evidence of TEMAK implementing its vision of being the ideal partner in water treatment solutions worldwide.



Maldives: Water Treatment Systems of 600 m³/day capacity for a new Tourist Resort

LOCATION

Maldives

PROJECT DELIVERY DATE

October 2018

PROJECT COMPLETION TIME

3 months

PROJECT DESCRIPTION

In cooperation with its local partner, TEMAK installed a water treatment system of 600 m³/day capacity in a new resort.

The system is composed of 2 separate Desalination plants of 300 m³/day capacity each, for the supply of drinking water according to international standards. This system was installed in order to cover the island's water needs, and provide potable water for the laborers and engineers during the construction phase. The particularity of the project was not only to withstand the harsh tropical conditions of the Maldives, but also to be fitted in the dedicated restricted space.

PROBLEM / CHALLENGE

The Problem:

There is no natural water source on Maldives Island, and thus the only solution is installing a desalination plant.

The Challenge:

- Study and design of a customised solution

according to the customer's needs, which must fit in the limited allocated space

- Design a highly reliable system suitable to withstand the harsh tropical conditions of the Maldives
- Tackle the difficulties concerning the delivery of the RO skids to the port and inland transportation and installation.
- Honour the agreed delivery timetable.

SOLUTION

- Integrated seawater desalination systems
- Unique design to maximize lifespan of installed instruments
- Unique design to avoid any leakages and corrosion in the system

RESULT

- Full coverage of needs by providing high quality of drinking water to workers during the construction of the tourist resort.
- The owner installed a water desalination system ensuring excellent water quality for operation of the tourist resort with the lowest possible operating cost.
- TEMAK enhanced its competitive advantage, but also the reputation for its know-how, since it has already put in place several installations in this area, confirming the excellent cooperation with the trusted and experienced local partner.



Kuwait: Three Desalination Systems for a Hospital

LOCATION

Kuwait

PROJECT DELIVERY DATE

November 2018

PROJECT DESCRIPTION

In cooperation with its local partner in Kuwait, TEMAK undertook the project for the Kuwaiti Ministry of Health of installing three specialized desalination systems of Purified water for Hemodialysis to cover the needs of a large hospital.

- 1) Water production system suitable for laboratory use with thermal disinfection, capacity 24 m³ / day. Feed water: 500 μS / cm | Product water: <1 μS / cm
- 2) Water production system suitable for hemodialysis with thermal disinfection, capacity 35 m³ / day. Feed water: 500 μS / cm | Product water: <2 μS / cm /AAMI STANDARD
- 3) Water Treatment System with Reverse Osmosis method for steam production, capacity 66 m³ / day. Feed water: 500 μS / cm | Product water: <30 μS / cm

CHALLENGE

- Design a system which eliminates entirely the use of chemicals
- Compliance to the very strict specifications of the tender
- Limited time for design, manufacturing, installation and commissioning of all offered plants

« More and more companies worldwide trust TEMAK's expertise and experience of implementing superior quality hot water sanitizable water purifications plants »



SOLUTION

TEMAK as a leading company in producing and installing hot water sanitizable water purification plants, gave a solution with disinfection by using the hot water to desalination membranes and to the deionized water recirculation network, without the use of chemicals.



EDS conference in Athens

TEMAK, being the MAIN sponsor, took centre stage at the International Water Conference (Desalination for the Environment Clean Water and Energy) which was held for the first time in Athens on 3-6 September 2018 at the Divani Caravel Hotel.

The conference is held annually in major cities in Europe and the Middle East, bringing together scientists, design engineers and operators from water companies, consulting firms, research institutes and universities presenting the most recent developments in desalination technology.

The conference was inaugurated by the Deputy Minister of Shipping, Mr. Nektarios Santorinios, who is also responsible for the installation of desalination plants in the Greek Islands of the Aegean and the Cyclades.

This was followed by the speech of Mr. Zois Kologios, General Manager of TEMAK, and of important EDS executives, who also welcomed the participants.

During the conference, TEMAK presented the internationally awarded innovative and environmentally friendly solution: "Autonomous reverse osmosis (RO) desalination system powered by a small photovoltaic (PV) system at an isolated Greek Islet- The Strongili Island Project". This application has been working well for four years and has finally resolved the issue of water supply on Strongili Island.

Miriam Balaban, General Secretary of the European Desalination Society, Editor-in-Chief of Desalination and Water Treatment, founder of the European Desalination organization and head of the Conference honoured TEMAK with the following letter.

Speech of Mr. Nektarios Santorinios, Greek Deputy Minister of Shipping

Welcome & Opening of the conference

Mr. Nektarios Santorinios declared the opening of the European water conference proceedings and among other mentioned the following:

{..} The management of water treatment through desalination is the only solution to the major problem of lack of basic water infrastructure in the islands. Especially, in the small islands, where the water autonomy issue is of great importance, since the lack of drinking water and basic infrastructure in relation with the islands' water supply make these areas of reduced potential development creating thus, an environment of dissimilar living conditions for the residents.

The central political target of the Ministry is firstly the autonomy of the Aegean islands, and then of the rest areas, with regard to the water issue.

We ought to stop this archaic situation - and I refer to the water transportation by boats/aquifers which was presented from some people as a solution thus far

If we wish to claim that we are planning not only to take advantage of the islands' tourism but also to upgrade the quality of life of the citizens, we are obliged to ensure modern water facilities with appropriate desalination plants, in order to set the requirements that will upgrade the living conditions



and development of our islands.

The fact that the existing offered technological development, in the water treatment area, meets our political will for the assurance of the complete water autonomy in our islands, creates the belief that we will soon manage to change the development prospects of our islands and to overcome the daily difficulties our islanders face.{..}

letter of Ms Miriam Balaban, General Secretary of European Desalination Society (EDS)

from athens to athens

TEMAK is helping fulfill the dreams of early founders of the European Desalination Society by establishing a productive worldwide industry for the purification and production of water for a growing world population and in the face of climate change.

It was in 1962 in Athens when Professor Delyannis initiated the Working Party on Fresh Water from the Sea in collaboration with the European Federation of Chemical Engineering (EFChE). The board consisted of one or two members from each European country.

The vision of Professor Delyannis was that desalination science and technology would help provide water to growing populations and diminishing water sources around the world and that representatives of relevant researchers and engineers should meet together to exchange information and boost knowledge which could lead to fruitful and beneficial advances. Professor Delyannis organized the first international conference on Fresh Water from the Sea in Athens in 1967 where foremost scientists and engineers met to exchange information on advances and ideas about their research and development in the field of desalination.

This conference and 5 more were held by the Working Party (Dubrovnik 1970, Heidelberg 1973, Alghero 1976, Las Palmas 1978 and Amsterdam 1980). The Proceedings were edited by Dr. Emmy Delyannis. In 1993 the Working Party became the European Desalination Society (EDS) enabling individuals and companies to become members. Future conferences were held in 3 series:

Desalination for the Environment
Euromed – Cooperation between North and South Mediterranean countries
Membranes in Drinking and Industrial Water Production

Proceedings of over 100 conferences of EDS and others were published in journal, Desalination of which I was the founding Editor followed by many more in the journal Desalination and Water Treatment.

The science and industry of desalination and water treatment have matured and expanded into a major industry with ever evolving technologies, especially seeking lower energy requirements and cost. These traditions and aspirations are still continuing and science, research, innovation to industry to business have today become the trends of the desalination and water treatment fields. Desalination has grown from 300,000 cum/yr to 100 million cum/yr. Wider applications of science and engineering have been developed and constantly introduced.

TEMAK is at the forefront of these technologies and their application. I am impressed with TEMAK's team and its accomplishments {...}.



speech of Mr Zois Kologgios,
General Manager of TEMAK

TEMAK worldwide

Our company attends EDS conferences for more than 20 years, applying developments in all desalination sectors and integrating new ideas and solutions in the systems TEMAK designs, manufactures, installs and supports.

TEMAK team believes and focuses on the value of water for humanity and as the main sponsor of this conference, recognizes and supports the great job that Miriam and EDS do all these years.

TEMAK has installed desalination systems up to 2000 m³/day in Greece, however since 1990 TEMAK has developed a remarkable knowhow. Therefore we are able to design, manufacture, produce and install systems with higher capacity in countries all over the world.

We gathered here for these three days in order to add something in the evolution of water science and technology {...}



participation at the **IFAT** exhibition

IFAT - The World's Leading Trade Fair for Environmental Technologies boasts a high international presence and an impressive number of exhibitors and visitors. TEMAK S.A. made its first participation with a stand and was approached by decision makers, owners, consultants, contractors and technical companies.

The four-day event (14-18/5/2018) was crowned with great success by establishing new ventures for TEMAK in new markets.





participation at the **WETEX** exhibition

As a participant for 6 year running at the Water, Energy, Technology, and Environment Exhibition (WETEX) held during 23-25/10/2018 in Dubai, TEMAK strengthened its presence in the Middle East market.

Our outstanding presence, at the fair gave confidence to our visitors of TEMAK being their ideal partner.



participation at the **POSIDONIA** exhibition

Over nearly 50 years the international shipping community has been coming together at Posidonia the home of Greek shipping and TEMAK participated in the International Shipping Exhibition held in Greece between 4th and 8th of June 2018.

TEMAK through its vast know-how offers high quality products and services to the highly demanding shipping industry.



participation at the **XENIA** exhibition

Maintaining its dominant position in the Water Treatment Market, TEMAK exhibited at the XENIA 2018 exhibition, held on 24-26 of November at the Metropolitan Expo in Spata.

TEMAK's experienced and skilled staff presented integrated and responsible solutions for delivering clean, drinking and general uses water to tourism, catering and residential sectors.



Clean Water means LIFE!



46 years

26 countries

600.000
m³/day

Thank you
for your Trust!

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