



INEXA

Environmental Technologies & Engineering



INEXA AQUA SERVICES

DESALINATION INDUSTRY IN THE CANARY ISLANDS

VALUE PROPOSAL

INEXA MILESTONES

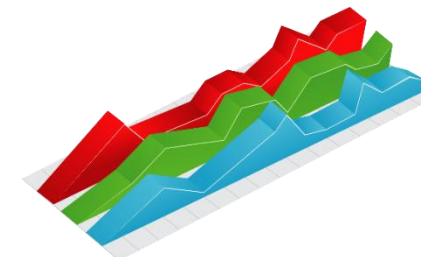
WHAT CAN WE OFFER

BUSINESS ACTIVITIES

KEY PROJECTS



www.inexa.es

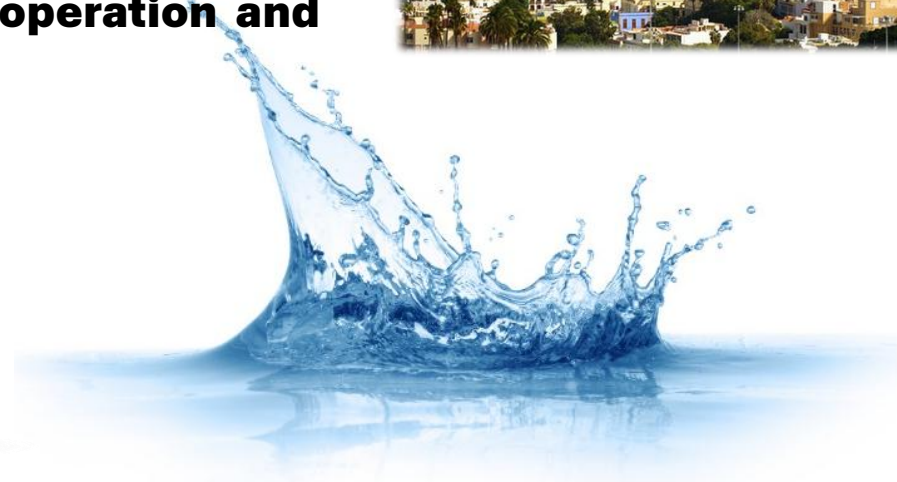
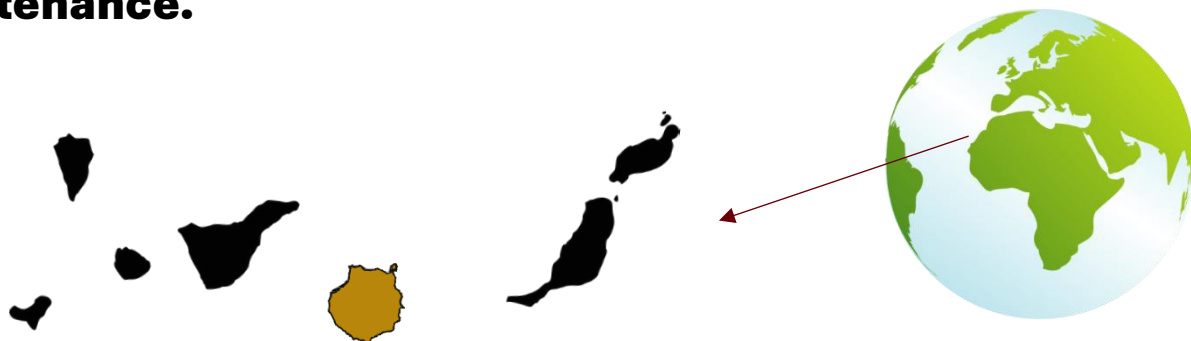


1.- The first desalination plant installed in Spain was in Lanzarote in 1964. A MSF (Multistage flash distillation) plant of 2,500 m³/d.

2.- Nowadays the total capacity of desalination of the Canary Islands adds up to 588,057 m³/d. Being one of the regions of the world with the highest percentage of desalinated water produced per capita.

3.- Gran Canaria is the island with the highest number of installations of all technologies. The most used technology is clearly the Reverse Osmosis (RO).

4.- In the Canary Islands there is a big number of well trained engineers and technicians with more than 25 years of close experience in operation and maintenance.



INEXA is an associated group of companies founded in 2002 in the Canary Islands, Spain.

By integrating our commercial, technical and environmental specialists, associates companies and partners, we provide a fully integrated engineering and consulting services to our clients :

- **Our professionals have experience in desalination projects that include all phases of a Project, from process development, mechanical, electrical, marine, civil and structural design, plant control, permitting and other related services.**
- **We design our plants with strategic factors such as energy consumption, chemical consumption etc. In fact INEXA has pioneered the market , being one of the first companies to include in its ISO9001:2015 quality certificate the specific activity of Energy Auditing in Water Treatment and desalination Plants. We have been executing Energy Efficiency Projects since 2006.**
- **In the past years, we have also gained extensive experience in promoting PPP projects understanding the key commercial factors and assisting the clients and lenders in the private and public sector.**
- **We consult new investors interested in becoming key local actors in the desalination industry by providing them the optimum strategies for the engineering and procurement.**



OUR MISSION

To empower international contractors with world-class engineering services and qualified manpower, enabling them to execute projects with less cost, less risk, and less friction — anywhere in the world.



Reliability

Trusted partner from tender to execution



Innovation

Modular engineering & AI-driven processes



Global Reach

Operating across borders, delivering locally

OUR VISION



To become a global operator providing engineering solutions and specialized manpower to international contractors — starting with water and desalination, and expanding into every sector where we can add value.



Water & Desalination

Our proven core sector —
the foundation of everything



Biogas & Energy

Already expanding into
new industrial sectors



Multi-Sector Global

Wherever contractors need
qualified engineering support

OUR VALUES

The principles that guide every decision we make



EXCELLENCE

We deliver the highest quality engineering in everything we do. No shortcuts.



COMMITMENT

When we take on a project, we own it completely. Our clients can count on us.



TEAMWORK

We are stronger together. Every person on this team matters.



INNOVATION

From modular engineering to AI tools, we constantly seek better ways.



INTEGRITY

We do what we say. Transparency and honesty in every relationship.



AMBITION

We think globally. We are building something extraordinary from the Canaries.

INEXA MILESTONES



2026

Global Engineering & Field Services Providers
Morocco, USA, China, Netherlands & Portugal

2016-2025

ISO9001:2015 Certificate. Consolidates as main consultant on international SWRO desalination projects (Spain, Ecuador, KSA,UAE, Morocco). SWRO Desalination Project of 240,000 m3/d

2009-2016

Consolidates as a RO plant manufacturer and medium size EPC contractor. Canary Islands, Cape Verde, Morocco & Bahrain. SWRO Desalination Project For ASRY shipyards.

2005 - 2009

The INGENIATEC SYSTEM is developed. Testing facilities in “Playa de Vargas”, Gran Canaria. Consolidates as equipment integrator. With projects in the Canary Islands, Cape Verde & Morocco. Launch is system ECOBOMBA and innovates in Energy Audits for SWRO Desalination Plants.

2004

Specializes in water treatment and desalination related projects.

2002

Provides Industrial Engineering Services



WHAT WE CAN OFFER ?

**BUSINESS
DEVELOPMENT**

**PROJECT
MANAGEMENT**

**ENGINEERING /
CONSULTING /
FIELD SERVICES**

**DUE
DILLIGENCE**

**OPEX
OPTIMIZATION**

**BASIC
ENGINEERING**

**PROCUREMENT
SERVICES**

**DETAILED
ENGINEERING**

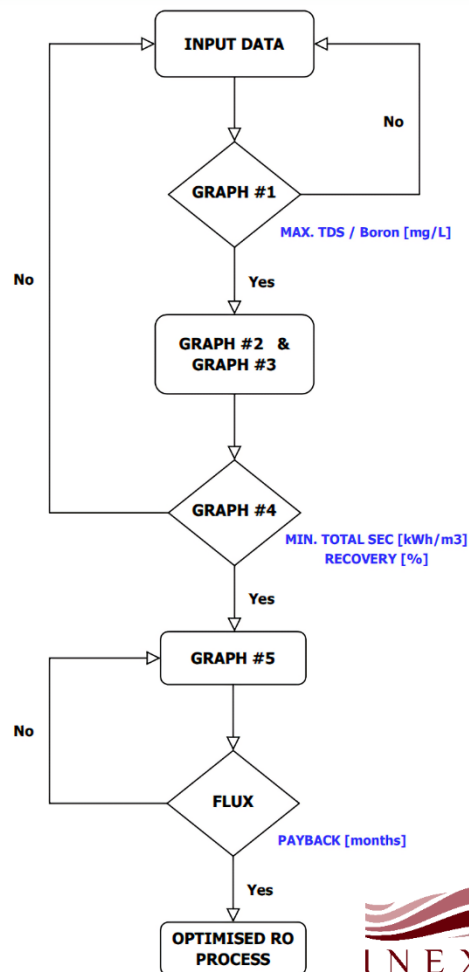


***“More than 20 years to
service the water”***



WHAT WE CAN OFFER ?

ROPTIMAX Flow Chart



“OPTIMIZATION FOR DESIGN & PERFORMANCE”

PRESENTED IN TWO INTERNATIONAL VENUES :

1.- INTERNATIONAL CONGRESS OF AEDYR GRANADA (SPAIN) – JUNE 2023

2.- AFRICA WATER FORUM (RABAT - MOROCCO) – OCTOBER 2023

Optimization Methodology SWRO Desalination Plants

BUSINEES ACTIVITIES

ISO 9001

BUREAU VERITAS
Certification



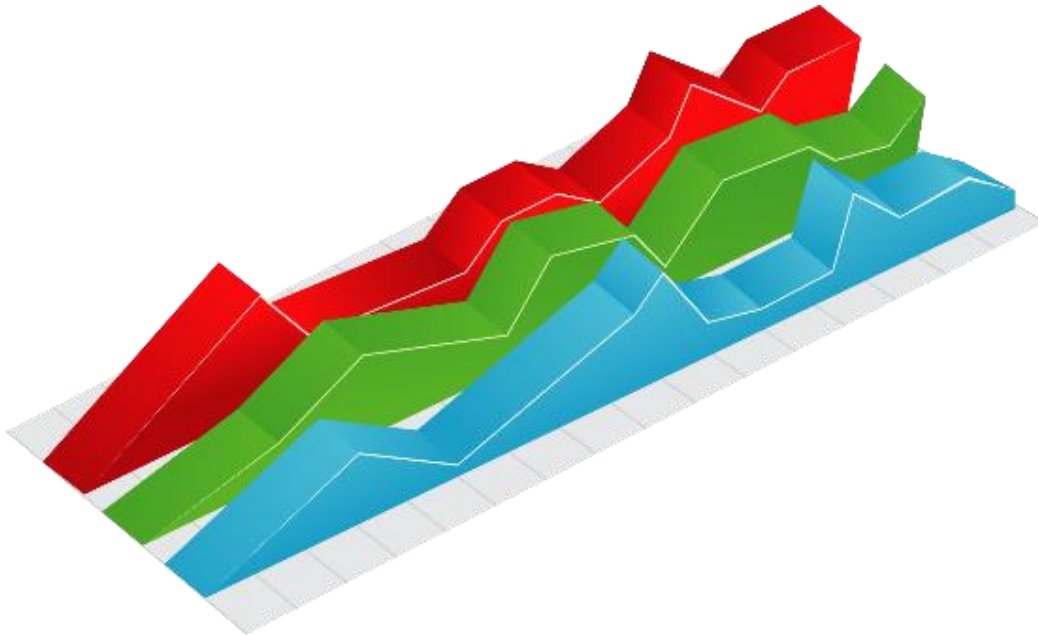
Feasibility Studies

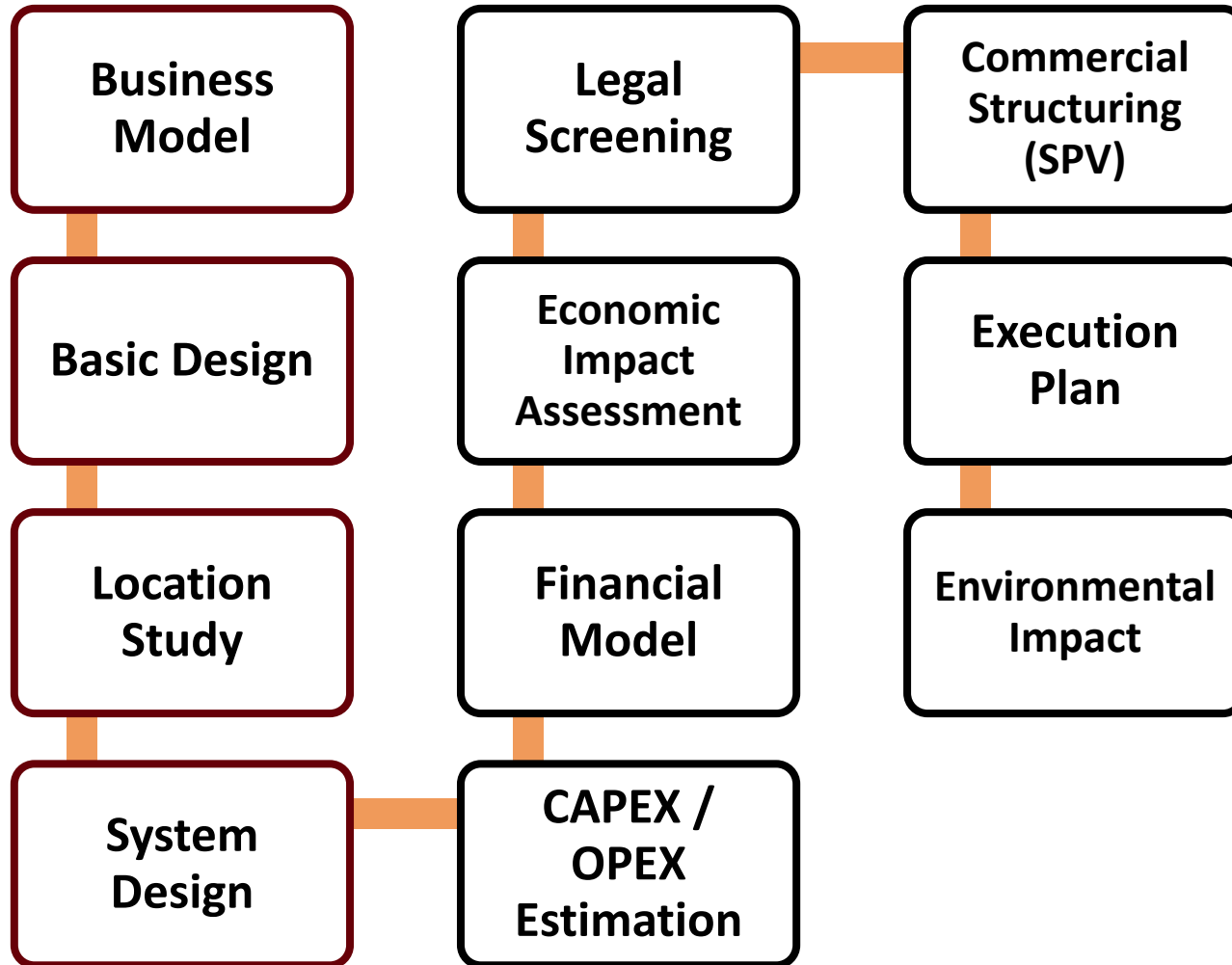
Engineering Services

Project Management

O&M Services

Energy Audits





- **INVESTMENTS ANALYSIS & EVALUATION**
- **PPP CONTRACTS**



1.- Process Engineering

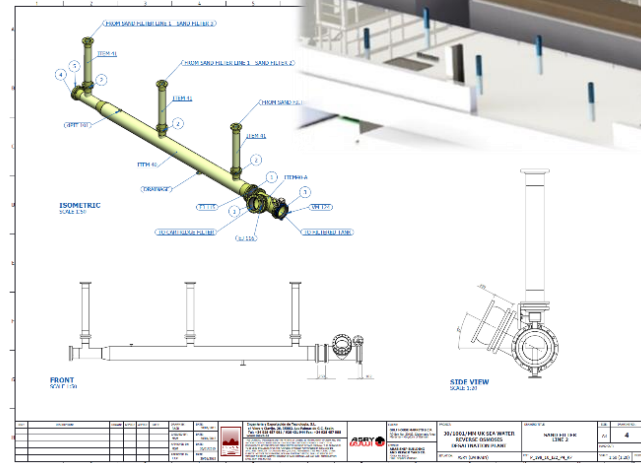
- Process Flow Diagram (PFD)
- Piping & Instrumentation Diagram (PI&D)
- Process Design Basis & Design Criteria
- Control Philosophy

2. Mechanical Engineering

- Equipment Design
- Hydraulic & Flow Design
- 3D Modelling & Drafting (Solidworks, Inventor, AutoCAD Plant 3D)
- IFC (Issued for Construction) Drawings
- Data / Specifications Sheets

3. Electrical, I&C Engineering

- Electrical Equipment Design & Engineering
- PLC / SCADA developing



DIGITALIZATION

INEXA delivers a unique combination of open-source technologies and embedded artificial intelligence to create sustainable, cost-effective digital solutions that provide:

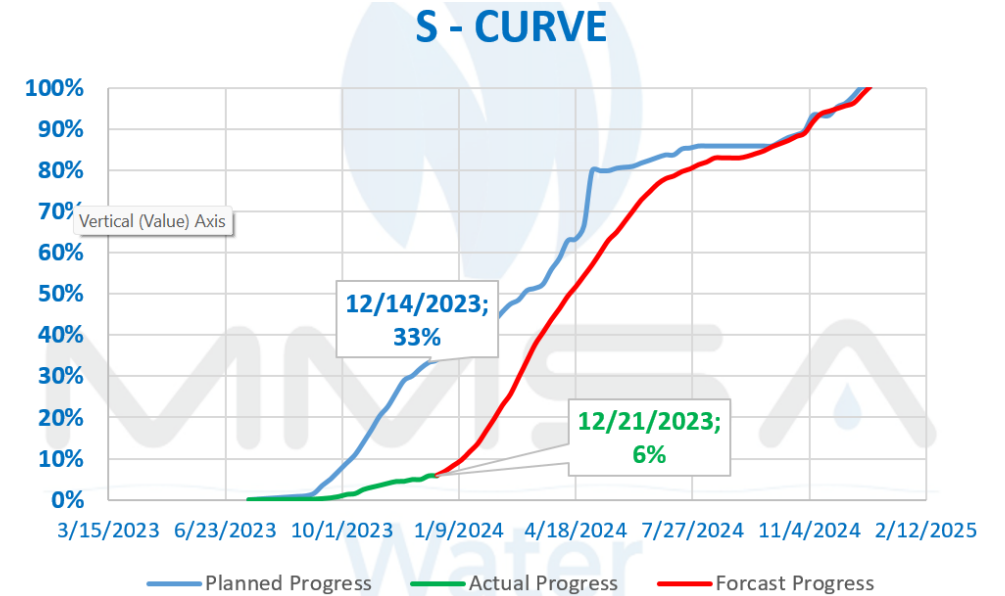
- **Freedom from Vendor Lock-In: Own your data, workflows, and future**
- **Exceptional Cost Savings: Up to 70% reduction in software costs compared to proprietary solutions**
- **Seamless Scalability: Grow from 10 to 10,000 users without prohibitive cost increases**
- **Complete Customization: Tailored solutions for your specific industry needs**



- **Work Breakdown Structure Design (WBS)**
- **Project Team Organigram**
- **RFQs, Vendor Adjudication, Vendor Selection**
 - **Vendor Matrix**
 - **Vendor Optimization by disciplines and areas of expertise.**
 - **Vendor's Market Evaluation**
- **Project Costing**
 - **Budgets,**
 - **Cost centres,**
 - **Payment schedules (MS Dynamics)**
- **Project Execution Plan & Schedule (MS Projects / Primavera)**
- **Commissioning Plan & Schedule**
- **Risk reviews, Hazard and Operability Studies (HazOp)**
- **Health, Safety & Environment Planning**



LLI > 24 weeks				
WBS				
		Procurement	Procurement	Procurement
Treatment		X		
RO Feed Pumps				
RO Feed Pumps	Pump Set	S1		
RO Feed Pumps	Mechanical Skid		S2	
RO Feed Pumps	I&C		S2	S3
Cartridge Filters				
Cartridge Filters	Equipment	S6		
Cartridge Filters	Mechanical Skid		S2	
Cartridge Filters	I&C		S2	S3
RO Skids				
RO Plant	RO Membranes	S7		
RO Plant	RO PV skids		S8	
RO Plant	HP Spools		S8	
RO Plant	HP Valves		S8	
RO Plant	HP Pump + HP booster + LP booster	S1	S9	
RO Plant	ERD + skid	S10		
RO Plant	I&C		S2	S3



Field Services

- **Manpower**
- **O&M**
- **Due Dilligence**

**ACTIVITY INCLUDED IN
ISO9001:2015**



- **Optimization of :**
 - **Work procedures (WP)**
 - **Statement of Works (SOW)**
 - **Work Log sheets**
- **Maintenance Manuals & Schedules**
- **Spare Parts Management & Optimization**



BUSINEES ACTIVITIES

1.- Expertise in Energy Audits and efficiency studies for Water Utilities.

2.- Feasibility studies for savings in costs.

3.- Improvements in operation and efficiency in pumping systems.

Energy Audits

- **Energy efficiency improvement services**
- **Optimization SWRO Desalination Plants**

Energy Performance Services (ESCO)



BUSINESS ACTIVITIES

Sea Water Reverse Osmosis Desalination Plants



Energy Audits

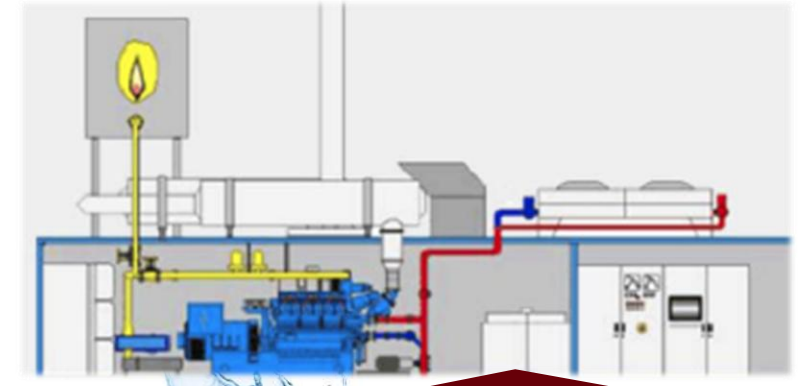
- **Energy efficiency improvement services**
- **Optimization SWRO Desalination Plants**



Thermodynamic Technology for efficiency measurement acc. ISO 5198



WasteWater Treatment Plants: cogeneration (CHP), biogas

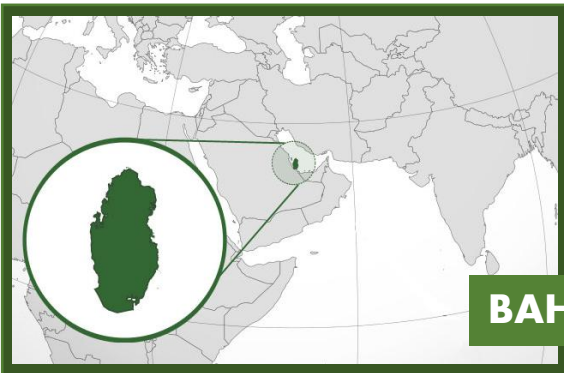


KEY PROJECTS

BAHRAIN: Design, construction, and commiss. of a SWRO plant 3,500 m³/d for a shipyards.



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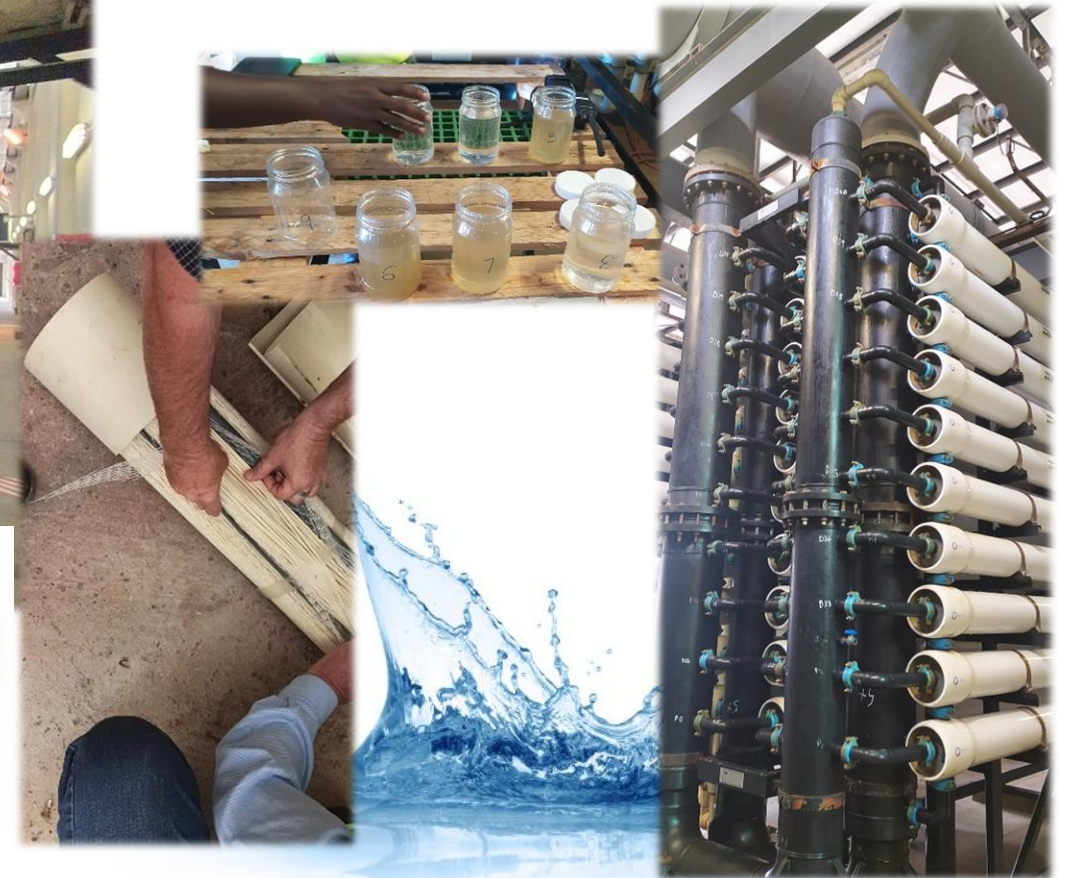


BAHRAIN



KEY PROJECTS

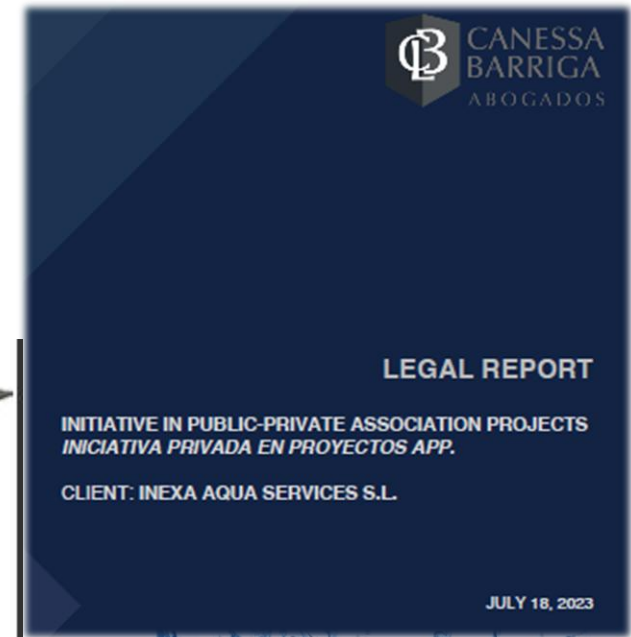
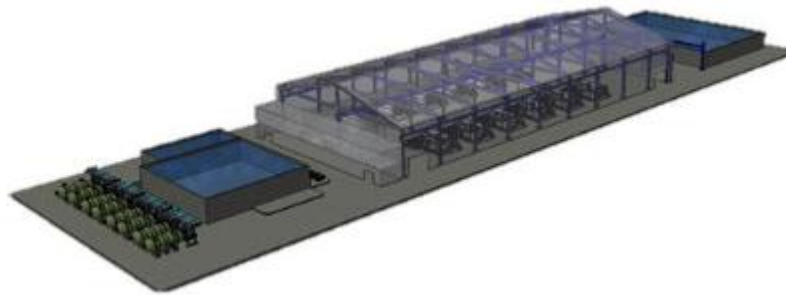
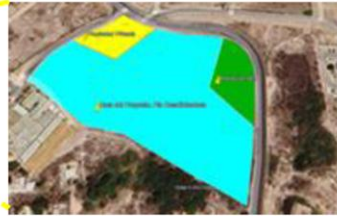
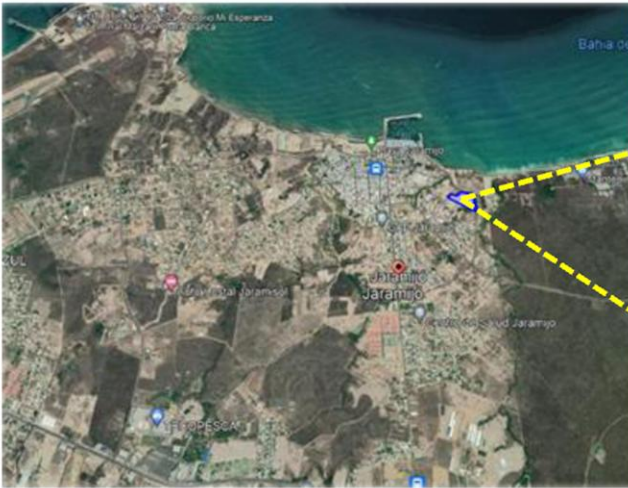
NAMIBIA: Technical Due Dilligence of a SWRO plant 50,000 m3/d for mining / residential.



NAMIBIA

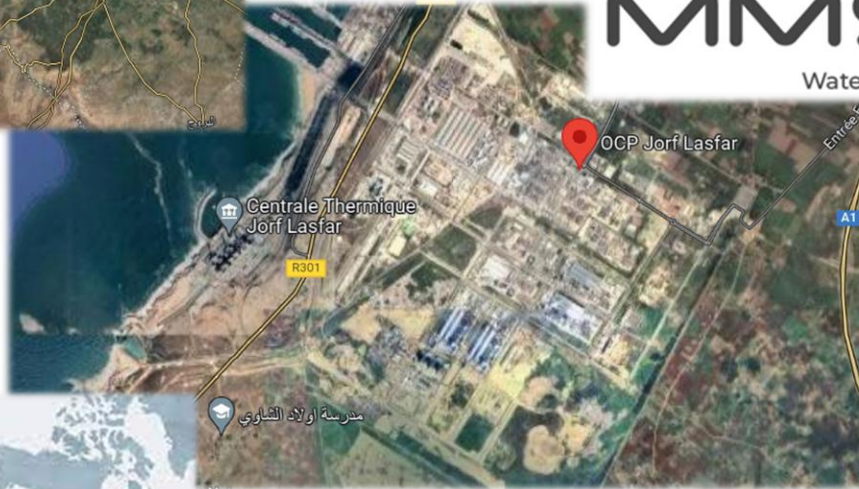
KEY PROJECTS

ECUADOR: PPP promotion of a SWRO plant 15,000 m³/d for industry / residential.



KEY PROJECTS

MOROCCO: Consulting for Engineering, Procurement & Supply of a SWRO plant 240,000 m³/d



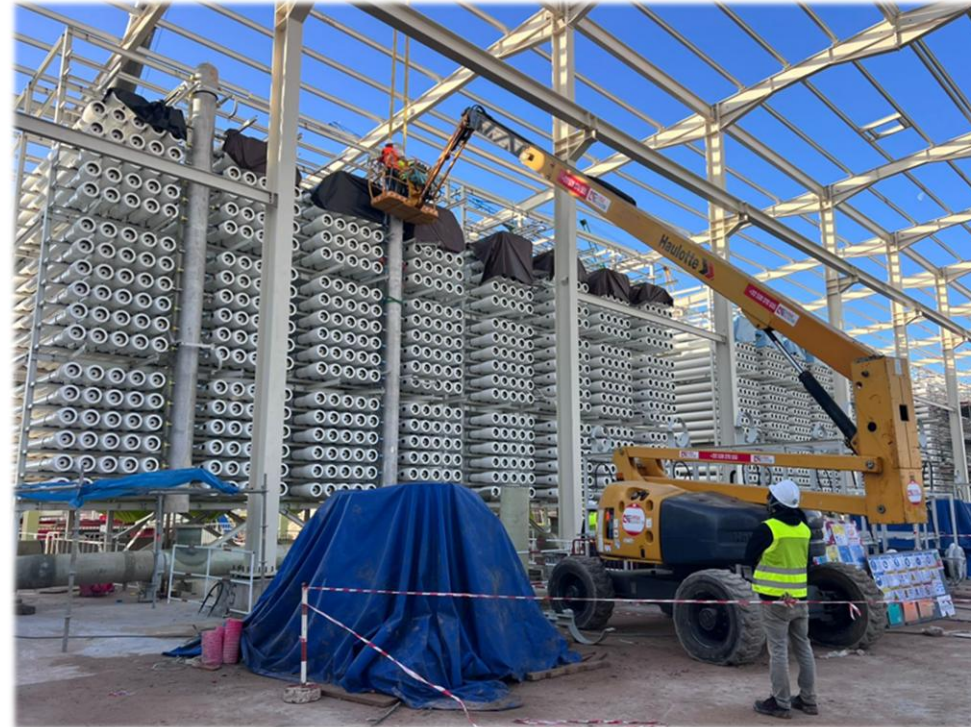
JESA



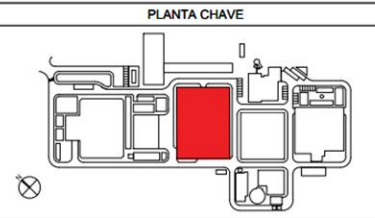
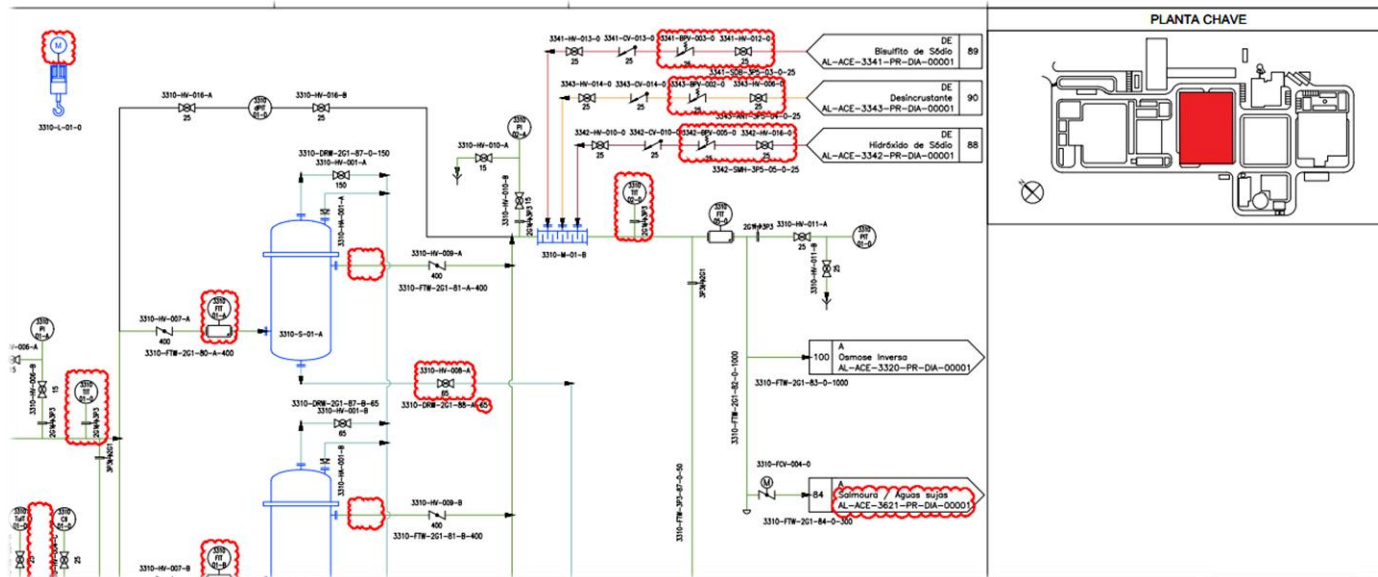
MOROCCO

KEY PROJECTS

MOROCCO: Field Services (Engineers & Skilled labor) for SWRO plant 580,000 m³/d

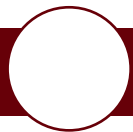


PORTUGAL: Consulting Services for the construction of SWRO plant 45,000 m3/d



PORTUGAL





Thanks for your interest



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ISO 9001

BUREAU VERITAS
Certification



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