



# **Hormoz Abdal Water Supply Company**

Affiliated with the Energy Supply Development Management Holding

Registration No.: 1900    National ID: 14006445762

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Affiliated with the Social Security Investment Company





**Taha: A Sustainable  
Solution for Future  
Water and Energy**

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## Message from the CEO

Today, we live in a world where water and energy are not only vital resources but also the foundation of sustainable development and societal well-being. Scarcity of resources, climate change, and increasing demand make our country more than ever in need of scientific, sustainable, and efficient solutions. Hormoz Abdal Water Supply Company (Taha), relying on cutting-edge engineering knowledge, valuable managerial experience, and a team of skilled professionals, views its mission as more than merely executing projects. Our purpose is to create reliable, sustainable, and innovation-based infrastructures that meet the needs of both today and the future. We believe that only by combining knowledge, technology, and social responsibility can we achieve a secure and sustainable future. Accordingly, Taha is committed to upholding the highest standards of quality, safety, and sustainability in all projects, from feasibility studies to design, implementation, and operation.

Our vision is for Taha to be recognized not only as a contractor and project executor but also as a trusted partner, a reliable advisor, and a pioneering force in Iran's and the region's water and energy industry.

We are here to prove that with determination, expertise, and innovation, a brighter future for Iran and future generations is achievable.

I am grateful for the trust of all our shareholders, clients, and colleagues, and I firmly believe that together, we will navigate the path ahead with strength and pride.

— Mohsen Zandi, CEO



# About the Company

Hormoz Abdal Water Supply Company (Taha), as a subsidiary affiliated with the Energy Holding of the Social Security Investment Company, began its operations in 2016 with the mission of promoting sustainable development in the water and energy sectors. Leveraging cutting-edge technical knowledge, managerial experience, and a team of skilled professionals, the company has established a prominent position in the industry through its expertise in the design and implementation of water and wastewater treatment plants, water recycling and recovery, groundwater resource studies, as well as the construction of hydropower and solar power plants.

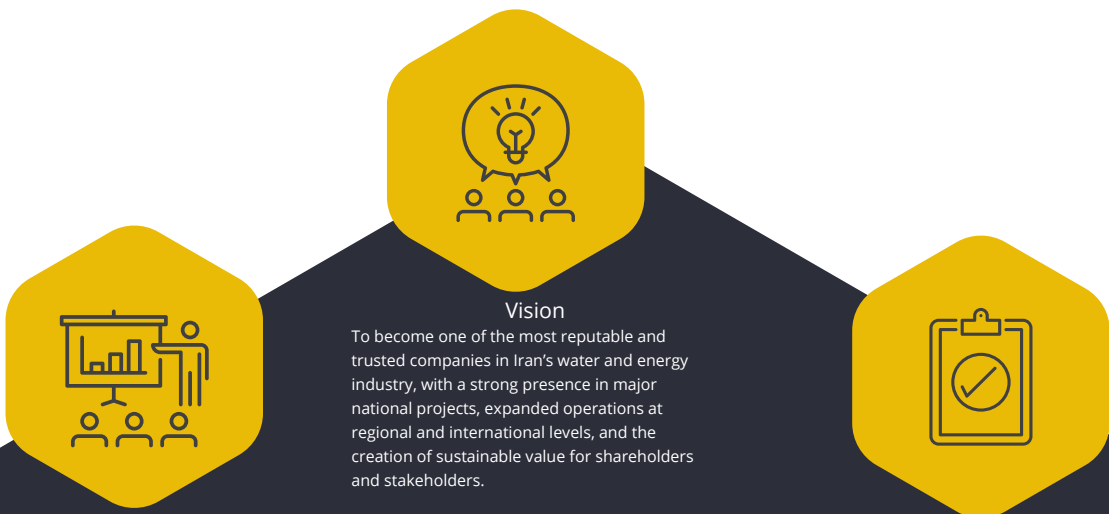
Taha is continuously committed to providing innovative and sustainable solutions, playing a key role in supplying water and energy resources for industries and communities, while aiming to secure a significant share of both domestic and regional markets.

# Strategy and Mission

Lorem ipsum

## Hormoz Abdal Water Supply Company (Taha)

The strategy of Hormoz Abdal Water Supply Company (Taha) focuses on sustainable and innovative development in the water and energy sectors, emphasizing efficiency, trust, and reliable resource provision for both present and future generations.



### Vision

To become one of the most reputable and trusted companies in Iran's water and energy industry, with a strong presence in major national projects, expanded operations at regional and international levels, and the creation of sustainable value for shareholders and stakeholders.

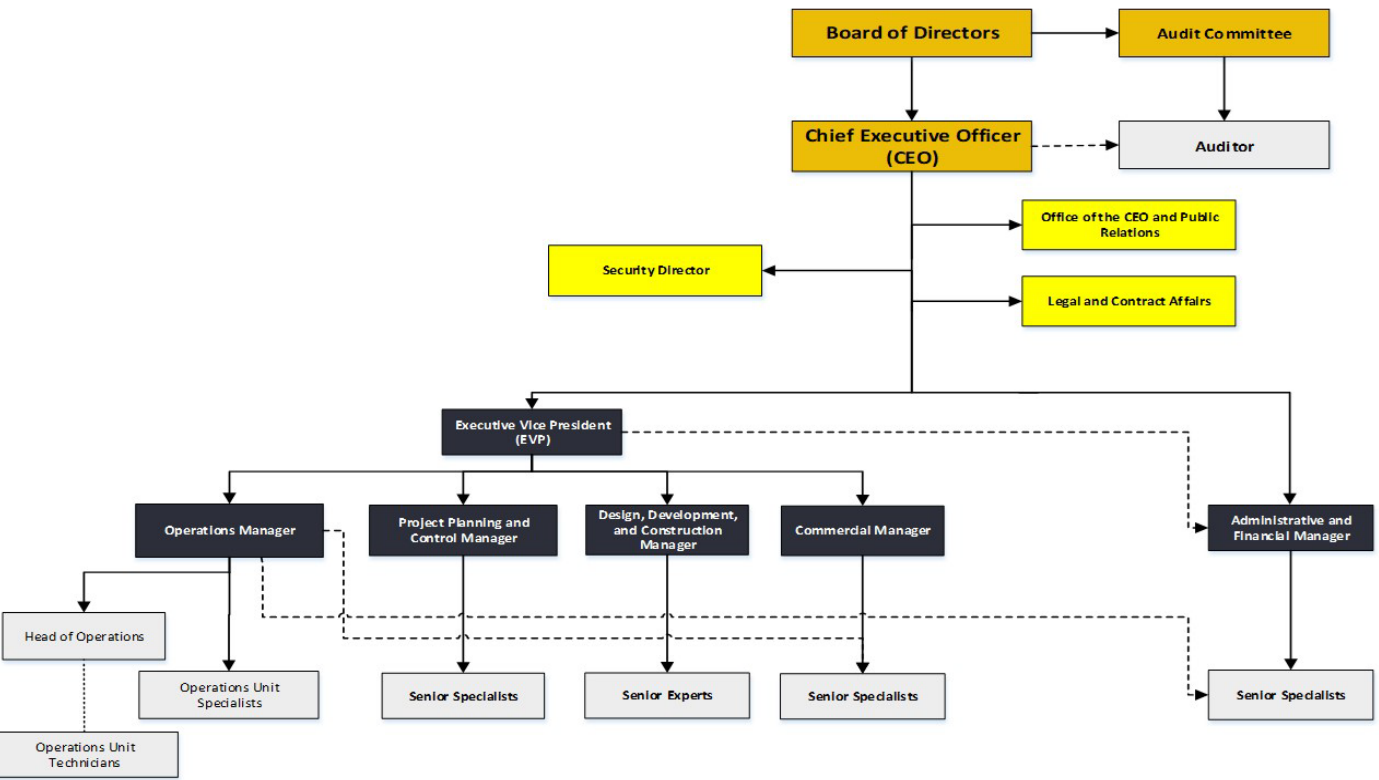
### Core Values

- Commitment to Quality – Delivering services in accordance with the highest engineering standards.
- Innovation and Continuous Improvement – Applying cutting-edge technologies in the water and energy sectors.
- Transparency and Integrity – Upholding honesty in all organizational and business interactions.
- Sustainability and Social Responsibility – Protecting natural resources and supporting sustainable development.
- Human Capital Development – Educating, empowering, and nurturing skilled professionals.
- Customer Focus – Prioritizing the needs and long-term satisfaction of our clients.

### Mission

To provide comprehensive and sustainable solutions in the fields of water, treatment, and hydropower energy, leveraging engineering, managerial, and operational expertise, with the aims of:  
Ensuring reliable water and energy resources for industries and communities  
Successfully executing national and regional projects  
Supporting the country's sustainable development efforts

# Organizational Chart



# Water Services

1

## Assessment and Analysis of Water Resources in Industrial Complexes and Providing

In the current context, where the country's water resources face significant limitations, optimal water consumption management and sustainable supply for industrial complexes have become indispensable. The company's objective is to identify available resources, assess utilization levels, and analyze consumption patterns within industrial units, enabling the development of scientific, practical, and sustainable solutions to meet their water needs.

2

## Water Recycling and Recovery to Enhance the Efficiency of Existing Resources

Given the decline in renewable water resources and the increasing demand across industrial, agricultural, and urban sectors, the reuse of wastewater and implementation of water recycling processes have emerged as one of the most effective strategies for sustainable water resource management. Water recycling and recovery not only reduce pressure on freshwater sources but also enable the reuse of water within industrial cycles, thereby enhancing efficiency and lowering operational costs.

3

## Groundwater Studies and Sustainable Water Management

Groundwater, as one of the primary sources for drinking, agricultural, and industrial water supply, plays a vital role in the sustainable development of communities. However, over-extraction, reduced rainfall, and climate change have severely threatened the balance of these resources. Therefore, conducting comprehensive groundwater studies and adopting sustainable management approaches is considered a strategic necessity.

4

## Engineering of Water Supply, Transmission, and Sustainable Resource Management

In a context where water scarcity has become a critical challenge for countries and industries, applying engineering approaches for the supply, transmission, and management of water resources is essential. The goal of this approach is to balance growing demands with limited available resources and achieve a sustainable model for optimal water utilization.

5

## Comprehensive Technical and Engineering Design & Consulting Services

The company's project services encompass:

Tendering – Preparation of documents, conducting tenders, technical and financial evaluation of bidders, and contractual negotiations.

Basic Design – Including pre-treatment systems, RO, brine disposal, water quality control, preparation of PFD and P&ID diagrams, equipment lists (LOM), Work Breakdown Structure (WBS), equipment layout (Plot Plan), and basic architectural, structural, electrical, and mechanical design.

Detail Engineering – Detailed structural, mechanical, electrical, and control design; engineering documentation; construction drawings; equipment datasheets; technical procurement documents; project scheduling; and facility routing plans.

Supervision – Project management and control, contract oversight, review of progress reports, commissioning services, and operational trial support.

6

## Technical and Economic Feasibility Studies

This phase includes on-site project visits, preparation of an initial assessment report with visual documentation, review of relevant regulations and standards, negotiations with relevant organizations, evaluation of the possibility of securing financial facilities, and estimation of investment and operational costs. The cost estimation covers capital and operational expenditures, cash flow preparation, financial modeling, return on investment analysis, and sensitivity analysis, ultimately providing a comprehensive overview of the project's feasibility and justification.

# Water Services

7

## Procurement of Equipment and Services

In the equipment procurement process, domestic and international suppliers are first identified, and necessary price inquiries are obtained. Proposed purchases are then reviewed and evaluated technically and financially to select the best option. Following this, tender documents for equipment procurement are prepared and managed, and purchase contracts are signed with qualified suppliers. In some cases, depending on project requirements, direct purchases from domestic and international suppliers are made to ensure a faster and more accurate equipment supply process.

8

## Construction and Project Execution Management

Within the framework of project management and supervision, both overall and on-site oversight is conducted throughout all execution phases and during provisional handover. Subsequently, the trial operation period is closely monitored, leading up to the final handover. Key responsibilities include managing physical progress, controlling schedules and budgets, and preparing periodic progress reports. Additionally, integrated project management is applied throughout the entire project lifecycle, encompassing design, installation, execution, commissioning, and maintenance. Pre-commissioning and initial start-up tests are also performed to ensure proper system functionality.

9

## Training, Trial Operation, and Final Handover

During the operation and commissioning phase, comprehensive training is provided to personnel, including operators, technicians, quality control staff, and maintenance teams, ensuring full preparedness for working with equipment and systems. This is followed by a trial operation aimed at monitoring performance, quality control, and identifying and addressing any potential issues. Finally, complete operation and maintenance documentation, along with final reports, are prepared and delivered, serving as a reliable reference for future use and project support.

# Hydropower Services

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1

## Feasibility Studies of Hydropower Recovery Projects in Water-Intensive Industries

In large industries and companies with water-intensive processes—such as steel, petrochemical, paper, textile industries, and treatment plants—large volumes of high-pressure, high-velocity water flow are circulated within systems. This energy is often wasted as the flow is discharged without utilization. Hydropower recovery projects, using appropriate equipment and technologies, enable the conversion of this energy into electricity or usable mechanical power.

2

## Hydropower Project Feasibility Studies

Feasibility studies represent the first and most critical step in the development of hydropower projects. At this stage, careful assessment of hydrological, geological, climatic, and technical-economic conditions of the project site is conducted to identify existing potentials and select the most viable implementation options.

3

## Preparation of Basic Design Maps for Hydropower Projects

Basic design maps are a vital component in the design and implementation of hydropower projects. These maps serve as the main reference for detailed design, equipment procurement, and project execution, ensuring clarity and consistency throughout the entire process.

4

## Phase One Studies of Hydropower Projects

Phase One studies of hydropower projects are a key part of their development cycle, focusing on preliminary design and defining the main specifications of the power plant. This phase begins after feasibility studies and aims to provide a foundational design for progressing to subsequent design and execution phases.

5

## Preparation of Detailed Electrical and Mechanical Drawings for Hydropower Projects

Detailed drawings are a critical stage in the design of hydropower projects, providing precise execution details of equipment and systems. These drawings are prepared following Phase One studies and basic design maps and serve as the primary guide for contractors and equipment suppliers during installation and commissioning.

6

## Preparation of Purchase Orders and Procurement of Equipment for Hydropower Projects

One of the most critical stages in executing hydropower projects is the procurement of high-quality equipment and spare parts that comply with international standards. Proper management of the purchasing process—from identifying needs to procurement and final delivery—ensures project success and minimizes execution risks.

7

## Capability to Perform Installation, Testing, and Commissioning of Hydropower Units

Successful execution of hydropower projects requires precise equipment installation, technical testing, and unit commissioning to ensure the power plant operates according to design specifications. This stage serves as the final link connecting design and equipment to the actual operational phase of the project.

8

## Specialized Capability in Inspection and Handover of Electrical and Mechanical Equipment for Hydropower Units

Inspection and handover of equipment in hydropower projects is a crucial step in ensuring the quality, safety, and optimal performance of the power plant. By meticulously executing this process, it is ensured that all equipment is manufactured according to technical specifications and international standards, and is ready for installation and commissioning.



# Hydropower Services

## 9 Capability to Manufacture Pelton, Francis, and Turgo Hydropower Turbines for Small-Scale Projects

Small-scale turbines are among the most important components of hydropower plants under 10 MW, playing a key role in the efficient utilization of water resources. The design and manufacturing of these turbines require advanced technical expertise and practical experience in hydraulics and precision mechanics.

## 10 Capability and Experience in Operation, Maintenance, and Servicing of Hydropower Units

Continuous operation and proper maintenance of hydropower units are key factors in ensuring stable performance, extending equipment lifespan, and reducing operational costs. Expertise and experience in managing operation and maintenance processes enable timely identification of issues and effective problem resolution.

## 11 Capability to Manage Industrial Plant Projects in the Water and Energy Sectors

Effective management of industrial projects in the water and energy sectors is a key factor in achieving the technical, economic, and environmental objectives of plants. Expertise and experience in project management, precise planning, coordination of technical teams and contractors, and supervision of various execution stages help reduce risks and enhance productivity.

## 12 Capability to Manufacture Pumped Storage Units for Energy Storage and Hybridization of Wind and Solar Power Plants

Pumped storage units play a crucial role in optimizing energy consumption and enhancing the stability of renewable power grids. These units allow energy to be stored during periods of excess generation and dispatched during peak demand, ensuring reliable hybrid operation when integrated with wind and solar power plants.

# Board of Directors

| Degree and Field of Study                         | Full Name                | Position                      |
|---------------------------------------------------|--------------------------|-------------------------------|
| Master’s Degree in Electrical Engineering – Power | Mohsen Zandi             | Chief Executive Officer (CEO) |
| Master’s Degree in Mechanical Engineering         | Mohammad Sadegh Shirvani | Chairman of the Board         |
| Master’s Degree in Watershed Management           | Arash Hosseini Milany    | Vice Chairman of the Board    |

## Project Overview — Korgan Desalination Plant

Project Title: Design, Construction, and Implementation of Korgan Desalination Plant

Location: Korgan, Minab County, Hormozgan Province

Technology: SWRO (Seawater Reverse Osmosis)

Final Capacity: 5,000 m<sup>3</sup>/day

Phase 1 Operation: 2,500 m<sup>3</sup>/day (initial phase commissioned and operational)

Concurrent Studies: Conducted water supply resource studies for the Khorasan Petrochemical Complex

## Company Projects

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Design, Construction, and Implementation of the Korgan Desalination Plant (Minab County, Hormozgan Province) using SWRO Technology, with a total capacity of 5,000 m<sup>3</sup>/day. The first phase of the project, with a capacity of 2,500 m<sup>3</sup>/day, has been commissioned and is operational. Additionally, water supply resource studies were conducted for the Khorasan Petrochemical Complex.<sup>1</sup>

# Strategic Objectives

Ensure Sustainable and High-Quality Water Supply to reduce regional water scarcity

Support Process and Consumption Needs of regional industrial complexes, including the petrochemical sector

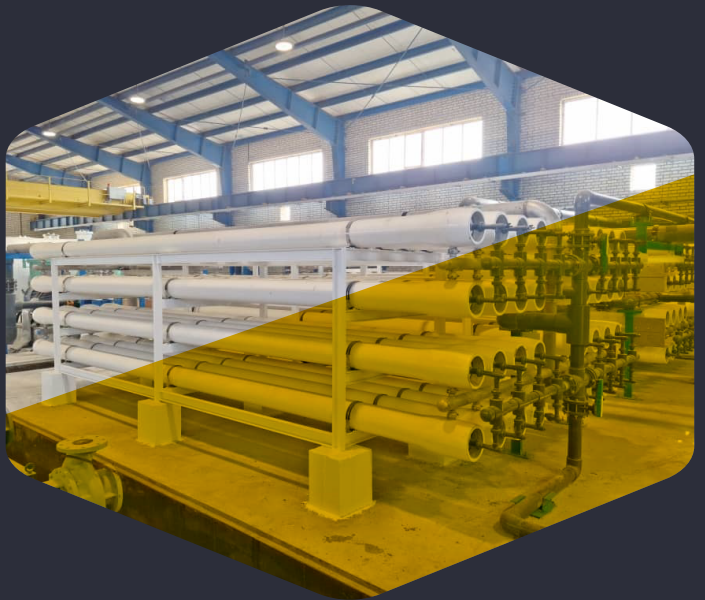
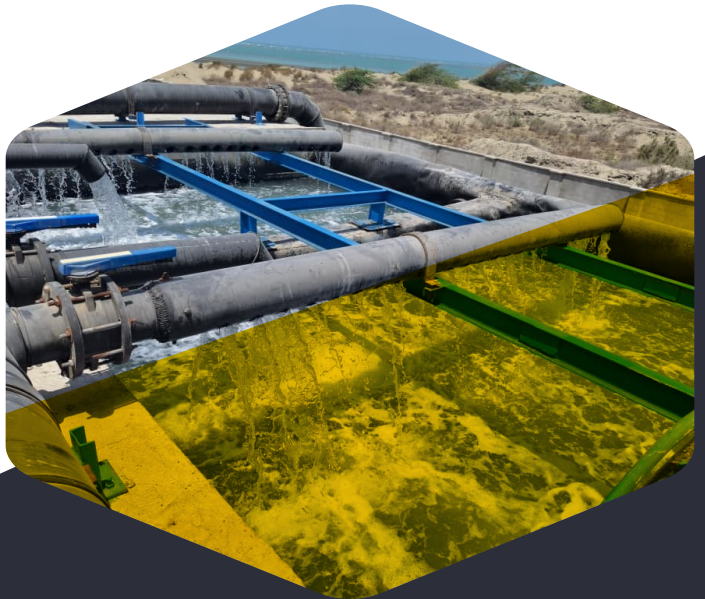
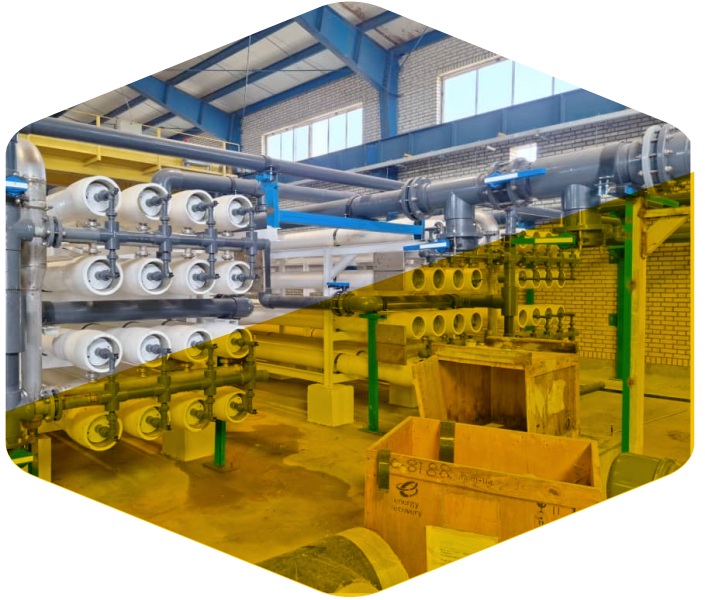
Implement SWRO Technology with a focus on energy efficiency and operational cost reduction

Establish Sustainable Infrastructure for future capacity expansion and integration with the local distribution network

## Project Summary

Implementation of a seawater reverse osmosis (SWRO) desalination unit aimed at supplying drinking and industrial water to the Minab region and supporting the water needs of industrial complexes, including the petrochemical sector. The project is planned in two phases: Phase 1, with a capacity of 2,500 m<sup>3</sup>/day, has been completed and commissioned, while Phase 2 will increase the capacity to 5,000 m<sup>3</sup>/day. Concurrently, water supply resource studies—including extraction, infiltration, quality, and sustainability assessments—were conducted for the Khorasan Petrochemical Complex.





# Partner Companies



Tamin Energy

Development Management



Social Security

Investment Company



Sabzeh Kavir Energy

Supply Company



Persian Gulf Power

Generation Company



Ofogh Pars Energy

Supply Company



Ofogh Toos Energy

Supply Company



**Hormoz Abdal Water Supply Company**

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