SWCC Services and Investment Opportunities
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About SWCC:

The Saline Water Conversion Corporation (SWCC) is a Saudi government corporation responsible for the desalination of seawater and supplying various regions in the kingdom with desalinated water. The corporation was established by a royal decree dated 20/08/1394 A.D, corresponding to 07/09/1974 A.D, as an independent government corporation.
Our Vision:

Global leadership and excellence in desalination industry.

Our Mission:

Meeting our customers’ needs of desalinated water efficiently and reliably at the lowest possible cost and the highest economic return, and invest effectively in our human resources to motivate them, develop desalination industry and contribute to economic and social development and adhere to safety and environmental standards.
Leading the Desalination Industry:

SWCC is considered to be the largest producer of water in the world, with a daily production average of 5.9 million m³ and it moves confidently towards increasing its daily production to reach 7.2 million m³ by 2025. SWCC additionally, has a global presence in terms of research and water technology through its research & development institute. Also, SWCC has many patents, and has registered world records in its field. SWCC is leading the initiative in training and developing the work force in the water production sector through its Saudi Water Academy (SWA).
Our Services
الخدمات الهندسية وإدارة المشاريع:

تقدم التحلية من واقع خبراتها التخصصية خدمة الاستشارات وإدارة المشاريع والخدمات الهندسية لقطاع المياه وتتمثل في الآتي:

- الاستشارات الفنية في مجال التحلية وأنظمة التنقل.
- الإشراف على تنفيذ المشاريع.
- التحقق والمراجعة لتصاميم أنظمة النقل ومحطات تحلية مياه البحر.
- إعداد مواصفات أنظمة النقل ومحطات تحلية مياه البحر.
- الدراسات الهيدروليكية ودراسة مسارات خطوط الأنايب.
- الاستشارات البحثية في عدة مجالات، منها مجالات الطاقة النظيفة وتنقية المياه ومحطات المعالجة.

Engineering Services and Project Management:

SWCC provides engineering services based on its specialized experiences in the water sector:

- Technical consultation in desalination and transmission systems.
- Projects execution supervision.
- Verification and revision of desalination plants and transmission systems designs.
- Specifications preparation of desalination plants and transmission systems.
- Hydraulic studies and pipeline tracks study.
- Research consultations in various fields including clean energy, water purification, and treatment plants.
Operation & Maintenance Services:

SWCC has more than 47 years of operation and maintenance experience for plants and transmission lines, in accordance with the highest standards and best practices, and a nationally qualified and trained workforce. SWCC extends its operation and maintenance services to plants and the provision of qualified human resources.
Equipment Maintenance:

SWCC has a long experience in maintenance, overhauling, and parts manufacturing. It possesses significant capabilities and modern equipment in its workshops stretching across the eastern and western coasts, managed by a highly-experienced technical team of the highest practical caliber. This fully qualifies SWCC to provide maintenance services of the highest reliability.
These maintenance services can be categorized as follows:

- Welding & Welding Inspection (High-Pressure Welding, Fabrication, and W-NDT)
- Machine Shop (Manufacturing Spare Parts, Metal Spray, and Portable Machining)
- Valve & Safety Valve Maintenance
- Rotating Equipment Maintenance (Pumps, Compressors, and Motors)
- General power services (Cable Fault Locating, Circuit Fault Detection)
- Turnaround Maintenance (Boilers, Turbines, Generators, Desalination Units)

ويمكن تصنيف خدمات الصيانة وفق التالي:

- عمليات اللحام وفحص اللحام (لحام الضغوط العالية - التشكيل - الاختبارات غير الإتلافية).
- ورشة التصنيع والآلات (تصنيع قطع الغيار، رش المعادن، الخراطة المتنقلة).
- صيانة الصمامات وصمماث الأمان.
- صيانة المحركات.
- الخدمات الكهربائية المتنوعة (تصنيع المضخات، الضغوط، المحركات).
- الخدمات الكهربائية المتنوعة (تحديد أعطال الأسلاك والدوائر الكهربائية).
- صيانة التوقفات (الغلايات البخارية - التوربينات - المولدات - وحدات التحلية).

المؤسسة العامة لتحلية المياه المالحة
Saline Water Conversion Corporation (SWCC)
SWCC highly cares about the quality of produced water, and for this reason its laboratories boast a level of exceptional specialization and professionalism. This is why SWCC has developed its laboratories’ equipment, technologies, human resources, methods of analysis, and administrative regulations to:

- a globally recognized status, and expanded its range of services with respect to the following services:
خدمات المؤسسة العامة لتحويل المياه المالحة (SWCC):

المختبرات المركزية والفرعية (16 مختبر حول المملكة):

- تحاليل جودة المياه الشاملة ووحدات مطابقة (فوري خلال ساعة – 4 أيام).
- التحاليل البيئية (ماء – هواء).
- تقييم جودة المواد الكيميائية.
- تحليل الزيوت المتخلوطة.

مختبرات معهد الأبحاث لتقنيات المياه التخصصية البحثية:

- تحاليل جودة المياه الشاملة المتخصصة.
- التحاليل البيئية المتخصصة واستشارات الرخص البيئية.
- تقييم واعتماد المواد.
- دراسات واختبارات التآكل.
- تشريح ودراسات كفاءة الامتصاص.
- التحليل والدراسة في الموقع (المختبر المتنقل).

Central & Branch Laboratories (16 Laboratories over KSA):

- Total Water Quality Analysis (instant (1 hour) – 4 Days))
- Environment Analysis (Water-Air)
- Raw Chemical Material Analyses
- Oil Analyses

Water Technology Research Institute’s Laboratories:

- Advanced Total Water Quality Analyses.
- Specialized Environmental Analysis and Environmental Licensing Consultations.
- Material Evaluation and Approval.
- Corrosion Studies and Tests.
- Membrane Dissection, Study and Efficiency.
- On-Site Analysis and Study (Mobile Laboratory).
Forty years of experience in technical training and developing human resources to work in the industrial domain, The Saudi Water Academy (SWA) is distinguished by its qualified training personnel and up-to-date training technologies and facilities. SWA develops practical and theoretical training programs according to the highest standards to meet market needs along the following training streams:
المجالات التدريبية:

Training Fields:

- تكنولوجيات التحلية
  Desalination Technologies
- المختبرات والكيمياء
  Chemistry & Laboratories
- إنتاج الطاقة الكهربائية
  Power Generation
- أنظمة النقل
  Pipeline System
- آلات مساعدة
  Auxiliary

المؤسسة العامة لتحلية المياه المالحة
Saline Water Conversion Corporation (SWCC)
SWCC Services and Investment Opportunities

المجالات التدريبية:

- ميكانيكا (Mechanical)
- كهرباء (Electrical)
- تبريد وتكيف (HVAC)
- لحام (Welding)
- أجهزة وتحكم (Instrument)
SWCC Services and Investment Opportunities

Firefighting

Rescue

HAZMAT

Safety

First Aid

Safety Studies

Operations of the rescue

Safety and firefighting

Emergency situations

Security

Training Fields:
SWA Facilities:

SWA's facilities hold different training classrooms, with various designs and sizes, in order to meet all training needs. This includes workshops and laboratories equipped with the best training means and up-to-date technologies. SWA's facilities include a special center for safety & security & firefighting training programs, the following is the list of SWA's main facilities:
SWA Facilities:

- Various sizes and layouts of fully equipped training halls
- Computer, and languages labs
- Various Simulation labs:
  - DCS – R0 – MED – Electrical – etc. …
- Mechanical, machining, and welding training workshops
- Electrical, and HVAC training workshops
- Instrument training workshops
- Chemistry Lab
- SWCC Auditorium (600 Persons)
- Virtual training classes
- Safety & Security & Firefighting Center
Portable Production Systems:

Portable production system for desalination is one of the provided solutions by SWCC to serve different entities. The production capacity for such systems ranges from 2000 to 5000 m$^3$ daily in order to meet clients’ various needs. It is operating with an eco-friendly reverse osmosis technology and it has been set up and implemented according to the latest international specifications and standards that make it the lowest energy consumption system for water desalination in the world. Its parts can be easily and smoothly disassembled and transported. Furthermore, the portable production systems are proudly a Saudi product done by a highly experienced SWCC team.
Investment Opportunities
SWCC is heading toward investing in brine coming out from desalination processes in all its plants. SWCC produces more than 4 billion m$^3$ of brine each year. Brine mining is considered to be a valuable investment opportunity as it contains the following salts and minerals in high concentrations:

**Main Elements**

- Magnesium (Mg)
- Calcium (Ca)
- Sodium Chloride (NaCl)
- Bromine (Br)
- Lithium (Li)
- Potassium (K)
- Sulfate (SO$_4^{2-}$)
Zero Liquid Discharge Technology:

SWCC has a registered patent in zero liquid discharge (ZLD) technology, which aims at extracting the valuable salts and minerals from brine and increasing the fresh water recovery up to 65%. This technology is distinguished for being environment-friendly and for its contribution in developing local content and industry in accordance with the kingdom’s 2030 vision. SWCC seeks to create a solid partnership in the field by investing in this technology and others owned by SWCC.
SWCC has exerted fruitful efforts to nationalize industry and support national manufacture and local content, by inviting local and international investors to set up strategic partnerships and agreements in this regard. SWCC’s motto Made in Saudi Arabia, is achieved through offerings such as facilitation and consultations that they provide within their strategic partnerships with investors. The following are identified lists of main equipment to be localized:

- RO Membranes
- High Pressure Pump
- Energy Recovery Devices
- Electric Motors
Renewable Energy:

SWCC effectively contributes to environment and natural resources conservation, sustainability, and exploitation. SWCC aims to create strategic partnerships to invest in several forms of renewable energy in order to develop advanced technologies. This will lead to transforming SWCC production systems and assets into eco-friendly energy sources to ensure a safer and more efficient planet.
For inquiries & orders please visit our website

www.swcc.gov.sa

Or contact us through email:

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