

The Kuwaiti Digest



April-June 2025



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Letter from the Editor



Mohammad Khalifa Al-Abduljaleel

Deputy Chief Executive Officer
Planning & Innovation

Undoubtedly, Kuwait Oil Company possesses exceptional capabilities in growth, development, and innovation. Its continued progress in keeping pace with global advancements, where it is often a pioneer, has become a defining trait. These strengths have enabled the Company to assert a firm and growing presence on an international level, where it is now regarded as an essential contributor to the oil and gas industry.

This issue of the Digest arrives at a time when KOC's international engagements have grown both in number and in significance. A key example is the Company's active participation in the Oman Petroleum & Energy Show (OPES), where it showcased its latest achievements and innovations. Similarly, KOC's involvement in the OSAKA EXPO highlights the Company's dedication to global outreach and knowledge exchange.

Beyond representation abroad, the value of these participations is reflected in what KOC brings to the global conversation, from technical expertise

and innovative technologies to sustainable practices. The fruits of this are also evident locally, as demonstrated by the early completion of the Oil Reservoir Upgrade Project, a significant milestone in operational efficiency.

This issue also highlights the diversity of initiatives being driven across the Company and its affiliates. From the environmental front, we cover the Environmental Engineers Forum and delve into KOC's collaboration with UN Habitat, as well as the continued preservation efforts at Sayahad Al Magwa Reserve. These projects not only reflect our commitment to environmental responsibility but also to Sustainable Development in harmony with our local ecosystem.

In healthcare, Ahmadi Hospital's introduction of cutting-edge medical technology marks a new chapter in patient care and innovation. Complementing this, we also celebrate the compassion and professionalism of our medical staff during Nurses Week in Kuwait, a timely tribute to those who serve on the frontlines of our health system.

Geologically speaking, this issue explores the rich and complex stratigraphy of Kuwait, featuring an insightful interview with Dr. Mubarak Al Hajri, who offers a deeper understanding of Kuwait's subsurface structure and its implications for exploration.

On a creative and cultural note, local artist Dana Al Rashid shares her perspective on how beauty can serve as a vehicle for environmental awareness and heritage preservation. Meanwhile, for those looking to the future of technology, we present an in-depth analysis comparing the AI giants of 2025, examining their capabilities and implications for the oil industry and beyond.

In summary, this issue is a celebration of KOC's multifaceted excellence, from international participation to local achievement, from environmental stewardship to technological advancement. We take pride in the strides being made across every level of the Company and invite you to explore the depth of our collective progress within these pages.

KOC'S ACTIVE PARTICIPATION IN THE OMAN PETROLEUM & ENERGY SHOW (OPES 2025)





Represented by a High-Level, Multi-Disciplinary Delegation with Groundbreaking Technical Papers and Presentations

Whether on a local, regional, or global scale, KOC is committed to making every participation highly effective. The Company possesses the expertise, capabilities, experience, and determination needed to deliver meaningful contributions and maximize benefits wherever it participates.

This was clearly demonstrated during KOC's participation in this year's edition of the Oman Petroleum & Energy Show (OPES 2025), held in the Sultanate of Oman. The Company was represented by a high-level delegation that included two Deputy CEOs, and stood out for its diverse composi-

tion with members from various departments and Teams across different specialties.

KOC's active participation included valuable contributions during the conference sessions and an informative exhibition booth. Delegation members presented technical papers and innovative presentations that spotlighted the Company's strategic vision, mission, achievements, adopted technologies, best practices, and core values.

This reaffirmed KOC's reputation as a pioneering guest at major forums of all levels, bringing strong, innovative content wherever it goes.



Conference and Sustainability

This major event was part of the Oman Sustainability Week 2025. KOC's high-level delegation included Deputy CEO Planning & Innovation Mohammed Al-Abduljaleel, and Deputy CEO Projects Management & Engineering Fahad Al-Kharqawi, along with several Group Managers, Team Leaders, and senior specialists.

The event was held under the patronage of Oman's Minister of Energy & Minerals, Salim Al Aafi, who stated in his opening speech that the energy and petroleum conferences have been unified under the umbrella of "Oman Sustainability Week," creating an annual platform that reflects the Sultanate's commitment to sustainable oil and gas production and the transition to clean energy.

KOC's exhibition booth showcased its key achievements alongside more than 350 exhibiting companies from various sectors.

Key Topics

The conference's sessions and exhibition materials covered essential topics, including emerging sustainability practices, innovative technologies, and circular economy strategies—providing practical insights to help participants navigate the evolving global sustainability landscape.

Other important subjects discussed included energy transition, renewable integration, digital transformation, and the future of liquefied natural gas (LNG) in the region.

Acknowledgment of Organizers

Speaking at the event, Mohammed Al-Abduljaleel emphasized that KOC's participation aligns with its commitment to being present at major global oil and gas events, especially those focusing on sustainability, which is a top priority for the Company.

Fahad Al-Kharqawi added that the delegation comprised experts and engineers presenting

papers on KOC's experience, innovations, and achievements in oil and gas operations, HSE (health, safety, and environment), CSR (corporate social responsibility), and sustainability.

Both executives expressed gratitude to the organizers, applauded the sponsorship of Minister Al Aafi, and noted that KOC aimed to benefit from this opportunity by exchanging expertise with other participating companies and holding productive meetings with top executives.

Unified Organizational Framework

The participation followed a unified and well-structured approach adopted for delegations comprising members from various Company sectors. The delegation in Muscat included representatives from six sectors: Planning, Contracts, Supplier Relations, Exploration, Drilling, and Information Technology.

Each sector delivered its own presentation. Below are highlights from these presentations:



Planning Sector

This presentation introduced KOC and explained its strategy, historical milestones, and the evolution of its operations in oil and gas. It also described the Upstream sector's mission, vision, and values related to maximizing Kuwait's hydrocarbon resources.

It outlined KOC's strategic objectives:

1. Strive for world-class operational excellence.
2. Optimize Portfolio Management.
3. Achieve sustainable crude oil production capacity.
4. Achieve sustainable non-associated gas production.
5. Replace Reserves to Sustain Production.
6. Steward Technology and Capability Transfer.
7. Manage Stakeholders Actively.

The presentation also highlighted KOC's 2040 strategy, and the broader vision of Kuwait's Energy Transition by 2050, focusing on renewable energy, carbon capture and storage (CCS), and related challenges and opportunities.

Contracts Sector

Under the title "Tendering & Associated Activities," this presentation began with KOC's vision, mission, and objectives for managing tenders and contracts in accordance with Kuwaiti regulations, ensuring efficiency, quality, and compliance with HSE and CSR standards.

Key points included:

- Improving tender processes through AI and digitalization
- Detailed explanation of tender lifecycle stages
- Summary of laws and internal policies
- Statistics on tenders and contracts from the beginning of 2023 to March 2025

Supplier Relations

The Supplier Relations Team explained its responsibilities in managing relationships with contractors, service providers, and manufacturers. It covered:

- Tender and procurement portal registration steps
- Differences between joint categories (shared across KPC subsidiaries) and KOC-specific categories
- Prequalification process and evaluation criteria (technical, commercial, financial, HSE)

Exploration Sector

Titled "KOC's Exploration Journey: History, Achievements, and Future Strategy," this presentation included:

- Historical milestones in exploration
- Vision and mission of the Exploration Group
- Achievements, including two major offshore discoveries in Nokhatha and Juliaia

It also covered five strategic goals:

1. New oil (conventional and heavy oil prospects to be transferred)
2. Jurassic gas reserves
3. Offshore & Kuwait Bay exploration
4. Additional reserves (Production From Uncertain Prospects)
5. Paleozoic Era potential
6. Challenges identified included:
 - Seismic analysis
 - Climate-related impacts
 - Deep formations and high pressures / temperatures
 - High H₂S content

Drilling Sector

The Drilling & Workover Engineering presenta-

tion described KOC's aspiration to lead in drilling efficiency, HSE, and performance management. Highlights included:

- Role of Drilling Teams in achieving strategic goals
- Key ongoing and upcoming projects
- Real-Time Drilling Decision Centre (RTDDC)
- Fluids lab for managing drilling fluids

Innovation and Technology

This presentation focused on:

- KOC's innovation mission: developing technological solutions to overcome industry challenges
- Collaboration with KOC's IT Group and e-suggestions platform
- Applied research goals and marketing potential
- Energy transition technologies and strategic partnerships

It addressed digital transformation, platform integration, and the pursuit of value creation through advanced and emerging technologies.

Energy Transition

The presentation detailed the following:

(KPC) Strategic Vision:

- Supply Energy Resources At Lowest Emissions Intensity Globally
- Commit To Achieve Net Zero Scope 1+2 Ghg Emissions For KPC By 2050
- Selectively Invest in New Alternative Energies.

Al-Abduljaleel and Al-Kharqawi: Showcasing Kuwait's Leadership

Mohammed Al-Abduljaleel, KOC's Deputy CEO for Planning & Innovation, stressed the importance of representing Kuwait in global forums and showcasing its leadership in the oil and gas sector. He highlighted:

- Digital transformation efforts
- Operational efficiency development
- Environmental sustainability commitment
- Support for "New Kuwait 2035" vision

Fahad Al-Kharqawi, Deputy CEO of Projects Management & Engineering, emphasized KOC's pivotal role in advancing Kuwait's energy sector and economy, stating that its achievements are due to the dedication and commitment of its employees.



About the Exhibition

The Oman Petroleum and Energy Show (OPES) was organized by the Society of Petroleum Engineers (SPE) and hosted by Petroleum Development Oman, under the patronage of Oman's Ministry of Energy & Minerals.

OPES is the Sultanate's leading event dedicated to oil, gas, and energy industries. It facilitates networking between stakeholders and serves as a key meeting point for industry professionals, decision-makers, and innovators.

This year's edition attracted 30,000 visitors, with 300 companies from 26 countries, and over 300 speakers addressing 1,500 participants from 60+ countries.



Oil Reservoir Upgrade Project

*Operation of Wara Water Injection System Expansion Project
Six Months Ahead of Schedule*

*Achievement by Project Management Team (41) in Enhancing
Oil Reservoir Efficiency*





Kuwait Oil Company is known for its harmonious and cooperative operations across all departments, unified by a fundamental goal: enhancing production efficiency and ensuring its sustainability. This goal has become deeply rooted within the Company, with all Teams and Groups striving to achieve it. All employees understand the importance of directing efforts toward maintaining the integrity of oil reservoirs. For KOC, anything that contributes to reservoir sustainability and increased production is a vital pathway upon which long-term decisions and strategies are built.

Given the clarity of KOC's Strategic Goals, its workforce is known for its efficiency, dedication, and innovation. Everyone exerts maximum effort to reach these strategic targets.

This spirit was recently embodied in one of the Company's flagship projects in the South & East Kuwait operations area. The project was delivered fully

and impressively six months ahead of schedule.

For those wondering how this was achieved and what the details are, the Kuwait Digest shares the full story.

A Vital Project

It's important to note that this wasn't a small or insignificant project. On the contrary, it was a highly strategic one focused on improving oil reservoir efficiency in the fields of South & East Kuwait.

This achievement was made possible by the efforts of Project Management Team (41), led by Abdullah Al-Yousef, who was determined to accomplish this goal. He motivated and encouraged his Team to spare no effort and demonstrated exceptional leadership, which played a significant role in bringing the project to a successful and timely conclusion.

The project involves the expansion of the Wara Water Injection

System in South & East Kuwait. It was executed on an accelerated timeline to support the long-term sustainability of oil production in those areas.

Scope and Facilities

The project included the construction and commissioning of seven new remote water injection manifolds, each with a design capacity of 50,000 barrels of water per day, providing a total additional injection capacity of 350,000 barrels of water per day.

This expansion directly increases the total treated water injection capacity from the Wara facility, maintaining a pumping capability of up to 1 million barrels per day—a crucial milestone in Kuwait's efforts to enhance oil recovery.

The project was managed by Project Management Team (41), part of Project Management Group (IV), under the direct leadership of Team Leader Abdullah Al-Yousef and close supervision from Group Man-



Team Leader: Aiming for More Achievements

In a statement to The Kuwaiti Digest regarding this achievement, TL Projects Management Team (41) Abdullah Al-Yousef emphasized that the accomplishment was made possible due to the competence, dedication, and reliability of the Team members.

He expressed pride in leading a Team filled with highly capable individuals who exert tremendous efforts to develop operations, innovate solutions, and achieve goals.

Al-Yousef affirmed that this would not be the Team's last achievement and that their objective is to continue supporting KOC's strategies across all operational areas. He noted that several other pioneering projects are currently in progress and will be announced upon completion.

He praised the support provided by other departments to his Team, highlighting that what sets KOC apart is its spirit of teamwork, which is evident in all initiatives and decisions.

He also praised the continuous support from the Higher Management, stating that it motivates the Team to work harder and explore means to upgrade practices and improve performance.

ager Khaled Al-Muhaini. The main contractor was MARK Technologies.

Due to the strategic importance of this project in supporting production levels in South & East Kuwait, it was completed and became operational more than six months ahead of schedule.

Perhaps even more remarkable, the project began generating value within just four days of operation, reflecting the high level of planning, execution, and integration with the broader pumping network.

Overcoming Challenges

Like any major project, this one faced numerous challenges, all of which were successfully overcome. The Team managed to complete and deliver the project ahead of time.

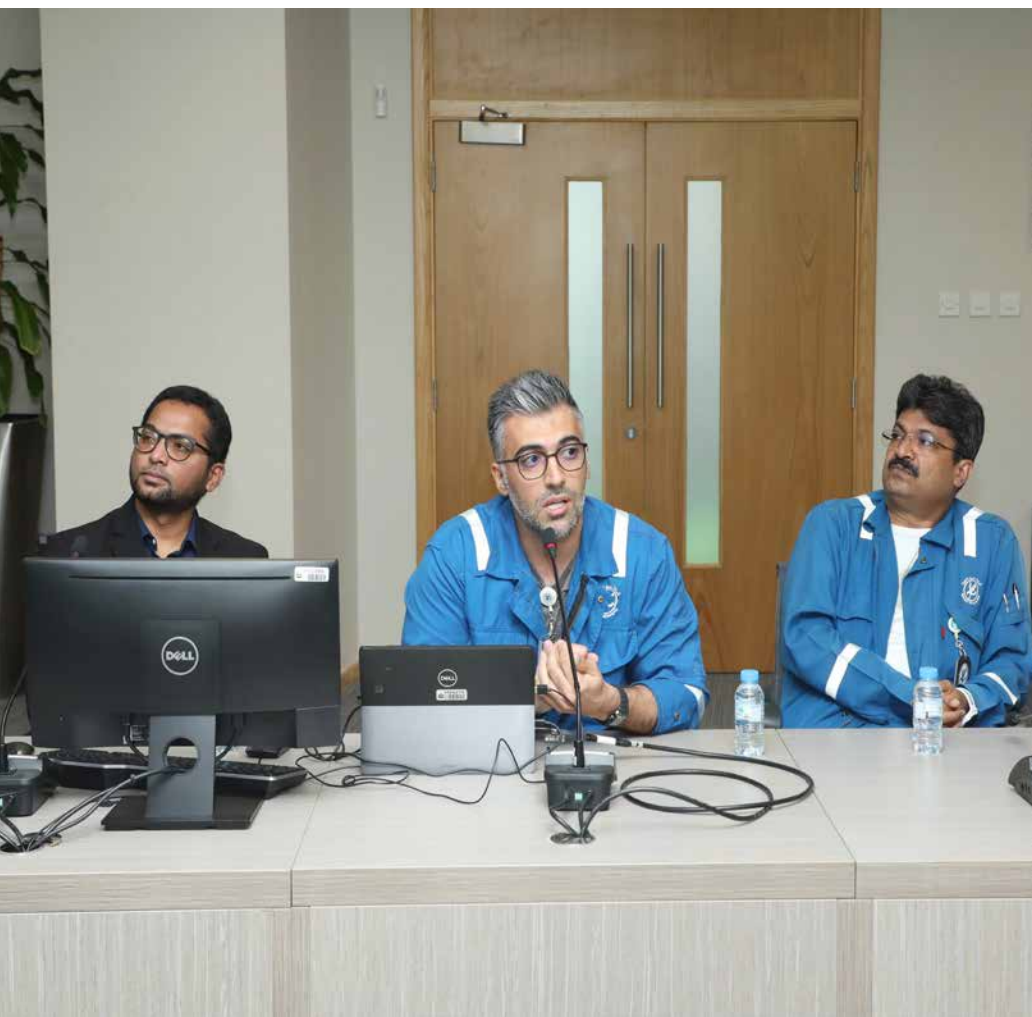
Construction work was coordinated among several contractors working in parallel in the same area, ensuring seamless in-

tegration with the third train of the Wara Pressure Maintenance Project (WPMP), which was still under construction at the time. The new manifolds were connected to injection wells via newly installed flow lines, following the recommendations of the Field Development Team (South & East Kuwait) and in coordination with the South & East Kuwait Projects Management Team, which was responsible for linking the injection lines from the manifolds to the water injection wellheads.

This enabled accurate direction of water flows to target wells by ensuring full integration among all parties involved, all under the meticulous coordination of the supervisory unit of Project Team (41).

This accomplishment is a testament to KOC's commitment to operational excellence and sustainable oil production. It also reflects a collaborative success among all stakeholders, including support Teams and contractors, who worked seam-





lessly despite tight deadlines. Everyone was united by one goal: meeting water injection requirements ahead of schedule while adding tangible value to the project.

Sensitive Scope of Work

To learn more about this vital project and its importance to operations, we spoke with Senior Project Engineer Mohammed Al-Mousa, who played a key role in its success.

Al-Mousa explained that the project's complexity stemmed from its integration with the Wara Pressure Maintenance Project (WPMP) and the Effluent Water Disposal Plant 2 (EWDP-2), in addition to connecting the control systems of the new project with those two facilities.

He noted that these two stations receive treated water from all Gathering Centers in the South & East Kuwait operations area. Any malfunction in integrating the control systems could paralyze a significant portion of crude oil production linked to these Gathering Centers.

Al-Mousa emphasized that completing the project without incidents or disruptions to either water station wouldn't have been possible without meticulous planning and supervision by the project team, led by Project Engineer Ali Al-Harbi and the entire construction crew, along with coordination with representatives from related Teams.



Recognition Well Deserved

As the Company values every achievement and seeks to encourage greater contributions, the Projects Management Team (41) held a recognition ceremony to honor those who contributed to delivering the Wara Water Injection Expansion Project nearly a year ahead of schedule.

To celebrate this accomplishment, Team Leader Abdullah Al-Yousef met with all involved personnel and extended his thanks to the executing contractor, MARK Technologies.

During the meetup at KOC's Megacomplex in Ahmadi, Al-Yousef praised both Company and contractor staff for their efforts and dedication. He also ordered the issuance of appreciation certificates to all Team members, recognizing the outstanding contributions and high performance

Kuwait Shines at Expo 2025 Osaka: A Fusion of Heritage, Innovation, and Energy

Kuwait's participation in Expo 2025 Osaka marks a significant milestone in the nation's journey to present its dynamic and forward-looking vision to the global stage. With the theme "Designing Future Society for Our Lives,"

Expo 2025 serves as a powerful platform for countries to showcase their achievements, cultures, and future aspirations. Kuwait, with its rich heritage, commitment to sustainability, and technological prowess, is set to make a remarkable impact.





A Visionary Pavilion: Melding Tradition and Innovation

At the heart of Kuwait's presence at the Expo is its pavilion, designed under the guiding vision of the Kuwait government to represent the nation's aspirations for the future. The pavilion, dubbed the "Visionary Lighthouse," is a striking symbol of Kuwait's openness, resilience, and innovative spirit. Designed by the renowned architectural firm LAVA (Laboratory for Visionary Architecture), the pavilion's bold, futuristic design reflects Kuwait's ambition to blend tradition with cutting-edge technology.

The pavilion is divided into two primary floors. The first floor celebrates Kuwait's rich cultural heritage, offering visitors an immersive experience of its history, traditions, and maritime legacy. This section evokes the essence of Kuwait's journey from a modest pearl diving community to a modern, thriving state. The second floor

transports visitors into Kuwait's future, focusing on the country's aspirations for progress in innovation, clean energy, and human empowerment. It highlights Kuwait's role as a leader in the Gulf region and its continuous commitment to shaping a sustainable future.

A unique feature of the pavilion is "The Pearl," which connects the two floors. Named in homage to Kuwait's historical dependence on pearl diving, "The Pearl" symbolizes the intersection of Kuwait's past, present, and future. The pavilion integrates interactive technologies and artificial intelligence, offering visitors an engaging, tech-driven journey through Kuwait's cultural and technological advancements.

Cultural Showcase: Celebrating Kuwait's Heritage

The National Council for Culture, Arts, and Literature (NCCAL) is playing a crucial role in showcasing Kuwait's cultural

richness at Expo 2025 Osaka. Led by Assistant Secretary-General for the Culture Sector, Aisha Al-Mahmoud, the NCCAL's delegation is ensuring that Kuwait's cultural contributions are not only preserved but also celebrated in the global arena. One of the highlights of the cultural program is the Red Palace Folk Arts Troupe, which performed at the pavilion's opening ceremony. The troupe entertained visitors with performances based on authentic Kuwaiti folklore for five consecutive days, offering an authentic taste of Kuwaiti music, dance, and arts.

In addition to musical performances, the NCCAL is offering a series of events that reflect Kuwait's creative diversity. From traditional handicrafts to contemporary art exhibits, these cultural showcases provide visitors with a comprehensive understanding of Kuwait's artistic and cultural identity. This engagement allows Expo visitors to experience the beauty of Ku-



wait's folk arts, from music to craftwork, and emphasizes the role of culture in bridging gaps between nations and fostering global understanding.

Kuwait Oil Company's Participation: Pioneering Sustainable Energy

A significant addition to Kuwait's presence at Expo 2025 Osaka is the participation of KOC. As a major player in the global energy sector, KOC is using this global stage to showcase Kuwait's leadership in the field of sustainable energy and its ongoing efforts to innovate within the energy industry.

KOC's participation aligns perfectly with the Expo's theme of "Designing Future Society for Our Lives," as the company's exhibits focus on cutting-edge energy technologies, sustainable practices, and innovations in clean energy. KOC is dedicated to showcasing its historical progression, advancements in oil production techniques that

minimize environmental impact, as well as its commitment to transitioning toward greener energy solutions. Through interactive exhibits, KOC is providing a comprehensive look into how Kuwait is evolving its energy landscape, ensuring that it remains a key player in the global energy transition while prioritizing sustainability.

KOC's contribution further underscores Kuwait's role in shaping the future of energy, ensuring that the nation's rich oil history is balanced with a forward-thinking approach to clean and renewable energy sources. This participation not only highlights Kuwait's role in global energy production but also reinforces its commitment to contributing to a sustainable future for all.

Strengthening Bilateral Relations with Japan

Kuwait's participation at Expo 2025 Osaka is also a reflection of its enduring relationship with

Japan. The two countries have maintained strong diplomatic and economic ties for decades, and Kuwait's involvement in Expo 2025 presents an opportunity to further strengthen this partnership specifically in the oil sourcing domain where Kuwait has been a reliable provider of oil for Japan for decades on end. The Kuwaiti Minister of Information and Culture, Abdulrahman Al-Mutairi, noted that the country's participation is a testament to Kuwait's commitment to contributing to international events that shape the future of humanity.

The role of the Kuwaiti pavilion is not limited to cultural display—it also serves as a platform for fostering deeper relations with Japan and the international community. The Japanese Minister for the World Expo 2025, Yoshikata Ito, expressed his appreciation for Kuwait's contributions during the aftermath of Japan's 2011 earthquake and tsunami. This gesture of solidarity highlights the



mutual respect and friendship that exists between the two nations.

The Opening of Kuwait's Pavilion and Official Participation

Kuwait's pavilion was officially opened to the public on 13th April, 2025, marking the beginning of the Expo's six-month event. The pavilion's opening ceremony was attended by prominent Kuwaiti officials, including the Kuwaiti Ambassador to Japan, Sami Al-Zamanan, and senior representatives from the Japanese government. This event marked the culmination of months of preparation, setting the stage for the official launch of Expo 2025 Osaka on 13th April, 2025. The event will continue until 13th October, 2025, and is expected to attract over 28 million visitors from around the world.

A Platform for Global Dialogue and Cooperation

Expo 2025 Osaka is an unparalleled opportunity for countries to present their visions and share their experiences. Kuwait's pavilion encapsulates the nation's aspirations for the future, its reverence for the past, and its leadership in global innovation. Through a perfect blend of culture, technology, and energy solutions, Kuwait's participation demonstrates its commitment to sustainability and progress.

The Expo itself is set to attract millions of visitors from around the world, providing Kuwait with the chance to engage in dialogue with other nations, share its achievements, and build lasting inter-

national partnerships. The country's role at Expo 2025 goes beyond showcasing its own developments; it is a platform for Kuwait to foster cooperation in the fields of energy, technology, culture, and sustainability.

Kuwait's participation also reflects its broader strategy to position itself as a leader in the Gulf region and a responsible player on the world stage. From its collaboration with Japan to its initiatives in the oil and gas sector, Kuwait is making a statement about its commitment to a sustainable, inclusive, and innovative future.

Looking Forward: A Sustainable Future

As Expo 2025 Osaka unfolds, Kuwait's multifaceted participation serves as a model for how nations can combine their cultural heritage with technological progress and sustainable practices. The country's leadership in energy, culture, and innovation, showcased through the Kuwait Oil Company's efforts and the National Council for Culture, Arts and Literature's contributions, highlights a nation that is poised for a future where tradition and modernity work in harmony.

Visitors to the Kuwait Pavilion at Expo 2025 Osaka will undoubtedly leave with a deeper appreciation of Kuwait's past, its present, and its promising future. Whether exploring the pavilion's historical exhibits or experiencing the groundbreaking energy technologies displayed by KOC, they will gain a comprehensive view of a country that is shaping the future while preserving the best of its heritage.



KOC Participates in the First KEE Forum & Exhibition

Under the patronage of His Highness Sheikh Ahmad Al-Abdullah Al-Ahmad Al-Sabah the Prime Minister of Kuwait, and with the attendance of His Excellency the Minister of Oil Tariq Sulaiman Al-Roumi, KOC participated in the first Kuwait Environmental Engineers Forum & Exhibition. This is the first specialized platform of its kind for environmental engineers, on the level of Kuwait, the GCC, and the Middle East.

Several high-profile officials attended the event, which was held at Shadadiya University Cultural Center over two days. This notably included President of Kuwait Environmental Protection Society Dr. Wejdan Al-Oqab, who served as the head of the forum. Numerous K-companies, concerned government entities, and scientific and environmental organizations also participated.

KOC had several participations in the event. TL Organization Resilience Nasser Al-Buhairi participated in the first discus-

sion session on Crisis Management. Meanwhile, Environmental Engineer Mariam Al Ajmi, representing the newly formed Environment & Energy Transition Team, delivered a presentation where she highlighted KPC's efforts on Energy Transition & The Road to Net Zero Emissions by 2050.

Senior Environmental Engineer Aisha Al Baroud also delivered a presentation, focusing on the Kuwait Environmental Remediation Program.

His Excellency Minister Al

Roumi officially launched the forum, which included keynote speeches by several prominent figures, an honoring session for the organizers, sponsors, and participating entities, and the inauguration of the exhibition.

The forum's discussion sessions addressed a range of topics, related to energy transition, renewable energy, pollution prevention technologies, waste management, and developing water projects.

In the following article, the Kuwaiti Digest details Al-Ajmi and

Al-Baroud's valuable participations.

Participation I: KOC Soil Remediation Technologies

Used in Seed and KERP Projects of Kuwait Oil Company

Presented by: Snr. Environmentalist Aisha Al-Baroud

Team: Q & HSE Team

SEED & KERP

Sustainable Environmental & Economic Development (SEED)

SEED project had undertaken an assessment of the land degradation caused by historical oil and gas exploration and production activities in KOC, and to remediate and rehabilitate the contaminated features existing within the Company.

The prime objective of the project was to remediate selected features to acceptable limits of contamination and restore ecological function. Stage one (1) entails oil recovery, soil remediation and rehabilitation of 25 contaminated features within the KOC South & East assets including:

- Gatch Pits
- Effluent Water Disposal Pits
- Sludge Disposal Pits
- Contaminated Soil Piles

The project consisted of three separate contracts, in three separate Lots, each awarded to a different international pre-qualified contractor to allow for comparison and development of best practice and provide continual improvement to future SEED stages throughout KOC assets.

The three Contractors were:

1. Lot A – HERA (Spain)

HERA had 9 features within

their scope. They treated soil using 2 types of treatment

Technology: High Temperature, Thermal Desorption, and Soil Washing.

2. Lot B – GS Engineering (Korea)

GS Engineering had 8 features within their scope. GS Eng. primary soil treatment technology was soil washing and had 2 units.

3. Lot C – TERI (India)

TERI had 8 features within their scope. TERI used 2 TDU's (Direct and Indirect fired) and Bio-remediation technologies.

The KERP Project

Kuwait Environmental Remediation Program (KERP)

In December 2005, the United Nations Compensation Commission (UNCC) awarded monetary funds to the State of Kuwait through its decision 258 Guidelines to establish the follow-up program of the environmental remediation works of contaminated features resulting from the Iraqi aggression.

In June 2006, the government of Kuwait formed the Kuwait National Focal Point (KNFP) with the authority to plan and supervise the implementation of projects and act as liaison between the UNCC during this program and affected parties /stakeholders.

KOC is responsible for planning and executing the remediation and restoration projects in KOC oil field areas under Kuwait Environmental Remediation Program (KERP), which shall be through a series of field contractors.

UNCC awarded a total claim of \$ 3 billion to Kuwait out of which \$ 2.113 billion was awarded to KOC for the following claims:

1. Claim No. 5000259 - Remediation of damage to marine and coastal resources.

2. Claim No.5000450 - Remediation of areas in and around wellhead pits and tarcrete.

3. Claim No. 5000454 - Remediation of areas damaged by oil lakes, oil-contaminated piles, oil trenches and oil spills.

The goal of this program is to remediate significant amounts of contaminated soil to reach acceptable levels and restore ecological function. As one of the largest environmental projects in the world, the program will have a significant impact on the local environment while recovering lost resources.

KERP-Contaminated Features

- Wet Oil Lakes were formed in low-lying areas when oily liquid and highly weathered oil from damaged oil wells accumulated.
- Dry Oil Lake: In shallower parts, top oil evaporated and formed a thin and moderately hard dry black tar layer, forming dry oil lakes over hydrocarbon contamination.
- Oil-contaminated piles which were initially heaps of soil made to stop the oil flow from the destroyed oil wells or to clear areas with heavy oil contamination during firefighting
- Tarcretes: The dispersed oil mist settled down and combined with sand and gravel forming tarcrete, a solid top layer that doesn't allow plant growth, without underlying hydrocarbon contaminated soil.

Wellhead Pits, are excavated pits constructed to store seawater for fighting oil well fires.

KERP Mega Projects

KERP has completed the following four projects:

1. Construction of Landfill Facilities for Hydrocarbon Con-

taminated Soils in North Kuwait (1.7 million cubic meters capacity)

2. Construction of Landfill Facilities for Hydrocarbon Contaminated Soils in Southeast Kuwait (580 thousand cubic meters capacity).
3. Excavation and Transportation of highly contaminated soil in North Kuwait
4. Excavation and Transportation of highly contaminated soil in South Kuwait

Currently, KERP has 11 Mega projects.

In 2021, five contracts were awarded to excavate, transport and remediate 13,000,000 m³ of contaminated soil.

- NKETR zone 1
- NKETR zone 2
- SKETR zone 1
- SKETR zone2
- SKETR zone3

SKETR II Projects were awarded to three Contractors by 2023 to remediate a total volume of a total volume of 8,340,000 m³ contaminated soil.

- SKETR II zone A
- SKETR II zone B
- SKETR II zone C

Remediation Technologies

1. Soil washing is a water-based process for scrubbing soils ex situ to remove contaminants. The process removes contaminants from the soils either: by dissolving or suspending them in the wash solution, by gravity separation, and attrition scrubbing.
2. Windrow Bio-Remediation is the process of exploiting the ability of certain micro-organisms (e.g., indigenous, cultivated or commercially available strains), to degrade

petroleum hydrocarbon constituents and requires a sustained source of nutrients, water, and electron acceptors (e.g., oxygen) to degrade petroleum hydrocarbons.

3. Land farming is an ex-situ waste treatment process that is performed in the upper soil zone or in bio treatment cells. Contaminated soils, sediments, or sludge are transported to the land farming site, incorporated into the soil surface, and periodically turned over (tilled) to aerate the mixture. This technique has been used for years in the management and disposal of drill cuttings, oily sludge, and other petroleum refinery wastes.
4. SOLVENT EXTRACTION for TPH >5%: This technology utilizes an organic solvent for the separation of Hydrocarbon contamination from the soil. The Solvent and contaminated soil are mixed and passed through an extraction unit where the contaminants and solvent are separated from the soil.

Participation II: Energy Transition and the Road to Net-Zero Emissions

Presented by: Eng. Mariam Al-Ajmi

Environment & Energy Transition Team

Remediation Results

Soil Before and After Treatment



Contaminated Soil

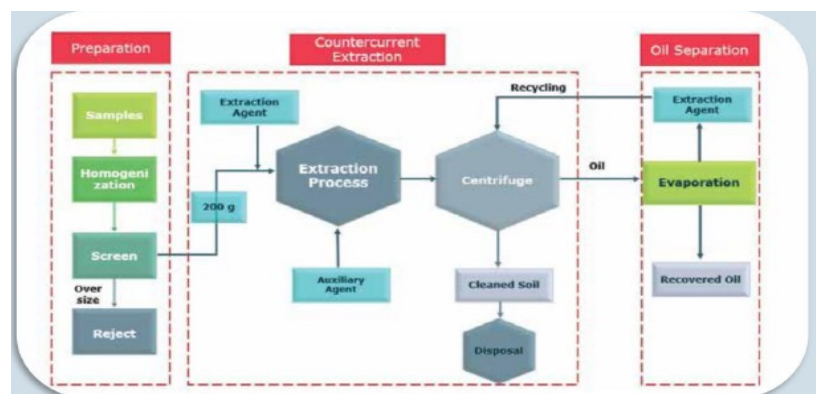


Treated Soil

HSE Group

Energy transition refers to the global shift from an energy system dominated by fossil fuels—such as coal, oil, and natural gas—to one based on renewable energy sources like solar, wind, and hydropower, alongside improvement in energy efficiency and the use of low-carbon technologies.

- Key Benefits of Energy Transition:
- Reduce GHG Emissions.
- Increase Energy Efficiency.
- Promote Sustainable Development.
- Enhance Energy Security.



Kuwait's Global Climate Commitment

Kuwait is committed to international climate action through its participation in the UNFCCC and its endorsement of the Paris Agreement, which was adopted under the UNFCCC.

The Paris Agreement aims to limit global warming to 1.5°C. To support this goal, countries submit NDCs that are updated every five years to reflect more ambitious efforts in reducing GHG emissions.

A core principle of the Paris

Agreement is achieving net-zero emissions, meaning the balance between emissions produced and those removed from the atmosphere.

Kuwait has pledged to achieve net-zero emissions by:

- 2050 in the oil and gas sector
- 2060 in all other sectors

KPC's Commitment to Net-Zero Emissions

- KPC has developed a comprehensive energy transition strategy and roadmap and set ambitious goals to support Kuwait's commitment to achieving net-zero emissions

by 2050.

• STRATEGIC MISSION STATEMENT

Continue to act as a responsible hydrocarbon producer, driving sustainability of own operations with least GHG emissions and leverages its unique platform to develop new energy businesses.

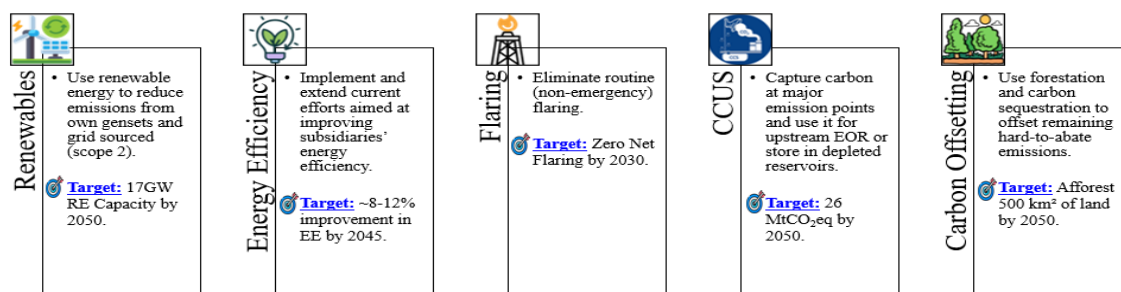
• STRATEGIC VISION STATEMENT

Supply energy resources at lowest emissions intensity, commit to achieve net zero scope 1+2 GHG emissions by 2050 and selectively invest in new alternative energies.



KOC's Strategic Steps Towards Net-Zero Emissions

- KOC's strategic initiatives includes:



- Each strategic initiative has a detailed roadmap that outlines specific projects and programs that ensure structured implementation and measurable progress.

Kuwait Oil Company Inaugurates Sayahad Al-Magwa Greenery Initiative

*An Institutional Model for Sustainable
Environmental Development*





Adjacent to the KOC Magwa Complex, a significant environmental transformation has taken place. What was once a barren expanse of desert land has now been carefully cultivated into a thriving greenery initiative that embodies Kuwait Oil Company's (KOC) deepening commitment to environmental stewardship and operational sustainability. The Sayahad Al-Magwa Greenery Initiative, officially inaugurated under the patronage of Manager Operations Support – Gas, Dr. Fahad Al-Ghanem, in the presence of TL Operations Tech Services – Gas, Hani Al-Awadi, and several Team Leaders, represents a landmark initiative within the Company's broader environmental strategy.

Dr. Fahad Al-Ghanem:

"The inauguration of Sayahad Al-Magwa reflects KOC's strategic direction toward embedding sustainability across all our operations. This initiative demonstrates our ability to act locally while aligning with global environmental priorities."

This initiative covers 14,000 square meters and features over 1,200 desert plant seedlings, nourished by 1,215 cubic meters of treated soil provided by the Project Management Team (PMT-31).

Sayahad Al-Magwa is more than a landscape development effort; it is a testament to KOC's ability to integrate sustainability principles into its core operations using in-house capabilities and innovative resource management.

Restoring Biodiversity in Kuwait's Harsh Climate

Kuwait's natural desert environment is both delicate and enduring. Despite its arid conditions, the country is home to a resilient native ecosystem, capable of thriving with minimal external input. Recognizing the

ecological and symbolic importance of preserving native flora, KOC has prioritized afforestation, land rehabilitation, and native species conservation as part of its environmental protection agenda.

Team Leader Hani Al-Awadi

"Kuwait's desert ecology is fragile but rich in potential. By focusing on native plant species, we aim not only to preserve biodiversity but to regenerate it in a way that supports our environmental and operational objectives."



Sayahad Al-Magwa has been developed to reinforce this vision. The initiative not only enhances the natural landscape within the operational zone but also supports biodiversity, reduces dust emissions, and contributes to creating a more hospitable and environmentally responsible work environment for employees and contractors alike.

Strategic Objectives and Environmental Value

The primary objective of Sayahad Al-Magwa is to establish a sustainable green zone that offsets emissions associated with nearby gas operations. Through increased vegetation cover, the initiative contributes to carbon sequestration, improved air quality, and heat mitigation, all of which serve to reduce the environmental footprint of KOC's industrial activities.

Additionally, the initiative serves an educational and awareness-raising function by promoting sustainable land

use practices and encouraging environmental consciousness among internal stakeholders.

Development and Execution

The concept for Sayahad Al-Magwa was introduced during mid-2024, following an environmental review of potential greening opportunities in proximity to the Magwa Complex. Operations Technical Services – Gas spearheaded the planning, collaborating with various Asset Teams to identify the most suitable location and overcome technical challenges.

One of the most rewarding aspects of this initiative was overcoming logistical and environmental constraints using only internal resources—making it a powerful example of what cross-team collaboration can achieve when aligned with a clear environmental vision.

Two primary constraints were addressed:

- Clearing and preparing the site without disrupting ongoing operations.
- Ensuring the survival of newly planted flora under extreme environmental conditions.

A strategic solution was adopted using treated soil and sustainable water sources from the Magwa Complex. The initiative was executed with minimal financial impact, relying predominantly on internal manpower and resources.

By January 2025, the site was transformed. More than 1,000 native and naturalized plant species — including Tamarix, Rhanterium, Haloxylon Amodendron, Acacia Tortilis, and Salvadora Persica — had been planted.

Mohammad Al-Tawary, Senior Engineer – Mechanical Maintenance, Operations Technical Services (Gas), explained the rationale behind the plant selection: “Our decision to prioritize native and

naturalized plant species was based on both environmental and operational logic. These plants are naturally adapted to Kuwait's climate and soil conditions, which means they require less water, lower maintenance, and have a higher survival rate. By choosing species like *Rhanteium* and *Acacia Tortilis*, we are not only restoring local biodiversity but also ensuring the long-term viability of the reserve."

Monitoring, Outcomes, and Early Indicators of Success

Following implementation, the area has been subjected to regular monitoring. Soil and water samples are tested to ensure suitable conditions for long-term plant growth. Initial assessments indicate healthy acclimatization, with the planted species demonstrating strong survivability and positive environmental impact.

The early results from Sayahad Al-Magwa are promising, not just in terms of plant growth, but also in raising awareness and creating pride among our teams. It proves that even small changes in the landscape can have significant impacts on wellbeing and environmental quality.

Key results observed include:

- A measurable reduction in localized carbon footprint.
- Enhanced air quality and thermal regulation.
- Improved workplace ambiance and staff wellbeing.
- Reinforcement of a culture of environmental responsibility across operational units.

A Forward-Looking Model for Environmental Integration

Sayahad Al-Magwa is emblematic of KOC's strategic vision to incorporate sustainable environmental practices within its operational ecosystem. The initiative serves as a scalable and replicable model, capable of being adapted to other operational sites across Kuwait.

Looking forward, Kuwait Oil Company will continue to pursue such initiatives as part of its broader environmental agenda, aligned with both national development goals and international sustainability frameworks. Specifically, the initiative supports the United Nations Sustainable Development Goals — SDG 13: Climate Action and SDG 15: Life on Land — by enhancing biodiversity, mitigating environmental degradation, and contributing to long-term climate resilience.

KOC remains committed to upholding environmental stewardship at the highest standards, both locally and globally. Through efforts such as Sayahad Al-Magwa, the Company affirms its role not only as a leader in energy production but also as a responsible custodian of Kuwait's natural heritage and a contributor to the global movement for environmental sustainability by 2030 and beyond.



Ahmadi Hospital: Arrival of Cutting Edge HealthCare Technology





Kuwait Oil Company is proud to announce a significant advancement in healthcare technology with the recent installation of the Acquilone One – Prism Edition CT imaging system from Canon-Japan at Ahmadi Hospital. This state-of-the-art machine, which is the first of its kind in the Middle East, exemplifies the commitment of the Medical Group at Ahmadi Hospital to provide the highest quality patient care through the latest technological innovations.

A Milestone for Radiology

The commissioning of the Acquilone One – Prism Edition took place under the esteemed patronage of key figures including Qusai Al-Amer, Deputy Chief Executive Officer of Admin & Finance; Dr. Mubarak Al-Ajmi, Manager of the Medical Group at Ahmadi Hospital; and Dr. Faisal Al-Kandari, Chief of Medical Support Services, along with other distinguished leaders from the Medical Group. Their involvement underscores the importance of this advancement in radiological services, enhancing the hospital's capabilities in diagnosing and treating patients.

Advanced Imaging Capabilities

The Acquilone One – Prism Edition is not just any imaging system; it is one of the highest-end CT scanner available today, boasting advanced technical specifications that set a new standard in medical imaging. With its 640-slice capability and the largest detector size in the world, this system features the smallest detector cells, allowing for extensive patient coverage with each rotation. This innovation translates to superior imaging resolution, with slice thicknesses as low as 0.5 mm, making it an invaluable tool for accurate diagnostics.

One of the most remarkable features of this CT imaging system is its integration of the latest artificial intelligence technology. This AI-driven capability significantly contributes to dose reduction, ensuring that patients receive the most effective care while minimizing exposure to radiation. For patients who are obese or have irregular heart rates, the Acquilone One is particularly beneficial, providing

the highest clarity in imaging and improving cardiac imaging outcomes.

Pioneering Spectral Imaging Technology

In addition to its impressive specifications, the Acquilone One – Prism Edition is equipped with cutting-edge spectral imaging technology. This rapidly evolving aspect of medical imaging has various clinical applications, allowing healthcare professionals to obtain more detailed and accurate images. The introduction of spectral imaging at Ahmadi Hospital represents a leap forward in diagnostic capabilities, enabling physicians to make informed decisions based on superior image quality.

Continuing the Vision of Excellence in Patient Care

The arrival of the Acquilone One – Prism Edition is a testament to the Medical Group's enduring vision to integrate the latest healthcare technology into its facilities. By continuously upgrading their medical equipment and services, Ahmadi Hospital reaffirms its commitment to providing the best possible care for its patients. This advanced CT imaging system is not just a technological upgrade; it is a step toward enhancing the overall patient experience and improving health outcomes in the community.

As Ahmadi Hospital embraces this new era of healthcare technology, it stands at the forefront of medical innovation in the region, setting a benchmark for quality and care in the medical field. The Medical Group remains dedicated to its mission of bringing the latest advancements to its patients, ensuring that every individual receives the best care possible.

Stratigraphy of Kuwait: A Comprehensive Overview

Kuwait's geological framework is characterized by a rich and complex stratigraphy that spans from the Permian to the Quaternary period. This stratigraphic sequence is primarily composed of sedimentary rocks, including limestone, shale, sandstone, and evaporites, which have significant implications for hydrocarbon exploration and groundwater resources in the region.

The Kuwaiti Digest offers a breakdown of Kuwait's geological formations along with the dominant rock types in each formation. These formations span from the Cenozoic to the Permian, and include clastics, carbonates, and evaporites:



Cenozoic Era

1. Dibdibba Formation
 - Rock Types: Sandstone, gravel, siltstone, clay
 - Depositional Environment: Fluvial and alluvial
2. Lower Fars Formation
 - Rock Types: Gypsum, marl, claystone, sandstone
 - Depositional Environment: Shallow marine to continental
3. Ghar Formation
 - Rock Types: Sandstone, siltstone, marl
 - Depositional Environment: Fluvial to marginal marine
4. Dammam Formation
 - Rock Types: Limestone, dolomite, marl
 - Depositional Environment: Shallow marine carbonate platform
5. Rus Formation
 - Rock Types: Limestone, anhydrite, marl

- Depositional Environment: Shallow marine to evaporitic
6. Radhuma Formation
 - Rock Types: Limestone, dolomite, marl
 - Depositional Environment: Open marine

Mesozoic Era

7. Tayarat Formation
 - Rock Types: Marl, limestone
 - Depositional Environment: Marine
8. Mishrif Formation
 - Rock Types: Limestone (often fossiliferous), dolomite
 - Depositional Environment: Shallow marine carbonate ramp
9. Ahmadi Formation
 - Rock Types: Limestone, shale
 - Depositional Environment: Marine shelf
10. Wara Formation
 - Rock Types: Sandstone, silt-

- stone, shale
 - Depositional Environment: Deltaic to marginal marine
11. Mauddud Formation
 - Rock Types: Limestone, dolomite
 - Depositional Environment: Shallow marine carbonate
 12. Burgan Formation
 - Rock Types: Sandstone, shale
 - Depositional Environment: Fluvial to deltaic
 13. Shuaiba Formation
 - Rock Types: Limestone, marl
 - Depositional Environment: Shelf to basinal carbonate
 14. Zubair Formation
 - Rock Types: Sandstone, shale
 - Depositional Environment: Fluvial-deltaic
 15. Ratawi Formation
 - Rock Types: Limestone, shale
 - Depositional Environment:





Marine

16. Minagish Formation

- Rock Types: Limestone, shale
- Depositional Environment: Shallow marine

17. Makhul Formation

- Rock Types: Limestone, shale
- Depositional Environment: Marine carbonate shelf

18. Hith Formation

- Rock Types: Anhydrite, limestone
- Depositional Environment: Restricted marine, evaporitic

19. Gotnia Formation

- Rock Types: Anhydrite, gypsum, dolomite
- Depositional Environment: Evaporitic sabkha

20. Najmah Formation

- Rock Types: Limestone, dolomite
- Depositional Environment: Shallow to deep marine

21. Sargelu Formation

- Rock Types: Shale, limestone
- Depositional Environment: Deep marine

Jurassic–Triassic

22. Dhurma Formation

Rock Types: Limestone, marl
Depositional Environment: Marine

23. Marrat Formation

Rock Types: Limestone, shale, dolomite

Depositional Environment: Marine carbonate ramp

24. Minjur Formation

- Rock Types: Sandstone, siltstone, claystone
- Depositional Environment: Continental to marginal marine

Triassic–Permian

25. Jilh Formation

- Rock Types: Dolomite, limestone, shale
- Depositional Environment: Shallow marine

26. Sudair Formation

- Rock Types: Mudstone, shale
- Depositional Environment: Lagoonal to restricted marine

27. Khuff Formation

- Rock Types: Limestone, dolomite, anhydrite
- Depositional Environment: Shallow marine to evaporitic

28. Unayzah Formation

- Rock Types: Sandstone, siltstone, shale
- Depositional Environment: Fluvial to desert

Interview with the current President of the Kuwait Geosciences Society Dr. Mubarak Al-Hajri, who is a Senior Petroleum Geoscientist in the Exploration Group

To further learn about Kuwait's

stratigraphy, the Digest met with Dr. Mubarak Al-Hajri, who shed light on different aspects related to KOC's subsurface challenges as well as other relevant details.

The Most Challenging Formations

Dr. Al-Hajri explained that the Jurassic formations, consisting of: Hith, Gotnia, Najmah, Sargelu, Dhurma, and Marrat are the most challenging.

This is due to its great depth, 11,000 ft under sea level. In addition, it contains high concentrations of H₂S gases, and it is characterized by high temperature and high pressure, making it risky and challenging from a drilling point of view.





Dr. Al-Hajri explained that this is managed with proper well design, controlled drilling parameters, precautions, and high safety measures.

Surface vs. Subsurface

When discussing surface versus subsurface geology, Dr. Al-Hajri explained that surface geology is naturally much easier to study, as the rocks are exposed. They can be seen, touched, and directly analyzed, making them highly accessible. This exposure provides a valuable three-dimensional perspective, which is essential for geological interpretation. Surface geology is particularly important because it often serves as a reference for understanding the subsurface.

Surface depends on field and outcrop observations and descriptions, which is straight forward.

When it comes to subsurface, three main techniques are utilized:

1. Seismic data is used to show the subsurface image with its formations (provides a scan).
2. Core analysis. When drilling a well, reservoirs of interest have core rocks extracted. These samples are then analyzed to find the reservoir's properties. This process is well-based (sparse).
3. Wire-line logging. When drilling a bore hole, a tool with sensors is inserted to detect rock properties. This helps us differentiate between types of rocks.

Stratigraphy of Kuwait: A Comprehensive Overview

ERA	Period	Formation
Cenozoic	Quaternary	Dibdibba Formation
		Lower Fars
		Ghar
	Tertiary	Dammam
		Rus
		Radhuma
Mesozoic	Cretaceous	Tayarat
		Mishrif
		Ahmadi
		Wara
		Mauddud
		Burgan
		Shuaiba
		Zubair
		Ratawi
		Minagish
		Makhul
	Jurassic	Hith
		Gotnia
		Najmah
		Sargelu
		Dhruma
		Marrat
	Triassic	
		Minjur
		Jilh
		Sudair
Permian	Paleozoic	Khuff
		Unayzah

Shamiya Greenhouse Nature Reserve: A Green Haven in the Heart of the City



Real change and progress are not only in the hands of major entities and institutions—but also every day, passionate and determined individuals from every segment of society.



For this article, the Digest met with three influential figures in Kuwait's environmental preservation efforts: Head of Mission of UN Human Settlements Program (UN-Habitat) to GCC and Kuwait Dr. Amira Al-Hasan, Deputy Head of Mission at UN-Habitat GCC Kuwait Qusai Al-Duaij, and Co-founder of Shamiya Greenhouse Nature Reserve, the esteemed Adeeba Al-Fahad.

The interview unfolded within the inspiring premises of the Reserve, a lush green space where many important and meaningful conversations take place, and the Digest was able to gain

valuable firsthand insight into the goals of UN-Habitat and Shamiya Reserve alike.

Together, Dr. Al-Hasan, Al-Duaij, and Al-Fahad shed light on various aspects of environmental awareness, protection and preservation in Kuwait, including the UN-Habitat's ongoing, nationwide activities, the major role K-companies, particularly KOC, play in this noble and necessary goal, and the importance of passionate, determined Kuwaitis who devote their time to raising awareness and making a change.

UN Habitat's Presence at the Reserve

To begin, the Kuwaiti Digest gained valuable insight from Head of Mission of UN Human Settlements Program (UN-Habitat) to GCC and Kuwait Dr. Amira Al-Hasan, who commended KOC's ongoing cooperation with UN Habitat.

She began by explaining that Al-Duaij and herself are regular visitors of Shamiya Reserve for a number of reasons, including engaging those present with the latest information on climate change mitigation. She added that UN-Habitat tries to carry

out activities that both serve Shamiya Reserve and realize the Sustainable Development Goals in Kuwait, particularly 13, 14, and 15, which of course, KOC embraces as a core part of its strategic goals.

Dr. Al-Hassan explained that UN-Habitat's activities in general, which also take place at Shamiya Reserve, include workshops with public and private schools, and change with the season; where each season has different themes and activities, making them more engaging and exciting.

"Our presence here is not only as UN-Habitat, but also as volunteers and supporters of external communities. We believe that raising awareness of the local community is essential to support strategic plans, through workshops that provide knowledge and information, and equip people of all ages with the right tools for environmental preservation, especially since Kuwait's desert environment poses significant challenges. Successful intervention with public spaces must consider hot, arid climate and water scarcity."

Dr. Al-Hassan added that greening must follow the latest, innovative methods, and workshops must provide this know-how.

She added that there are many standing testaments to this great success, as they receive numerous coverages from partners and attendees to showcase what they did in their own environment based on the workshops they attended. She also highlighted that their collaboration with Shamiya Greenhouse volunteers extends beyond the space itself, explaining that there are several nurseries within the reserve in which they grow saplings, including mangrove, which helped them plant



hundreds of mangrove saplings in Jahra Nature Reserve and on the seashore, where KOC was involved in one such initiative.

UN-Habitat also gave away thousands of seeds for people to plant, including those that are useful in daily life, such as Moringa. It also facilitates volunteers' participation in different UN international days, events, celebrations, and national urban

forums, aiming to further engage them with international trends, with a new theme each year.

UN Habitat and KOC: A Success Story

Dr. Amira Al-Hassan showed significant pride and enthusiasm about UN-Habitat's successful, close, and growing co-operation with K-companies, particularly KOC.



"From UN Habitat, we thank all people who collaborated, and supported us, in particular KOC, because through our engagement with them, we succeeded in many fronts, in nature reserves owned by the oil sector, as well as other areas across Kuwait."

KOC always actively participates in World Urban Forums and National Urban Forums, as well as the Assembly.

Notably, UN Habitat supported the World Robot Olympiad that KOC hosted recently, which further strengthens their collaborations. Dr. Al-Hassan explained that the WRO is highly relevant to UN Habitat, because the AI era helped us link between modern practices and climate change interventions by engaging the youth in this exercise. She expressed her con-

fidence that all participants will become future leaders, finding new innovative ways to serve sustainability that are specifically geared towards Kuwait, and that she is looking forward to seeing these results.

From his side, Al-Duaij also had many words of praise for KOC.

He started by affirming that UN-Habitat is very happy with its cooperation with K-companies. In 2022, they signed an MoU with KPC, and their work with KOC in particular started in 2019.

The first edition of the Kuwait Planting Campaign was launched in 2019, and has been ongoing, where KOC actively participates with UN Habitat. Al-Duaij also used the WRO as an example that the two sides' cooperation extends beyond the environment.

The two sides have planted together in KOC's reserves, including Abdaliya, Subaihiya, and Ahmadi Oasis. UN Habitat also tries to include KOC in all international campaigns to bring awareness to KOC's international environmental efforts.

Shamiya Reserve: From Humble Beginnings to a Diwaniya for Nature Lovers

For this section of the article, the Digest met with one of the co-founders of the reserve, Adeeba Al-Fahad, who discussed Shamiya Reserve in detail.

Al-Fahad explained that work on the reserve began in 2014, and it was officially founded in 2017, in cooperation between three Kuwaiti women: Adeeba Al-Fahad, Nuha Al-Kharafi, and Mezna Al-Mutairi. The land was owned by Shamiya Youth Center, which granted the founders the full freedom and access to establish the Reserve.

It began as a small yet noble effort, until the community stepped in. Everyone was welcome, whether they came with an extra plant or something to recycle. Over time, it grew into the vibrant gathering place for nature lovers that it is today.

This is something the Digest can personally attest to. During our brief visit to the reserve, we observed how it brought together people of all ages and backgrounds, united by a shared passion for nature.

The reserve contains around 1000 trees and approximately 30 species. It mainly consists of trees.

The most important thing, Al-Fahad stresses, is the biodiversity in the reserve. "It is a wonderful example of how we can transform city parks into biodiverse urban climate forests that serve the cause of carbon neutrality. It also turns bird hunters into nature seekers".

Community Outreach

In this section, Al-Fahad and Al-Duaij explained that community outreach began through UN Habitat, which promoted the reserve through many small activities, and it quickly gained popularity.

This included involving several embassies to give it both local and international prominence and relevance.

For example, UN Habitat, Shamiya Reserve, and the Canadian Embassy all collaborated to celebrate Canadian Thanksgiving at the Reserve, an entertaining and engaging way to introduce the reserve to more people. The aim was to raise awareness for younger generations, through activities such as recycling, planting, handicrafts, and treasure hunting.



Al-Duaij confirmed that collaboration with embassies has brought many more visitors to Shamiya Reserve.

The space is also used for lectures. From the UN's side, it held the "Green Employee" lecture. This initiative was taken by UN Habitat to introduce greening practices to different staff in different environments.

Al-Duaij also shared the 2nd of August celebration organized by UN-Habitat, where dates were collected from all over Kuwait, Shamiya Reserve being the hub where the dates were gathered. This exemplifies the Reserve's outreach and involvement in environmental activities all over Kuwait.

Safe Haven for Diverse Species

Al-Fahad passionately stated that all animals are welcome in the reserve, with some visitors such as birds and chameleons during public visiting hours, where everyone is welcome to interact with them in a suitable manner: yet another opportunity to educate the public and

familiarize them with animals.

Al Fahad also added that they placed toads in the reserve for reproduction for environmental purposes, as they eat pests which eliminates the need for harmful pesticides.

Some common birds, such as bulbuls, can be found here, and many migratory birds regularly visit the reserve. Birds such as the kingfisher and heron are attracted to the reserve due to the presence of fishponds, and those fish clear the ponds from mosquito larvae: thus making the reserve an independent and protected ecosystem.

Al Fahad explained that the reserve brings together all walks of life each Saturday for environmental purposes, and is carefully designed to welcome visitors throughout the year through specialized cooling designs.

Al Fahad also mentioned that dragonflies are another useful species in the reserve, who lay their eggs in the water and also eat harmful larvae without the

need for pesticides. Green lacewings also serve this purpose.

Spring birds, hoopoes, eagles, and falcons also visit the reserve.

Some Tortoises find shelter here too, usually given up by owners who can no longer care for them and want to find them a safe space.

As all of this takes place in the heart of the city, Al Fahad explains, temperatures decrease, and biodiversity increases.

From the amount of plant biodiversity, lots of “helpful insects”, such as honeybees and ladybugs, also visit. Natural pollinators such as hover flies are also found here.

Al Fahad confirmed that as the space grows, these species will spread. She also explained that they wish to create safe homes for ladybugs to protect them from the heat.

She also revealed that no chemicals are found in the soil, only natural fertilizers from the animals present are used, and no materials are imported either, which reduces even more waste and pollution.

Shamiya Reserve’s integrity, dedication, and strong environmental values and principles are evident in every corner.

Fruits and Trees

The reserve features both an indoor and outdoor “food forest”, one inside greenhouses and another in the general premises of the reserve. Al Fahad explained that 2 meters of organic waste, including natural wood, leaves, and other organic materials are used to grow these food forests.

This includes pineapples, local strawberries, several kinds of bananas, mangoes, guava, and coffee. Some of these fruits are

being grown experimentally for the time being, with the aim of growing them outside despite the arid climate.

As for the trees in the reserve, this includes over 50 Sidr trees, two different kinds of “Bambar” (*cordia myxa*), rose apple, mulberry trees, citrus, olives, and fig trees.

Noble Goals & High Aspirations

Al Fahad added that visitors can reach up to 60 people per day, where the reserve serves as a multipurpose space. She stated that in the reserve, the sun isn’t seen as an obstacle as it usually is in Kuwait, but rather a resource they hope to harness by creating solar power stations.

She also stressed that while everyone is welcome, this isn’t a public park: this space serves a higher purpose, which is to protect Kuwait’s land and support its efforts towards carbon neutrality. She also hopes for more similar spaces, but emphasizes that this requires hard work and patience.

She proudly added that this place was established even before Kuwait’s strategies in this area were officially activated.

Al Fahad hopes we can reduce pressure on national electricity stations, raise community awareness, and not be wasteful. “We strive beyond sustainability,” she says. “We must multiply our reserves rather than simply maintain them. Sustainability alone isn’t enough”.

In addition, Al Fahad expressed her hopes for developing Kuwait’s public parks and general spaces to make them suitable for life all year round. This is all within the framework of carbon neutrality goals for the whole world.

Greening can also expand to schools and educational facilities, where awareness begins to build a greener future.

Al Fahad also added that the reserve regularly holds activities involving upcycling, reusing, and re fixing. All sorts of materials, even building waste can be processed here, and around 7000 tons of water have been re used



Nurses Week Celebrations in Kuwait

A black and white portrait of Florence Nightingale, a woman with dark hair styled in a bun with a white lace headband. She is wearing a dark, high-collared dress with a patterned bodice and a white lace collar. She is looking slightly to the left of the camera.

Florence Nightingale
Founder of Modern Nursing
Born on 12 May 1820



Context and Importance of Nurses Week in Kuwait

Nurses Week in Kuwait is part of a global observance that highlights the critical role nurses play in healthcare delivery. Kuwait, like many countries, dedicates this time to acknowledge the hard work, dedication, and impact nurses have on patient outcomes and the health system as a whole. The celebration often coincides with International Nurses Day on May 12, which marks the birth anniversary of Florence Nightingale, the founder of modern nursing.

In Kuwait, Nurses Week goes beyond just a day of recognition. It spans several days with a series of events that involve government agencies, hospitals, educational institutions, and professional nursing bodies. The focus is on not only celebrating but also empowering nurses through professional development and policy advocacy.

In acknowledgment of the vital humanitarian role nurses play in society, one that deserves continual recognition, the Kuwaiti Digest highlights various events celebrating Nurses Week across Kuwait in recent years.

Ministry of Health (MoH) Leadership and Initiatives

The Kuwait Ministry of Health (MoH) plays a central role in orga-

nizing and leading Nurses Week celebrations. In 2024, the Ministry embraced the International Council of Nurses' (ICN) theme: "Our Nurses. Our Future. The economic power of care," which draws attention to the significant economic and social contributions nurses make worldwide.

Key Highlights included:

- Speeches by high-ranking officials such as Dr. Abdul Rahman Al-Mutairi, the Undersecretary of the Ministry of Health, who stressed the government's commitment to nursing as a cornerstone for improving healthcare quality.
- Announcements of new initiatives, including specialized training programs in partnership with renowned international institutions such as Johns

Hopkins Hospital and the American University of Beirut. These programs aim to boost the skills and competencies of nurses in areas like critical care, oncology, and community health nursing.

- Discussions on improving working conditions for nurses, enhancing career progression pathways, and increasing investment in nursing education.
- Various hospitals and health-care facilities across Kuwait, both public and private, also host their own celebrations to honor nurses. These events are often both formal and informal, blending awards, social gatherings, and educational activities.

Educational and Professional Development Conferences

Kuwait has increasingly integrated educational events during Nurses Week to support ongoing professional growth and innovation in nursing practice:

1. Innovation in Nursing Care Conference 2024 (December 23-24, 2024)
- Hosted at the Courtyard Araya Ballroom, this conference brought together nurse leaders, policymakers, and healthcare technology experts.
 - Sessions covered telehealth advancements, patient-centered care models, and leadership in nursing.





- Under the patronage of Minister of Health Dr. Ahmad Al Awadhi, the conference emphasized preparing nurses for future healthcare challenges.
- 2. AI-Powered Nursing Conference (September 30, 2024)

Hosted by Dar Al Shifa Hospital, titled "AI Powered Nursing - Shaping Tomorrow's Care", this hybrid event focused on integrating artificial intelligence tools into nursing. It explored practical applications such as AI-driven patient monitoring, predictive analytics for early disease detection, and personalized care plans. It also addressed ethical and privacy considerations surrounding AI use in healthcare.

Broader Significance of Nurses Week in Kuwait

- Raising Awareness: Nurses Week activities raise public awareness about the challenges nurses face, such as burnout, staffing shortages, and the need for fair wages and career advancement.
- Policy Advocacy: The celebration serves as a platform for advocating policy changes, including better staffing ratios, expanded scope of nursing practice, and increased funding for nursing education.

- Community Engagement: Through outreach programs and health education campaigns, nurses connect directly with communities to promote health literacy and preventive care.
- International Alignment: By aligning with global themes from the International Council of Nurses, Kuwait emphasizes its commitment to the global nursing agenda, including Sustainable Development Goals (SDGs) related to health.

Kuwait Honors Nurses On International Nurses Day (2025)

On Tuesday, May 14th, 2025, Kuwait's Ministry of Health celebrated International Nurses Day, holding an event themed "Our Nurses, Our Future: Caring for Nurses Strengthens the Economy." The occasion was graced by the presence of His Excellency Dr. Ahmed Al-Awadhi, Minister of Health, along with Undersecretary Dr. Abdulrahman Al-Mutairi.

Minister Al-Awadhi Highlights Nurses' Essential Contributions

During his address, Dr. Al-Awadhi highlighted the indispensable role nurses play in delivering quality healthcare and advancing the health sector's objectives. He

reaffirmed the Ministry's dedication to fostering the nursing profession through continuous education and professional growth programs.

Dr. Iman Al-Awadhi on Promoting Nursing Excellence

Dr. Iman Al-Awadhi, head of the Nursing Services Department, spoke about the significance of the "Ideal Nurse of the Year 2025" award. She pointed out that the award promotes a spirit of leadership, innovation, and excellence within nursing, in line with the Ministry's vision of a capable and dynamic healthcare workforce.

Honoring Kuwait's Outstanding Nurses

The event celebrated distinguished male and female nurses honored with the "Ideal Nurse of the Year 2025" award. Representatives from various healthcare institutions participated, including the Ministry of Defense, National Guard, Ahmadi Hospital (Kuwait Oil Company), private medical facilities, and the Public Authority for the Disabled.

Investing in Nurses to Boost Health and Economy

The theme for this year's International Nurses Day highlights how investing in nursing professionals



strengthens health systems, enhances patient care, and contributes positively to economic growth.

Looking Ahead: Strengthening Kuwait's Healthcare Through Nursing

By empowering and equipping nurses with the necessary skills, Kuwait's healthcare sector is poised to grow stronger, benefiting patients, communities, and the nation's economy alike.

Nursing Services Team in KOC

Team Leader Essam Taleb:

Ahmadi Hospital Nursing Services Team plays a major role in the Kuwait Oil Company (KOC) Medical Group. It consists of a highly diverse group of over 1,000 motivated nurses with various specializations whose main focus is providing the highest standards of care, improving patient outcomes to meet our patients' and stakeholders' expectations.

Our nurses continuously strive to achieve excellence in nursing practice, embodies the core values of patient and family-centered care, accountability, autonomy and interdisciplinary collaboration. Ahmadi Hospital Nursing's Professional Practice Model encompasses the conceptual framework for all nurses to achieve its mission, vision and philosophy.

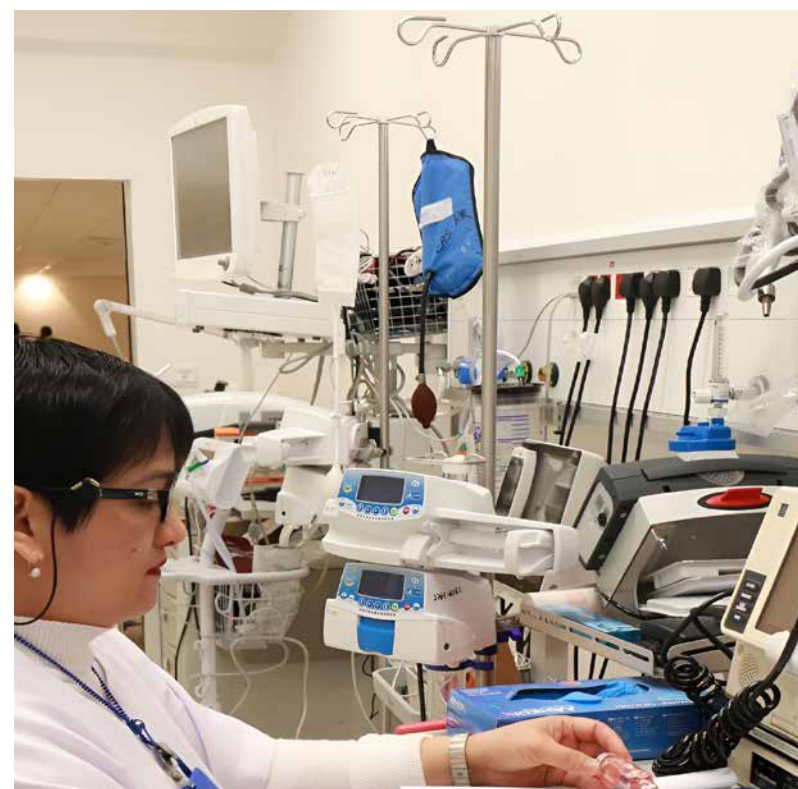
In spearheading our commitment to Kuwaitization in Ahmadi Hospital, our Nursing Services Team in tandem with the broader Kuwait Oil Company Medical Group entered into a mutual agreement with Kuwait Public Authority in Applied Education and Training (PAAET) Nursing College in exploring and developing the country's nurse leaders of the future.

As the Team Leader of Nursing Services in Ahmadi

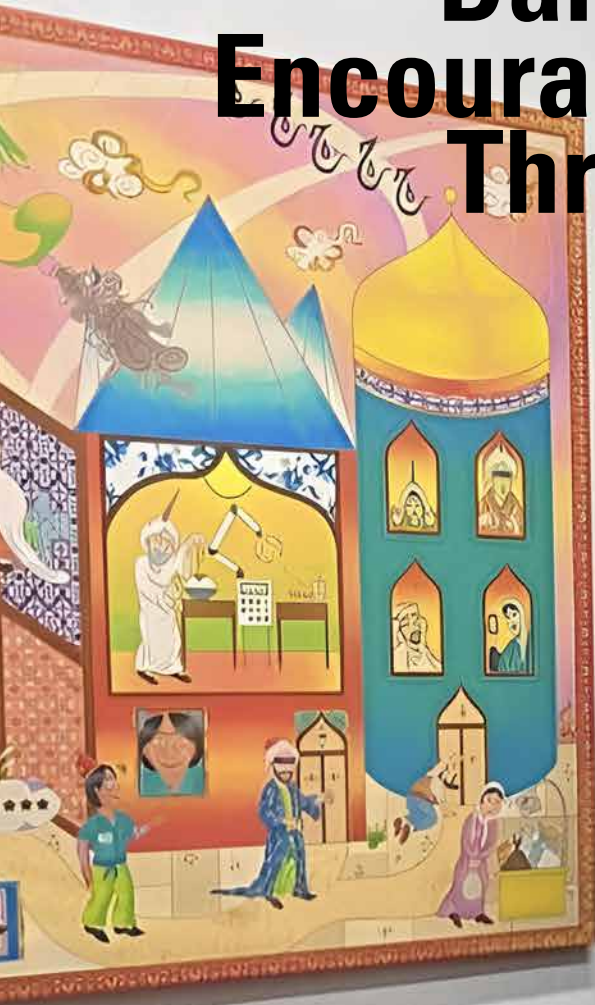
Hospital, I am filled with pride and immense gratitude to all who have, and continue to support our hospital's shared commitment to providing top-quality care to our patients and their families.

Summary

Nurses Week celebrations in Kuwait are a comprehensive mix of recognition, education, policy dialogue, and community engagement. The Ministry of Health and leading hospitals, including Ahmadi Hospital, collaborate to highlight the essential role nurses play in safeguarding public health. Through conferences, training programs, social events, and advocacy, Kuwait is working toward elevating the nursing profession and ensuring nurses are equipped for the future of healthcare.



Dana Al-Rashid: Encouraging Preservation Through Beauty



In this issue of The Digest, we met with a talented and passionate local artist whose work has consistently made a statement. Her distinctive voice and style have drawn the attention of international galleries and artistic institutions, where she was able to shed light on Kuwaiti culture and various social issues, as well as provide an ideal example of young, talented Kuwaiti artists with a profound message to share.

Al-Rashid typically creates modern interpretations of traditional Persian Miniature art, portraying various issues and aspects of Kuwaiti life, including urbanization, preservation of historic architecture, the impact of technological advancement on nature, consumerism, among other significant topics.

In her latest artistic endeavor, Al-Rashid participated in the "Ancestral Bonds: SADI 2025" Exhibition at Sadu House with a standout piece that represented Kuwaiti wildlife in a beautiful and memorable way, leaving visitors with a lasting impression that she hopes would inspire change and a deeper appreciation of Kuwait's natural beauty and nature, and the subsequent importance of its preservation.

Al-Rashid's passion is palpable through her deep attention to detail, where each plant and animal portrayed is of significance. In the following article, The Digest explores Al-Rashid's background and experience with the exhibition, and dives into her participating work that consists of four distinct parts.

Sadu House Unveils "Ancestral Bonds": A Contemporary Tribute to Kuwaiti Heritage

Sadu House in Kuwait City recently unveiled its seventh annual Sadu Art & Design Initiative (SADI) exhibition, titled

"Ancestral Bonds." This exhibition brought together five emerging Kuwaiti artists who reimagined the traditional craft of Sadu weaving through innovative and contemporary artistic expressions. Celebrating Kuwait's designation as a World Craft City for Sadu weaving by the World Crafts Council, the exhibition reflected a continued national commitment to preserving intangible cultural heritage while inspiring new creative dialogues.

The Kuwaiti Digest had the privilege of meeting with Dana Al-Rashid, one of the participating artists in the Exhibition, and the insights from our conversation are shared below.

• **To begin, could you please introduce yourself and share**

a little about your artistic background and journey?

I am Dana Al Rashid, a visual artist and an architect working in the NCCAL. I graduated from Kuwait University with a bachelor's degree in architecture. I took numerous theory and practice classes there, which really prepared me for the next phase of my life.

Right after graduation, I got a full scholarship at Cartoon Network Animation Academy, which is located in Twofour 54, Abu Dhabi. This further developed my career in visual arts, giving me access to valuable opportunities and connections.

My passion for drawing dates back to my early childhood. I would carry my sketchbook with me wherever I go and draw prolifically every single day. I have completed endless notebooks since then, and looking back, it was very satisfying to observe my growth as an artist over the years.

I am also a big fan of digital art, but I do believe you need to master proper technique in traditional media before delving into it. I love using my Wacom tablet to create intricate illustrations and Pixel Art, which was





part of my process when creating the piece for this year's Sadu House participation.

- **Outside of this exhibition, you are known for your contemporary reimagining of traditional Persian Miniature art and have participated in numerous notable showcases over the years, in Kuwait, the region, and abroad.**

What initially inspired you to focus on this particular artistic tradition?

When I was studying architecture at Kuwait University, a professor enticed us to imagine Kuwait in a flat perspective similar to the one found in miniature art, and what we would see in terms of landscape and urban development. I feel that this thought stayed dormant for a while and came to light when the time was due.

I find it important to draw inspiration from our own heritage (Islamic and Middle Eastern art) rather than keep borrowing from western schools of thought -without disregarding their valuable contributions to humanity- to maintain and develop our own sense of identity.

- **Your work was undoubtedly one of the stand-out pieces in the exhibition.**

Could you share your thoughts on the "Ancestral Bonds: SADI 2025" Exhibition as a whole, including its theme, and your overall impression?

The theme 'Ancestral Bonds' is very much aligned with my artistic vision of drawing from the riches of the past to create something new that is still rooted in our culture.

I really enjoyed the coverage and exposure of my work in the gallery. It was heartwarming to see how many people visited and enjoyed my work, as well as the fellow artists, where we all showcased our appreciation of a longstanding Kuwaiti practice in our own ways.

- **Now to your contribution to this year's exhibition.**

Could you provide an overview of your featured work and explain what motivated you to participate in this particular event?

I was personally invited to participate in this event, due to the relevance of the themes I consistently explore and portray in my artwork. This time, my work was a series of embroidered artworks documenting Kuwait's wildlife. These works are inspired by Islamic motifs and mosaic art. The artworks are also inspired by the Sadu weavers, where Bedouin women would instinctively weave what they saw around them in their immediate environment.

- **Your piece consists of four distinct parts. Could you describe each part in detail, including the**

flora and fauna represented, and the significance behind your choices?

The Hankur Tapestry

This piece depicts the official bird of Kuwait, the Hankur (Crab-plover), accompanied by Kuwait's national flower, the Arfaj. The crab, the Hankur's main source of food, also shares its habitat in the wetland (sabkha) of Bubiyan Island. This painting is decorated with numerous local plants, including the Nuwair flower, the Ramth flower, lavender, the Lusan flower, and the desert daisy. The palm tree and stars are inspired by Dilmunite symbolism. Primary colors were used (blue, red, and yellow), as this tapestry reflects Kuwait's national and official natural elements.

The Hoopoe Tapestry

This piece illustrates the migrating hoopoe with several distinctive local plants, such as Hamat, Halook, and Kasob, decorated with small flowers of Nuwair and Eshib Al Thabi, and inlaid with stars, moons, and suns. The plants and flowers were specifically chosen to complement the aesthetics of the hoopoe.

The Flamingo Tapestry

Here we see Kuwait's well-known flamingo with shrimp and algae, foods that give it its unique pink color. Cool pinks and blues were chosen to reflect the aesthetics of the flamingo's delicate beauty. Elongated flowers such as Kuraith were added to complement its appearance. We also see various other local plants, such as Ghargad, Humaidh, Onseel, Shabram, and Qotb flowers.

The Eagle Tapestry

In this piece, we see the Steppe Eagle, which visits Kuwait in autumn and spring in large numbers. Star-shaped flowers were chosen and symmetry employed to create a coat-of-arms-like aesthetic. This work also features buttercups, Hanthal (colocynth), Sileeh, and fruiting Sidr tree, as well as Arta and lavender flowers.

- **Your passion for preserving and appreciating Kuwait's wildlife deeply resonates through your work and associated discussion. As a closing thought, what message would you like to share with our readers to inspire greater**

awareness and care for Kuwait's natural environment?

This series aims to raise awareness of the local desert aesthetics, rather than seeking beauty elsewhere. It aims to remind the viewer of the importance of protecting this unique ecosystem from human cruelty, whether it's through hunting or thoughtless urban expansion. I hope that it has encouraged people to further explore, protect, and nurture their own environment.

I'd like to imagine a future where locals grow local plants and flowers instead of importing plants that are ill-suited for our climate. Imagine the joy would it bring to see our native plants used in urban landscapes, bringing in more birds and animals, as well as improving the air quality and cooling down the temperature.

I also wanted to illustrate Kuwait's inclusive and diverse environment, welcoming immigrants from all walks of life, whether in human or bird form, as it has always been a node of transit and connection.

Sadu House: A Cultural Beacon

Founded in 1980 by the Al Sadu Society, Sadu House serves as both a museum and a cultural hub dedicated to safeguarding and evolving the Bedouin textile tradition. Sadu weaving is characterized by its geometric patterns and was traditionally practiced by Bedouin women as a form of both utility and artistic expression. Through initiatives like SADI, the institution not only preserves this heritage but also invites artists to reinterpret it in ways that resonate with younger generations and global audiences.

SADI 2025: Exploring "Ancestral Bonds"

This year's edition of SADI,



themed “Ancestral Bonds,” featured artists Abdulmohsen Al-Oraifan, Ghadeer Mohammed, Abdulaziz Shaheen Al-Rabea, Dana Al-Rashed, and Jasem Al-Sanea. Over a six-month residency and mentorship program that included workshops and expert guidance, the artists were encouraged to explore and respond to the concept of ancestry and cultural memory using Sadu as their medium.

Their final works were revealed in a temporary immersive installation in the courtyard of Sadu House—a modern room framed by LCD screens, merging traditional motifs with digital art. It was an experience designed not only to exhibit but to envelop, using technology to bring the rhythm and texture of Sadu weaving into motion and narrative.

Artistic Interpretations

- Abdulmohsen Al-Oraifan, an architect by training, presented Weaving Without Threads, a conceptual piece exploring the storytelling potential of Sadu beyond its physical form, examining its relationship to the environment and memory.
- Dana Al-Rashed showcased Conference of the Birds, a poetic installation inspired by

the symbolism of birds, using Kuwait’s native and migratory birds to reflect on the nation’s layered identity.

- Jasem Al-Sanea created Bar-BaharBarBahar, three tapestry pieces exploring the intersection of land and sea cultures in Kuwait, with the shoreline used as a metaphor for shared heritage.
- Ghadeer Mohammed, also with an architectural background, produced The Muqarnas of Sadu, a striking blend of textile and structure that layered Sadu weaving with Islamic architectural forms, playing with rigidity and fluidity.
- Abdulaziz Shaheen Al-Rabea contributed a mixed media piece reflecting on generational knowledge and cultural transmission, highlighting the resilience of heritage through personal narratives.

Engaging the Community

In addition to the visual exhibition, Sadu House hosted a panel discussion titled “The Role of Process,” moderated by curator Saphiya Abu Almaati. The event offered the public an opportunity to hear directly from the participating artists about

their methods, challenges, and inspirations. Guided tours were also held, deepening the visitors’ understanding of how traditional Sadu weaving could be transformed into new conceptual and visual forms.

A Cultural Invitation

“Ancestral Bonds” served as a powerful example of how tradition can be preserved while inspiring innovation. The exhibition was more than a showcase of textile art—it was a space for reflection, storytelling, and community dialogue. Through the works of emerging artists, Sadu House highlighted the richness of Kuwaiti identity, connecting past to present in a way that felt both grounded and imaginative.

While the exhibition has concluded, the mission of Sadu House continues year-round. Visitors to Kuwait who are interested in learning more about the country’s cultural roots are encouraged to explore the permanent exhibits at Sadu House or attend future programs that celebrate Bedouin craftsmanship through a modern lens.





ChatGPT vs Claude vs Gemini vs Grok: The AI Titans Compared in 2025

The artificial intelligence landscape has rapidly evolved over the past few years, culminating in a competitive race among top language models. As of 2025, four major AI chatbots dominate the field: ChatGPT by OpenAI, Claude by Anthropic, Gemini by Google DeepMind, and Grok by xAI (Elon Musk's AI venture).

Each brings unique features, strengths, and philosophies to the table. In this article, the Di-

gest breaks down how these AI systems compare across several key dimensions: capabilities, safety, integration, and user experience.

Model Architectures and Versions

1. ChatGPT (OpenAI)
 - Latest model: GPT-4o (2024)
 - Strengths: Multimodal (text, image, audio input), highly conversational, supports coding and deep reasoning.
2. Claude (Anthropic)
 - Versions available: GPT-3.5 (free), GPT-4o (ChatGPT Plus, Pro, and Team plans)
 - Unique trait: Real-time multimodal interaction, integrates with tools like code interpreter, browser, and image generation.
3. Gemini (Google)
 - Latest model: Claude 3.5 (as of mid-2025, if released) or

Claude 3 (Haiku, Sonnet, Opus)

- Strengths: Long context window (up to 200K tokens), excels in writing, summarization, and reasoning with large documents.
- Philosophy: Designed with a strong emphasis on AI alignment and constitutional AI for safer outputs.
- Unique trait: Handles very long documents effectively, even entire books.

3. Gemini (Google)

- Latest model: Gemini 1.5 Pro (early 2024), possibly newer variants in 2025.
- Strengths: Tightly integrated with Google Workspace (Docs, Sheets, Gmail), strong in coding and math.

- Unique trait: Long context window (1M+ tokens), seamless web integration.

4. Grok (xAI)

- Latest model: Grok-1.5 or newer
- Strengths: Edgy, humorous style; integrated with X (formerly Twitter); real-time data access from the platform.
- Philosophy: Emphasizes freedom of speech, minimal censorship.
- Unique trait: Real-time access to trending topics via X platform.

Safety and Alignment

- ChatGPT: Uses reinforcement learning with human feedback (RLHF) and extensive mod-

Performance and Use Cases Comparison (ChatGPT vs Claude vs Gemini vs Grok)

* = relative strength; 5 asterisks = excellent

Feature / Use Case	ChatGPT	Claude	Gemini	Grok
Creative writing	****	*****	****	***
Coding help	*****	****	*****	***
Document summarization	****	*****	****	**
Math & reasoning	****	****	*****	**
Multimodal support	*****	Limited	****	Text-only
Real-time web access	GPT-4o w/ tools	No	Some integrations	Yes (Via X)

Gemini

Claude



ChatGPT



Grok

eration. Also integrates tools like memory and system message customization.

- Claude: Built using a “constitutional AI” framework that encodes ethical principles directly into the model’s training. Prioritizes harmlessness and transparency.
- Gemini: Combines DeepMind’s safety research with Google-scale deployment. Focus on corporate use cases and trustworthiness.
- Grok: Emphasizes minimal censorship, occasionally leading to more provocative or controversial answers. Appeals to those seeking less-filtered AI.

Integration and Accessibility

- ChatGPT: Web, iOS, Android, API, and integrates with Microsoft products (via Copilot in Word, Excel).
- Claude: Available via Anthropic’s website, API, and in some apps (e.g., Notion).
- Gemini: Deeply embedded into Google ecosystem — accessible via Gmail, Docs, Android devices, and standalone apps.
- Grok: Exclusive to X Premium+ subscribers, accessible via web and mobile versions of X.

Final Verdict: Which One Should You Use?

1. Choose ChatGPT if you want...
 - A balanced, versatile assistant for both personal and professional use
 - Multimodal features and plugins for coding, image generation, and data analysis
 - Integration with Microsoft Office tools and a strong ecosystem

2. Choose Claude if you want...

- Exceptional summarization and handling of large documents
- A model that prioritizes safety, helpfulness, and ethical principles
- Deep reasoning with long context retention

3. Choose Gemini if you want...

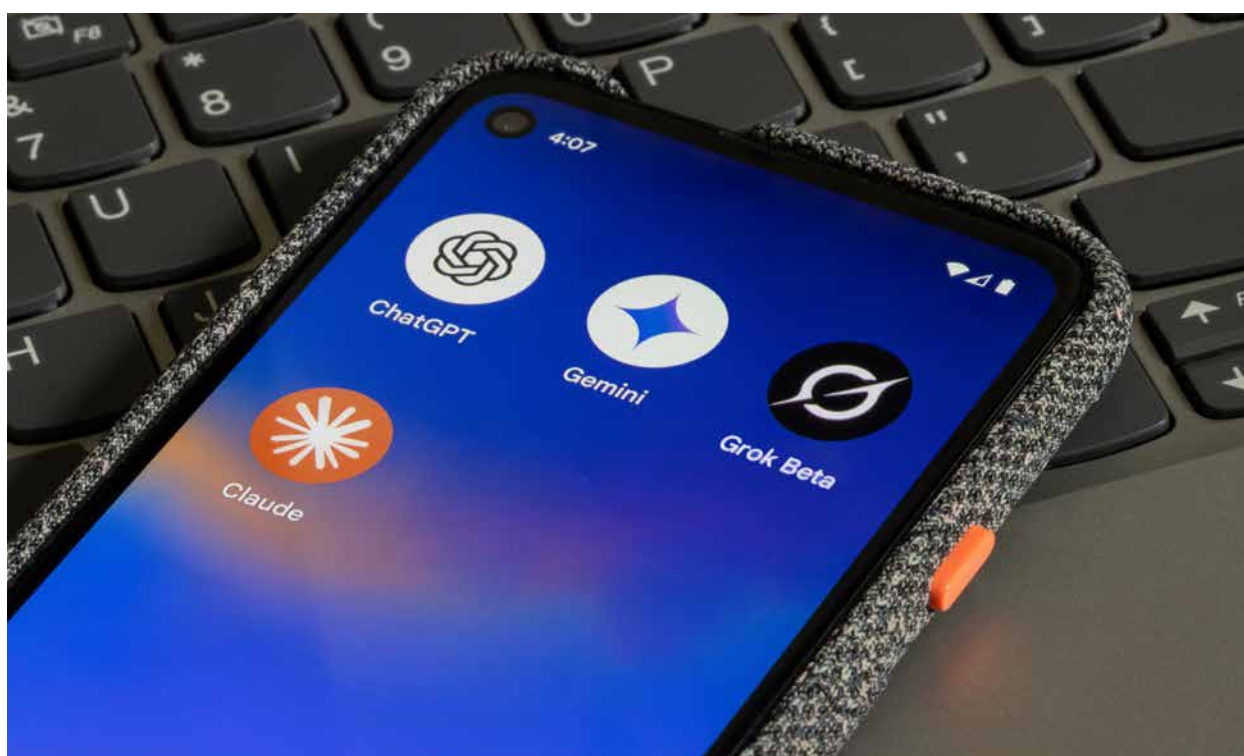
- Seamless access within Google apps (Docs, Sheets, Gmail)
- Strong math, logic, and code performance
- Google-grade infrastructure with long context support

4. Choose Grok if you want...

- A more irreverent, unfiltered AI personality
- Integration with X/Twitter and trending news
- Less moderation and a free-speech-centric model

Conclusion

There’s no one-size-fits-all winner in the AI race — each model brings unique advantages depending on the user’s goals. ChatGPT remains the most well-rounded and user-friendly; Claude shines in deep reading and summarization; Gemini offers tight integration with Google’s suite; Grok delivers a niche, personality-driven experience for X users. As AI models continue to evolve, expect even more specialization, customization, and collaboration among tools.



A black and white photograph of a man in traditional Arab attire, including a ghutra and a long thobe, standing in a desert. He is holding a rifle across his body. In the background, a large plume of smoke rises from a facility, likely an oil field, under a clear sky.

KOC Facilities Security in

1971



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