



المنظمة الإقليمية للمحافظة على نظافة البحار

REGIONAL CLEAN SEA ORGANIZATION (RECISO)

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CHAIRMAN'S FOREWORD

MR. MAJED AL KAKI

Welcome to the **12th Edition, of the RECISO Newsletter**. I am delighted and honored to have been appointed as the Chairman of RECISO at the Board Meeting held in Dubai from 4-5 February, 2026. I have been associated with RECISO since 2014 as a member of the Technical Committee and, since 2024 as a Board of Director. Currently, I am serving as Manager Global Oil Spill Response at Aramco. We are pleased to share that the RECISO Annual Environmental Day 2025, was successfully conducted across member companies throughout the GCC. The year's theme focused on mangrove plantation initiatives in conjunction with port and beach clean-up activities, which reinforce our shared commitment to environmental sustainability. Due to adverse weather conditions in December, some member companies rescheduled their activities to January 2026.

During 2025, RECISO continued to actively **promote inter-member partnership and knowledge sharing**. Over 15 staff from member companies participated in various initiatives, enhancing both technical and leadership skills the participants from KOC, ARAMCO, BAPCO REFINING, WJO, KJO, and RECISO. Training and exercises were hosted by ADNOC, ARAMCO, and BAPCO REFINING. These initiatives significantly strengthened oil spill preparedness and response capabilities across the UAE, Bahrain, and the Kingdom of Saudi Arabia.

I would like to express my sincere appreciation to **Mr. Sami Al Sawagh** (Kuwait Oil Company-KOC) for his exceptional leadership and accomplishments during his tenure as RECISO Chairman over the past three years. His contributions embrace the highly successful EnviroSpill Conference & Exhibition, which was held in the State of Kuwait from 21-24 January, 2025. I am confident that he will continue to provide valuable guidance and support as a Board Member.

My sincere thanks are also extended to **Mr. Khalid Al Beshr** (ADNOC) for his dedicated service as a RECISO Board Member over the past five years. His significant contributions to the EnviroSpill Conferences in 2022 and 2025 are deeply appreciated and wish him continued success in his future endeavors. I would also like to thank **Mr. Mohammad Al Dossari** (WJO) for his committed service as a Board Member over the past two years, particularly for his valuable contributions to the EnviroSpill Conference 2025 and wish him every success moving forward.

It is my pleasure to welcome our new RECISO Board Members: **Mr. Fadhel Al Remeithi**, Manager-Emergency Response & Crisis Management, ADNOC, and **Mr. Salah Saleh Al Shaikh**, Terminal / Export Manager, WJO. We look forward to their valuable insights and collaboration as we continue to strengthen regional cooperation and advance marine environmental protection.

On behalf of RECISO, I extend my warmest wishes to you and your families for a blessed month of Ramadan. May it bring peace, good health, and prosperity to all. **Ramadan Kareem**.

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Chief Editor: Mr. Ijaz Ashraf

Contributors: Mr. Fadhel Al Remeithi & Mr. Sami Al Sawagh

RECISO MEMBERS



RECSO MEMBERS PROFILE



Fadhel Al Remeithi

**Manager - Emergency Response & Crisis Management
Abu Dhabi National Oil Company (ADNOC)**

Fadhel Al Remeithi is the Manager of Emergency Response and Crisis Management at ADNOC Group, with over two decades of experience in the oil and gas sector. He leads ADNOC's Group-wide emergency preparedness and crisis management programs, including Fire & Rescue, Oil Spill and Hazardous and Noxious Substances (HNS) response, and business continuity, ensuring alignment with ADNOC HSE standards and international best practices.

He works closely with government and industry partners to strengthen organizational and national resilience. Fadhel holds a Bachelor's degree in Chemical Engineering and is widely recognized for his leadership in major emergency exercises, crisis governance, and the continuous enhancement of response capabilities across complex energy operations. He also contributes to academic advisory committees supporting crisis management and engineering education in higher Colleges of technology and Rabdan Academy.

As ADNOC's representative, Fadhel Al Remeithi brings his extensive experience, strategic risk management thinking, and boundless energy to the Regional Clean Sea Organization (RECSO) Board.

RECSO MEETING HIGHLIGHTS

- RECSO Board Meeting was held in the Shangri - La Hotel, Dubai, From 5th – 6th November 2025



The board of directors meeting was held in Shangri-La hotel Located at Sheikh Zayed Road, Dubai United Arab Emirates from 5th – 6th November 2025. The meeting was chaired by the previous RECSO Chairman Mr. Sami Al Sawagh (KOC), and attended by Ijaz Ashraf (BAPCO Refining), Mr. Majed Al Kaki (ARAMCO) Mr. Fadhe Al Remeithi (ADNOC), Mr. Mohammed Al Subaei (KJO), and Mr. Shuaib Mohammad (WJO), and apologies were received from Capt. Moosa Al Abri (PDO). The Chairman provided an update on the status of the upcoming RECSO activities.



The Chairman welcome the new RECSO Board Members: Mr. Fadhel Al Remeithi, Manager – Emergency Response & Crisis Management, ADNOC. Alternative member from Mr. Shuaib Mohammad (WJO), we look forward to their valuable insights and collaboration as we continue to strengthen regional cooperation and drive progress in marine environmental protection. He thanked all members for their attendance and acknowledged their cooperation and support. The meeting achieved all the objectives set out in the agenda. The Chairman extended his best wishes to all attendees, their colleagues, and families, wishing them a safe journey home.

RECSO MEETING HIGHLIGHTS (CONTINUED)

- **RECSO Board Meeting was held in the JW Marriott Marquis Hotel, Dubai, From 4th – 5th February 2026**



The board of directors meeting was held in JW Marriott Marquis Hotel, Downtown Dubai, United Arab Emirates from 4th – 5th February 2026. The meeting was Chaired by RECSO Chairman Mr. Sami Al Sawagh (KOC), and attended by Ijaz Ashraf (BAPCO Refining), Mr. Majed Al Kaki (ARAMCO) Mr. Fadhel Al Remeithi (ADNOC), Mr. Mohammed Al Subaei (KJO), and Mr. Salah Saleh Al Shaikh(WJO), and Apologies were received from Capt. Moosa Al Abri (PDO). The Chairman welcomed the new RECSO Board Member, Mr. Salah Saleh Al Shaikh, Manager – Terminal / Export, WJO, and expressed

confidence in his valuable contributions toward strengthening regional cooperation and marine environmental protection. The Chairman provided an update on the status of upcoming RECSO activities and initiatives. The meeting successfully achieved all objectives set out in the agenda.

In his concluding remarks, Mr. Sami Al Sawagh thanked KOC Management for entrusting him with the responsibility to represent KOC on the RECSO Board and for the opportunity to serve as Chairman. He emphasized his strong belief that RECSO continues to uphold its founding purpose, established in 1972. Mr. Sami Al Sawagh also conveyed his best wishes to the incoming RECSO Chairman, Mr. Majed Al Kaki (ARAMCO) and Vice Chairman, Mr. Mohammed Al Subaei (KJO), affirming his continued availability to provide guidance and support.



All Board Members expressed their sincere appreciation for Mr. Sami Al Sawagh's (KOC) outstanding leadership and dedicated service as RECSO Chairman (2023–2026) and as an active Board Representative since 2017. His commitment, and hard work were recognized as a source of inspiration for all members.

In recognition of his service, a commemorative plaque, trophy, and Certificate of Appreciation were presented to Mr. Sami Al Sawagh by the RECSO Board Members.

The Chairman concluded the meeting by thanking all members for their attendance, cooperation, and support, and extended best wishes to all participants, their colleagues, and families for a safe journey home.

RECSO MEMBERS NEWS

Real Time Kinematic (RTK): The Future of Port Navigation

Source: Capt. R. K. Arya, Port Captain, Kuwait Oil Company, Marine Operation Group

Abstract

Ports today face unprecedented challenges in handling mega – ships safely, efficiently, and reliably. Traditional GPS is no longer enough. This article explores how Real-Time Kinematic (RTK) positioning is transforming port operations worldwide, from Kuwait’s Mina Al Zour to the Panama Canal, Rotterdam, and the Suez Canal Corridor. With centimeter-level accuracy, RTK is not just a navigation aid, it is the foundation of tomorrow’s smart ports.

Introduction

Imagine piloting a 345-meter Q-Max LNG carrier into a channel narrower than the vessel’s own length is one of the most demanding maneuvers a pilot can face. Strong cross winds and currents pushing the vessel sideways, visibility drops, and you rely on GPS. But your screen shows the ship’s position several meters outside the channel. Would you risk it?

For decades, we were doing port navigation with GPS and later DGPS. But “good enough” positioning is no longer enough in high-stakes ports. Here we are introducing RTK positioning technology, the upgrade from meters to centimeters, from uncertainty to confidence.

What Makes RTK Different

RTK uses a shore-based reference station to compute corrections for satellite signals. These corrections are transmitted to pilots’ Portable Pilot Units (PPUs) or to tugs in real time. Suddenly:

- Bow swing and approach speed are monitored with precision.
- Vessel’s position and berthing operation measured in centimeters.
- Even in fog or war like situation or GPS jamming environments, positioning remains resilient. It’s like upgrading from a blurred old map to a digital version in 4K.

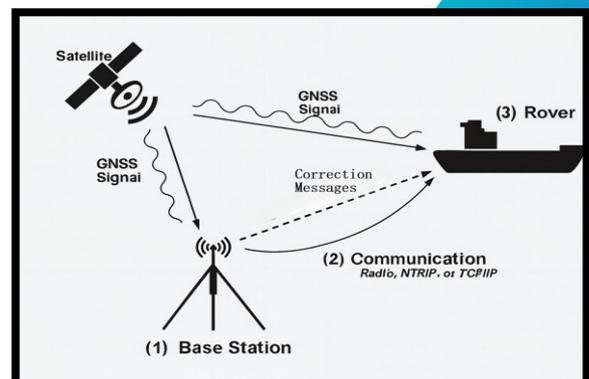


Why GPS Isn’t Enough Anymore

The International Maritime Organization (IMO) set strict accuracy requirements in Resolution A.915(22). For port approaches, GPS alone doesn’t meet them.

- GPS: 3–5 m error
- DGPS: 1–2 m error
- RTK: 2–5 cm accuracy

That difference matters. In restricted waters, position error in meters means grounding. Two centimeters can mean smooth sailing.



When GPS Can't Be Trusted

In the Arabian Gulf, pilots have already experienced GPS spoofing and jamming during periods of regional tension. Ships approaching oil terminals saw false fixes on their screens and sometimes showing them outside the safe channel.

That was a wake-up call. In a war-like situation, GPS can be denied or manipulated. RTK offers local, independent, and secure corrections, ensuring ports can continue moving ships safely in and out without disruption.

How Ports Can Benefit

 **Mooring safety** – RTK reduces fender impact energy by up to 1.8x compared with traditional methods.

 **Hydrography** – Precise tide corrections without tide gauges.

 **Dredging** – Suez Canal case studies showed discrepancies of hundreds of thousands of cubic meters between RTK and conventional tide-gauge estimates.

 **Offshore Rig Movement** – Precise positioning during Tow & Anchoring.

 **Under-Keel Clearance (UKC)** – Real-time UKC monitoring lets deep-draft ships sail safely in shallow waters.

 **Pilotage Confidence** – Better tugs coordination and traffic monitoring with pinpoint precision.



Global Experience: Proof in Practice

• **Suez Canal Corridor (Egypt):** Studies by Port Said University showed RTK and VRS dramatically improved dredging estimates and under-keel monitoring.

• **Panama Canal:** Since October 2023, all Neopanamax vessels (≥ 109 ft beam) must carry RTK-enabled piloting units. No RTK means no transit.

• **Rotterdam, Singapore, Hamburg ports:** These digital-first ports quietly adopted RTK in hydrography and pilotage, embedding it into smart-port platforms. Together, these examples show RTK is no longer an experiment. It's becoming law, policy, and practice.

Why Mina Al Zour is Taking the Lead

Kuwait's Mina Al Zour handles LNG carriers and VLCCs and these vessels pass through narrow shallow approach channels. RTK is being considered for phased deployment:

- Base stations near LNGI structures.
- LTE/UHF correction broadcasting.
- Integration with pilot PPU and VTS systems.
- Expansion to Mina Al Ahmadi.

The costs are modest - one base station costs less than a single berth repair.

The benefits? Fewer incidents, safer navigation, and improved throughput.

Comparing GPS vs DGPS vs RTK

FEATURE	GPS	DGPS	RTK
 ACCURACY	✗ ~3-5 m (Worldwide coverage)	⚠ ~1-2 m (Upto 450 kms)	✓ ~2-5 cm Upto about 12 kms)
 BOW SWING ACCURACY	✗ ~5-10 Deg/sec	⚠ ~ 1 Deg/sec	✓ ~ 0.1 Deg/sec
 CORRECTION SOURCE	✗ None (satellite only)	⚠ Ground stations (Govt. controlled)	✓ Base station (Port/private owned)
 RELIABILITY	✗ Low (errors common)	⚠ Moderate	✓ Very high
 IMO SUITABILITY	✗ Not for restricted waters	⚠ Acceptable	✓ Fully compliant & best

The Future of Smart Ports

DGPS was a leap in the 1990s, but it's government-controlled and not always tailored to local needs. RTK, by contrast, is port-owned, flexible, and integrates with VTS, AIS, and ECDIS. RTK is more than a safety net. It's the foundation for:

- Automated docking and digital twins.
- Smart tugs and terminal asset management.
- Online traffic management and faster turnaround.
- Real-time analytics for efficiency and sustainability.

As ports race toward digitalization, RTK is the backbone of precise positioning. Without it, the "smart port" vision remains incomplete.



Conclusion: From Optional to Essential

Once an academic tool, RTK is now essential infrastructure. IMO resolutions, Panama's mandate, and Suez's research all point to the same truth: ports cannot rely on GPS alone.

For the Arabian Gulf, where GPS spoofing is a reality, RTK is not a luxury - it's survival. For Mina Al Zour, adoption means leading the region. For the wider maritime world, it means a safer, smarter future.

RTK is here. The question isn't if, but how soon will your port adopt it.



▪ ADNOC's Fast Oil Spill Response Vessels: Advancing Marine Spill Response

Source: Mr. Ihab El Saftawi (ADNOC Emergency Response & Crisis Management Division)



Abu Dhabi National Oil Company (ADNOC) has taken a bold step in advancing environmental protection with the commissioning of five state-of-the-art Fast Oil Spill and Hazardous and Noxious Substances (HNS) Response Vessels, all delivered in 2022.

Purpose-built for rapid and effective intervention, these vessels establish a new benchmark for safety, sustainability, and environmental stewardship in United Arab Emirates waters.

Speed and Agility for Critical Response - Time is paramount in spill response. Each vessel is engineered for exceptional agility, capable of reaching speeds of up to 22.5 knots. This ensures ADNOC teams can deploy swiftly to incident sites, enabling containment and recovery operations to commence without delay—minimizing environmental impact and safeguarding sensitive marine ecosystems and coastal infrastructure.

Cutting-Edge Detection and Monitoring - Equipped with advanced Oil Spill Detection (OSD) radar and FLIR (Forward Looking Infrared) systems, these vessels can identify oil slicks and hazardous substances early even in adverse weather or low-visibility conditions. This technology empowers response teams to act decisively and accurately, maximizing operational effectiveness.

Integrated Response Systems - Onboard, containerized booms and skimmers facilitate efficient containment and recovery, while remote-controlled fire monitors, dispersant spray systems, and dynamic positioning technology deliver precise maneuvering and versatile response capabilities across diverse spill scenarios.

Capacity for Sustained Operations - Each vessel features dedicated tanks capable of storing up to 82 cubic meters of recovered oil, complemented by additional tanks for dispersants and foam. This high-capacity design ensures readiness for large-scale incidents and extended operations.

Commitment to Environmental Leadership - By owning and operating this advanced fleet, ADNOC underscores its proactive approach to environmental protection and operational excellence. The integration of cutting-edge technology, rapid response capability, and high storage capacity positions ADNOC as a regional leader in marine spill and HNS preparedness.

With these five vessels, ADNOC has established one of the region's most capable oil spill and HNS response fleets—reflecting a strong commitment to sustainability and setting a new standard for marine environmental protection.



■ ARAMCO's Globally Accredited Training for a Cleaner Marine Environment

Source: Mr. Mohammad N. Al Ghamdi (ARAMCO Global Oil Spill Response)

During 2025, Aramco Marine Global Oil Spill Response (GOSR) conducted a series of comprehensive oil spill response training courses, demonstrating its dedicated actions toward maintaining preparedness and protecting the marine environment. A total of three courses were held throughout the year, with two taking place in the Arabian Gulf and one in the Red Sea, training over 75 participants from various departments. The courses covered a wide range of topics, including environmental aspects, safety considerations, and response strategies for oil spill incidents. Theoretical sessions were reinforced with briefings on major historical oil spill incidents around the world and lessons learned from such events, providing participants with a more informed understanding of the complexities of oil spill response.



The training programs also included presentations on Aramco's oil spill response policy, sources and effects of oil spills, behavior and fate of oil, environmental parameters, and potential impacts of oil spills on sensitive areas or facilities in their vicinity. Participants were also introduced to various response techniques, including boom deployment, oil skimming, and the use of chemical dispersants.

Notably, the courses were attended by representatives from Regional Clean Sea Organization (RECSO) member companies, as well as government agencies, demonstrating the collaborative spirit and efforts toward environmental protection in the region. The participation of RECSO members and government attendees added valuable perspectives and expertise to the training, and helped to foster a sense of cooperation and mutual understanding among the various stakeholders.

The courses were highly interactive, with participants engaging in discussions and asking questions on various aspects of oil spill response. The training also included a practical session onboard a pollution control vessel, where participants gained hands-on experience in deploying containment booms and oil recovery skimmers to control and remove a hypothetical oil spill.

The training programs were designed to provide participants with the knowledge and skills necessary to help prevent and mitigate the risks of oil spill incidents, and to understand and acquire knowledge on oil spill management and response in case of a real emergency. The courses were well-received by the participants, who shared their feedback praising the initiative to educate employees and stakeholders about the protection and conservation of the environment.

By conducting these training courses, Aramco raises awareness about its efforts toward maintaining a high level of preparedness and response capability, and protecting the marine environment in the region. The company's dedicated efforts in oil spill response and environmental protection is aligned with the goals and objectives of RECSO, and reinforces the importance of collaboration and cooperation in promoting the environmental protection of the marine ecosystem.



▪ Showcasing Oil Spill Response: Global Oil Spill Response imparts valuable awareness with live response demonstration at Emergency Preparedness Conference

Source: Mr. Mohammad N. Al Ghamdi (ARAMCO Global Oil Spill Response)



The Leadership Center in Ras Tanura was the venue for the recent Emergency Preparedness Conference organized jointly by Loss Prevention (LP) and Marine General Area. The event brought together leaders and safety professionals from across various Aramco organizations with the aim to facilitate meaningful engaging discussions for enhancing preparedness and resilience in high-risk environments. The conference opened with an

introduction by the Loss Prevention team, who emphasized the importance of proactive risk management and collaboration across departments. Speakers included safety experts and representatives from Aramco's operations and services organizations, who shared insights on global practices, technological advancements, and lessons learned from past incidents.

A special focus was placed on marine-specific subjects, including oil spill response, diving operations, vessel emergencies, and offshore facility safety. Case studies highlighted successful interventions and underscored the importance of continuous training and interagency coordination.

The oil spill response awareness presentation delivered by Pollution Engineer Ajibola Fashola, led with describing the Kingdom's and region's coastal waters as not only an environmental habitat but also the enabler of socioeconomic activities of natural resource extraction, shipping and tourism. In this dynamic and evolving context, the importance of protecting the environment from destructive incidents such as oil spills becomes quite evident, and there are many unfortunate incidents in recent history [such as the spills of Torrey Canyon, Exxon Valdez, Gulf War, Sea Empress and Deepwater Horizon] to serve as cautionary examples that directly led to international legislations and industry actions towards establishing prevention, preparedness and response capabilities. The presentation continued to elaborate upon the oil spill response plans, procedures and capabilities of the Aramco's Global Oil Spill Response (GOSR), which as a frontline response entity is further enabled with proactive mandates from the company's Oil Spill Committee as well as governmental bodies like the National Center for Environmental Compliance (NCEC) and Ministry of Energy, and maintains long-standing relationships of mutual collaboration with international entities such as Oil Spill Response Limited (OSRL) and Regional Clean Sea Organization (RECSCO).

Outside the conference venue, a dedicated live Oil Spill Response equipment demonstration took place. Trained and dedicated response personnel showcased containment booms, skimmers, and pollution control systems, demonstrating how each component plays a role in helping control marine oil spills and mitigating their environmental impact, regardless of their source. The live demonstration allowed attendees to observe real-time deployment of response equipment, reinforcing the importance of readiness, coordination, and proper training in



mitigating oil spills efficiently. These activities underlined the organization's efforts toward environmental protection and operational safety excellence.

The presentation and demonstration were followed by an open discussion in which audience posed very insightful questions to know more about some specific aspects of the oil spill response operation. The event concluded with a networking opportunity in which senior safety experts and leaders reaffirmed their commitment to fostering a collaborative culture of safety and preparedness. Attendees expressed satisfaction and felt encouraged to take the knowledge gained back to their teams and implement actionable improvements.

Overall, the Emergency Preparedness Conference served as a vital platform for knowledge exchange, reinforcing the collective responsibility of all stakeholders in safeguarding lives, assets, and the environment. The event served as an illustration of the efforts of its participating organizations towards excellence in safety and emergency management.

▪ **At the Forefront of Collective Readiness: Aramco Marine Global Oil Spill Response leads operational activities at major oil spill drill coordinated by National Center for Environmental Compliance (NCEC)**

Source: Mr. Mohammad N. Al Ghamdi (ARAMCO Global Oil Spill Response)

In a significant demonstration of preparedness and collaboration, Aramco Marine Global Oil Spill Response (GOSR) once again joined hands with the National Center for Environmental Compliance (NCEC) for the recently conducted Estijaba 18 major oil spill response drill, which brought together 50 key government and industrial stakeholder entities from across the environmental and energy sectors. The drill, which simulated a spill of 60,000 barrels offshore of Jubail Seaports and established an Incident Command at NCEC Headquarters in Dammam, underscored the importance of multi-agency coordination, technical readiness, and rapid response capabilities in the event of a marine oil spill.

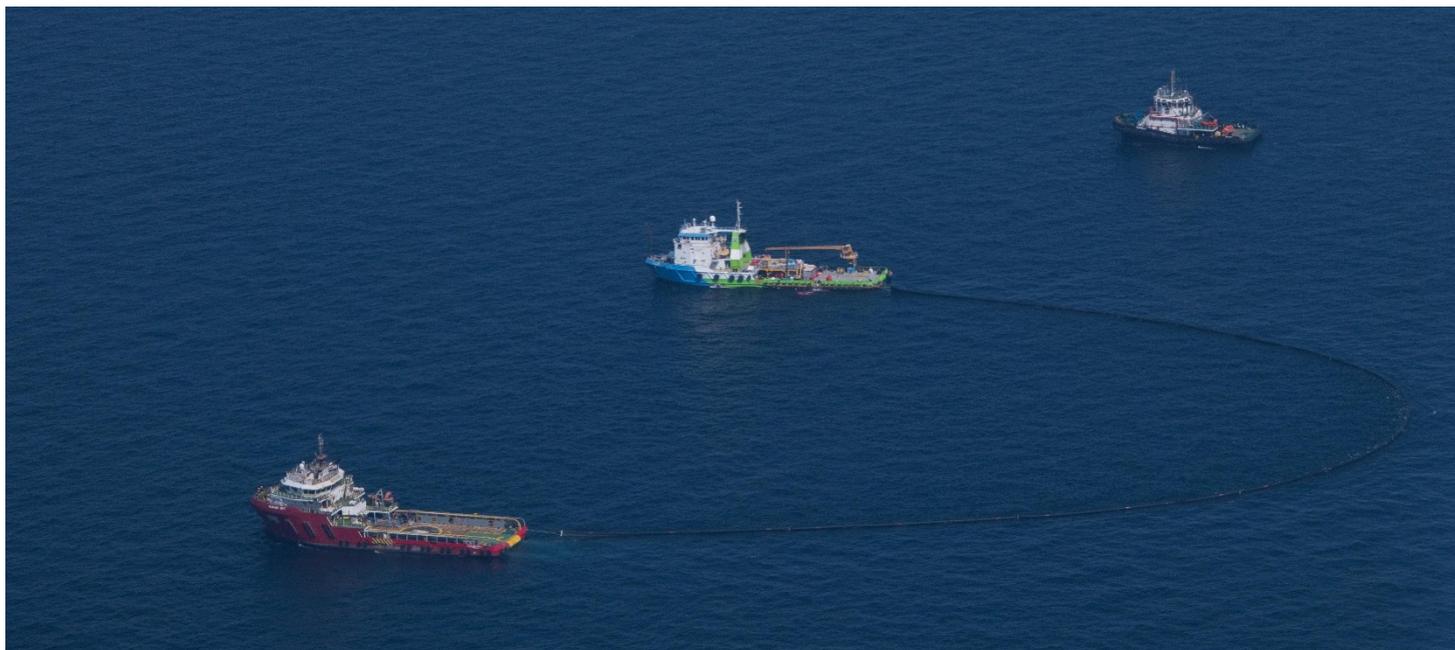
Estijaba 18 was part of an ongoing series of drills aimed at reinforcing Saudi Arabia's commitment to environmental stewardship and operational excellence. The response planning, coordination and deployment have served as major milestones in defining capabilities and strengths in oil spill response, providing opportunities to test and enhance protocols, while ensuring that all involved participating entities are prepared to fulfill their respective roles effectively during real-world incidents. As a central figure in the Emergency Control Center (ECC) Command and Planning Sections as well as the marine



component of the response deployment, Aramco Marine played an essential role in orchestrating response activities on the water. Leveraging its extensive fleet and highly trained personnel, Aramco Marine deployed specialized equipment, including oil containment booms, skimmers, and dispersant application systems, to simulate the containment and cleanup of the hypothetical oil spill. Simultaneously the aerial support component of the response deployment was fulfilled by Aramco's Aloula Aviation through its air tractor and helicopter.

RECSO MEMBERS NEWS (CONTINUED)

The drill also showcased the use of technology, such as real-time satellite tracking and notification, drone surveillance, and environmental monitoring tools such as trajectory modelling of the spilled oil. These technologies allowed for precise tracking and confident prediction of the simulated spill's movement, enabling responders to adapt their strategies dynamically. The integration of digital tools with on-ground operations highlighted the specific improvements in the management of oil spill response activity, where data-driven decision-making plays a critical role in assessing and minimizing environmental impact.



In addition to technical operations, Estijaba 18 emphasized the importance of communication and coordination between various entities. Participants included environmental agencies, coast guard units, local municipalities, and industrial partners. This collaborative approach facilitated alignment between stakeholders in their understanding of roles, responsibilities, and response timelines.

From a strategic standpoint, the drill also served as a platform to evaluate emergency response plans against international best practices. Regulatory bodies used the opportunity to promote compliance with applicable laws. Lessons learned from Estijaba 18 will be incorporated into future training programs and response frameworks, helping further support the Kingdom's resilience to marine environmental incidents.

Moreover, the drill highlighted the growing emphasis on environmental protection within the energy sector. Aramco has been actively investing in advanced spill response infrastructure and training programs. Initiatives like Estijaba 18 reflect the company's proactive actions on environmental protection, promoting alignment between operational excellence and environmental protection.

The successful execution of Estijaba 18 not only demonstrated the readiness of the company and the Kingdom's oil spill response mechanisms but also reaffirmed the nation's major role in environmental preservation in the region.

Looking ahead, continued investment in response capabilities, technology, and cross-sector collaboration will be essential in safeguarding marine ecosystems and coastal communities. The series of Estijaba oil spill response drills, continuously improving with each iteration, serves as a tremendous example of Aramco's broader commitment to sustainable, collaborative and responsible operations.

▪ BAPCO Refining Conducts Major Oil Spill Exercise

Source: Mr. Ijaz Ashraf (BAPCO Refining Corporate Excellence)

On 3rd February, an oil spill response exercise “Jahezya 2” was successfully conducted at Bapco Refining’s Sitra Wharf in collaboration with the Supreme Council for Environment (SCE), alongside Gulf Petrochemicals Industries Company (GPIC) and Aluminum Bahrain (Alba). This exercise was designed to assess the effectiveness of oil spill response plans and capabilities across all participating organizations.



It aimed to reinforce operational readiness and enhance coordination between the Supreme Council for Environment, Bapco Energies, and other key stakeholders in managing marine environmental incidents and protecting Bahrain’s coastal ecosystems.

RECSO members were also requested to respond to the exercise through the RECSO office and all members responded to the requests with positive response to provide help if needed. Thank You to all RECSO members.



▪ BAPCO Energies Volunteers Support National Environment Day with Major Mangrove Plantation Drive

Source: Mr. Ijaz Ashraf (BAPCO Refining Corporate Excellence)

On Saturday, 14 February 2026, 100 volunteers—mostly from BR and supported by colleagues from BE, BU, BT, BG, along with representatives from the Bahrain Engineering Society—came together for a large-scale mangrove plantation activity at the Ma'ameer Channel, northeast of the refinery.

The event was organized by BE Together, reinforcing our commitment to environmental stewardship and community engagement.

Aligned with Bahrain National Environment Day, observed every 4 February, this year's theme "Restore it to Revive it" guided the purpose of the day. Volunteers worked collectively to restore the coastline and strengthen the marine ecosystem.

The Importance of Mangroves

Mangroves play a vital role in sustaining Bahrain's coastal environment. They:

- Stabilize and protect coastlines
- Provide habitats that support marine life
- Filter and improve water quality
- Capture CO₂ and contribute to climate balance



National Progress & Bapco's Leadership

The National Mangrove Plan, launched in 2021, set an ambitious goal of planting **1.6 million** mangroves by 2035. By December 2025, this target had already been exceeded with **2.2 million** plantations nationwide.

Bapco Refining has proudly contributed to this achievement. Since opening the refinery's Mangrove Nursery in 2018—with an initial 2,000 pots containing around three seedlings each—the company has planted **49,500 seedlings**, including **21,000 inside refinery boundaries**.

Beginning last year, BE expanded its active support for plantation and mangrove care, further strengthening internal collaboration in environmental initiatives.

RECSO ANNUAL ENVIROMENTAL DAY

RECSO Annual Environmental Day 2025: A Collective Commitment to a Cleaner Marine Environment



During 2015, the Regional Clean Sea Organization (RECSO) took the lead in this environmental initiative and successfully coordinated the Port Clean - up Day, engaging nearly 2,000 employees and participants simultaneously across all member companies. Building on seven years of success, RECSO conducted the **RECSO Annual Environmental Day 2025**, covering ports and beach areas in each member country and region. This year, more than 2,500 employees, volunteers, and students participated safely and effectively at 12 different ports along both the Red Sea and the Arabian Gulf.

The **RECSO Annual Environmental Day 2025**, held on **11 December 2025**, was carried out successfully across member companies throughout the GCC. This year's theme focused on mangrove plantation initiatives, combined with port and beach clean-up activities, reinforcing our collective commitment to environmental sustainability. Due to adverse weather conditions in December, some member companies rescheduled their activities to January 2026.

RECSO is proud to lead and support these environmental efforts across all member facilities and remains committed to the "Clean Marine Environment" campaign and other initiatives that promote sustainable practices.

As part of this mission, the organization continues to raise environmental awareness, highlighting the critical role of mangrove ecosystems in coastal protection, carbon sequestration, and biodiversity conservation. These awareness campaigns aim to educate employees, volunteers, and the wider community about the importance of preserving our marine environment for future generations.



RECSO ANNUAL ENVIRONMENTAL DAY

■ ADNOC Marks RECSO Annual Environmental Day with Shoreline Cleaning Initiative



ADNOC recently participated in the Regional Clean Sea Organization (RECSO) Annual Environmental Day, reinforcing our ongoing commitment to environmental stewardship and the protection of marine ecosystems across the region. Established in 1972 by 13 founding members, including ADNOC, RECSO plays a vital role in safeguarding the marine environment in the Gulf. As part of this year's GCC-wide campaign, ADNOC organized a shoreline cleaning activity at the Musaffah base, contributing to the collective regional effort alongside fellow RECSO

members such as Saudi Aramco, Kuwait Oil Company (KOC), Bapco Energies, Al Khafji Joint Operations (KJO), Wafra Joint Operations (WJO) and Petroleum Development Oman (PDO).

This year's event saw around 350 participants come together to make a tangible impact, successfully collecting approximately 1.1 tons of waste from the shoreline. This initiative reflects ADNOC's broader sustainability strategy and supports our commitments to biodiversity conservation and responsible operations. By actively participating in RECSO's regional program, we help preserve local shorelines, reduce environmental impact, and foster stronger community engagement across our sites.



RECSO ANNUAL ENVIROMENTAL DAY

▪ Zallaq Beach Cleanup Initiative by BAPCO Energies: A Collective Effort for Marine Environment Protection

On Thursday, 11th December, Zallaq Beach became the center of an impactful environmental initiative as more than 100 volunteers joined forces for a cleanup campaign from 8:30 AM to 10:00 AM. The event was organized by Bapco Energies' BE Together Committee, under its Environmental Pillar, in collaboration with the Regional Clean Sea Organization (RECSO).

Participants included employees from all Bapco Energies companies, representatives from the Supreme Council for Environment (SCE), Southern Municipality and experts from Global Oil Spill Response (OSRL). Special recognition goes to the Oil Spill Response Team (Fire Department) and the Social Team (Health and Environment Department) for their outstanding efforts in organizing and supporting this campaign. Together, the volunteers successfully cleaned 2,000 square meters of shoreline, collecting approximately 15 cubic meters of mixed waste, including plastic, glass, metal, and wood.

This initiative reflects Bapco Energies' unwavering commitment to sustainability and environmental stewardship. By collaborating with regional and global partners, and leveraging internal expertise, we continue to drive impactful actions that protect Bahrain's natural beauty and marine ecosystems for future generations.



RECSO ANNUAL ENVIROMENTAL DAY

Al Khafji Family Beach Costal Cleaning Initiative: RECSO Annual Environmental Day 2025



In alignment with its commitment to environmental stewardship, Khafji Joint Operations (KJO) proudly participated in the RECSO Annual Environmental Day by organizing a Beach Clean-Up Day at the KJO Family Beach in Al Khafji. The initiative focused on preserving the coastal environment through a hands-on clean-up activity.

The initiative aimed to promote environmental awareness and sustainable practices among KJO employees while contributing to the preservation of the local coastal ecosystem. More than 450

participants joined the clean-up, demonstrating strong engagement and collective responsibility towards protecting natural resources.

Highlights of the Activity:

Type of Clean-up: Beach

Area Covered: Less than 1 km of Coastline

Participants: Over 450 KJO Employees

Waste Collected: 1 Tons of General & Seaweed Waste



The activity was carried out meticulously, ensuring a safe and organized environment for all volunteers. The collected waste underscore the ongoing challenge of marine litter, highlighting the importance of continuous environmental initiatives.

KJO remains dedicated to fostering a culture of sustainability and environmental responsibility. Through activities like these, the company not only contributes to the well-being of the local environment but also reinforces its commitment to community engagement and awareness.

RECSCO ANNUAL ENVIROMENTAL DAY

Khafji Joint Operations (KJO), Mr. Mohammed Subaei, the Terminal & Marine Department Manager looks forward to continuing collaborative efforts with RECSCO and other stakeholders to advance environmental protection initiatives across the region.

“Activities like this foster a culture of sustainability, teamwork, and responsibility toward natural resources,” said a KJO representative.



Through initiatives like the RECSCO Annual Environmental Day, KJO continues to reinforce its commitment to sustainability, teamwork, and responsible environmental practices. Certificates of participation were issued to all participants in recognition of their contribution.



RECSO ANNUAL ENVIROMENTAL DAY

■ Aramco's Marks Shoreline Cleaning Initiative: Values of Leadership, Community and Collaboration Shine Bright at Ras Tanura Beach

Collaborative volunteering efforts of Leadership Development, Community Services & Global Oil Spill Response mark a milestone achievement in local and regional environmental campaigns. On Thursday, 4th December, 2025 highly motivated volunteers came together from across Aramco's various organizations and the resident community for the Annual Ras Tanura Beach Clean-Up Campaign, led by the Leadership Development Division (LDD). With a shared sense of purpose, the more than 50 volunteers rolled up their sleeves, ready to make a tangible difference along the shoreline.

Besides LDD as the host organization, Northern Area Community Services Department (NACSD) played a pivotal role in ensuring the logistical arrangements for the campaign. And alongside this was the significant involvement of Marine Global Oil Spill Response (GOSR), with its generous contribution of tools, gift bags, and additional volunteers to significantly bolster the cleanup efforts under the banner of RECSO Environmental Day, which is a GCC-wide environmental protection campaign sponsored by Regional Clean Sea Organization (RECSO) where the division represents Aramco and serves as the chair.

The team spirit and readiness to engage greatly enriched the event, strengthening the ties of collaboration between the organizations.



RECISO ANNUAL ENVIROMENTAL DAY

The day began at Najmah Beach, where participants gathered for a welcome address and comprehensive safety briefing led by the LDD Manager. This was followed by an informative introduction from a GOSR representative, who outlined the goals of RECISO's environmental campaign and highlighted Aramco's focus on community engagement for environmental preservation.



Volunteers were then divided into teams and dispersed to three key locations: the central Najmah Beach, Jasmine Beach to the community's north, and Golf Course Beach to its south. The enthusiasm and determination displayed by all volunteers were nothing short of inspiring, with participants of all ages contributing to a common purpose. As teams combed the beaches collecting waste and raising awareness about marine conservation, it was evident that each person present understood the importance of protecting our natural spaces. The camaraderie and positive energy were palpable, making the event not just productive, but also highly engaging and enjoyable. Approximately 130-150 kg (40 bags of mixed waste collected)

In just a few hours, the group made a noticeable difference, removing quite large amounts of waste from the shoreline, especially from some apparently less frequented areas at the community's outskirts. But beyond the visible change to the beachfront, the event also fostered connections, built awareness, and reaffirmed the participants' enthusiasm for civic engagement.

The event was a shining example of what can be achieved when organizations and individuals join forces in a shared endeavor. The inspiring turnout not only highlighted the power of collective action but also underscored the strength of our community partnerships. The organizers reflected that this event showed how even the smallest actions can lead to noticeable change.

As we clean up our beaches together, we are building a stronger, more conscious, and more connected community, looking ahead with excitement about future collaborations between all the participating organizations. They also thanked everyone who, with their time, energy, and passion, helped make this event a resounding success.

UPCOMING EVENTS

- **The Offshore Technology Conference (OTC) in Houston, Texas U.S.A from 4-7 May, 2026**

The future of offshore energy is unfolding now—and the world is watching. From 4-7 May 2026, OTC will unite innovators, experts, and leaders from across the globe to explore game-changing projects and emerging technologies that are shaping the energy landscape.

OTC is more than just a conference—it's the global meeting ground for offshore energy professionals who are driving progress, solving challenges, and shaping the future of the industry. Over four dynamic days, OTC will unite leaders, engineers, innovators, and decision-makers from across the offshore sector — including oil & gas, offshore wind, hydrogen, CCUS, digital technologies, and emerging marine solutions. With the entire industry under one roof, it is the premier platform to build strategic partnerships, discover cutting-edge solutions, and gain actionable insights that move your business forward.

From traditional oil and gas to renewables and emerging marine technologies, OTC attracts a truly international audience, bringing together offshore energy professionals from around the world to share knowledge, spark innovation, and shape the future of the industry.

Whether you are advancing traditional energy operations or pioneering new frontiers in renewables and digital innovation, OTC is where meaningful connections are made and impactful conversations begin.



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4–7 May | NRG Park, Houston, Texas, USA

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Source- <https://2026.otcnet.org/>

UPCOMING EVENTS (CONTINUED)

▪ The SpillAsia 2026 in Suntec, Singapore from 23-25 September, 2026



SpillAsia 2026 leading event for the global marine spill industry. Staged in Asia-Pacific, inviting the world 23 - 25 September 2026. Suntec Singapore. SpillAsia 2026 is the year's premier event for the global marine spill industry, and part of a respected triennial series of international events that also includes Interspill (Europe) and IOSC (USA). Staged in Singapore a major international port and maritime center; the perfect setting to connect the best organizations and professionals from the Asia-Pacific region and across the globe.

Focusing on future challenges, the event will attract elite experts and stakeholders involved in marine spill research, prevention, preparedness, response and restoration, for three days of world-class learning, debate, networking and business.

Source- <https://www.spillasia.com/2026/>

▪ ADIPEC - Abu Dhabi International Petroleum Exhibition & Conference from 2-5 November 2025 in U.A.E

The world largest energy event, ADIPEC 2026, will be held in Abu Dhabi, United Arab Emirates. From 2-5 November, ADIPEC 2026 will examine how the global energy system is adapting to an era of energy addition. Through its conferences and exhibition, ADIPEC advances practical cross-sector solutions that strengthen resilience, scale investment, modernize infrastructure and drive long-term stability and progress.



Source- <https://www.adipec.com/>

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