Under the patronage of HH Sheikh Ahmed bin Saeed Al Maktoum,
Chairman of the Dubai Supreme Council of Energy

WETEX

1-3 OCTOBER 2024

THE REGION'S LARGEST SUSTAINABILITY & CLEAN ENERGY TECHNOLOGY EXHIBITION



THE NEWSLETTER

Edition No. 3



The Water, Energy, Technology and Environment Exhibition (WETEX), organised annually by Dubai Electricity and Water Authority (DEWA), stands as a testament to our successful integration of the energy, water, technology and sustainability sectors. It promotes the transition to clean and renewable energy sources and supports sustainable development.

Over the past 26 years, WETEX has solidified its position as one of the largest specialised exhibitions globally and the largest of its kind in the region. It offers companies, investors, and visitors a unique opportunity to explore innovative solutions and technologies designed to accelerate climate action. Participants can also discover investment opportunities in local and regional markets by connecting with thousands of exhibitors, officials and decision-makers.

As we organise this year's exhibition during the Year of Sustainability in the UAE, we emphasise the importance of innovation and collective efforts in achieving net zero and ensuring a brighter, more sustainable future for us and generations to come.

HE Saeed Mohammed Al Tayer
MD & CEO of DEWA
Founder and Chairman of WETEX

Dubai Airports to grow its solar footprint in push to cut its carbon footprint



In the presence of HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy and Chairman and Chief Executive of Emirates Airline and Group, and HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy and MD & CEO of Dubai Electricity and Water Authority (DEWA), Dubai Airports announced a landmark collaboration with Etihad Clean Energy Development Company, a wholly owned subsidiary of DEWA, to launch the world's largest rooftop solar panel installation project at an airport.

To solidify this ambitious initiative, Dubai Airports and Etihad Energy Services Company formalised an agreement during the prestigious World Green Economy Summit organised by the Dubai Supreme Council of Energy, DEWA and the World Green Economy Organization. The event, held under the patronage of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, took place at the Dubai World Trade Centre from 2 to 3 October 2024.

The agreement was signed by Paul Griffiths, CEO of Dubai Airports, and Dr Waleed Alnuaimi, CEO of Etihad ESCO.

Al Tayer said: "This initiative aligns with His Highness Sheikh Mohammed bin Rashid Al Maktoum vision to establish Dubai as one of the most sustainable cities in the world. While our road map outlines clear targets of achieving 25% of the energy mix from clean energy sources by 2030, and 100% by 2050, we are proactively accelerating our efforts. We anticipate surpassing these goals, potentially reaching 27% clean energy capacity as early as 2030, which would enable us to achieve our 2050 vision ahead of schedule. Undoubtedly, innovation and cutting-edge technologies are instrumental in expediting our progress towards a greener future."

This phased project of total 39MWp of clean energy, which will be fully operational by 2026, involves the installation of 62,904 solar panels across Dubai International (DXB) and Dubai World Central – Al Maktoum International (DWC) airports, set to generate 60,346MWh annually. It marks a significant stride toward decarbonising airport operations.

The solar panels, which will span passenger terminals and concourses across both airports, are expected to offset 23,000 tonnes of CO2 annually – equivalent to taking 5,000 cars off the road or powering 3,000 homes for a year. The energy generated will meet 6.5% of DXB's power needs and 20% of DWC's, reinforcing Dubai Airports' long-term vision for cleaner, smarter and more sustainable operations.



Sharing his insights on the initiative, Griffiths said: "Airports are significant energy consumers, but with that comes tremendous opportunity and responsibility to drive real change. For us, this is not just about installing solar panels; it's about embedding sustainability into the core of everything we do. Every kilowatt we generate from renewable sources brings us closer to shrinking our carbon footprint and future-proofing our operations. This is about setting the standard and leading the way for what a truly sustainable airport can achieve."

Dr Waleed Alnuaimi, CEO of Etihad ESCO, remarked: "Our longstanding partnership with Dubai Airports plays a pivotal role in our strategy to accelerate Dubai's sustainability agenda. By broadening the solar footprint and implementing transformative initiatives like Shams Dubai, we are not only reducing energy demand but also driving the adoption of sustainable energy solutions across the emirate. This project, and others like it, demonstrates our commitment to building an integrated ecosystem that aligns with Dubai's vision for a greener, more energy-efficient future."

This solar initiative complements a series of ongoing environmental sustainability efforts by Dubai Airports, from strategic partnerships in the aviation sector to collaborative efforts within the oneDXB community, which includes airlines, service providers and regulatory authorities managing the airport's critical touchpoints. Whether it is retrofitting hundreds of thousands of LED lights, optimising cooling systems, switching to biodiesel-powered ground vehicles or cutting food waste to landfill, Dubai Airports is committed to making measurable, impactful changes – one step at a time.

The project builds on the successful installation of solar panels at DXB's Terminal 2 and Concourse D, where solar power is already playing a vital role in reducing energy consumption and lowering emissions.

While ambition and innovation drive progress, the key to achieving sustainable transformation lies in collaboration, foresight and consistent action. Dubai Airports is focused on ensuring these values guide every initiative, aligning with the broader environmental objectives of Dubai and the UAE to create a better tomorrow, together.

Etihad Clean Energy Development Partners with Emirates Airline for Solar PV Project at Emirates Engineering Centre



In the presence of HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy and Chairman and Chief Executive of Emirates Airline and Group, and HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy, MD & CEO of Dubai Electricity and Water Authority (DEWA), Emirates Airline and Etihad Clean Energy Development signed an agreement to partner and launch a large-scale solar energy project at the Emirates Engineering Centre in Dubai. The agreement was signed by Waleed bin Salman, Vice Chairman of Etihad Clean Energy Development, and Yousuf Mohammad Ali, Divisional Senior Vice President of Group Procurement and Logistics at Emirates Airline.

The signing ceremony for this initiative took place at the World Green Economy Summit 2024, which serves as a strategic platform for promoting sustainable development and global collaborations. Through this initiative, there is a strong commitment to enhancing energy efficiency and sustainability in alignment with the World Green Economy Summit's objectives.

In a significant move towards enhancing energy efficiency and sustainability, the partnership includes the development, engineering, procurement, construction, testing, and commissioning of solar PV systems at Emirates Engineering Centre, along with 20 years of operation and maintenance services.

The total capacity is 23,177 kWp, with an estimated annual generation of 34,301,960 kWh. A total of 39,960 solar panels will be installed, providing 37% of the facility's annual energy consumption and reducing CO2 equivalent emissions by over 13,000 tonnes each year when fully operational.

HH Sheikh Ahmed bin Saeed Al Maktoum said: "This initiative highlights Emirates' commitment and continued investment in renewable energy solutions as part of our sustainability strategy. By integrating solar energy into the Emirates Engineering Centre, we are significantly reducing our carbon footprint while supporting the UAE's clean energy goals. We are pleased to partner with Etihad Clean Energy Development in this solar PV project, which adds another milestone in our sustainability journey and greatly expands the number of solar installations at our facilities."

Al Tayer remarked: "Etihad Clean Energy Development, a leading provider of energy efficiency solutions in the region, will spearhead the project, showcasing its expertise in delivering high-performance energy systems. Through this partnership,



Etihad Clean Energy Development and Emirates Airline will ensure the long-term operational efficiency of the solar PV systems while achieving substantial reductions in carbon emissions and energy costs. We are proud to collaborate with Emirates Airline on this landmark project. Our partnership not only supports the UAE's vision for a sustainable future but also sets a precedent for renewable energy adoption in the aviation sector."

With a 20-year agreement for operation and maintenance, the solar PV systems will contribute to long-term environmental benefits, ensuring that Emirates Engineering Centre continues to operate efficiently using clean energy. This project is part of both companies' broader efforts to support the UAE's sustainability agenda, which focuses on reducing reliance on non-renewable energy sources and driving progress towards a low-carbon future.

World Green Economy Summit 2024 Hosts a High-Level Ministerial Roundtable



HE Saeed Mohammed Al Tayer, Chairman of the World Green Economy Organization (WGEO), delivered the opening address at the high-level roundtable hosted by WGEO on the first day of the 10th edition of the World Green Economy Summit (WGES).

The meeting featured HE Surangel Whipps Jr., President of Palau; HE Dr. Amna bint Abdullah Al Dahak, UAE's Minister of Climate Change and Environment; HH Abdulla Balalaa, Assistant Minister for Energy and Sustainable Affairs at UAE Ministry of Foreign Affairs; Dr. Mahmoud Fathallah, Director of the Department of Environmental Affairs and Meteorology, and Head of the Technical Secretariat of the Council of Arab Ministers. Representatives from the United Nations Framework Convention on Climate Change also participated, along with ambassadors and delegates from the 86 member states of the Global Alliance on Green Economy (GAGE). The gathering included ministers and officials dedicated to advancing the global transition to a green economy, providing a platform for discussions on key issues and pillars linking climate action and sustainable economic development.

In his keynote address, **HE Saeed Mohammed Al Tayer** welcomed the participants and expressed his gratitude for their presence and active participation. **Al Tayer** emphasised that this gathering aligns with the visionary leadership of His Highness Sheikh Mohamed bin Zayed Al Nahyan, President of the UAE, and His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, which aims to advance the green economy, tackle global climate change, and limit global warming.

"The climate crisis has undeniably escalated to unprecedented levels, with its impacts extending far beyond environmental challenges to affect the wellbeing of millions worldwide. Amidst these global challenges, the UAE remains steadfast in fulfilling its climate commitments under the Paris Agreement. The UAE is pursuing the ambitious goal to limit global warming to 1.5 degrees by aligning its Nationally Determined Contributions (NDCs), National Adaptation Plans (NAPs), and other climate policies. These efforts are embodied in the UAE's Net Zero 2050 Strategic Initiative, a landmark in the country's journey towards comprehensive climate action. COP28, hosted by the UAE in November-December 2023, was one of the best editions and marked the historic UAE Consensus. His Highness Sheikh Mohammed bin Zayed Al Nahyan, President of the UAE, announced that the UAE has invested more than $50 billion in renewable energy projects, with plans to invest a minimum of $50 billion over the next decade. With the historic UAE Consensus, nearly 200 nations reaffirmed their commitment to ambitious climate goals. This milestone represents a significant step toward reducing global dependence on fossil fuels. The Consensus established ambitious targets to triple renewable energy production capacity and double annual improvements in



energy efficiency by 2030. These objectives will accelerate the transition away from fossil fuels while promoting the deployment of emerging technologies such as low-emission hydrogen and carbon capture," said **Al Tayer.**

"The 10th edition of the World Green Economy Summit, held under the patronage of His Highness Sheikh Mohammed bin Rashid Al Maktoum, offers a unique opportunity to build momentum toward COP29, to be held in Baku, Azerbaijan. Our discussions today will help shape the global agenda and advance progress in the green economy and climate action. We are confident that international cooperation is essential to success, and the Global Alliance on Green Economy (GAGE) serves as a vital tool in fostering cross-border partnerships and collaboration across various sectors. Today's meeting marks a pivotal moment for the future of our planet and a crucial step in our efforts to explore new pathways towards a green economy, which stands as a cornerstone of sustainability and a key driver of prosperity and development worldwide. I eagerly anticipate hearing your valuable insights and experiences, and I look forward to working together to develop innovative, actionable solutions that will help us achieve our shared climate goals and ambitions," added **Al Tayer.**

Al Tayer stated that the World Green Economy Organization (WGEO), in collaboration with the UAE Government and as part of the GAGE initiatives, organised this ministerial session, which is co-chaired by COP29. GAGE was launched during the Ministerial Roundtable on Green Economy at WGES 2022, with the aim of supporting countries in their transition to a green economy. Through technical assistance, GAGE facilitates a platform to match projects, enhance knowledge exchange between nations, and foster cooperation to ensure that all parties have the resources needed to meet their mitigation and adaptation commitments. To date, 86 countries have joined this alliance, and Al Tayer urged other countries to join for the benefit of all.

"As the working group of global economic experts sets the foundation for COP29, this Ministerial Roundtable session provides a crucial platform to address cross-cutting themes tied to the two main pillars of COP29's vision: promoting ambition and enabling action, with climate finance as a key priority. The session focuses on how the green economy can drive progress and contribute to the achievement of the 2030 agenda goals. This initiative adds significant value to the member states of GAGE, as it will strengthen their participation in COP29 in Baku," continued **Al Tayer.**

"This ministerial session will contribute to focusing on strengthening partnerships with the private sector and building human capacities to keep pace with changes, in addition to introducing technology to raise efficiency and employing artificial intelligence, which is one of the main drivers of the Fourth Industrial Revolution, to increase efficiency and effective work to mitigate and adapt to climate change. It will ensure that all parties, particularly developing countries, have the necessary capabilities and tools, to adopt national green economy strategies. Together, we aim to build a resilient, just, and inclusive future for all," concluded **Al Tayer.**

The ministerial session featured critical discussions on the role of the green economy in achieving the objectives of the historic UAE Consensus, achieved during COP28, which aims to accelerate the transition to renewable energy and improve energy efficiency. The session produced several key outcomes, most notably the adoption of the development of national green economy strategies for member states, reinforced commitments to align Nationally Determined Contributions (NDCs) and National Adaptation Plans (NAPs) with the Paris Agreement, cooperation on advancing climate finance initiatives, and exploring the circular economy's role in promoting sustainable development. Participants also emphasised the need to establish strong foundations for international collaboration in finance, technology, and capacity-building to achieve shared global goals.



WETEX concludes with unprecedented success

2,800 exhibitors and 21 international pavilions at WETEX 2024

The 26th Water, Energy, Technology and Environment Exhibition (WETEX), organised by Dubai Electricity and Water Authority (DEWA), ended on a high note and was an unprecedented success. This year's edition, which ran from 1 to 3 October at the Dubai World Trade Centre, witnessed the participation of 2,800 exhibitors from 65 countries. The exhibition hosted 21 international pavilions from 14 countries.

DEWA organises WETEX annually under the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and under the patronage of HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy. WETEX is the region's largest and one of the world's largest specialised exhibitions for water, energy, green development, sustainability, decarbonisation, green mobility, sustainable cities and other related sectors.

"The success achieved by WETEX is a clear reflection of the future-forward vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to consolidate Dubai's leading position as a global hub for clean and renewable energy and the green economy, as well as a platform for launching the latest technologies and innovative solutions that enhance sustainability and contribute to supporting sustainable development. WETEX 2024 provided a unique opportunity for local and global companies and organisations to showcase their products and services, while also offering a leading platform for investors and sponsors to build business relationships, enhance business opportunities and meet top companies and decision-makers from around the world. The success of WETEX reaffirms the importance of providing a platform that fosters collaboration between the public and private sectors, and supports innovation in the sustainability sector. We look forward to continuing this positive momentum in future editions, ensuring that Dubai remains at the forefront of global efforts to shape a more sustainable and prosperous future for us and for generations to come," said **HE Saeed Mohammed Al Tayer, MD & CEO of DEWA and Founder and Chairman of WETEX.**

EMPOWERING START-UPS

WETEX provides an opportunity to empower start-ups in the UAE and around the world to explore the future of green energy and benefit from the most successful experiences and the best global expertise in the energy and water sectors. It also allows them to understand market needs, especially with the significant expansion in the adoption of clean and renewable energy technologies in the UAE and the region.

SEMINARS AND WORKSHOPS

On the sidelines of the 26th WETEX, more than 130 specialised sessions and panel discussions were held,



featuring leading experts and specialists from around the world. These sessions highlighted innovation, sustainability, clean energy, electric vehicles (EVs), water treatment and waste management, green mobility, climate strategies, digital integration in energy, decarbonisation, climate finance, digital transformation, smart cities, emerging technologies, as well as environmental, social and governance (ESG) and more. The Leadership Roundtable sessions were also organised, featuring leading speakers and key players in various fields such as AI, green mobility and EVs, and innovation in water management. The speakers discussed key challenges and opportunities facing the sustainability, energy and water sectors, and the role of decision-makers in enhancing collaboration between the public and private sectors, and shaping policies that support global climate action. Additionally, they explored the use of modern technologies to advance sustainability efforts.

NEW ZONES IN WETEX

WETEX dedicated a Green Mobility Zone, for the first time. It featured a range of companies specialising in sustainable transport, to highlight innovative solutions and the latest technologies in individual and public transport. Additionally, a Health and Safety Hub was introduced for the first time, aimed at raising awareness about the latest safety technologies and practices. This hub included various sections, such as interactive workshops, panel discussions, a children's safety corner, and a competitions and games area to test knowledge and encourage innovation in health and safety procedures.

DEWA'S LEADING PROJECTS AND INITIATIVES

The DEWA projects, initiatives and digital services that were on show at WETEX will help to realise the Dubai Clean Energy Strategy 2050 and the Dubai Net Zero Carbon Emissions Strategy 2050 to produce 100% of the Emirate's energy capacity from clean energy sources by 2050. During the exhibition, DEWA highlighted several projects, including:

MOHAMMED BIN RASHID AL MAKTOUM SOLAR PARK

The Mohammed bin Rashid Al Maktoum Solar Park is the largest single-site solar park in the world based on the Independent Power Producer (IPP) model. The current production capacity at the solar park is 2,860MW, using the latest photovoltaic solar panels and CSP technologies, with 1,800MW under construction, bringing total production capacity to 4,660MW by 2026, after the 1,800MW sixth phase is completed. By 2030, around 27% of Dubai's energy production capacity will come from clean and renewable sources.

DEWA has secured two new Guinness World Records in the Fourth Phase of the solar park: the tallest solar tower in the world, at 263.126 metres, and the largest thermal energy storage capacity with a capacity of 5,907 megawatt hours (MWh).

GREEN HYDROGEN PROJECT

The Green Hydrogen project implemented by DEWA at the Mohammed bin Rashid Al Maktoum Solar Park is the first project of its kind in the MENA region to produce hydrogen using solar power, with a gas tank that can store up to 12 hours of hydrogen produced using solar power, a pioneering step towards a more sustainable future. Since its launch in 2021, DEWA has achieved its production goals, producing around 20kg of hydrogen an hour. The project has been designed to accommodate future applications and testing platforms for various uses of hydrogen. DEWA won the Hydrogen Project of the Year 2023 Award for its Green Hydrogen project. This was part of the Hydrogen Future Awards 2023, organised during the Connecting Green Hydrogen MENA (CGHM2023) conference in Dubai, highlighting international appreciation for DEWA's innovative efforts.



HASSYAN SEAWATER REVERSE OSMOSIS INDEPENDENT WATER PRODUCER PROJECT

This project is the world's largest of its kind in reverse-osmosis desalination of seawater using solar energy and the first project by DEWA based on the Independent Water Producer (IWP) model. The project will have a production capacity of 180 million gallons of desalinated water per day using reverse-osmosis technology. The total investment for the project amounts to AED 3.357 billion (USD 914 million).

PUMPED-STORAGE HYDROELECTRIC POWER PLANT IN HATTA

The pumped-storage hydroelectric power plant that DEWA is implementing in Hatta has a planned capacity of 250MW, a storage capacity of 1,500 megawatt-hours and a lifespan of up to 80 years. The project is the first of its kind in the Arabian Gulf, with an investment of up to AED 1.421 billion.

SMART GRID

Among the key success factors of smart cities is the seamlessness availability of round-the-clock integrated and connected services. The Smart Grid that DEWA is implementing, with a total investment of AED 7 billion, is one of the tools to achieve this goal. This is provided by the smart grid, which ensures two-way communication between the utility and its customers. The smart grid allows the monitoring of various components of power and water networks and provides advanced features that include automated decision-making capabilities and interoperability across the entire electricity and water network to ensure smooth, fast and efficient operations.

AQUIFER STORAGE AND RECOVERY (ASR) PROJECT

When completed, the Aquifer Storage and Recovery (ASR) project will enable the storage and retrieval of up to 6 billion imperial gallons of water, making it the largest of its kind in the world. This technology will create a strategic reserve, capable of supplying the Emirate of Dubai with over 50 million gallons of water a day for 90 days during emergencies. Furthermore, it ensures the safety of the stored water, protecting it from external influences.

SUSTAINABILITY AND INNOVATION CENTRE

DEWA's Sustainability and Innovation Centre at the Mohammed bin Rashid Al Maktoum Solar Park is a global incubator for innovation in various fields of clean and renewable energy. It also provides a unique educational environment by organising programmes and hosting activities throughout the year, building strategic partnerships with major local and international organisations and universities, as well as enhancing awareness on sustainability.

The Sustainability and Innovation Centre provides visitors with a unique experience to explore the latest innovation in sustainability and clean energy technology. The exhibition area on the first floor focuses on DEWA's journey, key historical inventions and innovation in electricity, as well as the latest developments in renewable and sustainable energy. Visitors can watch innovative drone and hologram shows. Using Metaverse technology, the Centre provides a unique experience that allows visitors to go on a virtual tour of the Mohammed bin Rashid Al Maktoum Solar Park.

EV GREEN CHARGER INITIATIVE

DEWA launched the EV Green Charger Initiative in 2014 to support Dubai's efforts to become the smartest and happiest city in the world and promote green mobility. By August 2024, the number of green charging stations exceeded 700, in collaboration with stakeholders, including around 400 green charging stations operated by DEWA. This number will increase in the coming years.

RAMMAS

Supported by ChatGPT technology, DEWA's virtual employee enhances customer experience, thanks to its superior ability to interact with users and better understand their needs. DEWA is the world's first utility and the first UAE government entity to use this technology as part of its continuous efforts to strengthen its leading position locally and globally.

WETEX 2024: A leading platform to discuss enhancing sustainability in the oil and gas sector



WETEX 2024 hosted global companies from the oil and gas sector, along with leading experts, specialists and decision-makers from this vital industry. They discussed best practices, the latest technologies and innovative solutions to enhance sustainability in the sector. Key topics included reducing oil and gas flaring, carbon capture and storage, improving efficiency and integrating renewable energy sources. These measures aim to reduce emissions and promote environmental sustainability, supporting the transition towards a green economy. This aligns with the United Nations' Sustainable Development Goals 2030, ensuring environmental protection and the conservation of natural resources.

FUTURE ENERGY LANDSCAPE FORUM

The Future Energy Landscape Forum, held over three days at WETEX 2024, was organised by Dragon Oil, the Knowledge Partner of WETEX 2024, in collaboration with the Society of Petroleum Engineers (SPE). The forum discussed comprehensive strategies for achieving sustainability in the oil and gas industry, focusing on decarbonisation, increasing efficiency, integrating renewable energy, and innovative waste management. It brought together prominent academics, experts, specialists and decision-makers from around the world to promote sustainable practices and contribute to a greener oil and gas sector.



"We are excited to highlight the importance of sustainability in our industry. WETEX 2024 provides a platform for industry leaders to discuss transformative energy solutions," said **Ali Rashid Al Jarwan, CEO of Dragon Oil.**

At WETEX, Dragon Oil showcased its significant initiatives that highlight its dedication to sustainability and technological innovation. It is leveraging AI to enhance logistics operations, aiming to reduce carbon emissions and improve efficiency across its supply chain. It is also working on innovative waste management solutions to minimise environmental impact and promote sustainable practices throughout its operations. These projects reflect its commitment to using cutting-edge technology to drive operational excellence and environmental responsibility.

The Future Energy Landscape Forum addressed the challenges and opportunities for sustainability in the oil and gas sector, showcasing the latest innovative solutions and technologies shaping the industry's future. The forum covered innovation in renewable energy, decarbonisation, the carbon circular economy and the potential for



adopting blue and green hydrogen as clean energy sources. Additionally, it explored how to advance energy diversification.

DAY ONE: 1 OCTOBER 2024 | ADVANCING DECARBONISATION STRATEGIES IN THE UPSTREAM OIL AND GAS INDUSTRY

The first day of the forum focused on innovative approaches to reducing greenhouse gas emissions in the oil and gas sector. Industry leaders presented case studies, key strategies, regulatory frameworks and the latest technologies to decarbonise operations while maintaining operational efficiency. Dragon Oil also shared its decarbonisation experience.

DAY TWO: 2 OCTOBER 2024 | INTEGRATING RENEWABLE ENERGY FOR A SUSTAINABLE FUTURE IN OIL AND GAS

Day two highlighted the integration of renewable energy sources within the oil and gas industry to enhance sustainability. Participants were introduced to the latest advancements and innovative technologies for incorporating renewable energy applications in both upstream and downstream operations. The forum explored the economic and environmental benefits of these integrations, along with strategies for overcoming technical and regulatory challenges, focusing on best practices and lessons learnt.

DAY THREE: 3 OCTOBER 2024 | INNOVATIVE APPROACHES TO WASTE MANAGEMENT IN THE OIL AND GAS INDUSTRY

The final day explored cutting-edge strategies for effective waste management in the oil and gas industry. Attendees learnt about advanced technologies and practices for reducing, recycling and repurposing waste materials. Industry leaders and experts shared successful case studies of sustainable waste management to enhance operational efficiency and environmental compliance.

SUPPORTING THE UAE'S NATIONAL EFFORTS

WETEX supports the UAE's efforts to achieve a green economy, including enhancing sustainability in the oil and gas sector and promoting efficiency, effectiveness and environmental sustainability. The UAE has successfully reduced natural gas flaring from the oil and gas industry since the 1990s, adopting a strict approach to eliminating gas flaring entirely. The UAE Government is also addressing the growing demand for energy by adopting renewable and clean energy sources, using the latest technologies to build environmentally friendly power plants.

LEADING PLATFORM

The 26th edition of WETEX has attracted a number of public and private companies specialising in natural gas. These companies will showcase the latest technologies in the oil and gas sector, including carbon capture and storage (CCS) technologies, compressed natural gas (CNG) and liquefied natural gas (LNG) for transport, as well as co-generation technologies to enhance energy efficiency. Additionally, companies will highlight blue hydrogen production technologies and smart gas networks, contributing to more efficient energy consumption management. This positions natural gas as a key driver in supporting sustainability and reducing carbon emissions.

One of the key participants in WETEX 2024 is Emirates National Oil Company (ENOC), a leading integrated player in the oil and gas sector and a supporter of Dubai's ongoing efforts to advance economic diversification and sustainable development. ENOC will showcase its latest solutions, including advanced refining technologies, a smart energy management system to improve energy efficiency



and leading projects in biofuels and emission reduction innovations. ENOC will also highlight its initiatives to support environmental sustainability and achieve the Dubai Clean Energy Strategy 2050 and the Dubai Net Zero Carbon Emissions Strategy 2050.

"As a leading integrated global energy player, we are proud to have been participating at WETEX for over a decade now and are delighted to partner with DEWA for the event's 26th edition. We look forward to another edition of thought-provoking discussions that are critical to today's evolving environment," said HE Saif Humaid Al Falasi, Group CEO of ENOC.

Zhengzhou Desen Environmental Technology Co Ltd introduced its latest soil-washing and remediation technology for oil-contaminated soil at WETEX 2024. Building on its previous effective soil-washing system, DESEN has incorporated multi-gravity separation and hot washing to achieve a cleaner washing effect. This technology is now being used in the remediation of oil-contaminated soil in both China and the UAE.

THE ROLE OF NATURAL GAS IN PROMOTING SUSTAINABILITY

In light of global efforts to achieve sustainability goals and combat climate change, natural gas has emerged as an effective solution to support the transition to a clean energy future. It plays a vital role in stabilising renewable energy systems and reducing reliance on more polluting fossil fuels. While many developed countries are heavily investing in renewable energy projects and technologies to transition to green economies, numerous nations still rely on fossil fuels to meet their energy needs. In this context, natural gas serves as a transitional solution, reducing carbon emissions in the short to medium term while providing time to further develop renewable energy technologies.

Natural gas has significantly contributed to reducing carbon emissions in many countries around the world. Its flexibility makes it an ideal partner for intermittent renewable energy sources like wind and solar power, effectively meeting energy demands during periods of low electricity generation from renewables. Technological advancements are enhancing the sustainability of natural gas, particularly through CCS technologies, which capture emissions from power plants and convert them for storage or industrial applications. These innovations are essential to achieving carbon reduction goals and ensuring that natural gas remains part of the sustainable energy mix in the future.

WETEX provided an ideal platform to showcase innovation and solutions that enhance the role of natural gas in the transition to clean energy. It has fostered collaborations among energy infrastructure companies, investors and decision-makers, supporting this transition. The natural gas industry also provides millions of jobs globally, and any rapid shift away from it must consider the impact on these communities and economies. This underscores the importance of well-informed policies that balance environmental sustainability with economic development, ensuring natural gas is phased out only when sustainable alternatives are fully ready to meet global energy demands.

WETEX offers a platform for global organisations and companies to showcase their latest solutions and products, while exploring innovative technologies in energy, water, sustainability, green technologies, renewable and clean energy, green mobility, sustainable development and green buildings. As the region's largest exhibition of its kind, WETEX promotes the efforts of Dubai and the UAE to support global sustainable development initiatives, strengthening Dubai's position as a global hub for the green economy. Over the years, the exhibition has become a highly anticipated global event, where stakeholders from various vital sectors converge to set new recommendations and standards, offering solutions that support current and future sustainability projects.

Belarus pavilion at WETEX highlights latest technologies in energy efficiency and sustainable buildings

The Belarus pavilion at WETEX 2024 highlighted the latest innovative solutions in energy efficiency and sustainability, as well as sustainable building solutions.



"We are grateful to DEWA for providing the National Centre for Marketing of the Ministry of Foreign Affairs of the Republic of Belarus, as the leading national institution for foreign trade promotion, the opportunity to organise the Belarus pavilion at WETEX. It is a great opportunity for our companies to showcase their latest technologies and efficient solutions, demonstrating the immense potential of our country to foster co-operation. We are confident that this first experience of participation will mark the starting point for large-scale projects in the future," said **Mikalai Barysevich, Director General of the National Centre for Marketing in the Ministry of Foreign Affairs of Belarus.**

Within the Belarus pavilion at WETEX 2024, Energocomplekt, a market leader and reputable manufacturer of high-quality cables and wires, showcased its latest innovation in energy efficiency and sustainability. Polymer Construction presented its innovative polymer-based materials and construction techniques, emphasising sustainable and high-performance building solutions.



Indian pavilion hosts 29 of the country's leading companies at WETEX 2024

The international pavilion of India at the 26th WETEX hosted 29 leading companies keen to highlight their latest innovations in renewable energy, water treatment, sustainability and more.

Rishabh Sanghvi, Vice President of the Water Purification and Treatment Association of Gujarat (WAPTAG), said his organisation's association with WETEX is getting stronger each year, at a time when relations between the UAE and India are deepening.



"The participation of WAPTAG members has been increased by almost 50% compared to last year and we are hoping for much bigger participation in the coming years.

Companies joining the WAPTAG India Pavilion at WETEX are among the best manufacturers in India and they will be highlighting cutting-edge technologies and solutions for all drinking, effluent and sewage water treatment solutions. The innovations and solutions provided by our members will surely help all visitors from around the world to get sustainable solutions, which is going to help them to preserve the environment and protect our ecosystem," said **Sanghvi**.

UAE-India economic ties are witnessing rapid growth due to the Comprehensive Economic Partnership Agreement (CEPA) that came into effect in May 2022. Trade volume reached $84.5 billion between April 2022 and March 2023, and is expected to hit $100 billion by 2027. The UAE is the seventh-largest investor in India, with investments valued at $18 billion in 2023.

Companies joining the Indian pavilion at WETEX highlighted cutting-edge technologies and sustainable projects to support the green economy and realise the UN's Sustainable Development Goals. They showcased innovative solutions that promote the collaboration between the two countries in technology and the environment, highlighting their commitment to building a more sustainable future for generations to come.





WETEX attracts international companies specialised in global exhibitions and forums wishing to expand their growth

WETEX has become a global platform for regional and international exhibitions and forums looking for new exhibitors and partners and wishing to enrich their customer base in the region and around the world and expand their growth opportunities.

WETEX has secured a prestigious position as the largest exhibition of its kind in the region and one of the most prominent specialised international exhibitions in water, energy, sustainability, green technologies, renewable and clean energy, green buildings, electric vehicles, smart grid, and other vital sectors. WETEX enhances Dubai's position as an international hub for exhibitions and conferences, and a global capital for green economy and sustainable development. WETEX is a major contributor in highlighting Dubai's global leadership in the exhibition sector, and showcasing the cultural, commercial, and investment exposure in the Emirate. It also emphasises Dubai's advanced infrastructure and its specialised international centres in the exhibition and conference industry.

MIE Group Announces Largest International Pavilion from China at WETEX 2024

MIE Group is proud to announce that over 200 Chinese exhibitors will be participating in WETEX 2024, occupying a substantial 2,000-square-metre area. This marks the largest international pavilion from China at the event, underscoring the strong presence and commitment of Chinese companies to the Middle East market. WETEX 2024 provides an unparalleled platform for exhibitors to showcase their innovative products and solutions. This prestigious water event aligns perfectly with our sustainability and eco-friendly goals, emphasising the importance of sustainable water management and environmental protection. The participation of these Chinese companies not only highlights the dynamic trade relations between China and the Middle East but also reinforces MIE Group's commitment to facilitating global business opportunities. We are excited to see the collaborations and partnerships that will emerge from this significant event," said **David Wang, MIE Chairman.**





Charles Maeng from IPR Forum said: "Currently, the hottest keyword in the global energy market is by far 'carbon neutral', and the development of clean energy such as green hydrogen is accelerating to realise this. As the demand for related technologies and equipment increases, opportunities for Korean companies to enter the global market are expected to continue. As many related companies from various countries participate in WETEX, it is easy to raise technology and product awareness, networking with potential buyers, and identify industrial trends. Therefore, it is expected that Korean companies in energy, environment, and projects will actively participate in the next WETEX."

WETEX 2024 showcases the latest technologies to increase the efficiency of energy production, transmission and distribution



WETEX 2024 highlighted the most prominent innovative solutions and products that use the latest technologies in energy production, transmission and distribution, as well as the relevant equipment. The highlights included low, medium and high-voltage substations, generators, integrated plants, traditional and eco-friendly transformers, overhead power transmission towers, power cables, fibre-optic cables, cable detectors, overhead lines, circuit breakers and switches, various voltage electrical distribution panels, various voltage electrical duct systems and junction boxes.

FEDERAL ELECTRIC
SMART ELECTRIFICATION & AUTOMATION

During WETEX, Federal Transformers highlighted EU and GCC approved key products. These include oil-immersed distribution transformers with capacities reaching up to 132 kV, as well as its eco-friendly, dry-type cast resin transformers of up to 36kV. Additionally, the company presented its silicone/Midel liquid-filled transformers, package substations and special transformers, including earthing transformers, Scott-connected transformers, auto transformers, phase-shifting transformers and current-limiting series reactors, and more.

BONN GROUP

Bonn Group highlighted its cable trays and cable ladders. "WETEX provides a premier experience, offering unparalleled opportunities for industry engagement and collaboration. This year marks our third participation in WETEX, and we have witnessed substantial growth in the industry during this period. Each event has further strengthened our position and expanded our network, enabling us to drive innovation and collaboration effectively," said **Neha Motiwala, General Manager of Bonn Metal Construction Industries.**

RAY INTERNATIONAL

Ray International Electrical Contracting showcased its products and solutions for overhead lines monitoring and diagnosing, including Fault Passage Indicators powered from the line and Intellectual Disconnector that can automatically open the feeder in the event of a fault.

The company launched its new product, the E-Beam Flexi Tough Wires & Power Cables that are manufactured by V-Marc India Ltd, at WETEX 2024. The new cables offer unparalleled safety and efficiency. With eco-friendly materials and exceptional thermal performance, they are engineered for reliability and sustainability.

INDOASIAN

IndoAsian showcased its various ranges of products like fuses and Mini Distribution Pillars (MDP). It also highlighted its new 2,000kVA Short Circuit Transformer, and 10kA Residual Current Operated Circuit Breaker (RCBO).

WETEX 2024 supports future readiness of digital infrastructure worldwide

The 26th WETEX 2024 hosted numerous global companies specialising in digital transformation and smart net-zero buildings.

During its participation in WETEX 2024, Itron launched its innovative solution, Grid Edge Intelligence, for the first time in the Middle East. This low-power solution enhances grid management by combining artificial intelligence and edge computing. Grid Edge Intelligence helps utility companies increase the security, efficiency, and reliability of their networks, while also providing vast amounts of data that offer greater control and insight into the network's status. The solution integrates advanced metering, grid control and data analytics, enabling a smarter, more efficient and advanced network.

Dragon Oil

At WETEX, Dragon Oil showcased its significant initiatives that highlight its dedication to sustainability and technological innovation. It is leveraging AI to enhance logistics operations, aiming to reduce carbon emissions and improve efficiency across its supply chain. It is also working on innovative waste management solutions to minimise environmental impact and promote sustainable practices throughout its operations. These projects reflect its commitment to using cutting-edge technology to drive operational excellence and environmental responsibility.

AVANCEON
Tomorrow's solutions, today.

Avanceon highlighted its latest technologies that support the digital transformation in energy and water sector. It focuses on its solutions for transforming water monitoring and management. Leveraging real-time data and analytics and advanced sensors, its technology tracks flow, pressure, and detects leaks to maintain peak efficiency. With data-driven insights, it reduces water loss, enhances asset performance, and ensures accurate billing, enabling smarter decision-making for a sustainable future. Avanceon also showcased its pioneering technologies that promote energy efficiency in the industrial sector, enhance operational reliability and safety, and reduce costs. Moreover, it showcased its smart systems that depend on automation, incorporate real-time data analysis and digital energy management, and transform complex data into actionable insights.

According to ARIA Cybersecurity Solutions, cybercriminals have been successful in 2023 in compromising more than 50% of disaster recovery and backup repositories. Over two thirds of manufacturing companies have reported



successful malware and ransomware attacks which represent the #1 targeted industry in the world.

Badger Meter

Badger Meter has redefined smart water management with BlueEdge, a customisable suite of products, software and services. It offers solutions for the complete water cycle, including distribution network monitoring, wastewater treatment, drinking water treatment, customer water usage, industrial process, HVAC systems, property operations and more.

"Badger Meter is delighted to be back at WETEX for our 22nd year. For us the event is key to strategy in the region. WETEX is the focal point of the water industry in the Middle East, and we eagerly await the opportunity to talk with existing partners and look forward to making many more valued relationships. I am excited to present our BlueEdge™ suite of scalable, bespoke solutions that integrate water technology, software and services, designed to address the industry's most common challenges and deliver continuous water management," said Garry Tabor, Director of Smart Water, Badger Meter.

EECC Contracting

The Saudi EECC Contracting company promoted its artificial intelligence (AI) and Internet of Things (IoT) products that were entirely developed and manufactured in EECC's laboratories. These include smart energy monitoring equipment and smart home systems, as well as the earth fault detection, air fault detection, WiFi smart switchgear, WiFi-RF switchgear, KASHEF 001 earth fault detection, KASHEF 201 smart earth fault detection and KASHEF 501 air fault detection products.

HMS Networks

HMS Networks highlighted its extensive range of automation and control solutions for the industrial sector. Its products enable millions of machines such as robots, drives and air conditioners (AC) to get connected to software and systems. This is a necessity to meet the demands for energy efficiency and sustainability.

"WETEX has consistently proved to be a valuable platform for HMS Networks ME to showcase our innovative solutions and connect with key industry players. The event's growing reputation and focus on cutting-edge technologies make it an ideal venue for us to expand our reach and strengthen our partnerships," said Danish Subzwari, General Manager for the Middle East at HMS Networks.

Sociedad Anónima de Construcciones Industriales (SACI)

SACI highlighted its advanced systems for monitoring low-voltage networks, ensuring intelligent, real-time responses, and thereby achieving cost savings in maintenance over the medium and long term. The company focused on its SBT4V-5C device, a digital network analyser designed to gather information and data from three-phase low-voltage networks. The device enhances network security by detecting electrical faults at an early stage. Advanced monitoring systems can provide detailed information on energy consumption and equipment efficiency, allowing measures to be taken to improve efficiency and reduce operating costs and carbon footprint. The SBT4V-5C device can be integrated with wider control and automation systems, offering more effective management of the entire electric infrastructure.

"We are delighted to be taking part in WETEX, the leading exhibition for water, energy, environment and sustainable technologies. This exhibition is crucial to the development of emerging cities, where the solutions presented by exhibitors play a key role in building a more sustainable and efficient future," said Jesús Montalbán, CEO of SACI.

"For SACI, WETEX 2024 is a unique opportunity to showcase our latest innovations designed to meet the specific needs of each customer. From our advanced network analysers to energy meters and current transformers, we have developed solutions that combine accuracy and efficiency," said Juan Manuel Cumplido, Commercial Director of SACI.

INTERNATIONAL CONSULTING
The future in your hand

International Five Consulting unveiled at WETEX the latest version of its SmartBuilding eco-platform, featuring advanced energy optimisation algorithms and integration capabilities with emerging IoT technologies. This platform is designed to help organisations significantly improve the efficiency of their energy



consumption and carbon footprint, and achieve compliance with local and international regulations.

"We are thrilled to participate in WETEX 2024 for the second time, where we will showcase our latest innovations in energy management and smart technologies. This event is a crucial platform for us to connect with industry leaders and contribute to the future of sustainable energy, ecological and smart buildings," said Ahmed Becha, CEO of International Five Consulting.

Mainlink

Mainlink offered a comprehensive range of services related to smart meters for electricity or water use, from design planning, supply and installation to energy management and billing services. The company's solutions are available for both new buildings and retrofitted structures.

NAFFCO
PASSION TO PROTECT

Naffco highlighted its latest flow control valves and firefighting monitors that are designed to optimise water distribution and fire suppression in large-scale industrial and commercial projects. It also showed its state-of-the-art backup power systems that provide reliable electricity during emergencies and grid failures. These systems are designed with sustainability in mind, incorporating renewable energy compatibility to support green building projects and critical infrastructure. NAFFCO unveiled its innovative Electric Truck and Electric Ambulance models, which are designed to reduce emissions and increase energy efficiency in emergency response operations. These vehicles offer zero-emission transport while maintaining the highest standards of performance and reliability.

bidgely

Bidgely highlighted its new AI-powered data analytics for energy disaggregation, to increase energy and water efficiency. It also showcased the latest versions of its award-winning generative AI (GenAI) integration UtilityAI Platform, that is integrated, offering utilities and their customers even more intelligent tools for energy management. The platform allows a fast and autonomous query responses.

Smart Insulation Finishing Systems

Smart Insulation Finishing Systems highlighted its building materials designed to support net-zero buildings.

AQWA DATA

AQWA DATA highlighted its advanced data-based systems and devices for hydrometry and meteorology. These include data-logger devices, data modems, groundwater measurement systems and flood-warning systems.

WETEX 2024 SPONSORS

PRINCIPAL SPONSORS

ACWA POWER · MASDAR · RTA · DEPARTMENT OF ENERGY · enoc · SIEMENS · SIEMENS ENERGY · Jeddah Cables Company · TAQA · Riyadh Cables Group

TITANIUM SPONSORS

DAMAC · TAQA Water Solutions · Etihad Water & Electricity · GREEN OASIS

PLATINUM SPONSORS

HITACHI · AG POWER · UNEC

STRATEGIC SPONSORS

EMPOWER · Tesar · FPI · CENTAUR · VOLTAMP · HD HYUNDAI ELECTRIC · LARSEN & TOUBRO · HYOSUNG · Tristar Engineering & Construction L.L.C. · EWEC · NCI · ducab · DANWAY · SAP

STRATEGIC MEDIA SPONSORS

CNBC

GOLD SPONSORS

Emirates Transformer & Switchgear · aasa · hayat communications · SOCIAL EYEZ · AFAQ AL KHALEEJ · FEDERAL ELECTRIC · TAMCO · ENERGOPROJEKT · Itron · DANUBE PROPERTIES · Power Plus Cable Co. LLC · CEPCO · ARAR · EGA · AVANCEON · Lucy Electric · TRILLIUM · TORISHIMA · POWERCHINA · Binladin Contracting Group · Dragon Oil · BEST · maetel · SEE HOLDING · CITYSOLAR · RAY · IYYM · INGRAM · SEL · bidgely · GAMA · ABC · Arabian Furniture & Decor Company · HUAWEI

MEDIA PARTNERS

SOLAR QUARTER MIDDLE EAST · Forbes Middle East

LEADERSHIP ROUNDTABLE SPONSORS

Roland Berger · pwc · GENSOL

FREEZONE PARTNERS

EXPO CITY DUBAI · Jafza

KNOWLEDGE PARTNERS

Clean Energy Business Council · ARUP · DELL Technologies · intel · EEG