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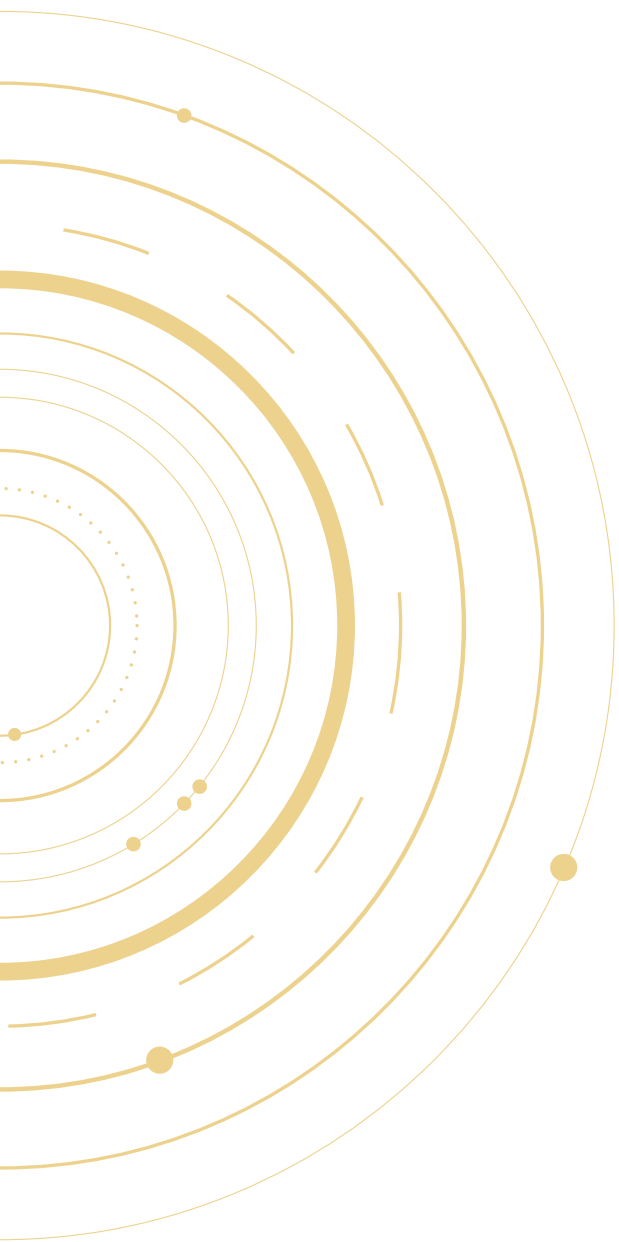
MASDAR

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ISSUE 77
DECEMBER 2020

**HH SHEIKH
MOHAMMED BIN RASHID
ALMAKTOUM INAUGURATES
DEWA INNOVATION CENTRE AND
800MW 3RD PHASE OF THE
MOHAMMED BIN RASHID AL
MAKTOUM SOLAR PARK**







“ We do what we say and we say what we do ”

HH Sheikh Mohammed bin Rashid Al Maktoum

Vice President and Prime Minister of the UAE and Ruler of Dubai

Our Purpose

Providing globally leading sustainable, efficient, and reliable power and water services, and related innovative smart solutions.

Our Vision

A globally leading sustainable innovative corporation.

Our Mission

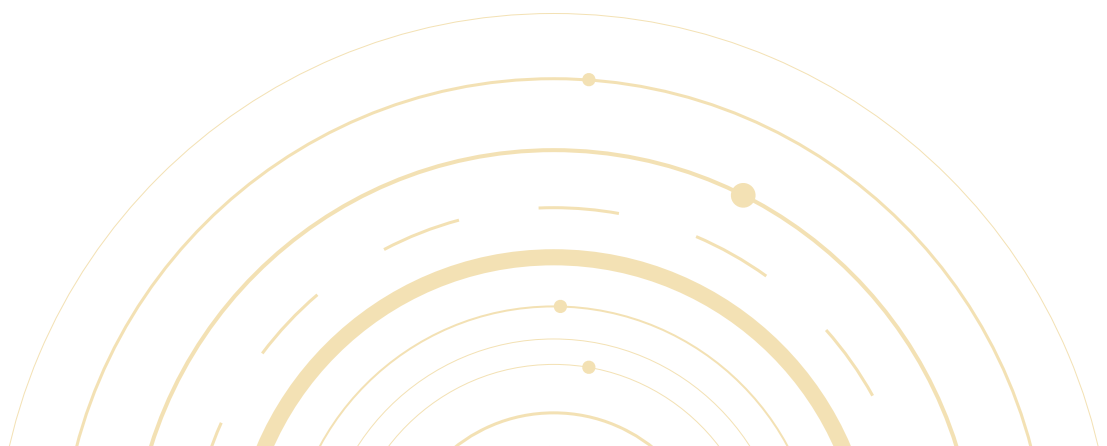
We are committed and aligned to Dubai's 8 Principles and 50-Year Charter supporting the UAE's directions through the delivery of global leading services and innovative energy solutions enriching lives and ensuring the happiness of our stakeholders in a sustainable manner.

Our Values

Stakeholders' Happiness, Sustainability, Innovation, Excellence, and Good Governance.

Our Motto

For generations to come.





MD & CEO MESSAGE

HE SAEED MOHAMMED AL TAYER

MD & CEO of Dubai Electricity &
Water Authority

INSPIRING WORDS BY AN INSPIRING LEADER

“We do what we say and we say what we do,” said His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, during the inauguration of pioneering projects by Dubai Electricity and Water Authority at the Mohammed bin Rashid Al Maktoum Solar Park. Those words show that the vision of His Highness for sustainable development in the UAE is backed by major projects, implemented according to the highest standards and best global specifications.

His Highness Sheikh Mohammed bin Rashid Al Maktoum honoured us with his visit to the Solar Park in November, where he inaugurated two pioneering projects. These are the Innovation Centre and the 800MW third phase. His Highness also visited the largest Concentrated Solar Power (CSP) project in the world at the 950MW fourth phase. This phase has total investments of AED 15.78 billion using the Independent Power Producer (IPP) model. The completion of the third phase, which increased the production capacity of the Solar Park to 1,013MW, supports DEWA's efforts to achieve the Dubai Clean Energy Strategy 2050 to provide 75% of Dubai's total power capacity from clean energy and to make Dubai the city with the lowest carbon footprint in the world by 2050. The clean energy share has increased to 9% of Dubai's installed capacity, exceeding the strategy's target to provide 7% from clean energy sources by 2020.

The Post-COVID Recovery: An Agenda for Resilience, Development and Equality report issued by the International Renewable Energy Agency (IRENA) in April

2020 showed that every million dollars (USD) invested in renewables would create three times more jobs than in fossil fuels. It also notes that increasing government and private sector spending on renewables will provide 19 million jobs by 2030. At DEWA, we implement the solar park's phases in cooperation with our partners in the private sector using the IPP model. DEWA has attracted investments up to AED 40 billion using this model, which increases public-private partnerships. As a result, DEWA has recorded the world's lowest solar power prices five times in a row, making Dubai a global benchmark for solar power prices.

DEWA's pioneering projects, which are implemented, under the directives of the wise leadership, by Emirati men and women, present a significant addition to the major projects in the UAE especially in sustainability and alternative and renewable energy. These projects enhance the UAE's competitiveness and leadership not only in implementing clean energy projects, but also in R&D, innovation and creativity.

We promise our wise leadership to continue implementing clean and renewable energy projects, enhance innovation, and localise knowledge and experiences. We will do this by encouraging R&D in these areas to make Dubai the city with the lowest carbon footprint in the world, and enhance its position as an incubator for creativity and a beacon of innovation, to make the UAE the world's leading nation by its Centennial in 2071.

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FLAG DAY



HH Sheikh Mohammed bin Rashid Al Maktoum inaugurates DEWA Innovation Centre and 800MW 3rd phase of the Mohammed bin Rashid Al Maktoum Solar Park

HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, has inaugurated DEWA's Innovation Centre and the 800MW third phase of the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world. With a planned total capacity of 5,000MW by 2030.

His Highness also visited the site of the 950MW fourth phase of the solar park, the world's largest Concentrated Solar Power (CSP) project, being developed at an investment of AED15.78 billion using the Independent Power Producer (IPP) model. The fourth phase of the Mohammed bin Rashid Al Maktoum Solar Park, which is also the world's largest single-site investment project, combines CSP with photovoltaic solar panels. The project features the world's tallest solar power tower that will be 262.44 metres high.

HH Sheikh Mohammed bin Rashid Al Maktoum was welcomed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA. HH Sheikh Mohammed bin Rashid Al Maktoum was briefed by HE Al Tayer about the Innovation Centre, a global hub for renewable and clean energy innovation that is expected to

contribute to shaping the global future of sustainable energy. The Centre houses an auditorium for events, conferences, and training programmes on solar power, renewable energy, and other green initiatives. The four-storey building covers 4,355 square metres and is 88 metres high. His Highness toured the Innovation Centre's exhibitions, which focus on solar power and its various technologies.

Through the Innovation Centre, DEWA aims to support innovation and creativity in clean and renewable energy, promote sustainability, develop Emirati talent and enhance the country's competitive advantage in this sector. The Innovation Centre's research on solar power will support the Dubai Clean Energy Strategy 2050, which aims to diversify the energy mix and provide 75% of Dubai's total power capacity from clean energy sources by 2050.

800MW third phase

During the visit, HH Sheikh Mohammed bin Rashid Al Maktoum inaugurated the 800MW third phase of the Mohammed bin Rashid Al Maktoum Solar Park. DEWA built the third phase using the IPP model in partnership with a

consortium led by Abu Dhabi Future Energy Company (Masdar) and EDF Group, through its subsidiary EDF Énergies Nouvelles at an investment of AED3.47 billion. The third phase provides clean energy for over 240,000 residences in Dubai. The facility is the first of its kind in the Middle East and North Africa region to use single-axis solar tracking to increase energy generation. It also uses other innovative technologies, including cleaning robots for photovoltaic panels to increase the plant's efficiency.

HH Sheikh Mohammed bin Rashid Al Maktoum was briefed by Al Tayer on the Solar Park's phases and technologies. The total capacity of operational projects at the Solar Park, which uses photovoltaic solar panels, is 1,013MW. DEWA is creating an additional capacity of 1,850MW using solar panels and Concentrated Solar Power (CSP), in addition to future phases to reach 5,000MW by 2030. Al Tayer explained that with the inauguration of the third phase, the share of clean energy in Dubai's total power capacity has increased to 9%. This exceeds the target of Dubai Clean Energy Strategy 2050 to provide 7% of power from clean energy by 2020.



HH Sheikh Mohammed bin Rashid Al Maktoum concluded his tour by visiting the fourth phase of the Mohammed bin Rashid Al Maktoum Solar Park. Combining CSP and photovoltaic technology based on the IPP model, the fourth phase is the largest single-site CSP project in the world. The 950MW project, featuring an investment of AED15.78 billion, has the world's tallest solar power tower measuring 262.44 metres in height.

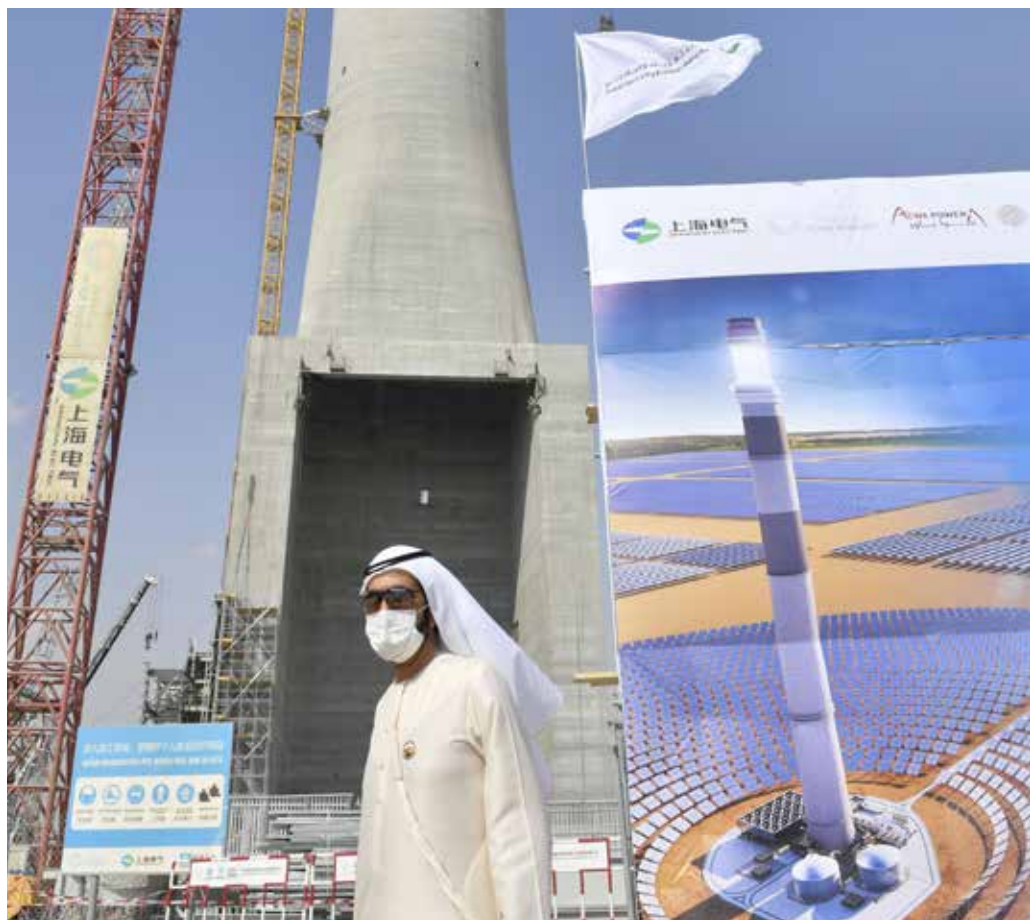
"Inspired by the vision of the UAE leadership, the inauguration of the third phase of the Mohammed bin Rashid Al Maktoum Solar Park marks a significant milestone in the journey towards achieving the UAE's target of having 50 per cent of its power coming from clean energy by 2050," said HE Dr. Sultan Ahmed Al Jaber, Minister of Industry and Advanced Technology and Chairman of Abu Dhabi Future Energy Company (Masdar).

"As the UAE prepares for 'The Next 50 Years', the Mohammed bin Rashid Al Maktoum Solar Park will further strengthen the country's position as a global leader in cost-competitive renewable energy. This project is a prime example of how Masdar and DEWA are utilising the latest advances in clean energy technology to drive cost efficiencies and maximise return on investment. "I would like to congratulate all the teams involved in Shua'a Energy 2 for the delivery of this pioneering, strategic project for the UAE. As we look forward to the next 50 years, our

dream of a sustainable future for all generations is becoming a reality," Al Jaber added.

"We work in line with the vision and directives of His Highness Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE; the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice

President and Prime Minister of the UAE and Ruler of Dubai; and the guidance of His Highness Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces. By following their approach, we are committed to helping make the UAE the world's leading nation by 2071. We pledge to



His Highness Sheikh Mohammed bin Rashid Al Maktoum that we will continue our development projects to achieve His Highness's ambitious vision for this national landmark. The Solar Park reflects both the UAE's success and the concerted efforts of Abu Dhabi and Dubai, to achieve significant progress in diversifying clean energy sources, especially solar power," said Al Tayer.

"We promise our leadership that we will continue implementing more clean and renewable energy projects, guided by the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum. We also pledge to ensure the UAE will consolidate its global leadership in this sector in line with the strategic theme of this year, '2020: Towards the Next 50', to further the country's progress, growth and prosperity in all sectors," concluded Al Tayer.

"It is a great honour for EDF Group to be part of one of the world's largest solar projects. For the EDF Renewables team, the 800MW third

phase of the Mohammed bin Rashid Al Maktoum Solar Park represents a fantastic accomplishment, alongside our long-term partner Masdar. It clearly demonstrates our strong solar expertise and global experience in renewables. It also perfectly fits into the EDF Group's ambitions to contribute to the UAE's efforts to mitigate climate change using low-carbon energies," said Bruno Bensasson, Chairman and Chief Executive Officer of EDF Renewables & EDF Group Senior Executive Vice President, Renewable Energies.

Innovation Centre

The Innovation Centre is the first and largest government centre to receive the 'Done by Youth' seal from the Federal Youth Authority. Developed by a team of young Emiratis, the Centre supports the next generation of innovators in clean energy technologies while focusing on developing national capabilities. The Innovation Centre will be an educational platform that hosts events, conferences, seminars, and workshops.

It will build a strong collaboration with schools, universities, start-ups, and local and international organisations for research, knowledge-exchange, and organisation of exhibitions.

The Innovation Centre offers an opportunity for visitors to explore the latest innovations in clean energy technologies. The exhibition area on the first floor of the Centre focuses on DEWA's history, key inventions and innovations in electricity, and the latest developments in renewable and sustainable energy. The area also includes over 30 interactive exhibits designed to introduce visitors to renewable energy developments. The area also houses the DEWA Museum, water desalination plants, and a visual area that explains the properties of light and solar radiation. The Centre also features an exhibition on photovoltaic solar power and the key components of solar photovoltaic cells, solar photovoltaic technologies, CSP and the Solar Power Tower. It also showcases DEWA's renewable energy journey, Smart DEWA, solar cell

3RD PHASE (800MW) OF THE MOHAMMED BIN RASHID AL MAKTOUM SOLAR PARK



The 3rd phase covers an area of 18 square kilometres

COVER STORY

applications in spacecraft and satellites, a model that explains the working mechanisms of electric vehicles, a wind turbine, and the development of DEWA's sustainable buildings.

The Innovation Centre received a platinum rating from LEED (Leadership in Energy and Environmental Design) with 101 points out of a possible 110 in the first quarter of 2020. This is the highest score in the world for a new government building. The Centre received this recognition by achieving high scores in water efficiency, internal environment quality, energy efficiency, innovation, and design. The Centre also collects rainwater and treats it on site.

Clean Energy

The inauguration of the 800MW 3rd phase of the Mohammed bin Rashid Al Maktoum Solar Park supports the directives of HH Sheikh Mohammed bin Rashid Al Maktoum to provide 75% of Dubai's total power capacity from clean energy and attract environmentally-friendly investments through the Dubai Clean Energy Strategy 2050. To achieve this goal, Dubai has developed

an integrated system to train UAE Nationals and recruit the most skilled and experienced people from around the world. DEWA now has a team of young Emiratis with specialised expertise in clean energy and shaping the future.

DEWA has attracted AED 40 billion in investments and enhanced public-private partnerships through the IPP model that has created promising opportunities. By implementing the IPP model, Mohammed bin Rashid Al Maktoum Solar Park projects have recorded the world's lowest solar power prices five times in a row.

Fourth Phase

The fourth phase of the Mohammed bin Rashid Al Maktoum Solar Park uses three hybrid technologies to produce clean energy: 600MW from a parabolic basin complex (three units of 200MW each), 100MW from a solar power tower (based on Molten Salt technology), and 250MW from photovoltaic solar panels. The Molten Salt Receiver (MSR) on top of the solar power tower is the core and the most important part of the CSP plant. It receives solar radiation and turns it into thermal energy. The

MSR contains over 1,000 thin tubes that enable the absorption of sunrays and their transfer to the molten salt within these tubes. On its completion, the project will have the world's largest global thermal storage capacity of 15 hours, facilitating energy availability round the clock. The fourth phase will provide clean energy for 320,000 residences and will reduce 1.6 million tonnes of carbon emissions per year.

The project, which covers a total area of 44 square kilometres, has broken many world records, including the lowest Levelised Cost of Electricity (LCOE) of USD 7.3 cents per kilowatt-hour (kWh) for the 700MW CSP and USD 2.4 cents per kWh for the 250MW photovoltaic solar panels. A consortium led by DEWA and ACWA Power has formed a project company, Noor Energy 1, to design, build, and operate the plant. DEWA owns 51% of the company while ACWA Power owns 25%, and the Silk Road Fund 24%. The fourth phase will be operational in stages starting from Q3 2021.





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HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum reviews DEWA's key initiatives to reshape future of services at GITEX 2020

HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, visited DEWA's stand at GITEX Technology Week 2020. His Highness was welcomed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

Al Tayer briefed His Highness about DEWA's key strategies and initiatives in innovation to reshape the future and quality of services to all customers and stakeholders. These include Digital DEWA, its digital arm, which will disrupt the entire business of public utilities.

Marwan Bin Haidar, Executive Vice President of Innovation and the Future at DEWA, presented some of DEWA's projects in digital transformation and automation. These include the Smart Living initiative, which enables customers with smart electricity and water meters to monitor their consumption and get daily, monthly, and annual reports through a digital dashboard on DEWA's smart app and website; the four-legged Spot Robots for internal operations; and the wearable robotic exoskeletons to increase efficiency and accuracy and protect the health and safety of staff.

With the theme 'Inspiring the Next

Generation of Breakthroughs,' DEWA presented a number of its services that use robots and AI at GITEX Technology Week. These include Robotic Process Automation (RPA) to enhance its Geographic Information System's operational performance; and DEWA's virtual employee Rammas. This is available on DEWA's website, smart app, Facebook page, Amazon's Alexa, Google Assistant, robots, and WhatsApp Business. DEWA also has on display its interactive Hab-Reeh service that enables Shams Dubai project contractors to check that their projects meet DEWA's standards for power quality before submitting them for approval.



Hamdan bin Rashid inaugurates virtual edition of WETEX and Dubai Solar Show 2020

Exhibition featured a total of 1,076 companies from 52 countries around the world

Deputy Ruler of Dubai, Minister of Finance and President of Dubai Electricity and Water Authority (DEWA) His Highness Sheikh Hamdan bin Rashid Al Maktoum, virtually inaugurated the Water, Energy, Technology and Environment Exhibition (WETEX) and the Dubai Solar Show 2020. The virtual exhibition was organised by DEWA under the directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and under the patronage of His Highness Sheikh Hamdan bin Rashid Al Maktoum.

The carbon-neutral 3D exhibition featured the participation of a total of 1,076 companies from 52 countries around the world.

During his opening speech at the virtual ceremony, HH Sheikh Hamdan welcomed exhibitors and visitors to the 22nd WETEX 2020, which highlighted the latest solutions and innovative technologies in the water, clean energy, environment, oil and gas sectors.

“The first of its kind in the Middle East and North Africa region, this carbon-neutral edition of the exhibition will provide an exceptional experience for both exhibitors and visitors, as well as meeting opportunities between exhibitors and decision-makers. It will also feature seminars and sessions which will be attended by officials, experts and influential figures in the green economy, smart cities and sustainability. We hope that the exhibition will see successful participations, meetings, recommendations and practical

proposals to support the sustainable development locally and globally,” Sheikh Hamdan said.

His Excellency Saeed Mohammed Al Tayer, MD&CEO of DEWA and Founder and Chairman of WETEX and Dubai Solar Show, expressed his gratitude to HH Sheikh Hamdan bin Rashid Al Maktoum for inaugurating the virtual exhibition. He said that organising WETEX, despite the challenges of COVID-19, emphasises Dubai's ability to convert challenges into opportunities. It also underlines DEWA's state-of-the-art digital infrastructure, which continues to provide its services according to the highest standards of availability, reliability and efficiency.

Al Tayer said that WETEX and the Dubai Solar Show exhibition is the largest of



its kind in the region and one of the largest specialised exhibitions in the world. The annual event is organised for organisations from the energy, water, environment, oil, gas, green development and related sectors from the region and the world to display their products and learn about the latest technologies and innovations.

The 3D virtual exhibition provided a unique platform for companies to meet with officials and investors from around the world to make deals, establish partnerships, learn about the latest technologies, identify market needs and the most prominent projects in the region, considering the significant expansion in clean and renewable energy in the UAE and the region. The exhibition also enables visitors to benefit from a busy agenda of

specialised seminars from prominent international experts.

DEWA's virtual platform showcased 3D models for some of its projects and initiatives, including the world's tallest solar power tower, reaching 262.44 metres. This is part of the 4th phase of the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world.

DEWA also showcased a model of the 250MW pumped-storage hydroelectric power station in Hatta; its new headquarters named Al-Sheraa, which will be the largest, and smartest net-zero energy building in the world. DEWA's Spot Robots, developed by Boston Dynamics and used in DEWA's internal operations as the first utility in the region to use this robot, is also being displayed at the exhibition.

DEWA's stand also featured some of its employees' innovations, including the Mizrab smart pipe system to identify leakages. The alerts are then sent to a supervisory control and data acquisition (SCADA) system. The Smart Helmet, which is equipped with an augmented reality powered camera to increase the efficiency of power plant engineers, will also be on display.

DEWA provided a virtual business-to-business (B2B) platform to streamline communication between sponsors, exhibitors and interested visitors, for increased exposure and to expand their business, while networking and discovering new opportunities. WETEX & Dubai Solar Show had dedicated platforms for Green Week to raise awareness on rationalising electricity and water and following environmentally-friendly practices.

WETEX & Dubai Solar Show attracted 63,058 visitors, largest number in 22 years



WETEX and Dubai Solar Show attracted 1,076 exhibitors from 52 countries, and 63,058 visitors from around the world.

102 seminars and discussion panels

In collaboration with experts and specialists from leading local and international companies in energy, water, technology, sustainability and the environment, DEWA organised 102 seminars during WETEX and Dubai

Solar Show 2020. Topics covered the digitisation of utilities; smart meters; the Internet of Things (IoT); effective application of AI; future energy systems; energy storage; smart solutions for energy efficiency, sustainability and conservation; building retrofits; water desalination using solar power, electric vehicle technologies and green hydrogen-based transportation, and innovative solutions to rationalise consumption and protect the environment, among others.

WETEX AND DUBAI SOLAR SHOW 2020 HAD 55 LOCAL AND INTERNATIONAL SPONSORS

55 local and international organisations sponsored WETEX and Dubai Solar Show 2020. The Roads and Transport Authority (RTA) in Dubai was the diamond sponsor of WETEX and Dubai Solar Show 2020. Siemens; ACWA Power; ABB; and Hitachi ABB Power Grids were the titanium sponsors. Dubai Media Incorporated (DMI) was the strategic media sponsor. There were 13 strategic sponsors, 6 platinum sponsors, 26 gold sponsors, and 5 key media partners.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, Founder and Chairman of WETEX and Dubai Solar Show, commended the sponsors of the exhibition.

"We consider the sponsors and supporters of WETEX and Dubai Solar Show as our partners who have consolidated the position of this economic and environmental event on the global map of specialised exhibitions. They play a role in accelerating the shift towards a green economy in the UAE and the region," said Al Tayer.

Some of our sponsors responses are republished here in the same future tense as they arrived ahead of WETEX and DSS 2020

هيئة الطرق والمواصلات
ROADS & TRANSPORT AUTHORITY



DIAMOND SPONSOR



"Our participation in WETEX is a perfect opportunity to showcase RTA's initiatives, achievements and plans towards achieving

a sustainable green environment in all operations and services. Such efforts are aligned with the directives of our leadership to measure up to the highest standards in this regard. RTA managed significant savings in the use of energy in 2019. It saved 39.6 gigawatt-hours, 45.2 million gallons of water, 15.5 million litres of gasoline, and 700,000

litres of diesel. In gas emissions, it saved 56.95 tonnes of carbon equivalent. Over the past years, RTA launched 46 energy and green economy initiatives. It also has plans to replace streetlights with LED lights by 2030, in addition to other public transport and environmentally-friendly marine transport projects to transform Dubai into a model smart and sustainable cosmopolitan city," said Nasser Abu Shehab, CEO of Strategy and Corporate Governance at RTA.

"RTA appreciates that the green economy and the use of clean energy are key tools in building a safe and sustainable future for humanity. The UAE in general and Dubai, in particular, are making significant efforts in saving energy in collaboration with the UN Environment Programme and several specialist global agencies," he added.

ITANIUM SPONSORS



"We are pleased to play an active role in this landmark event. Despite Covid-19 and its implications, the government of Dubai, under the leadership

of His Highness Sheikh Mohammed bin Rashid Al Maktoum, continues to progress towards its vision to increase its renewable energy share to 75% by 2050. These advancements have been made possible through comprehensive objectives set forth by Dubai towards achieving the lowest

MAIN STORY

carbon footprint and transforming the Emirate into a global clean energy and green economy hub," said Mohammad Abunayyan, Chairman of ACWA Power.

Abunayyan affirmed that Dubai's commitment concerning clean energy sector has undoubtedly strengthened investor confidence in the Emirate's wise leadership. The various policies established by Dubai government, aimed at mitigating COVID-19 have also induced optimism and confidence in the Emirate's investment attractiveness as a global economy. Abunayyan also highlighted that this year's edition is of particular importance to Dubai's water desalination sector by increasing its reliance on reverse osmosis technology, expanding its deployment and leveraging modern solutions that utilise energy sources to produce desalinated water.

SIEMENS energy



"Siemens Energy is proud to be a key sponsor for DEWA's important and influential WETEX. This event will be the first 3D virtual event in

its 22-year history, and this innovative approach is symbolic of the ambitious and pioneering values of WETEX, DEWA and the UAE. Siemens Energy is honoured to support the country's sustainable development of an agile and versatile energy and power management infrastructure and is proud to be presenting solutions that further support energy transition, sustainability and decarbonisation in the UAE and across the world," said Dietmar Siersdorfer, Managing Director of Siemens Energy in the Middle East and UAE.

HITACHI ABB



"Hitachi ABB Power Grids is committed to sustainable development. We strive to improve the quality of life around the world through

pioneering technologies, and by adding social, environmental and economic values. Digitalisation will be one of the most important enablers that will span the whole value chain, across sustainable energy and

advanced digital technologies, and we embrace the spirit of innovation that helps us serve our customers. We will showcase these capabilities at WETEX 2020, the region's premier event focusing on power, water and environment," said Dr. Mostafa AlGuezeri, Managing Director of Hitachi ABB Power Grids in the UAE, Gulf, Near East and Pakistan. "At WETEX this year, at our pavilion, attendees will be able to experience the benefits from Power Grids' digital value, which is amplified by industry-leading software combined with Hitachi Vantara's cutting-edge Lumada offerings. This includes technologies such as machine learning, big data, hybrid cloud management and cybersecurity," added AlGuezeri.

STRATEGIC MEDIA SPONSOR



"Our strategic media partnership with the 22nd exceptional session of WETEX, comes in fulfilment of the vision of His Highness Sheikh

Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to support and encourage creativity and contribute to various community activities and services. Dubai TV, with its multi TV, radio and digital channels, and within the framework of its vision and strategies to serve society, will cover, through a specialised team, all the activities of WETEX 2020. It is the first carbon-neutral virtual 3D exhibition, which focuses on the water, energy, environment, sustainability and innovation sectors in the MENA region," said Ahmed Saeed Al Mansoori, CEO of Radio and TV Sector at Dubai Media Incorporated (DMI).

Al Mansoori emphasised the role of the media in highlighting and presenting the various activities of the exhibition and its important role in presenting the latest developments and innovative solutions in renewable and traditional energy in various parts of the world, as well as the role of the media in spreading awareness and presenting credible information, in light of the important opportunities provided by this exceptional edition of WETEX to see the latest smart technologies and innovative solutions that

are presented for the first time in the fields of renewable energy, water and sustainability.

STRATEGIC SPONSORS



"WETEX is a leading platform that has, over the past 21 years, brought together industry experts and leading players to showcase cutting edge

technologies and innovation in the power and utility sector. Over the years, WETEX has garnered insights, while shedding light on issues related to water conservation, and sustainable environment," said HE Saif Humaid Al Falasi, Group CEO of ENOC. "We've continued to have a strong presence at WETEX and are excited to take part in this year's exhibition. This year has proven to be particularly challenging for many organisations due to the COVID-19 outbreak. But we are excited to be part of the virtual exhibition and are keen to participate and contribute to yet another successful edition of WETEX. This year, we hope to shed light on some of the initiatives that we've deployed across our operations to enhance energy efficiency and resource management," added Al Falasi.



"Out of our institutional commitments, we once again sponsor this esteemed environmental event in the region. We are

extremely proud to participate in WETEX as this underscores our eagerness to keep pace with the merits of the Fourth Industrial Revolution and support the transition to a green economy and the application of AI and digital technologies," said Ahmad Bin Shafar, CEO of Empower.

"WETEX is regarded as one of the most important platforms for the company. Our participation in the event over the past years has helped us achieve key successes in saving

energy and protecting the environment. We intend to use this event to cast light on our latest ground-breaking solutions in district cooling, highlight the advantages of energy-efficient and eco-friendly district cooling services and stress green buildings concepts," said Bin Shafar.

PLATINUM SPONSORS

دوقاب
Ducab



"Ducab is proud to participate at WETEX and Dubai Solar Show 2020 as a platinum sponsor. This year marks our 12th year in support of WETEX,

which we consider to be an essential annual event for our industry. We laud DEWA's efforts to make this year's event carbon neutral, which aligns with the need for greater sustainability throughout the energy sector. While this year's event will be somewhat different, it remains as relevant as ever to promoting a sustainable future for the energy and utility sector. We aim to leverage WETEX 2020 as a platform to promote the value of sustainable supply chains for the energy sector, as well as the importance of investing in products that align with global safety standards," said Dr. Ahmad Bin Hassan Al Shaikh, Chairman of Ducab.

LARSEN & TOUBRO



"L&T is proud to be associated with WETEX Dubai since 2016, as it brings together important developers from across the globe and

provides a perfect platform to interact and exchange ideas. This year's virtual event held on a fully immersive 3D environment presents us an opportunity to showcase our digital solutions, track record and capabilities in transmission, distribution and renewable energy. We are pleased to reaffirm our commitment towards the UAE region and reinforce ties with our major stakeholders," said T. Madhavadas, Director & Sr. EVP (Utilities) at Larsen & Toubro.

المجلس الأعلى للطاقة
Supreme Council of Energy



"We look forward to our participation in the next cycle, as the first virtual 3D experience in WETEX and aim to study the latest technology in the field

of carbon emission reduction and innovative solutions in sustainability," said HE Ahmad Buti Al Muhairbi, Secretary General of Dubai Supreme Council of Energy.

GOLD SPONSORS

Masdar **مصدر**
A MUBADALA COMPANY **إحدى شركات مبادلة**



"We are proud to support WETEX and are aligned with DEWA's commitment to achieving the Dubai Clean Energy Strategy and

promoting sustainability at the national level," said Mohamed Jameel Al Ramahi, CEO of Masdar. "Since its inception in 2006, Masdar has established itself as a leader in renewable energy and sustainability and has driven innovation in the development and deployment of commercially viable clean energy solutions and technologies. With Masdar today being present in more than 30 countries around the globe, events such as WETEX provide a platform for us to share our knowledge and experience, and highlight the advanced technologies used in the implementation of these world-leading projects."

Itron



"Itron has decades of experience innovating the way utilities and cities manage energy and water around the world, and we are excited to showcase

our solutions at the first-ever carbon neutral 3D virtual WETEX exhibition. Our virtual booth will feature Itron's proven, end-to-end solutions for energy and water, which take advantage of our broad partner ecosystem and have been proven to scale in some of the harshest environments on earth. Recognising the many challenges to integrating renewable energy around the world, we are proud to be a gold sponsor of WETEX, which brings together leaders in the industry to promote a more renewable future. Itron is a long-time partner of DEWA and has successfully helped execute on their smart utility vision with the deployment of a network canopy, smart meters and innovative applications and services," said Andrew Jones, Vice President of sales for Europe, the Middle East and Africa at Itron.



HH Sheikh Hamdan bin Rashid Al Maktoum attends graduation of 35 DEWA staff and 57 students from DEWA Academy

📌 In the presence and under the patronage of HH Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, Minister of Finance, and President of Dubai Electricity and Water Authority (DEWA), DEWA organised a virtual graduation for 35 staff who received Masters degrees in Future Energy Systems & Technology from the University of California, Berkeley (UC Berkeley) in the USA.

The graduation was attended by HE Matar Humaid Al Tayer, Chairman of DEWA, HE Saeed Mohammed Al Tayer, MD and CEO of the DEWA, Dr Tsu-Jae

King, Dean of the College of Engineering at UC Berkeley, Professor Tarek Zohdi, Academic Director of the DEWA Berkeley partnership, DEWA officials, and the graduates' families. During the ceremony, 57 students also graduated from DEWA Academy.

"I welcome you all to this ceremony, which is held remotely, in light of the exceptional conditions of the COVID-19 pandemic, as we continue our efforts to support the education sector and invest in Emirati staff, to achieve the vision of the wise leadership of the UAE. I congratulate DEWA staff who

have received their Masters degrees in Future Energy Systems and Technology. I urge you to continue your efforts and hard work, to further develop your scientific and technical capabilities. I also congratulate the students of Dubai Academy who support our Emiratisation efforts for technical and engineering jobs at DEWA, and wish all graduates every success in serving our nation. I also extend my thanks and appreciation to all those in charge of these academic institutions, which support the technology and creativity of our time," said HH Sheikh Hamdan bin Rashid Al Maktoum.

At the ceremony, Al Tayer extended his thanks and gratitude to His Highness for his patronage of the ceremony.

"We are aligned with the vision of the wise leadership of His Highness Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE; His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai; and His Highness Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces. This vision is to promote Emiratisation and prepare a generation that keeps pace with the government of the future, and have a futuristic mind-set by developing a world-class educational system. We adopt an integrated strategy to invest in young Emiratis and empower Emirati youth and provide them with technical skills according



to the highest international standards in vocational training. At DEWA, we provide our staff with the best scientific and practical skills to keep pace with the Fourth Industrial Revolution. We are committed to developing the careers of our distinguished Emirati employees both academically and professionally. In 2019, we signed a memorandum of understanding with the University of California, Berkeley, which ranks first in Computer Sciences and Electrical Engineering, to benefit from the experience of this prestigious institution in developing technical talent. Today, we see the graduation of the first batch of this programme, which has 35 students from various technical sectors in DEWA," said Al Tayer.

"Today, 57 students graduate from DEWA Academy, which was launched in 2013 in cooperation with the UK's

Business and Technology Education Council. Preparing a generation of young Emiratis that realises the importance of vocational work and the nation's interest in joining a pioneering technical programme, supports the UAE's efforts in the Emiratisation of technical jobs in the energy and water sectors. Since its establishment, DEWA Academy has received 368 students with 169 graduates now working in the Distribution Power, Generation, Transmission Power, and Water & Civil divisions at DEWA. We value the ongoing support of His Highness Sheikh Hamdan bin Rashid Al Maktoum and the continuous guidance by His Highness on DEWA's ambitious initiatives, plans and projects. We promise our wise leadership to continue with our pioneering role to effectively contribute to building and developing the nation and its citizens," added Al Tayer.



MOCD & DEWA promote inclusion & empowerment of people of determination

The Ministry of Community Development (MOCD) and DEWA signed a Memorandum of Understanding (MoU) to support the inclusion and empowerment of people of determination. This is part of the two entities' shared vision to strengthen inclusive employment and enhance the strategic partnership between the two organisations in the inclusion and empowerment of people of determination in society. This is achieved by organising joint programmes, cooperation in sustainable community projects, and providing the best advice and policies and strategic partnerships between federal and local entities to serve the vision of a cohesive and cooperative society. This is in line with the federal government strategy 2021 to achieve decent living and human well-being; and ensure the provision of social services in an innovative, sustainable and high-



promote participation in community initiatives, ensuring the best services for people of determination with different disabilities.

The MoU was signed by HE Hessa Bint Essa Buhumaid, Minister of MOCD, and HE Saeed Mohammed Al Tayar, MD & CEO of DEWA. Officials from both organisations were present. The MoU aims to

to DEWA staff and their families who are people of determination.

HE Hessa Bint Essa Buhumaid said that the MoU between MOCD and DEWA reflects the directives of the wise leadership in the UAE towards promoting government and development. This supports and empowers all segments of society, especially people of determination through cooperation

quality manner, establishing the future of social development, in line with the UAE Centennial 2071 targets.

HE Saeed Mohammed Al Tayar said that signing the MoU with MOCD supports DEWA's strategy to include and empower people of determination, which has four pillars: employees, customers, society, and partners. It is a new strategic achievement for DEWA

in the inclusion and empowerment of people of determination.

According to the articles of the MoU, MOCD will provide DEWA with inclusive employment services and all the technical support to recruit people of determination. This includes providing CVs when requested, train DEWA HR staff on the inclusive employment toolkit, train employees of determination to increase their productivity and inclusion in the work environment, link the recruitment page of people of determination on DEWA's website with the Ministry's online recruitment platform, as well as facilitate further POD acquisition and recruitment.

The Ministry will support DEWA in identifying the actual needs of

people of determination by sharing local policies and laws related to people of determination, as well as updates on the key strategic pillars of the National Policy for empowering People of Determination, information and survey results, local and international best practices, latest specialised studies, practical guidelines as well as the service-provision standards to enhance the quality of services offered by DEWA to people of determination.

DEWA will send an annual report to MOCD, containing achievements of its employees of determination, job happiness surveys for work environments dedicated for these employees, as well as key initiatives and projects that enhance their quality of life at work.

The two parties will also exchange information on the latest technologies, assistive devices and tools that enhance the inclusion of people of determination into the work environment and society. They will also share information on local and international conferences and awards that promote DEWA's participation, in addition to an e-connection between the two sides regarding their services.

In terms of capacity building, the MoU enhances the cooperation of both parties in building the skills and capabilities of staff members on both sides, in any technical field that will improve the quality of services provided for people of determination to enhance their inclusion at work and within society.



DEWA invests AED 86 billion in energy and water over 5 years

- **Private sector is key partner in developing Dubai's renewable and clean energy projects**
- **R&D Centre at Mohammed bin Rashid Al Maktoum Solar Park promotes collaboration between government and academic sectors**

🔍 The Global Renewables Outlook: Energy Transformation 2050 report issued by the International Renewable Energy Agency (IRENA) in April 2020 indicated that the transition to renewables, efficiency and electrification could drive overall socio-economic development, supported by comprehensive policies to cut carbon emissions. The use of Hydrogen and synthetic fuels, direct electrification, advanced biofuels and carbon management will be crucial ways to cut

CO₂ emissions beyond 2050, along with innovative business models, structural changes and behavioural adaptation.

• The post-COVID recovery: An agenda for resilience, development and equality also issued by IRENA showed that every million dollars (USD) invested in renewables would create three times more jobs than in fossil fuels. It also notes that increasing government and private sector spending on renewables will provide 19 million jobs by 2030.

Strategic planning for a sustainable future

Renewable energy is an essential requirement for sustainability and stands at the forefront of the UAE's strategic priorities. The UAE leads in efforts to adopt the latest innovations that address climate change, mitigate the effects of global warming, and plays a significant role in supporting the United Nations Sustainable Development Goals 2030.

The UAE has taken early steps to bid farewell to the last barrel of oil, and achieve a balance between economic development and maintaining a clean, healthy, and safe environment. Today, through its strategies and investments, the UAE is leading global efforts in renewable and clean energy sectors. The UAE Energy Strategy 2050 aims to achieve an energy mix that combines renewable and clean energy sources to balance economic requirements and environmental goals. The UAE will invest AED 600 billion until 2050 to meet the growing energy demand and ensure the sustainable growth of the economy.

Dubai Clean Energy Strategy 2050

Dubai has become an international pioneer in developing a clean and renewable energy sector. It has developed many techniques and practices to enhance the efficiency of the energy sector while rationalising consumption and finding alternative

solutions to conventional energy. This supports the sustainable development of the Emirate. The Dubai Clean Energy Strategy 2050, which was launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, aims to provide 75% of Dubai's power capacity from clean energy by 2050. Meeting the Dubai Clean Energy Strategy 2050 targets requires a capacity of 42,000MW of clean and renewable energy by 2050.

The strategy consists of five main pillars: infrastructure, legislation, funding, building capacities and skills, and having an environment-friendly energy mix. The infrastructure pillar includes initiatives such as the Mohammad bin Rashid Al Maktoum Solar Park, which is the largest single-site solar power project in the world, with a planned capacity of 5,000 megawatts (MW) by 2030. Since its launch, the solar park's projects have seen considerable interest from

international developers, reflecting the confidence of international investors in the projects that are supported by Dubai Government. The capacity of the solar projects at the solar park is 1,103 MW from photovoltaic solar panels. The total capacity of the projects under construction at the solar park is 1,850MW from photovoltaic and Concentrated Solar Power (CSP), with future phases to reach 5,000MW by 2030.

DEWA has attracted considerable investments to the UAE from the private sector and foreign banks, resulting in increased cash flows to the economy of Dubai and the UAE. DEWA has attracted investments around AED 40 billion from the Independent Power Producer (IPP) model, which strengthens public-private partnerships. Through this model, DEWA received the lowest global solar energy prices for five consecutive times, making Dubai a global benchmark for solar energy prices.



MAIN STORY

Strengthening the partnership between the public and private sectors

The UAE's advanced infrastructure, its strategic location, its openness to the world, and the attractive environment for investments and laws that protect the rights of investors, have contributed to its global leadership. This has attracted substantial foreign direct investment and strengthens its position as an essential destination for the largest international organisations and brands, as well as the preferred place to live, work and invest. In implementing solar energy projects of the Mohammed bin Rashid Al Maktoum Solar Park, Dubai has adopted the IPP model, which strengthens the partnership between the public and private sectors. DEWA's investments in the energy and water are estimated at AED 86 billion over five years.

"The Eight Principles of Governance in Dubai show that Dubai's growth is driven by three factors: a credible,



resilient and excellent government; an active, fair and open private sector; and public and government-owned flagship companies that compete globally and move the economy locally. In light of the ambitious vision and the overall development of Dubai, which it translates into major projects and promising opportunities, especially in

energy, water, and the environment; cooperation and integration between the public and private sectors have become the foundation to achieve the Emirate's ambitions. This partnership consolidates its position as a developed model that provides a highly supportive environment for investments. We have strategic partnerships with many international companies, especially in the renewable and clean energy sector and cooperate with international companies in implementing projects of the Mohammed bin Rashid Al Maktoum Solar Park based on the IPP system. We have attracted investments estimated at AED 40 billion through this model, which strengthens the partnership between the public and private sectors. Through this model, DEWA has achieved world records in obtaining the lowest prices for solar energy projects five times in a row. Dubai has become a benchmark for solar energy prices worldwide," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

PARTNERSHIPS



ACWA POWER



ACWA Power participates in several projects of the Mohammed bin Rashid Al Maktoum Solar Park based on the IPP model. Mohammad Abunayyan, Chairman of ACWA Power, said: "Despite the implications of Covid-19, the government of Dubai, under the leadership of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, continues to progress towards the achievement of its vision to increase its renewable energy share to 75% by the year 2050. These advancements have been made possible through the comprehensive objectives and robust efforts set forth by Dubai towards its ambitious strategy of achieving the lowest carbon footprint and transforming the Emirate into a global clean energy and green economy hub."

Abunayyan affirmed that the Dubai Government's commitment and its progressive vision concerning the clean energy sector have undoubtedly strengthened investor confidence in the Emirate's wise leadership. The various policies and procedures established by the Dubai government, aimed at mitigating and addressing the adverse effects of the Covid-19 pandemic, have also ensured optimism and confidence in the Emirate's investment attractiveness.

SIEMENS

Ingenuity for life

SIEMENS

DEWA has an ongoing strategic

partnership with Siemens for over 30 years. They collaborate in a wide range of sectors, mostly technological solutions for power generation. Together, they have pioneered innovative sustainable solutions such as gas turbine power augmentation through wet compression technology, which increases capacity, improves efficiency, and reduces emissions. One of the promising projects that DEWA is implementing with Siemens and Expo 2020 Dubai, is the Green Hydrogen project to produce hydrogen gas using solar power, at the Mohammed bin Rashid Al Maktoum Solar Park.

RESEARCH & DEVELOPMENT

DEWA's R&D Centre at the Mohammed bin Rashid Al Maktoum Solar Park is an ideal example of public-private partnerships. The Centre collaborates with several academic institutions, such as Stanford University; UAE University; Khalifa University of Science Technology; Sharjah University and Amity University to develop joint research in renewable and alternative energy.

The R&D Centre highlights four major operational areas: electricity generation from solar and clean energy, integration of smart grids, energy efficiency, and water. Its internal labs study and test system reliability, and it carries out external field testing of new technologies and equipment, including the performance and reliability of solar PV panels and removing dust.

It is the only Centre in the UAE that focuses on renewable energy, smart grid technologies, and energy efficiency. It includes the most extensive testing facilities in the UAE for PV and issuing compliance certificates. The Centre conducts multiple and strenuous tests for PV panels in desert climate conditions. The Centre consists of 40 researchers, including 20 PhD and master's degree holders comprising 54% of the team. The team has published over 50 research papers in international conferences and scientific magazines.

Stanford University

STANFORD UNIVERSITY

DEWA collaborates with the US-based Stanford University in several areas of R&D, through the R&D Centre's team and DEWA's membership in Stanford's 'Energy 3.0' programme. These areas include Radiative Cooling to improve the efficiency and performance of solar panels, the use of autonomous robots in the control and maintenance of solar power plants, and the use of Artificial Intelligence (AI) to anticipate the performance and production of solar PV plants in the short term.

Joining the Energy 3.0 Programme provides DEWA's researchers with a significant opportunity to take advantage of the global expertise at Stanford University by ensuring they have access to best practices in electricity, water, AI, and smart networks. The programme also includes R&D in the fields of renewable energy, smart networks, energy efficiency and storage, and data analysis, among others.

"Collaboration with companies that have a long-term strategic outlook enables Stanford to create technologies, policies and business models that we expect to be deployed in the coming years and decades. We expect to continue and expand our engagements with DEWA to develop impactful research as we all try to help create this next era in energy," said Jimmy Kuo-Wei Chen, Managing Director of Stanford University Companies.

"DEWA joined the Stanford Energy 3.0 affiliate program in 2019 to support cutting edge energy research at Stanford in three areas of interest to DEWA. These include vital areas of DEWA's work, which are passive radiative cooling to improve solar cell efficiency, real-time solar energy forecasting and Haptic Robotics. The research results have been promising, and DEWA is now considering establishing one or more sponsored research projects in these areas," added Chen.



UAE UNIVERSITY



DEWA signed an MoU with United Arab Emirates University (UAE University). The MoU worth over AED 15 million, outlines the framework to research dust mitigation on solar panels. As per the MoU, UAE University is committed to conducting research, analytical studies, and internal and external tests, in cooperation with the R&D Centre.

"The partnership also includes hosting DEWA's 'Researcher' initiative at the Emirates Centre for Energy and Environment Research (ECEER). The ECEER provides logistical support to the initiative's team for sharing knowledge and benefiting from the available resources and facilities. In its initial stages, it has already developed a support mechanism to graduation projects of the College of Engineering. Two energy projects are currently being evaluated," said Dr. Abdulrahman Alraeesi, Assistant Professor of Chemical Engineering, UAE University.

"The academic-business partnerships align with the UAE's direction and strategic priorities. This partnership remains, as it is the main driving force of both sectors' success. The business sector needs strong and sustainable support from UAE nationals and residents to ensure stability and development. It has become necessary to focus on energy and water and enhance partnerships in those areas, especially with the tremendous development in the UAE in all areas, as well as the steady increase in population. This supports research and innovation in renewable and conventional energy. It also increases the efficiency of water desalination and diversifying water resources," added Alraeesi.



KHALIFA UNIVERSITY OF SCIENCE AND TECHNOLOGY



"As a top-ranked research-intensive academic institution focusing on the UAE's strategic economic sectors, Khalifa University of Science and Technology is currently partnering with DEWA on water desalination, sharing our expertise in this critical area. We are also exploring future collaborations in solar energy, advanced materials and Industry 4.0 as part of our endeavour to reach out to vital economic areas such as utilities, which form the backdrop for building future smart cities. Such industry-academia partnerships lay the foundations for an effective knowledge-based economy in which each sector contributes to the other in a symbiotic relationship, expanding the benefits the communities will eventually obtain," said Dr. Arif Sultan Al Hammadi, Executive Vice President at the Khalifa University of Science and Technology.



**جامعة الشارقة
UNIVERSITY OF SHARJAH**

SHARJAH UNIVERSITY



"We are facing several challenges related to water, energy and food security. However, the strong research in academic institutions and the directions of industrial sectors, qualify the UAE to face those challenges. Our partnership with DEWA enables us to find several solutions for future challenges. DEWA is also a prestigious destination for fresh graduates. We hope to continue collaborating with DEWA's R&D Centre in several areas. These include the 'Researcher' programme and other research by the faculty staff, and organising panel discussions, seminars, and meetings of the Advisory Committee Programme," said Dr. Abdul Hai Al-Alami Associate Chairman of Sustainable Renewable Energy, Sharjah University.



AMITY UNIVERSITY DUBAI



DEWA and Amity University collaborate to conduct academic and applied research to develop the renewable and alternative energy sector. Amity University provides support and training for DEWA's students through scientific programmes with the supervision of both parties. This is aligned to DEWA's strategy to build the capacity of its Emirati workforce to the highest standards, and empower them with the needed skills and experience to lead the future of energy, water, and sustainable development for Dubai. "Research and development are essential to improving our technical capabilities and creating processes, products and services that are innovative and impactful. As we work toward preparing for the next 50 years, investing in R&D and implementing new ideas has become more important for businesses. DEWA's R&D Centre will play a crucial role in developing energy-efficient and sustainable solutions that can be integrated into the daily lives of Dubai's residents. We are certain that the initiative will also bring research to the forefront for businesses across the UAE and inspire university and school students to get more involved," said Dr. Vajahat Hussain, CEO of Amity Education.

On World Energy Day, Dubai reaffirms its commitment to increasing its share of renewable energy to achieve a balance between development and environment

World Energy Day is observed globally on 22 October every year. It was approved by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, along with 54 countries and representatives from the UN, the Arab League, and the African Union through the Dubai Declaration in 2012. World Energy Day underlines the necessity of taking serious and constructive steps in protecting the environment and supports the shift towards renewable energy around the world.



HH SHEIKH AHMED BIN SAEED AL MAKTOUM

Chairman of the Dubai Supreme Council of Energy

"The UAE, under the leadership of His Highness Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE; His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and His Highness Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces, attaches great importance to diversifying the energy mix. This is based on a vision that realises the importance of renewable energy in achieving a balance between development and the environment to protect the rights of future generations to live in a clean, healthy, and safe environment," said HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy.

"World Energy Day highlights the importance of increasing the efficiency

of energy production and using it sustainably. It prioritises developing national energy policies that support sustainable development to overcome current and future challenges facing the energy sector. It also supports policies for implementing and developing mechanisms and frameworks for the exchange of experiences among all countries, as well as the acceleration towards renewable energy, and encouraging its responsible and rational use to protect the environment, reduce carbon emissions and preserve our precious natural resources," added HH Sheikh Ahmed bin Saeed Al Maktoum.



HE SUHAIL MOHAMED FARAJ AL MAZROUEI,

Minister of Energy and Infrastructure

"The UAE places a great emphasis on diversifying its energy sources as a safe way to balance sustainable development and conservation of the environment. Our long-term approach to plan the future of our energy sector was derived from a forward-looking vision based on the importance of renewable energy

in achieving sustainable development through projects and initiatives launched to support the UAE National Energy Strategy 2050," said HE Suhail Mohamed Faraj Al Mazrouei, Minister of Energy and Infrastructure.

"The UAE spared no effort in diversifying its clean energy resources, with the launch of the UAE national Energy Strategy 2050, which aims to generate 50% of the UAE's energy needs through clean energy sources. The UAE Peaceful Nuclear Energy Programme will greatly contribute to achieve this goal and reduce the UAE's carbon footprint," added Al Mazrouei.



HE SAEED MOHAMMED AL TAYER

Vice Chairman of the Dubai Supreme Council of Energy, and MD & CEO of DEWA

"Thanks to the vision and directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to enhance the transformation towards a sustainable green economy, Dubai has made significant achievements in reducing

MAIN STORY

carbon emissions. More than 14 million tonnes of emissions were reduced in 2019, a 22% reduction compared to business as usual. Results achieved exceeded the target set in the Dubai Carbon Abatement Strategy, which aims to reduce carbon emissions by 16% by 2021. The Demand Side Management programmes in Dubai contributed to reducing per capita annual consumption of water by 19.5%, and per capita annual consumption of electricity decreased by 19% in 2019 compared to 2010," said HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy, and MD & CEO of DEWA.



HE AHMED AL MUHAIRBI,

Secretary General of the Dubai Supreme Council of Energy

"World Energy Day aims to support policies that improve energy efficiency in various vital sectors, as well as enhance sustainability and increase energy efficiency within the framework of urban and regional planning. This day is an opportunity to remember the importance of energy in our lives and its impact on all aspects of our economic, social and environmental development, and to emphasise concerted efforts between organisations and society to work closely to protect our environment, rationalise energy consumption and reduce carbon emissions; to preserve our natural resources and ensure their sustainability," said HE Ahmed Al Muhairbi, Secretary General of the Dubai Supreme Council of Energy.

DEWA launches online campaign for World Energy Day



DEWA has launched an online campaign for World Energy Day, which is observed on 22 October every year. This is part of its continuous efforts to engage the public in achieving sustainable development and raise awareness on the importance of energy conservation, increasing energy efficiency and supporting energy sustainability. World Energy Day is an initiative adopted by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai; along with 54 countries, representatives from the UN, the Arab League, and the African Union through the Dubai Declaration on 22 October 2012.

On its website DEWA provides a World Energy Day tool-kit, that can be easily shared across social media. The public is encouraged to share the hashtag #WorldEnergyDay to encourage their friends and families to conserve energy and water for a responsible and sustainable lifestyle. Community members are also urged to take part in the Green Pledge on the World Energy Day section on DEWA's website. The Green Pledge encourages participants to make a personal commitment towards the environment, by adopting conservation practices at home, with a focus on waste reduction. DEWA believes in the importance of individuals committing to change, that will create a positive impact

on all members of society, contributing to building a sustainable future for generations to come.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, highlighted DEWA's commitment to supporting sustainable development in Dubai, by launching outstanding projects and initiatives that support the Dubai Clean Energy Strategy 2050. The strategy was launched by HH Sheikh Mohammed bin Rashid Al Maktoum to make Dubai a global hub for clean energy and green economy by providing 75% of Dubai's total power capacity from clean energy sources by 2050; to ensure that Dubai has the lowest carbon footprint globally.

Suqia UAE upscales the Mohammed bin Rashid Al Maktoum Global Water Awards and adds a new category

▶ The UAE Water Foundation (Suqia), under the Mohammed bin Rashid Al Maktoum Global Initiatives, has announced upscaling the 3rd Mohammed bin Rashid Global Water Awards to include new technologies to produce, distribute, store, monitor, desalinate and purify water using renewable energy. The award was launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. Suqia added the Innovative Crisis Solutions Award to the three existing categories: Innovative Projects Award, Innovative Individual Award, and Innovative Research and Development Award. This encourages a larger number of research institutions and individuals to participate in the Award which has a total prize of USD 1 million. It aims to find sustainable and innovative solutions for water scarcity.

The Innovative Crisis Solutions Award is worth USD 20,000. Suqia allocated this award for small enterprises, research institutions and NGOs. The award encourages innovative projects or systems that offer emergency relief by providing clean and safe drinking water in communities that have been affected by internationally declared crises, such as natural disasters or catastrophic events. The project should have the ability to be sent and deployed within 48 hours to the affected areas.

HE Saeed Mohammed Al Tayar, Chairman of the Board of Trustees at Suqia UAE, said that upscaling the award is a result of the unlimited support by HH Sheikh Mohammed bin Rashid Al Maktoum, and Suqia's commitment to achieve His Highness' vision to provide drinking water for people in need, especially the afflicted and underprivileged around the world; regardless of religion, ethnicity, culture, or nationality. The new step enhances the award's significant success.



The first and second cycles of the award witnessed a large turnout from research organisations, individuals and innovators from around the world. The 20 global winners were also recognised for their performance and innovative ideas. This highlights the award's global position and consolidates the UAE's role as a platform that encourages innovation, a destination for innovators and an incubator for creative minds from around the world. The award also supports Suqia UAE's efforts, which over the past five years, has helped more than 13 million individuals from 36 countries around the world and has implemented more than 1,000 sustainable water projects globally.

Al Tayar said that registration for the 3rd Mohammed bin Rashid Al Maktoum Global Water Awards is now open. He noted that the Innovative Crisis Solutions Award focuses on projects that can be deployed in an emergency

and proven to have aided at least 1,000 people in need of fresh water during the initial and critical phases of humanitarian assistance. In this category, the applicant need not demonstrate the use of renewable energy, but it is preferable.

Mohammed Abdulkareem Al Shamsi, Acting Executive Director of Suqia, said that the award used to focus on solar energy projects, but now includes projects that use renewable energy that covers solar, wind, biomass, ocean, gradient salinity and geothermal, though it excludes nuclear energy, carbon capture and storage systems.

All companies, research centres, institutions, innovators and youth from all over the world who have innovative technologies for water scarcity solutions, can submit their applications, starting from 16 November 2020 and until April 2021, through the website <https://www.suqia.ae/en/awards>

DEWA's International Excellence Forum discusses best practices in crisis management



DEWA organised an international excellence forum bringing together prominent experts and specialists in energy, water, and human resources. This is part of DEWA's strategy to promote excellence among its staff and employees of other government organisations and stakeholders. Many officials from the UAE and abroad took part in the forum.

DEWA's International Excellence Forum, which was held virtually under the theme 'Operational Excellence and Crisis Management – Post COVID-19 and lessons learnt' discussed three main topics: Role of Business Agility, Business Continuity & Organisational Resilience in Disruptive Times and the New Norm; Water Efficiency & Water Network Management – Best Practices in Water Loss Reduction and Control; and Human Capital Management Before & After COVID-19.

In his opening speech, HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, said that DEWA is organising

this forum virtually due to the circumstances imposed by Covid-19. He emphasised that the UAE has proved that it is capable of keeping pace with rapid developments and dealing with all circumstances efficiently and competently.

"His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, said, "Challenges and obstacles are not the end of the road, but a pathway to new and creative solutions." At DEWA, we are guided by the vision and directives of the wise leadership in all our initiatives and programmes. We have proven our resilience and agility in handling different circumstances and developments, and succeeded in turning challenges into opportunities as a result of robust strategic planning, which is a key component of DEWA's Integrated Management System. Thanks to its human resources and robust infrastructure, DEWA has ensured business continuity to

provide continuous electricity and water services to more than a million customers in Dubai, according to the highest international levels. DEWA has developed a comprehensive strategy to combat all stages of the pandemic, by making use of the lessons learnt to reformulate the traditional concepts of work mechanisms and rearrange priorities, especially with regards to the safety of our people," said Al Tayer.

The list of speakers included: Carmine Marcello CEO of Hetherington Kearney Group; Emanuel Da Rosa, Vice President of EWPB; Rob Quail, Principal at Robert Quail Consulting; Dr. Jarrah Mahmood Al Zu'bi, Sr. Manager- Excellence DEWA; Bambos Charalambous, Director at Hydrocontrol; Stuart Hamilton, MD of Hydrotec; Roland Liemberger, Advisor at NRW Management Advisor; Lynn Doleman, Founder & MD of ROC Human Resources; Tanya Bateman, Head of HR & Business Partner at Kantar; and Thanj Kuganathan- Founder & Consultant at Visible HR Consultancy.



DEWA supports the UN SDGs to prepare the next generation of sustainability leaders

▶ DEWA continues its support for the 17 UN Sustainable Development Goals (SDGs) 2030 despite COVID-19; and has turned such challenges into opportunities to carry on its development projects that adopt the triple bottom line of sustainable development. This achieves its vision to become a globally leading sustainable innovative corporation and maintains the health and safety of all society members.

DEWA's state-of-the-art digital infrastructure supports its sincere efforts to enhance the education sector in the UAE and Dubai in particular. It also prepares the next generation of leaders and experts who will implement the ambitious national strategies and plans to achieve sustainable development.

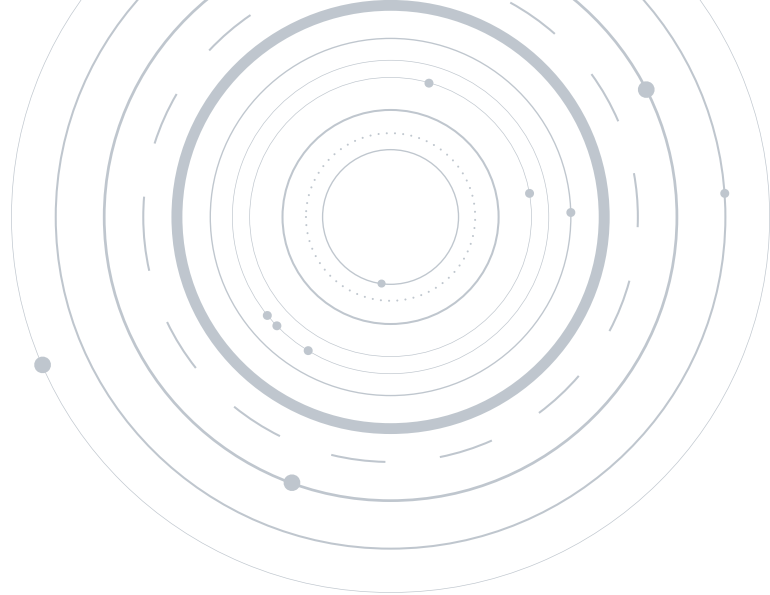
HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, noted that DEWA strives to achieve the wise leadership's vision to build a more sustainable environment and find long-term solutions to challenges. This is in accordance with the UN SDGs. As members of the United Nations Global Compact (UNGC), DEWA supports the UN's role in sustainable progress and the SDGs by aligning its work plans, initiatives, programmes

and projects. During this period, there is an urgent need to mobilise global efforts to contain the repercussions of the pandemic, enhance efforts to overcome poverty and inequality; as well as address climate change and develop strategic and vital sectors. DEWA collaborates with the Ministry of Education (MoE), the Knowledge and Human Development Authority (KHDA) along with other public, private, and national organisations that have a vision for sustainable development. This qualifies tomorrow's leaders to become the cornerstone of sustainable development.

Around 190 DEWA Academy students, enrolled in the batch of 2020-2021, continue distance learning efficiently using the best vocational education programmes with the help of 25 instructors and engineers, in addition to the administrative staff. The Academy uses the latest solutions for smart and interactive learning, including LMS and Teams from Microsoft and Cisco Webex, which are linked to the UAE Ministry of Education's distance learning applications, and in collaboration with Pearson BTECH UK.

Two plans were developed for the academic year including full-time for all students; and hybrid learning for a mix of direct and distance learning. Students were divided into study groups of 15 to 20 students and the Academy's building, classrooms and workshops were redesigned for social distancing rules, as well as the precautionary, health and safety measures.

DEWA's R&D Centre continues its significant contributions to build and localise knowledge and experience in different work areas. These include solar power generation and clean energy technologies; smart grids integration; energy efficiency; water; and Fourth Industrial Revolution applications in R&D. The centre employs 40 male and female researchers including 20 master degree holders, who have published more than 40 research papers in international conferences and scientific journals. Emiratisation has reached 70%. A patent has been granted, and five others are underway. The centre launched the Al Baheth programme to promote and enhance R&D and develop professional staff to attract Emirati graduates. DEWA also signed agreements with several universities, research centres, local and global companies to establish its R&D infrastructure.



MOHAMMAD ABDULLAH ABUNAYYAN

Chairman of ACWA Power

THE PARTNERSHIP BETWEEN DEWA AND ACWA POWER IS AN IDEAL MODEL FOR SUCCESSFUL PARTNERSHIPS BETWEEN THE PUBLIC AND PRIVATE SECTOR

1. ACWA Power participated in WETEX and DSS 2020 as the platinum sponsor. How was your participation in the virtual exhibition?

As with every Water, Energy, Technology, and Environment Exhibition (WETEX), we are pleased to play a strategic and effective role in one of the largest, most important and prominent exhibitions in water, environment, and energy, organised by Dubai Electricity and Water Authority (DEWA). It has always been one of the most important events for ACWA Power for providing various experiences and knowledge.

This year's exhibition was different than before. It coincided with harsh economic conditions around the globe due to the COVID-19 outbreak. This proved the importance of placing innovation as a top priority and a key incentive for the economic recovery

post COVID-19. WETEX is an ideal platform that brings together ideas for concerned organisations, governments and companies, who all aspire to explore and share visions on smart technologies, innovative solutions for power generation. This ensures a prosperous future based on collaboration.

ACWA Power highlighted this year, through a virtual 3D platform, its projects which have achieved global records and played a pivotal role in reducing the global renewable energy tariff. This enabled it to lead the global energy transformation journey.

The interactive elements and innovative technologies used at the exhibition provided a unique experience for visitors, and exhibitors from around the world to learn, participate and communicate with companies and

pioneering organisations in this area. The exhibition attracted more than 63,000 visitors, which proved its success.

2. DEWA collaborates with ACWA Power in projects at the Mohammed bin Rashid Al Maktoum Solar Park. How do you see this collaboration?

At ACWA Power, we are proud of our deep and strategic partnership with DEWA, which was built to improve and develop vital projects that support sustainable development in the UAE and enhance Dubai's position as a global hub for green economy. These projects also support the ambitious Dubai Clean Energy Strategy 2050 which aims to provide 75% of Dubai's total power capacity from clean energy sources by 2050. The partnership between DEWA and ACWA Power is an ideal model for successful partnerships between the

public and private sector, which aims to provide effective and reliable energy with a low cost.

We work together in three phases of the Dubai Electricity and Water Authority (DEWA) the Mohammed bin Rashid Al Maktoum Solar Park's five phases: the second Shuaa Energy 1; the fourth Noor Energy 1; and the fifth Shuaa energy 3. This enhances our role as developers for the shift to clean energy and a main contributor to the UAE's social and economic development.

3. What new technologies do you use at the fifth phase of the Solar Park?

The 900MW fifth phase of the Solar Park using photovoltaic panels has been awarded to the consortium led by ACWA Power for 1.6953 cents/kilowatt-hour. This is a new global benchmark for solar energy. The project will use the latest type of two-faced photovoltaic solar panels, which capture sunlight on both sides of the panel and produce energy with an advanced solar tracking system (single axis tracking) to increase generation efficiency. The new technology used for developing the

project will increase energy production capacity of the Solar Park to 2,863 MW. The fifth phase is expected to supply 270,000 homes with clean energy and remove up to 1.18 million tonnes of emissions annually.

The progress of the fifth phase despite the pandemic enhances DEWA's commitment to meet energy demands in Dubai while increasing the share of renewable energy. This also enhances the trust of global financial markets in DEWA and ACWA Power's capabilities to complete the project successfully and ensure providing renewable energy for 25 years, which is the contract's duration.

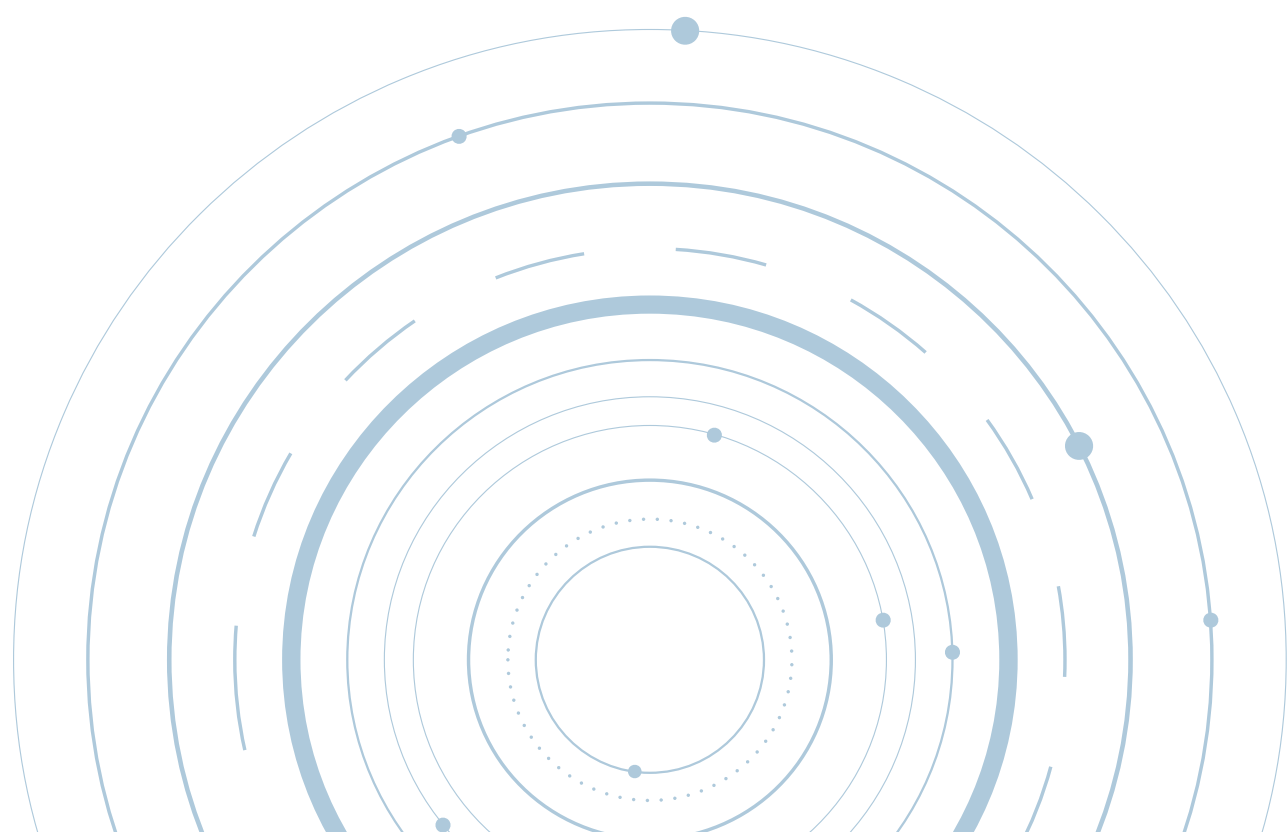
4. Saudi Arabia is one of the pioneering countries in investing in renewable and clean energy. How do you currently see the growth of this sector in the country?

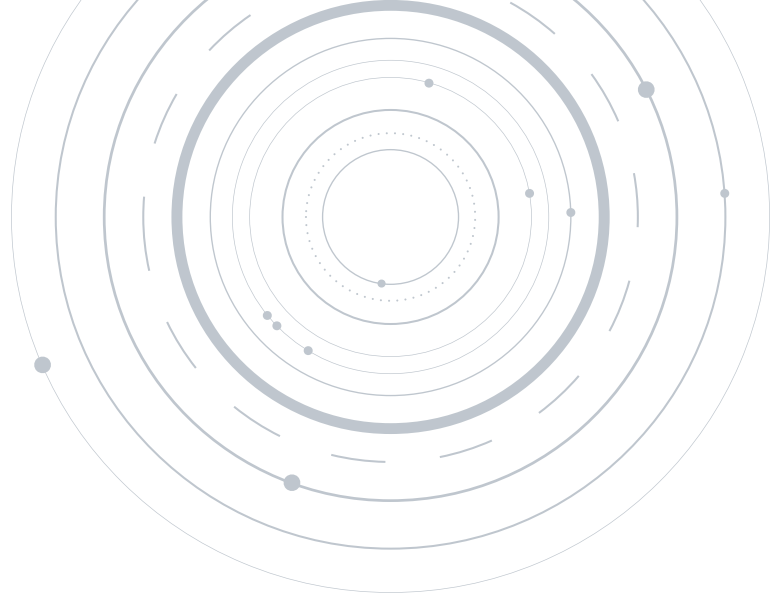
The regulatory infrastructure and policy of renewables indicate the importance of energy transformation in Saudi Arabia. Earlier this year, the country has launched the third phase of its clean energy programme. This

programme aims to add 1.2 GW of solar photovoltaic energy to the grid. This is in line with the comprehensive the Kingdom's strategy related to renewable energy which aims to add 58.7 GW of clean energy to the grid by 2030. Saudi Arabia is also outlining a legal and regulatory framework for public and private partnerships to utilise power purchase agreements that encourage using the latest technologies for wide-scale new projects.

As a developer and operator for energy assets, ACWA Power is committed to supporting the Saudi Government in this ambitious vision for clean energy. We have made a significant achievement by completing the first independent solar power project in the Kingdom (The 300 MW Sakaka photovoltaic solar project), which currently supplies the grid with renewable energy.

As one of the first projects of the National Renewable Energy Programme in Saudi Arabia, the project paved the way for this promising sector. We will continue our commitment to support the programme, achieve its aspirations and goals in Saudi Arabia.





DIETMAR SIERSDORFER

CEO, Siemens Middle East & CEO of
Siemens LLC UAE

THE STRATEGIC PARTNERSHIP BETWEEN SIEMENS AND DEWA HIGHLIGHTS THE ROLE OF INNOVATION AND TECHNOLOGY TO SUPPORT SOCIETY AND ECONOMIC GROWTH IN THE UAE

1. Siemens is a Titanium Sponsor of the WETEX & Dubai Solar Show 2020. Can you tell us about your participation in the virtual edition of the show?

Siemens is a long-time supporter and sponsor of WETEX. In fact, we have attended and participated in every edition of WETEX over the past 22 years.

But this year has been a particularly important and noteworthy WETEX for us, as it marks the first one that Siemens Energy has attended as an independent company, since our spin-off from Siemens in September. Just as Siemens Energy has evolved, to adapt to the global trends, so has WETEX. We were especially excited to participate in this

year's innovative and ground-breaking event, which was entirely virtual.

I was honoured to present the first seminar of the event, to talk about the Energy Transition across the Middle East, an important topic to me, to Siemens Energy and to the region. My colleagues also presented a variety of different topics relevant to the energy industry in the region, starting from a session on the importance of decarbonisation and how we can bring the simplicity of a single power plant to a hybrid system, to digitalising power transformers, to optimising power plant performance by leveraging data.

This year we also had a 3D virtual stand, which was an innovative concept, and despite being a completely digital event,

it provided important engagement between the visitors interested in our products and services and our Siemens Energy representatives. We were impressed by the meticulous organisation of the virtual event and all the support we received from DEWA's team in the preparation phase as well as during the event.

2. There have been almost 30 years of a strategic partnership between DEWA and Siemens across multiple sectors. What would you consider the highlights of this partnership?

We are incredibly proud of our long and fruitful partnership with DEWA. In the almost 30 years that our companies have collaborated, there have been many milestones. Each one has been

highly rewarding, and each one bringing us closer together.

Siemens Energy's technologies currently contribute to around 65% of DEWA's total generation capacity, enough power for more than 2.5 million residents in Dubai.

Highlighting this strong collaboration, Siemens Energy recently completed the 400 kilovolt (kV) Janoub substation in Dubai, which will reinforce the city's power grid and feed newly developed areas, including Dubai World Central (DWC) and Dubai's Expo site, with electricity. This substation is the first of five stations, awarded by DEWA in 2018, to be energised. The project is part of DEWA's strategy to increase the efficiency of electricity services and enhance the reliability of its infrastructure.

This level of partnership is rare, but it is also an asset and will be very important, especially in the future as we continue the decarbonisation journey. Some more stand-out moments for me, in our partnership with DEWA, include the

expansion of the M-Station power and desalination plant in Jebel Ali, which is a testament to what we can achieve with innovation and technology to support society and economic growth in the UAE.

I'm also proud of the development of the simulator and training centre at the Jebel Ali Power Plant and Desalination Complex, which is giving the next Emirati generation the capabilities to be leaders in the power and water sectors.

More recently, it is worth noting the successful collaboration between the two companies in the development of the world's first thermodynamic intelligent controller for turbines at the Jebel Ali Power Plant, using AI and digital twin technologies. We have ensured more efficient combustion with significantly lower emissions whilst using the latest innovative technologies.

But I think that among all the highlights, our partnership in the Green Hydrogen project stands above the rest. It epitomises the vision of the UAE as an innovative and forward-looking nation and stands as a shining beacon

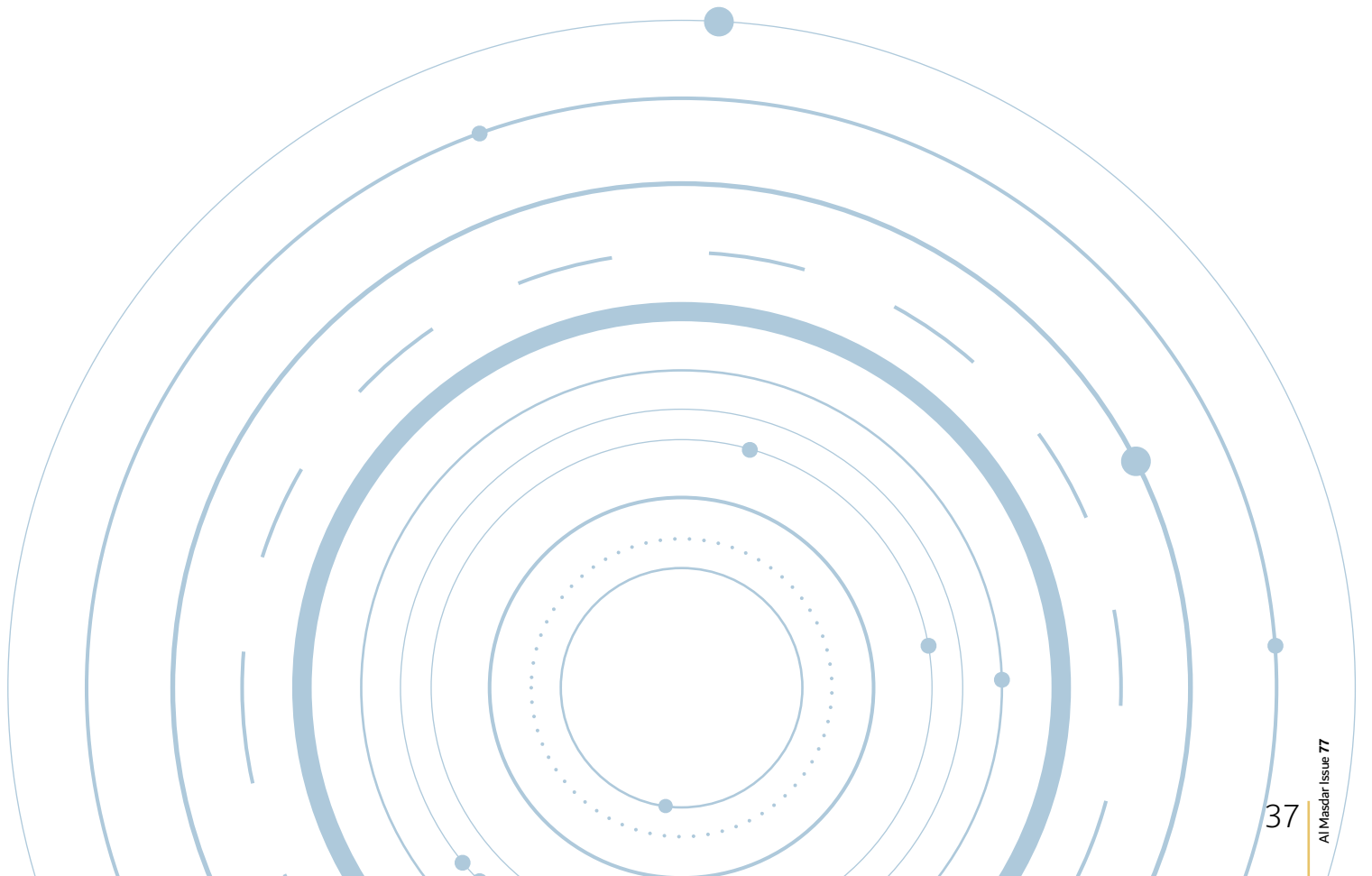
to highlight what can be accomplished when partnership and ambition converge to benefit society.

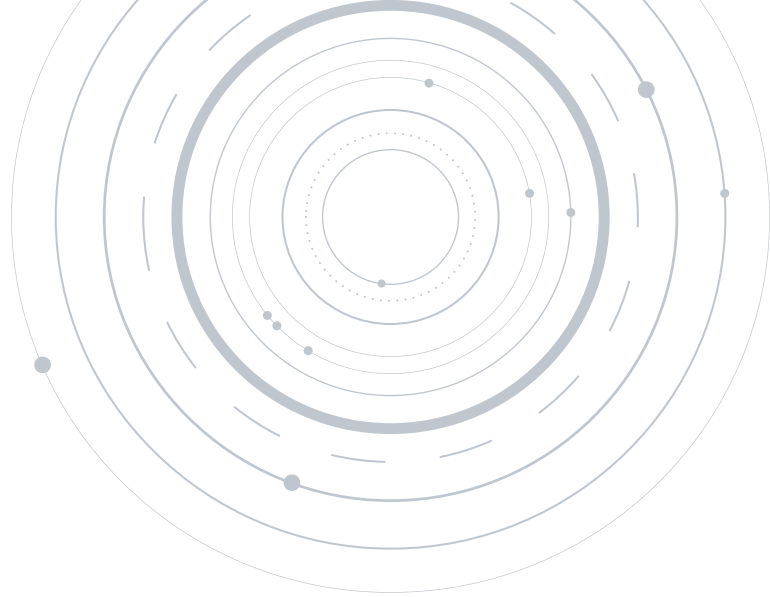
3. What are the latest developments in the Green Hydrogen project, being implemented by DEWA, in collaboration with Expo 2020 Dubai and Siemens?

The Green Hydrogen project, which DEWA is implementing in partnership with Expo 2020 Dubai and Siemens Energy, will see the development of the region's first solar-driven hydrogen electrolysis facility at Mohammed bin Rashid Al Maktoum Solar Park in Dubai.

This megawatt-scale pilot project will showcase the innovative technology and serve as a testbed, to demonstrate how hydrogen can be used in a variety of industries and applications in how such an ecosystem will develop.

We are currently in the final stages of the setup and commissioning of the facility and will soon be in a position to announce the inauguration of this landmark venture.





MR. READ BARQAWI

Al Khaleej Newspaper

THE COLLABORATION BETWEEN AL KHALEEJ NEWSPAPER AND DEWA IS SUBSTANTIAL AND REPRESENTS A MODEL FOR INTEGRATION BETWEEN ORGANISATIONS

1. Different sectors in the UAE and around the world have been affected by the outbreak of the novel coronavirus (COVID-19). What is the impact on media and communication?

There are two sides to every impact. When we're talking about the effect of coronavirus on media and communication, we will find something positive, which is enhancing the role of conventional media. It looks like we needed a huge crisis to revive the responsible media practices that support the state's and society's interest. The existence of conventional media was at risk.

In this crisis, the recipient now believes that the media message which benefits the people is what truly matters and lasts and not the messages that try to make a profit out of people's suffering and create fake publicity.

The recipient now is back to trusted sources of information, even when browsing online news, they select the pages of trusted outlets, which the government also uses for sending its messages.

The negative impact of coronavirus, as for many sectors, is mainly economic. There is a drop in the number of advertisements. However, this has not prevented media outlets from being at the frontline of covering the pandemic.

2. Media professionals, along with medical staff, were at the frontline of fighting the COVID-19. To what extent has the media achieved its desired role?

We all agree that social awareness during this crisis mainly depends on the media. Media professionals have been among the society's heroes, and

deserve official and public recognition. We cannot picture the coronavirus crisis without media presence. In my opinion, it has proved the media's competence in achieving its desired role as an effective communication channel between the official bodies and society.

The media role is becoming increasingly important in this crisis amid the spread of rumours and misinformation, as it has debunked them instantly.

3. One of the most important roles of media is raising social awareness on the pandemic, that has killed thousands of people around the world. Were the awareness campaigns you launched met with the desired publicity among society segments?

Part of the UAE's success in dealing with the coronavirus was continuous awareness. Media outlets have initiated

campaigns or covered campaigns by other entities to manage the crisis and counter it. Despite the important content related to the coronavirus, the audience is keeping pace with all its updates and has a significant response. This is undoubtedly because it directly affects their lives. The awareness campaigns success is part of the audience's trust in media outlets and its professionals.

4. Different public and private organisations have provided smart channels for their services. The media had an important role in promoting the use of those services. Do you think this contributes to customer happiness?

We cannot deny that smart channels have effectively and swiftly filled a gap with the emergence of precautionary and preventative measures in the UAE. They made up for the absence of most public and private government organisations, especially those concerned with the daily needs of people. Thanks to those channels, people's lives are not interrupted, including e-learning and remote working.

This success was part of the UAE's hard work and investment in an advanced digital infrastructure. Some people used to think it's a luxury, but with the current situation, it is now clear that it was the right investment.

I would like here to praise DEWA's world-class digital infrastructure that enables customers to use digital channels to complete their transactions efficiently anytime, anywhere. All DEWA's services are available on various digital channels, including its smart app and website. This ensures the safety and health of all community members, as customers do not need to visit DEWA's centres.

5. As part of its social responsibility, DEWA organised several conservation programmes and initiatives and achieved outstanding results. What is the role of media in covering these efforts?

The media has always been present in covering stories that benefit society. The collaboration between Al Khaleej newspaper and DEWA is substantial and represents a model for the integration between organisations. All of DEWA's messages reach the audience in different ways throughout the year. The media supports the vision and strategy of DEWA amid global developments and the growing interest in clean and renewable energy. We support DEWA's commitment to the Smart Dubai initiative and keeping pace with the Fourth Industrial Revolution. DEWA also promotes sustainability, proper environmental practices and the importance of protecting natural resources. This is through introducing the responsible and sustainable use of

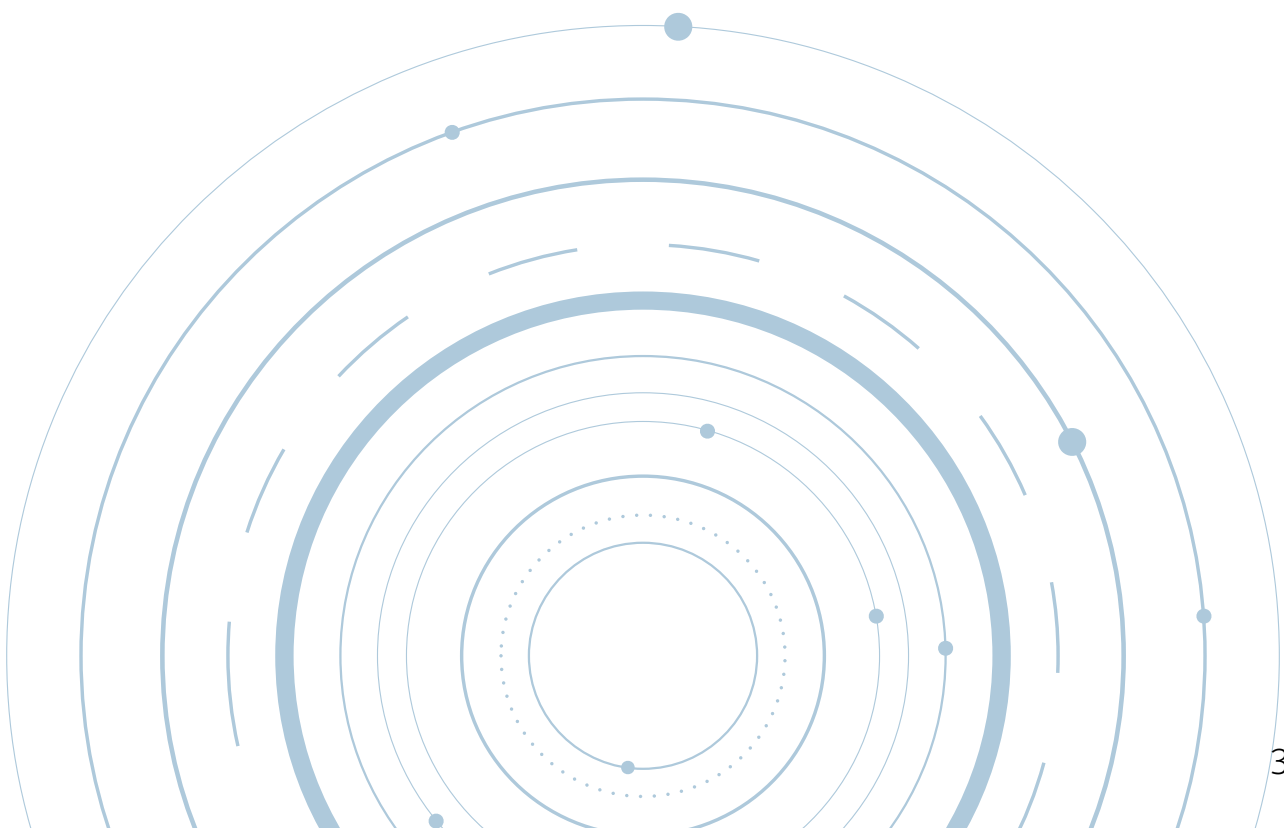
resources as well as raising awareness on environmentally-friendly practices to make conservation an essential part of our daily lives.

6. The media has always been a reliable partner in achieving economic, social and environmentally sustainable development. What are your efforts in this area?

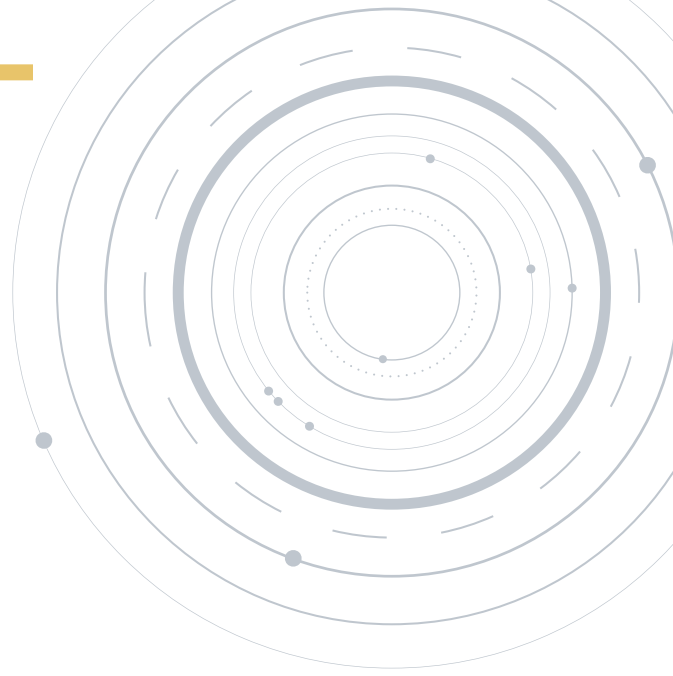
Sustainable development is the main direction in the UAE that includes many plans and futuristic visions. Al Khaleej spares no effort in covering this area, whether using governmental sources or specialists and studies. Al Khaleej is full of stories that reflect the continuous effort of sustainable development in the economy. Other sections of the paper build on this effort by enhancing social and environmentally sustainable practices.

7. The media is an essential outlet for many organisations, especially the economy. How do you support them and cover their strong messages?

Business and media organisations realise the importance of collaborating to deliver their messages which reflect the UAE's directions and efforts in the economy. Our paper has been a model for supporting economic organisations for decades, by anticipating the future and promoting its plans for the audience.



THIS ISSUE'S INSPIRATION



ENG. ABDULLAH OBAIDULLAH

Executive Vice President of Water and Civil, DEWA

QUESTIONS FOR THE INSPIRATIONAL FIGURE OF THE ISSUE - AL MASDAR MAGAZINE

1. First of all, we would like to know about the recent achievements in the Water and Civil sector.

Our strategies and plans at DEWA are based on the ambitious vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, which aims to further establish Dubai as a global hub for finance, business, tourism and green economy, as well as to boost growth in all sectors and strengthen their contribution to the vision.

We have achieved a number of milestones to translate this vision. These include, but are not limited to,

the major expansion and development of Dubai water network to accommodate the rapid growth in the Emirate. The length of water pipes has been increased

3.8 times in 23 years from 3,953 km in 1992 to 15,213 km currently, while the storage capacity has increased 20.44 times in 28 years from 38 million gallons in 1992 to 815 million gallons currently.

Based on our belief in the importance of smart transformation and the use of technology and big data in transforming Dubai into a smart city and improving the services provided to customers, we launched a state-of-the-art Supervisory Control and Data Acquisition (SCADA) systems within DEWA's Sustainable Building in Al Quoz, for real-time monitoring and control of the water transmission & distribution network, covering a distance of over 2,382 km as well as several pumping stations and reservoirs, in addition to installing 8472 instruments. Currently, we are working on phase two of (SCADA) system which includes the water distribution network, technology system used for real-time

monitoring and control of the water transmission & distribution network.

We have implemented one of the largest and most advanced smart water meter infrastructure projects in the world. We replaced 868,000 mechanical meters with smart meters, with monitoring and reading 728,000 of them remotely every 15 minutes, allowing us to increase the availability of meter readings to 99.9%. This allowed us to identify and fix 103,959 water leakage cases, 9,292 faults and 7,099 extra-load cases during the last three years. This achievement paved the way for DEWA to win the 'Smart Water Company Award of the Year' at the Global Water Summit 2018, and Green Champion of Water Efficiency from The International Green Apple Environment Awards 2019. Additionally, DEWA has recently won the International Corporate Social Responsibility (CSR) Excellence Awards for the water-saving category.

By utilising the latest global technologies in the water sector, we have successfully decreased the losses in water transmission and distribution networks from 42% in 1988 to 5.5% currently - one of the lowest globally. This led to DEWA joining the 'Leading Utilities of the World' (LUOW) network, the Gold Standard for utility performance worldwide, confirming DEWA's global standing. Additionally, we reduced the number of technical water complaints by 36%, from 1.63% in 2013 to 1.05% in 2019.

We also launched the 'High Water Usage Alert' initiative, one of the latest innovative features to make Dubai the most sustainable, smartest and happiest city in the world. With this alert, customers will be notified of any

As part of our efforts to realise the vision of our wise leadership and promote environmental sustainability, in line with the UAE Vision 2021 and the Dubai Clean Energy Strategy 2050, to make Dubai the city with the lowest carbon footprint in the world by 2050, we have been among the early adopters of green buildings in Dubai. We established our Sustainable Building in Al Quoz in 2012, the largest government sustainable building in the world, with a Platinum rating for green buildings from Leadership in Energy and Environmental Design (LEED) of the US Green Building Council (USGBC). The building uses 66% less energy and 48% less water and features an on-site 660 kilowatt solar power plant. We also completed three other projects with a Platinum rating:

2. What are your corporate goals in the period ahead, and what are your plans to reach these goals?

We work to provide state-of-the-art and integrated water and electricity infrastructure in Dubai, according to the best global standards.

In order to achieve this, and to establish DEWA as a leading, sustainable and innovative entity worldwide, our division plays a key role in 17 of DEWA's 19 strategic goals, through its strategic road map and the related projects and initiatives, with plans and budget allocations being made by different departments in the sector.

We continue moving forward with our projects to enhance the efficiency and



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high-water usage that could indicate possible internal water leakage, in order for them to carry out their preventive maintenance for a greener Dubai.

The Smart Response initiative has allowed 56% of customers to fix interruptions, saving them AED 17 million and increasing their happiness level to 91%. The Smart Response Service for electricity and water notifications has several features such as self-diagnosis, reducing steps from 10 to only 1 step for customers if they can self-diagnose the issue. It finds the best solutions to deal with, follow up and resolve technical notifications in a simpler and easier way, using DEWA's smart app and website for better customer experience and service efficiency.

Research and Development Centre, Innovation Centre and Data Hub, while DEWA's green vehicle workshop obtained a gold rating. DEWA has started the construction of its new headquarters. Named Al-Sheraa (Arabic for sail), it will be the tallest, largest, and smartest net Zero Energy Building (ZEB) in the world, and a milestone in sustainability, not only in Dubai and the UAE, but also globally. This is in addition to working on the construction and qualification of four more buildings for international green building certification. This achievement paved the way for DEWA to win 'The best sustainable project of the year in the UAE' MEED Quality Award 2014 and Middle East Electricity Awards 2016 -Lighting Project of the Year Award.

reliability of the water network, increase water flow and raise water reserves to fulfil the sustainable development needs in Dubai. The current storage capacity is at 815 million gallons, and we aim to increase it to 995 million gallons. We also plan to launch an Aquifer Storage & Recovery Scheme (ASR), where excess water is stored in aquifers and pumped back into the water network when needed. DEWA is building an ASR (Aquifer Storage Reservoir) to store 6,000 million gallons of water that can be retrieved when needed. This will provide the Emirate with a strategic reserve of over 50 million gallons of water per day in emergencies, and up until 90 days, while ensuring the quality of the stored water remains unaffected by external factors.

THIS ISSUE'S INSPIRATION



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We are also working on activating all smart water meters in Dubai and launching the Smart Meters Analysis and Diagnosis Centre by the end of the year. Additionally, our internal team has developed the Hydronet project, an AI solution that offers a real-time diagnosis of the water network, and is set to launch by the end of 2021, while the cybersecurity project and digital transformation of water sector project will be completed by the end of 2022, and Al-Sheraa Building to be ready in 2023.

3. What are the sector's plans and strategies for competency development?

Investing in human resources is one of our priorities, as it constantly brings positive results. We continue our journey to support our employees and develop their skills, by providing them with training, to motivate them and transfer knowledge and expertise, as they are an important element that contributes to DEWA's standards of excellence, as shown by our services and operations.

We emphasise on young Emirati employees, with the aim of empowering them as our future leaders, via a variety of programmes, such as Leadership Programme and Future Leadership Development Programme, to develop and prepare second-level leaders.

We ensure the mental and physical health of staff, with special attention for People of Determination, as we

strive to include and empower them in workplace and society, in line with the National Policy for Empowering People of Determination.

4. What are the current activities (workshops, training courses) dedicated to improving employees' skills, and how are you addressing the challenges imposed by Covid-19 in this field?

We provide our operations and services without compromising the health and safety of our employees, as they are the cornerstone in everything we do. Therefore, we have implemented all precautionary measures to maintain

the health and safety of our customers and employees. DEWA's staff have undergone training programmes to use technological tools and channels in its state-of-the-art digital infrastructure over the last few years. This has enabled 100% remote work for employees whose jobs do not require their presence at the facilities, such as water pumping stations and transmission and distribution networks.

The use of virtual training tools has provided our staff with better training opportunities, which are easily accessible with flexible times. This led to an increase in the average training hours of the division's employees in leadership roles from 84% during Q1 to 95.8% in Q2 to 96.2% in Q3, and from 86.7% in Q1 to 120% in Q2 to 123% in Q3 for employees in supervisory roles, and from 76.4% in Q1 to 117% in Q2 to 127% in Q3 for employees in non-supervisory roles.

During the pandemic, we worked on raising employees' awareness on health and safety by organising nine awareness campaigns aiming to cover all related aspects, such as defining COVID-19, washing hands and social distancing, in addition to the preventive measures against the virus, its longevity on different surfaces, the correct way to use and dispose of masks, and the differences in symptoms between Covid-19 and other respiratory diseases, and tips to increase the immune system.



Archived photos

5. How do you motivate your team members to give their best and achieve the targeted results?

We motivate our employees through our Human Capital Policy, to provide a happy, positive and stable work environment that offers equal opportunities for learning and personal development to all our employees. We also use a variety of tools to empower our staff, including career and succession planning, as well as training programmes to develop their knowledge and improve their practical skills, ultimately allowing them to obtain latest capabilities in their areas of speciality, and increasing the sector's performance in general. Together,

forming teams and developing their own work plan, as well as monitoring performance, assessing individuals and allocating tasks based on the specialties, and expertise of members.

Additionally, we fully support our employees to participate in internal and external awards, which has resulted in receiving 16 external awards in the last nine years, in addition to 49 of DEWA awards during the last five years. Moreover, 180 employees have received DEWA's internal awards in the last five years.

6. Human capital is the most important pillar for the development of any sector,

This allowed us to reduce the Unaccounted for Water (UFW) from 42% in 1988 to 6.6% currently, and reduce the water technical notifications by 36%, from 1.63% in 2013 to 1.05% in 2019.

Our teamwork and innovation have played a decisive role in these achievements. For example, our internal teams started the establishment of the Smart Meters Analysis and Diagnosis Centre, as well as developing 20 operational dashboards to monitor those meters. This was vital for the launch of different smart initiatives, such as the 'High Water Usage Alert' initiative, and secured the team four prestigious international awards.



Archived photos

Employees and teams are encouraged to present and implement creative ideas, which resulted in 13 patent applications, including a project to design and manufacture a water valve replacement machine, which led DEWA to win two international awards: one gold award in the Team Idea of the Year category at Ideas America Summit 2018, and the other is the Hydronet project, which was registered as a patent and recently won the silver award in the Team Idea of the Year category at Ideas America Summit 2020.

our staff and managers are responsible for setting their career goals in line with the sector's aims, while managers also provide fair and structured feedback to boost their commitment and encourage creativity and innovation.

The division builds teams to reach specific goals with the collaboration of several departments and sections. This process is controlled by implementing a team management approach, which includes

what are the achievements in this area?

Employees have been and will be a part of all past and future achievements of the division. They play a key role in implementing projects such as expanding Dubai's water network, managing water operations, network monitoring and maintenance, equipment and meters management and maintenance, planning, designing and implementing construction work and regular maintenance of buildings.

The employees also played a key role in DEWA's Sustainable Building winning the Platinum rating for green buildings from LEED in 2012, marking it the first government building to reach this milestone. Additionally, four more buildings will secure the ratings, and five more are in the pipeline by 2023.

7. How does cooperation with other divisions help in boosting DEWA's achievements?

DEWA's cooperation with different divisions has played a major role in our achievements, as we join forces to reach our goals, each with specific roles, while our culture and internal regulations help boost and promote cooperation among sectors. The Water and Civil sector has signed 15 Service Level Agreements (SLAs) to complete six operations in level 1, eleven in level 2 and forty-six operations in level 3, including the calculation and reviewing of 99 related indicators quarterly. The SLA Indicators with good service levels reached 94% during Q2 2020.

Examples of such innovative initiatives resulting from constructive cooperation are 'High Water Usage Alert' initiative and the 'Smart Response'.



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DEWA first in the Middle East to receive BSC COVID-19 Assurance Statement

DEWA has become the first organisation in the Middle East to receive the BSC COVID-19 Assurance Statement after a rigorous audit by the British Safety Council (BSC). The BSC congratulated DEWA, noting that it has implemented extensive processes to minimise the effects of COVID-19 throughout its workplaces and associated activities and services. This was based on a thorough and systematic planned approach to the application of controls and procedures. DEWA's existing strategies and technologies have shown

its agility and enabled it to progress safely without compromising its services. DEWA scored 100% compliance in the criteria for risk management and control measures on how to minimise the risk of transmission.

The BSC reported that DEWA has particularly strong protocols for testing, isolation, sanitisation and follow-up of potential cases or their contacts. There are also good general controls in place such as physical distancing, cleaning and disinfection and training.

The Risk Management criteria involves assessing the risks, planning the control measures, allocating roles and responsibilities, implementing and maintaining controls, communications and training, and reviewing and revising arrangements. The criteria for control measures on how to minimise the risk of transmission involve avoiding personal contact, health control and surveillance, use of personal protective equipment (PPE), workplace cleaning, and workplace ventilation.

Dubai launches the region's first association of district cooling operators



▶ HE Saeed Mohammed Al Tayer, Vice Chairman of Dubai Supreme Council of Energy (DSCE), announced that Dubai has launched the region's first Association of District Cooling Operators to enhance the efficiency of district cooling operations and optimise water and energy resources.

"The DSCE achieves the strategic objectives of the Demand Side Management Strategy to reduce 30%



of the electricity and water demand by 2030. This is in accordance with the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to enhance the shift towards a sustainable green economy. We are working on 11 programmes to manage the demand on water and energy, including Green Building Code; Building Retrofits; Outdoor Lighting



and Efficient Cooling," said Al Tayer.

HE Ahmad Bin Shafar, CEO of Emirates Central Cooling Systems Corporation (EMPOWER), presided over the association's first meeting in the presence of HE Ahmad Buti Al Muhairbi, Secretary General of the DSCE. Representatives from the DSCE and the Regulatory and Supervisory Bureau for Electricity and Water of Dubai (RSB) attended the meeting.

DEWA fully repays USD 1.5 Billion of maturing bonds, achieving zero debt position

▶ DEWA has announced that it has completed repayment of its last outstanding Bond of USD 1.5 billion. The Global Medium Term Note (GMTN) bond that was issued in 2010 matured and has been fully repaid. With this step, DEWA is in the privileged position of having Zero debt on its books.

Consistent with Dubai's steady growth, DEWA has been ramping up investment in generating, transmission

and distribution infrastructure assets, now aggregating over AED 175 billion, in order to provide reliable world class supplies of electricity and water to all customers, whose number has now crossed the one million mark.

"Reflecting the vision and directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, DEWA's focus now is on using disruptive technologies,

increasing the share of clean energy and promoting Dubai as a global hub for green economy," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

"New projects worth over AED 86 billion are either ongoing or envisaged for completion, within 5 years. DEWA is not necessarily counting on new borrowings for that, rather we will use internal resources and leverage public private partnerships," added Al Tayer.



DEWA inaugurates 20 new substations in 2020 with investments totalling AED 2.6 billion

▶ DEWA inaugurated 20 new electricity substations in 2020, as part of its efforts to provide electricity and water services according to the highest standards of availability, reliability and efficiency. These include a 400 kV substation in Dubai South with a conversion capacity of 2020 megavolt-amperes (MVA), and nineteen 132 kV substations in several areas across Dubai with a conversion capacity of 2700 megavolt-amperes. The total cost of the substations has reached AED 2.6 billion.

"We work in line with the vision and directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to

provide an advanced and integrated infrastructure for electricity and water according to the highest standards of availability, reliability, and efficiency to meet growing demand and keep pace with the sustainable development needs of Dubai. These new substations are part of DEWA's efforts to increase the capacity, efficiency, and readiness of the power transmission network in the Emirate and meet the future needs of customers, developers, and the business sector," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

Al Tayer noted that DEWA's total investments in power transmission have reached AED 11.2 billion. This includes AED 2.4 billion for 400 kV transmission projects and AED 8.8

billion for 132 kV transmission projects. All substations are implemented according to the highest standards of quality, efficiency, and safety and use the latest digital technologies. This supports DEWA's efforts to enhance digital transformation across all its services and operations.

Hussain Lootah, Executive Vice President of Transmission Power at DEWA, said that implementing the substations in 2020 went according to plans despite the restrictions imposed by COVID-19. He noted that the total number of 400 kV substations in Dubai is 23 with four new substations under construction. The total number of 132 kV substations is 302 substations with 42 substations under construction.





DEWA completes 72.38% of 4th phase of H-Station at Al Aweer by end of October 2020

By end of October 2020, DEWA completed 72.38% of the 4th phase of H-Station at Al Aweer, which is one of its most important projects to meet the reserve margin criterion set for peak electricity demand in Dubai. So far, DEWA has completed over 6 million safe working hours on this project without recording any injuries.

The AED 1.1 billion project is implemented by a consortium comprising Siemens and Elsewedy Power. The project includes importing, installing, testing, supplying, and commissioning three Siemens gas turbines with a total capacity of 829 MW. The project also includes

installing sub-devices and equipment from major international companies such as natural gas compressors from Germany's MAN. It also includes a natural gas treatment station from Dutch company Petrogas. Other local and regional companies are also contributing to this project.

DEWA's R&D Centre registers patent for universal charging system for electric vehicles



DEWA has registered a new patent after its R&D Centre's researchers developed a universal smart system for electric vehicle charging stations. The system can charge all kinds of electric vehicles, whether they use AC or DC, with a single cable and plug.

The charging system simplifies the charging process as drivers do not need

to bring their own cables. Instead, the charging station is a one-stop point for all types of electric vehicle, as it automatically adapts the plug and the charging to the vehicle's requirements. The R&D Centre is currently building a prototype for further study.

DEWA has installed more than 280 Green Charger stations across Dubai.

Private electric vehicle owners, who are registered in the Green Charger services, can charge their vehicles for free until the end of 31 December 2021. This applies only to public charging stations and not domestic ones. Commercial vehicles for organisations, companies, governmental and semi-governmental organisations can charge their vehicles for 29 fils/kWh.

THE CONSERVATION MASTERCLASS



DEWA launches Interactive Conservation Programme for the educational sector

DEWA has launched the Interactive Conservation Programme, which aligns with the UN Sustainable Development Goals (SDGs). This is part of its continuous efforts to promote conservation in the educational sector and encourage the next generation to protect our valuable, natural resources and ensure their sustainability for a greener and brighter future.

The programme provides a wide range of innovative lectures and interactive workshops for all educational cycles. This makes students aware of the significant efforts required in supplying electricity and water to their homes and schools; and their roles and responsibilities for a sustainable lifestyle.

"DEWA strives to provide the needed support to ensure the next generation can protect the environment by following the best conservation practices to reduce waste for a

sustainable lifestyle. This is in line with the long-term national initiative launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, under the theme 'Green Economy for Sustainable Development'. Using Dubai's state-of-the-art digital infrastructure, DEWA enhances smart learning and leverages the latest technologies to promote sustainability among students in purposeful and educational ways. As part of its vision to become a globally leading sustainable innovative corporation and its social responsibility, DEWA promotes collaboration between public and private organisations in Dubai to raise environmental awareness among students. Today's youth are the next generation of leaders and experts who will implement our ambitious national strategies and plans," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

DEWA encourages all educational facilities to benefit from the programme's three levels: Primary, Intermediate, and Advanced. The programme is made available on DEWA's Conservation Award section on its website, including guides and booklets for all educational levels and the workshop supervisor.

The online activities vary between individual and group work, with main ideas related to electricity, water, and the environment. Participants interact to reach innovative solutions through immersive discussion, play or writing.

The programme enhances the Conservation Award's role in awareness over the last 14 years in the educational sector. This year's advanced tools facilitate the Award's objectives in spreading awareness among students, through the responsible use of resources and honours institutions for their efforts to reduce waste and ensure conservation.

DEWA organises virtual activities to celebrate 49th UAE National Day



▶ To celebrate the 49th UAE National Day, DEWA organised a number of virtual activities for staff. HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, Executive Vice Presidents and Vice Presidents took part in the activities.

“On this glorious day, we pledge our loyalty to our wise leadership and promise to continue our hard and sincere work with the help of Emirati men and women, to preserve our national gains and contribute to shaping the UAE's future over the next 50 years. Our goal is to make the UAE the

world's leading nation by its centennial in 2071,” said Al Tayer.

The virtual activities included a poetry session featuring Emirati poets Mosabeh Ali Al Kaabi, Hamda Al Murr Al Muhairi, Saif Salem Al Mansouri, and Hadi Al Mansoori. The activities also featured an interactive session with virtual traditional Emirati games and an online competition about the UAE. There was also a video of DEWA's efforts in surmounting the Covid-19 pandemic. DEWA's teams continued to work remotely and onsite to provide electricity and water to all the people of Dubai according to the highest standards of quality, efficiency and reliability. DEWA demonstrated its agility in dealing with various circumstances and succeeded in transforming challenges into opportunities. DEWA also has a dedicated intranet page covering various topics on the UAE and the National Day.

DEWA marks Commemoration Day by observing a minute of silence

▶ Staff of DEWA marked Commemoration Day by observing a minute of silence at 11:30 am on 30 November 2020. They prayed to Allah Almighty for the UAE martyrs to rest in peace in heaven, and for the martyrs' families to be given patience and strength.

While the National Anthem was played, HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, raised the UAE flag at DEWA's head office. He was accompanied by DEWA's Executive

Vice Presidents. DEWA employees watched the event on a live stream on an internal portal.

“On this solemn day, we pledge to remain loyal soldiers for this generous nation and its wise leadership. We are ready to answer the nation's call at any time, praying to Allah Almighty, to bless the nation's martyrs and provide solace for their families. We vow to remember their sacrifices as a beacon of good citizenship; through giving, excellence and hard work to pay back our nation,

preserve its gains and contribute to its development and prosperity,” said Al Tayer.

DEWA staff emphasised that the martyrs embody the best examples of giving and sacrifice. The employees stand behind the wise leadership to answer the nation's call of duty at any time, in gratitude for the martyrs and their belonging to this homeland.

DEWA observes Flag Day

▶ DEWA has responded to the call of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, by raising the UAE flag along with all organisations on 3 November to mark Flag Day. Flag Day is observed on 3 November each year on the same date as the anniversary of the accession of HH Sheikh Khalifa bin Zayed Al Nahyan

to the Presidency of the UAE. The Flag Day initiative shows respect for the UAE flag as a symbol of sovereignty and unity.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, raised the flag at 11 am, attended by DEWA's Executive Vice Presidents. DEWA employees watched the event on a live stream on DEWA's internal portal.

DEWA's activities included dedicating a page on the internal portal, which includes national information and facts about the UAE flag. Flag Day logo was also displayed on all screens across DEWA.



DEWA wins 1st place for 5th year running at 13th Arabia CSR Awards

▶ DEWA has achieved first place in the Public Sector Category of the 13th Arabia CSR Awards for the 5th year running. This is in recognition for DEWA's efforts in Corporate Social Responsibility (CSR).

On behalf of HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, Taha Al Hamri, Chief Happiness Officer and Head of the voluntary team at DEWA, received the award from Habiba Al Marashi, President & CEO of the Arabia CSR Network. DEWA received the award during a ceremony held under the patronage of HE Sheikh Salem bin Sultan bin Saqr Al Qasimi, Chairman of the Ras Al Khaimah Department of Civil Aviation. A number of CSR leaders were also present.

Al Tayer was pleased that DEWA achieved the first place in the Public Sector Category of the Arabia CSR Awards for the 5th consecutive time. He commended the efforts of

the Arabia CSR Network, which is an important platform to highlight the best practices in CSR and sustainability in the Arab World.

The Arabia CSR Award adopts standards that follow leading international models. These include the UN Global Compact Ten Principles, the GRI framework

(currently GRI Standards), and the EFQM model; and the UN SDGs. The jury comprises independent experts from around the world. This is the 5th time DEWA received this prestigious award in recognition of its integrated CSR strategy, which has resulted in several local and international initiatives.



DEWA wins Innovative Power Technology of the Year at the Asian Power Awards 2020

▶ DEWA has added a new accolade to its record of global achievements by winning the 'Innovative Power Technology of the Year 2020' award at the 16th Asian Power Awards, considered one of the most prestigious electricity awards in Asia. This is in recognition of its Thermodynamic

Digital Twin Gas Turbine Intelligent Controller (GTIC), a world first.

A team of Emirati engineers from DEWA, in collaboration with Siemens Energy, developed the GTIC which uses digital twinning, Artificial Intelligence (AI) and Machine Learning (ML) to

control the Gas Turbines at M-Station in Jebel Ali, the largest power and water desalination plant in the UAE. The system has improved efficiency, increased generation capacity, reduced fuel consumption and emissions. It is expected to save around AED 17 million a year, when fully applied.



DEWA wins 16 awards at Ideas America Awards 2020

DEWA has won 16 awards at the Ideas America Awards 2020, which is the largest global platform for best practices and creative ideas. This consolidates DEWA's position as one of the most prestigious organisations in the world.

For the second year in a row, DEWA won the Overall Idea of the Year award. It won the Organisational award and six gold awards including Executive Leader; Breakthrough

Innovation; Best Programme Administrator; Champion of the Year; Safety Idea of the Year and Policing/Security Idea of the Year. DEWA won three silver awards for Advocate of the Year; Champion of the Year; and Team Idea of the Year. It also won two bronze awards for Team Idea of the Year; two KUDOS awards; and two Honourable Mention awards.

DEWA has become one of the world's largest innovative utilities. It aims to

redefine the concept of utilities, by institutionalising innovation in all its divisions and operations. DEWA's innovations and projects have achieved several successes and global achievements that support innovation and creativity in Dubai, especially in Fourth Industrial Revolution applications. These include Artificial Intelligence; Unmanned Aerial Vehicles; Energy Storage; Blockchain; and Internet of Things among others.





DEWA Adopts Smart Dubai's Ethical AI Toolkit on AI Projects

▶ DEWA has used Smart Dubai's Ethical AI Toolkit on a total of 13 AI use cases across various divisions.

Smart Dubai had developed the Ethical AI Toolkit to set clear guidelines on the ethical use of Artificial Intelligence to prevent having a fragmented, incoherent approach to ethics, where every entity sets its own rules.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, commended Smart Dubai for developing the Ethical AI Toolkit on AI Projects, making Dubai the first city in the world to set out a voluntary approach that helps businesses and governments

create fair, accountable, transparent, explainable, and trusted AI systems.

DEWA's 13 AI use cases among different departments include Outage Planning and Load Forecasting, Solar Power Generation Forecasting, Network Design and Area Planning, Visual Inspection on Solar Photovoltaics, DEWA's virtual assistant Rammas, Wisdom Chatbot, Smart Response (Fuse Box Application), My Sustainable Living Programme (MSLP), Water Burst/Leak Detection (HydroNet), AI-Based Tamper Detection, the Asset Performance Management project, the Gas Turbine Intelligent Controller (GTIC), and the Distribution

Asset Criticality Ranking (DACR).

DEWA has set up several policies and quality procedures that are rooted in the Ethical AI and Self-Assessment Toolkit to govern procedures and operations.

Smart Dubai developed the Ethical AI Toolkit in January 2019 to set clear guidelines on the ethical use of Artificial Intelligence and guide the development of AI-powered services and initiatives. There is also an AI Self-Assessment Tool, as part of the toolkit, which allows AI champions to implement and develop AI use cases, and self-assess its performance against the guidelines to ensure an ethical approach.

Moro Hub Launches IBM Power Systems as Cloud Service for the first time in Dubai

MORO

▶ Moro Hub (Data Hub Integrated Solutions) a wholly-owned subsidiary of DEWA, announced its collaboration with IBM to launch IBM Power Systems as a cloud service for the first time in Dubai. The new cloud service will enable organisations to benefit from improved performance and high data processing speeds, while reducing operating costs and power consumption.

Moro Hub will host IBM Power Systems in its secure data centre in Dubai and offer it as a service with a cloud based subscription model. Government entities and enterprises will have the added value of abiding by their data residency and protection requirements.

According to Gartner, growth in enterprise IT spending for cloud-based offerings will outstrip growth in non-cloud traditional IT offerings through 2022. Additionally, organisations that are boosting IT spending on cloud adoption will be the first to reap the benefits of emerging next-generation, disruptive business models.

NEWS - SMART ADOPTION

Huawei Partners with Moro Hub to launch an open cloud from the first green data centre in the region



HE Saeed Mohammed Al Tayar, MD & CEO of DEWA, witnessed the signing of a collaboration agreement between Moro Hub and Huawei, to launch the multi-tenant Huawei Cloud Stack hosted in the UAE at Moro's Green Data Centre, the first of its kind in the Middle East.

The newest developer-friendly, secure, and resilient Cloud Platform provides a range of futuristic managed cloud services with multi-availability zones while contributing

to the sustainability objectives of governments and Enterprises. The agreement was signed by Eng. Marwan Bin Haidar, Vice Chairman of Moro Hub, and Jiawei Liu, CEO of Huawei UAE.

The latest announcement is in sync with Moro Hub's launch of Green Data Centre to invest its efforts in offering the latest technologies and services to its clients yet be a responsible corporate citizen to the environment and its community.

The new cloud offering reflects the share vision of both Moro Hub and Huawei to reduce carbon emissions and enhance environmental sustainability.

The new innovative Cloud Platform will further drive the digital transformation of government and private organisations in the UAE, reinforcing their efforts to upgrade their infrastructure to keep up with the developments of the 4th Industrial Revolution.

Moro Hub launches the region's first solar-powered Green Data Centre at WETEX 2020



Moro Hub (Data Hub Integrated Solutions LLC), a wholly-owned subsidiary of DEWA announced the launch of the Middle East's first certified Tier-III Green Data Centre on 28th October at WETEX 2020. Located at Al-Yalaisy, Dubai, this

is the region's first Data Centre fully powered by solar energy.

The announcement, which was made by HE Saeed Mohammad Al Tayar, MD and CEO of DEWA, positions Moro Hub as a

leading contributor to the UAE's Circular Economy, while majorly contributing to the endeavours of DEWA in its sustainability journey.

HE Saeed Al Tayar commented: "We work in line with the vision and directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. The launch of the Middle East's first solar-powered Green Data Centre represents a new achievement for Moro Hub. This reinforces the Scale 360 Initiative that the UAE has signed as the first country in the world, in collaboration with the World Economic Forum to benefit from technology innovation and advanced solutions in accelerating the circular economy; while using fewer natural resources and reducing pollution to mitigate climate change."

Dubai Supreme Council of Energy reduces fuel surcharge and directs district cooling companies to reduce bills

HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy, issued a decision to reduce the fuel surcharge for electricity and water, in line with the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to increase the share of renewable and clean energy in Dubai's energy mix. The fuel surcharge for electricity will be 5 fils per kilowatt hour instead of 6.5 fils currently. The fuel surcharge for water will be 0.4 fils per Imperial Gallon instead of 0.6 fils currently. The decision reflects the Supreme Council's commitment to raise Dubai's leading position as a provider of electricity and water services at globally competitive prices.

Following this decision, HH Sheikh Ahmed bin Saeed Al Maktoum has directed all district cooling companies to fully implement this reduction in their customers' bills and to take the necessary measures in this regard.

The savings achieved in fuel consumption because of the increase in solar power production will be passed on to customers. The fuel surcharge reduction applies to electricity and water bills from 1 December 2020.

HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy and MD and CEO of Dubai Electricity and Water Authority (DEWA) said, "At DEWA, we work in line with the vision and directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to increase the share of renewable and clean energy and provide 75% of Dubai's energy capacity from clean energy sources by 2050 through the Dubai Clean Energy Strategy 2050. In light of the increase of clean energy in Dubai's energy mix to around 9%, fuel consumption has decreased. These savings will reflect in customers' bills. The Dubai Supreme Council of Energy's decision to reduce the fuel surcharge for electricity and water underlines the wise leadership's keenness to ensure a decent life for the residents of Dubai."





Swiss Consul General reviews DEWA's work on sustainability

HE Saeed Mohammed Al Tayar, MD & CEO of DEWA, has received HE Frank Eggmann, Consul General of Switzerland to Dubai and the Northern Emirates.

At the start of the meeting, Al Tayar welcomed the Swiss Consul General and outlined DEWA's pioneering and innovative projects and initiatives to achieve the vision of the wise leadership, which is the roadmap for DEWA's

ambitious initiatives and development projects for sustainable development. This supports DEWA's vision to become a globally leading sustainable innovative corporation.

Al Tayar talked about the importance of increasing cooperation, and how Swiss energy and water companies can contribute to projects in Dubai. He also discussed the need to share best practices,

experiences, and expertise in energy, water, and sustainability; to further develop these areas for mutual benefit.

Eggmann expressed his interest in cooperating with DEWA on its pioneering projects in clean and renewable energy and water. He praised DEWA's efforts in promoting green economy, and commended the services DEWA provides to Dubai based Swiss companies.

MD & CEO welcomes Coordinator General of DGE

HE Saeed Mohammed Al Tayar, MD & CEO of DEWA, met with HE Dr Hazza Al Nuaimi, Coordinator General of the Dubai Government Excellence (DGE) of the General Secretariat of the Executive Council of Dubai. This strengthens cooperation and joint work with government organisations and authorities. Waleed Salman, Executive Vice President of Business Development and Excellence at DEWA, also attended the meeting.

Al Tayar welcomed Al Nuaimi and highlighted DEWA's efforts to enhance Dubai's position as a global hub for excellence. DEWA has been supporting the development of DGE; working as one team. This supports the



objectives of DGE; sharing experiences in excellence and quality of services, especially as DEWA has been a key partner since its inception.

During the meeting, Al Nuaimi presented Al Tayar with a 7-star Benchmarking Proficiency Certificate, which is a part

of the 'We Learn' initiative organised by Dubai Government Excellence. The certificate was for DEWA's Green Charger 2.0 project to develop a new prototype for an electric car charger that is easier to use, provides a better customer experience, and applies international best practices.



Dubai Department of Finance delegation visits Moro Hub

HE Saeed Mohammed Al Tayar, MD & CEO of DEWA welcomed a high-profile delegation headed by HE Abdulrahman Saleh Al Saleh, Director General of the Government of Dubai's Department of Finance (DOF) to Data Hub Integrated Solutions - Moro Hub, a wholly-owned subsidiary of DEWA. This is part of Moro Hub's efforts to support the UAE's directives to promote digital transformation across all economic and service sectors. The meeting aimed to enhance cooperation between the two sides and review Moro's innovative digital solutions.

With its forward-thinking focus, Moro Hub fosters an ecosystem for innovation and future-proofed business models, driven by advanced tech solutions, including computing, networking, databases, analytics and Artificial Intelligence (AI). Each of these advanced solutions have been designed to help government and enterprise customers augment their digital transformation journeys effectively and efficiently.

From DOF's side, the meeting was also attended by Jamal Hamed Al Marri, Executive Director of Central Accounts Sector; and Huda Hamdan Al Shaikh, Executive Director- Corporate Services Sector at the Dubai Department of Finance.

From Moro's side, Marwan Bin Haidar, Vice Chairman ; Matar Al Mehairi, Board Member; Mohammad Bin Sulaiman, CEO;

Dr. Ahmed Al Ketbi, Chief Information Security Officer of DEWA and Moro; and Rashid Al Ahmedi, Chief Operating Officer at InfraX were also present.

"At Moro Hub, we are committed to the vision and directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to enhance the position of the UAE as a global hub in digital technologies. This is done by employing Fourth Industrial Revolution technologies such as AI, Blockchain, Internet of Things (IoT) as well as developing the technological infrastructure and providing the latest data centres and advanced solutions," said HE Saeed Mohammed Al Tayar.

During the visit, HE Saeed Mohammed Al Tayar briefed the Department of Finance delegation on Moro Hub's key services, which include cloud, digital, cybersecurity, and data management services, as well as the services offered by the Smart Cities Command and Control Centre.

HE Abdulrahman Saleh Al Saleh, commended Moro Hub for its strategic efforts to strengthen the digital landscape of the UAE. He also praised the company for being a pioneer in adopting cutting-edge digital solutions that contribute to providing services to customers, taking into consideration the global orientations of different economic and business sectors.



MEET YOUR COLLEAGUES

DISTINGUISHED EMPLOYEE



**AMEL ALI
AL HAMMADI**

▶ Amel Ali Al Hammadi currently works as Manager - Distribution Master Plan (power) in Network Analysis Department, Distribution Planning, and has 11 years of experience in DEWA in power quality and studies related to MV cables, in addition to plan and analyze Distribution Network.

Al Hammadi's main tasks are to issue Distribution Master Plan (Power) annually within the specified KPIs and with accuracy reached 99.7% in 2019. Furthermore, studying and issuing the requirements of 132/11 kV substations annually and issuing the internal work plan for preparing Distribution Master Plan (power); preparing cost saving reports quarterly; supervising REKAAZ database and handling migration and integration of REKAAZ DB to SAP system.

Al Hammadi is also an active member of DEWA's Women Committee and participates in DEWA charitable campaigns, which is aligned with social responsibility and volunteer work.



**AHMED HASSAN
AL MARZOOQI**

▶ Ahmed Hassan Al Marzooqi works as Manager - Asset Management in the Distribution Assets Department of the Power Distribution division. He joined DEWA in 2014, and is a member of many committees and teams at DEWA.

Al Marzooqi supervises various projects and contributes to achieving DEWA's vision by encouraging employees to adopt innovation as a culture and use smart and innovative solutions to improve and accelerate the pace of work. He provides a knowledge environment by encouraging his colleagues to share knowledge and experiences through workshops and training courses, and to apply the acquired technical and managerial skills in their work environment.

Al Marzooqi holds a master's degree in engineering systems management, and a certificate in asset management from the Institute of Asset Management (IAM). He has acquired excellent skills through membership in the Institute of Electrical and Electronics Engineers (IEEE) and the Institute of Engineering and Technology (IET).



EMAN AL-HIARI

▶ Eman Al-Hiari joined DEWA in 2013 and is currently Assistant Manager External Competitiveness. Eman has played a key role in DEWA's journey of success and excellence globally. She is responsible for planning and managing various awards with a focus on prestigious international awards. She also reviews submission documents prepared by the divisions to increase DEWA's chances of winning awards. Eman has participated effectively in winning DGEP awards, as a coach for the strategy criteria excellence team and individuals as well, and a very active member in DGEP teams. In addition, she has contributed to enhancing awareness and a culture of excellence across DEWA through multiple awareness sessions on varied excellence topics.

Eman has more than two decades of experience in the public and private sector. Earlier she was Director of Policies at the Ministry of Justice in Jordan, where she developed the strategic plans for the Ministry and its courts.

Eman has a bachelor's degree in industrial engineering from the University of Jordan. She is a professional excellence expert, who enjoys being a part of, as well as leading teams, to develop innovative and creative solutions, to challenges.



REEM RASHED SELAYEM AL RUWAIHI

▶ Reem Al Ruwaihi joined DEWA in 2013 as a Senior Officer in the IT Projects Department of the Innovation and the Future division. In the last seven years, Al Ruwaihi has been responsible for key tasks in the department including programme manager in the Smart Office projects, for robotics and automation among others.




Al Ruwaihi is a competent IT professional who has proven herself at several prominent organisations. As part of her work placements, Al Ruwaihi worked at Dubai Civil Aviation, at Al Jawada Zone of Dubai's Women's Campus, Mashreq bank and RTA. In 2020 alone, she received 18 certificates covering several areas of innovation and soft skills.

Al Ruwaihi is currently pursuing an MSc in Service Leadership and Innovation from the American University in Dubai and is expected to graduate next year. In 2013, she obtained a bachelor's degree in IT Business & Information Systems.




TIPS AND TRICKS

TIPS & TRICKS TO SAVE ELECTRICITY & WATER



COOLING

-  Keep your thermostat set at **24 °C** or higher. Remember that each temperature degree increase can save up to **5%** on AC consumption.
-  The optimal lifetime of an AC is **10 years**. If you have older models, you may want to consider replacing them with the newer, more energy-efficient AC units that are rated **4 or 5 stars** by the ESMA. This will help you to save up to **25%** of cooling consumption.
-  Clogged or dirty AC filters can block and significantly reduce the system's capacity for efficient air flow. It is highly recommended to clean your AC filters periodically or at least every three months.



REFRIGERATION/FREEZING

-  Set the fridge temperature to **4°C**, or to the manufacturer's recommendation to avoid excessive cooling and wasting energy.
-  Keep your freezer temperature at **-18 degree** Celsius.
-  Keep your fridge away from the oven, dishwasher, dryer and direct sunlight to avoid overworking.



DISHWASHERS & WASHING MACHINES

-  To conserve on water, energy and detergent supply, only use your dishwasher or washing machine when it is a full load.
-  When purchasing a new appliance, look for one offering several different cycles, including an eco-cycle. This will allow you to select more energy and water efficient cycles when heavy-duty cleaning is not required.



COOKING

-  To reheat food, use a microwave or toaster oven as it consumes less electricity than heating up an entire stove.
-  Use flat - bottom pans for best contact with the electrical cooker heat, with tight - fitting lids to keep the steam in the container. Pressure cookers use less energy than ordinary pots and pans.



LIGHTING

-  Use **LED lighting** and have them cleaned regularly.
-  When not in use, turn off any unnecessary lights and be sure to utilise natural lighting as much as possible.



IRRIGATION

-  Water your plants before **8 am** or **after 6 pm** to reduce evaporative losses.
-  Check sprinkler system valves periodically for leaks and keep the heads in good condition.




SHOWERS & FAUCETS

-  Install a water-efficient showerhead with a flow rate of less than **8 litres per minute**.
-  Install aerators on your kitchen and bathroom faucets to reduce faucet water usage by up to **40%**.

BATHROOM/WASHROOM

-  Older toilet models use up to **12 litres** of water per flush, compared to newer models which use about half of that amount at **6 litres** of water per flush. This results in annual water savings of approximately **10,000 litres** per person.
-  Check toilets periodically for leaks and repair them promptly.

GENERAL TIPS

-  When purchasing a new appliance, consider purchasing one with a high ESMA (Emirates Authority for Standardization and Metrology) energy efficiency rating (**5 or 4 stars**), to save energy.
-  Wash your car with a bucket of soap and water instead of using a hose or pipe.
-  Cover your swimming pool to reduce water losses due to evaporation.



You can read more conservation tips through DEWA's smart app and website
<https://www.dewa.gov.ae/en/consumer/Sustainability/sustainability-conservation-tips>

Clean energy investments should increase to USD 2 trillion annually to achieve sustainability goals

▶ The International Renewable Energy Agency (IRENA) Director Francesco La Camera said renewable energy investment should reach USD 2 trillion annually over the next three years to achieve the Paris Agreement targets.

IRENA estimates that increasing the annual investment to USD 2 trillion from 2021-2023- could encourage more private sector investments which is an effective incentive for the global economy. This investment will enhance the GDP by 1% and create 5.5 million jobs.

Clean energy projects are gaining worldwide momentum. Costs are decreasing due to the rapid development of technologies. Solar PV projects cost decreased by 82% over the past 10 years and the CSP projects cost decreased by 47%, according to IRENA. Wind projects cost decreased by 39% and offshore wind projects cost decreased by 29% during the same decade.

The Global Renewables Outlook: Energy Transformation 2050 report issued by IRENA in mid-2020 indicated that the transition to renewables, efficiency and electrification could drive overall socio-economic development, supported by comprehensive policies to cut carbon emissions.

The use of hydrogen and synthetic fuels, direct electrification, advanced biofuels and carbon management will be crucial ways to cut CO2 emissions beyond 2050, along with innovative business models, structural changes and behavioural adaptation.

The UAE ranked the first in the Arab World and 44th globally in the World Energy Trilemma Index 2020, issued recently by the World Energy Council and Oliver Wyman. The report measures the performance of countries in providing sustainable energy.

In the Index's sub indicators, the UAE came second globally in energy access

and affordability. The index assesses the countries capacity to provide a global access to reliable energy, reasonable and available energy for local and commercial use.

The report mentioned that several Middle Eastern countries have set ambitious renewable energy targets to be reached by 2030 and 2050 while also committing to reducing emissions from the hydrocarbon industry. To date, the UAE has the largest carbon capture storage and utilisation projects at a steel plant, where carbon dioxide emissions from the production process are captured and transported to an oil field to improve extraction rates.

The UAE remains the leader in diversifying its energy mix and has the highest percentage of installed renewable energy capacity. The UAE has set a revised clean energy target of 27% by 2021 and a longer-term target to increase the share of renewables to 50% by 2050.



HH Sheikh Mohammed bin Rashid Al Maktoum announces new satellite called MBZ-SAT



His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, has announced a new satellite project called the MBZ-SAT, which will become the second Emirati satellite to be fully developed and built by a team of Emirati engineers after the KhalifaSat.

To be developed at the Mohammed Bin Rashid Space Centre, MBRSC, in Dubai, the MBZ-SAT is expected to be launched in 2023, making it the most advanced commercial satellite in the region in the field of high-resolution satellite imagery.

"We have chosen the name MBZ-SAT for the new satellite, which will be designed and developed by Emirati competencies and bear the initials of my brother Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces. The name was chosen in honour of the achievements he has contributed to, of which we are proud of among nations. Our goal is to fully benefit from space science and find new opportunities to support the development of our country and the region, and also help societies overcome environmental and developmental challenges so they can prosper and progress," said His Highness.

"The space sector is a key strategic sector that we strongly support, due to its role in improving the quality of life for people and providing humanity with innovative solutions for a better future. With the help of our national talent, we can raise the level of our ambitions and continue to support international efforts in the field of space science to serve the interests of both the region and the world," added His Highness.

Fourth Earth Observation Satellite

As the fourth Earth observation satellite to be developed and launched by MBRSC, the project will strengthen the Centre's efforts to expand its

portfolio of imaging technologies and products for government agencies and commercial entities worldwide. MBZ-SAT will contribute to meeting the growing commercial demand for high-resolution satellite images that will show details within an area of less than one square meter, which will be one of the most advanced features ever.

MBZ-SAT will be equipped with an automated system for arranging images round-the-clock, ensuring that it provides the highest quality standards of satellite images intended for commercial use globally. This project will strengthen the UAE's partnerships in the space industry between the public and private sectors.





138% increase in digital projects in Dubai

▶ The DED Trader licence launched by the Business Registration & Licensing sector in Dubai Economy, has seen an overwhelming response with 4,023 licences issued during the first nine months of this year, an increase of 138% compared to the same period last year as the total number of licences reached 1,687 licences.

Dubai Economy provides the ideal

environment and provides the necessary support for license holders by signing partnerships with all entities from the public and private sectors, providing them with facilitations, and utilising the promising opportunity provided by the Emirate for the e-commerce sector as well as other sectors. This enhances its position as a prestigious global hub for business and a global incubator for innovation and creative projects.

The Business Registration and Licensing at Dubai Economy cooperated with 'Talabat' to provide an opportunity for young people holding a Trader license, enabling start-ups in Dubai to conduct business activities online and across social networking accounts, to display their food products through Talabat's app, so that it would reach a larger largest segment.



Dubai Municipality launches Makani board for smart addresses in Dubai

▶ Dubai Municipality launched the Makani smart system for addressing geospatial units. The system, which is the first of its kind in the world, was launched in the presence of Eng. Maryam Al Muhairi, Director of the GIS Center in the Municipality.

It is an extension of the existing Makani system of entrances, as the new addressing system has been developed to include all types of units within the buildings, whether they are residential units, shops, offices etc. The engineering data for the buildings have been prepared according to 3D standards consistent with the GeoDubai initiatives and the Digital Twin requirements of

the Emirate and its inclusion in the geographical database.

A distinctive code has been set for each unit, and then Makani boards have been installed for the units, preparing mobility data within the buildings. In addition to that, the Makani system currently used by the public has been updated to include units and their display directions and openings for movement within the buildings.

The new unit addressing system is considered one of the futuristic systems that will be used in all government services to access the location of units related to emergency services, statistical data and delivery services.

It is expected that in the future, there will be widespread uses of drones and self-driving vehicles in government, commercial and tourism services. This requires accurate address systems in terms of details of units within the buildings along with 3D databases with high accuracy, which will be provided through this integrated modern addressing initiative.

Unified Code

• Each Unit Code consists of six letters and numbers in the plate, which will look like: DMHQ01. This six-digit code will represent the address of the unit. This is an innovative and short code to facilitate the public to use them.

RTA celebrates 15th anniversary

The Roads and Transport Authority (RTA) Dubai celebrated its 15th anniversary on the 1st of November 2020, which also coincides with the 11th Public Transport Day. RTA's era is marked by huge successes and achievements that render it at par with the most prominent entities in Dubai and the world. It has implemented strategic plans for upgrading the infrastructure of roads, mass transit systems, pedestrian facilities and traffic safety. It has also constructed and operated a host of strategic projects for increasing road networks and public transport services.

His Excellency Mattar Mohammed Al Tayer, Director-General, Chairman of the Board of Executive Directors of RTA expressed thanks and appreciation to His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice-President, Prime Minister of the UAE and Ruler of Dubai; His Highness Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Dubai Crown Prince and Chairman of the Executive Council; and His Highness Sheikh Maktoum bin Mohammed bin Rashid Al Maktoum, Deputy Ruler of Dubai and Vice Chairman of the Executive Council, for their invaluable support and sustained patronage of RTA's projects. He noted that such support was critical for the successes of the RTA over the past years.

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Expo 2020 readiness

Al Tayer confirmed that RTA had accomplished most roads and transport construction projects listed under the master plan for hosting Dubai Expo 2020. "Last July, His Highness Sheikh Mohammed bin Rashid Al Maktoum officially inaugurated Route 2020 for extending the Red Line of Dubai Metro 15 km from the Jebel Ali Station to the site of Expo 2020.

Future Mobility

Al Tayer highlighted that the RTA is making every effort to keep abreast of the Government's future directions of transforming Dubai into a smart, innovative and sustainable city that uses cutting-edge telecommunication and digital technologies. In this regard, RTA is streaming ahead with the Dubai Self-Driving Transport Strategy aimed at converting 25% of total mobility journeys in Dubai to smart self-driving journeys by 2030.

New Vision

Al Tayer said that the RTA is proceeding ahead with the implementation of the best global practices and standards and adopting creative solutions that lead to the introduction of quality services and projects that match to the current needs and future challenges and at the same time sustain RTA's regional and global leadership.

"Such a drive requires fulfilling the needs of the Dubai Government, identifying the priorities of infrastructure projects ensuing from these plans and implementing transport policies and legislation for encouraging mass transit means. It also warrants sustained efforts towards migrating to smart technologies and services in collaboration with the concerned local and federal entities, besides broadening the scope of implementing traffic and modern transport technologies and systems," concluded Al Tayer.

