



AL

ISSUE 79
AUGUST 2021

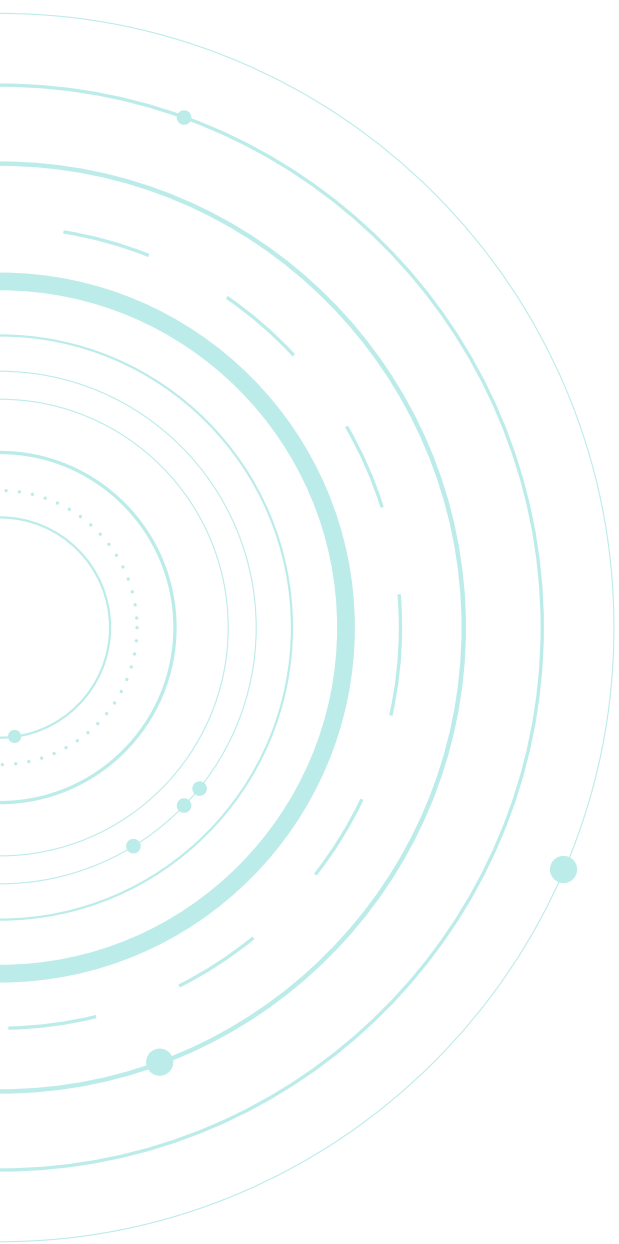
MASDAR



**"SUSTAINABILITY IS INGRAINED
IN EVERYTHING WE'VE BEEN
DOING - TO ESTABLISH A
LASTING LEGACY LONG AFTER
EXPO 2020 DUBAI IS OVER.."**

**HH SHEIKH AHMED BIN SAEED AL MAKTOUM,
CHAIRMAN OF DUBAI SUPREME COUNCIL OF ENERGY &
CHAIRMAN OF THE EXPO 2020 DUBAI HIGHER COMMITTEE**





With a positive outlook, you will see challenges as opportunities, the future full of success and people packed with potential, abilities, talent and goodness



HH Sheikh Mohammed bin Rashid Al Maktoum

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



MD & CEO MESSAGE

HE SAEED MOHAMMED AL TAYER

MD & CEO of Dubai Electricity &
Water Authority

WITH INNOVATION AND EXCELLENCE, WE OVERCOME ANY CHALLENGE

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.' Despite the challenges of the COVID-19 pandemic, the UAE was one of the first countries to react to it. One of the key indicators of the economic recovery in Dubai and the return of key activities in the Emirate is that DEWA has recorded a 9% increase in energy demand and a 2% increase in peak load from the beginning of 2021 to the end of July, compared to the same period in 2020. To meet the growing demand and keep pace with sustainable development needs in Dubai, we are expanding the Emirate's integrated electricity and water infrastructure to the highest standards of reliability, availability, and efficiency. This is done through specific and reliable planning processes that use the latest forecasting tools up to 2030. By end of July, DEWA's installed capacity has reached 13,200 megawatts (MW) of electricity and 490 million imperial gallons of desalinated water per day (MIGD). This equals a ten-fold increase in electricity and eight-fold increase in water compared to the 1990s.

DEWA's installed electricity capacity is expected to reach 13,717MW by end of this year with the addition of 517MW clean energy. This will increase DEWA's clean energy capacity to 1,827MW compared to 1,310MW currently. The clean energy share in Dubai's energy mix will increase to 13% by the end of 2021.

In May 2021, His Highness Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy and Chairman of the Expo 2020 Dubai Higher

Committee, inaugurated the Green Hydrogen project at the Mohammed bin Rashid Al Maktoum Solar Park in Dubai. This new milestone underlines Dubai's leadership in clean and renewable energy and its status as a development model based on adopting innovative ideas and using the latest and most efficient technologies. The project, which was implemented in collaboration between DEWA, Expo 2020 Dubai, and Siemens Energy, is the first of its kind in the Middle East and North Africa. The plant has been built to accommodate future applications and test platforms for the different uses of hydrogen, including potential mobility and industrial uses.

These projects are based on innovation, which we place at the top of our priorities to achieve government plans and strategies including the National Innovation Strategy to make the UAE one of the most innovative countries in the world. Therefore, we are embarking on a new phase that promotes innovation for individuals and businesses. It focuses on sectors that will lead innovation in the future, such as renewable and clean energy.

We will continue to make achievements with the help of Emiratis to continue the progress of its leadership and excellence to transform Dubai into the world's best city to live in, which is a key objective of the Dubai 2040 Urban Master Plan. This is guided by the vision and directives of the wise leadership to increase the competitiveness of Dubai and the UAE. We will make this year, which is the golden jubilee of the UAE's Union, a starting point for 50 more years of progress and prosperity so that the UAE becomes the world's leading nation by its Centennial in 2071.

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.

CONTENTS

COVER STORY

Interview with HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy, Chairman of the Expo 2020 Dubai Higher Committee9



MAIN STORY

Dubai inaugurates Green Hydrogen project at Mohammed bin Rashid Al Maktoum Solar Park11



FEATURE STORY

Over 83m people worldwide benefit from MBRGI's AED1.2b projects in 202014

ACHIEVEMENTS

DEWA raises the Hamdan bin Mohammed Program for Government Services Flag at its Head Office18

Dubai's electricity capacity reaches 13,200 MW, increasing tenfold compared to the 1990s20

AWARDS

MD & CEO of DEWA receives Shield of Honour from the Sheikha Latifa bint Mohammed Awards for Childhood Creativity24

INTERVIEWS

HE Mohammed Ibrahim Al Shaibani30
Director General of HH The Ruler's Court of Dubai and Chairman of City Readiness Committee to host Expo 2020 Dubai

HE Ahmed Buti Al Muhairbi32
Secretary General of the Supreme Council of Energy, Vice Chairman of the Executive Committee of the Emirates Energy Award

EVENTS

DEWA launches 'Let's Make This Summer Green 2021' campaign for customers to benefit from its smart solutions for energy conservation ..34

Dubai Supreme Council of Energy issues Directive No. 3 of 2021 on the regulation of LPG trading ..36

SPECIAL REPORT

DEWA's top achievements in POD Inclusion and Empowerment 202038

MoUs

DEWA signs MoU with Dubai Municipality to enhance cooperation in geolocation maps in Dubai42

DP World to expand energy efficiency collaboration with Etihad ESCO44

TIPS AND TRICKS

Engineering/Civil Doses & Tips from Transmission - Power Division46

AROUND THE WORLD

Key indicators: 2021 is the year of renewable energy worldwide50

LOCAL NEWS

Expo 2020 Dubai increases the number of economic licenses at Dubai South.....51

Dubai Municipality wins first place at International Architecture Award51



HH Sheikh Hamdan bin Mohammed witnesses agreement for operating self-driving vehicles52



Interview with
HH Sheikh Ahmed bin Saeed Al Maktoum,
Chairman of the Dubai Supreme Council of Energy,
Chairman of the Expo 2020 Dubai Higher Committee

1. 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 Your Highness, DEWA organises WETEX and Dubai Solar Show from 5 to 7 October 2021 at Expo 2020 Dubai. What is the importance of organising this exhibition at the site of Expo 2020 Dubai?

The forward-looking vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, has made Dubai a pioneering platform for hosting and organising major exhibitions and events. Dubai stands out for its state-of-the-art infrastructure and smart facilities in addition to its strategic location in the centre of the world. WETEX and Dubai Solar Show, which DEWA organises under

the directives of His Highness, has positioned itself as one of the largest specialised exhibitions worldwide. Organising the exhibition this year at the Expo 2020 Dubai site underlines the importance of sustainability which is one of the UAE's top priorities. This aligns with the efforts of Dubai and the UAE to host the most sustainable global exhibition. Sustainability is ingrained in everything we've been doing - from buildings and construction to establishing a lasting legacy long after Expo 2020 Dubai is over.

Expo 2020 Dubai, with its theme 'Connecting Minds, Creating the Future,' will provide a platform to encourage creativity, innovation, and collaboration in opportunities; mobility; and sustainability, as part of its sub-themes. These are also aligned with the objectives of WETEX and Dubai Solar Show, to enhance the sustainable production

and use of energy and accelerate the transition to clean and renewable energy sources, as well as support innovations that combat the global challenges and help people live prosperous, healthy and sustainable lives.

2. WETEX was launched in 1999. How do you see its achievements over 22 years?

Since its launch, WETEX has achieved significant results locally and globally and has become one of the largest and most important specialised exhibitions worldwide. During this period, it has kept pace with the major developments in Dubai's energy and water infrastructure as well as the transition towards clean and renewable energy. The continuous success achieved by WETEX and its expansion to include solar energy, underlines Dubai's leading position in the energy, sustainability

and water sectors. The exhibition underlines Dubai's efforts to increase the share of renewable energy as well as achieve environmental, social, and economic sustainability. This supports the Dubai Clean Energy Strategy 2050, which aims to make Dubai a global hub for clean energy and a green economy. WETEX also reflects DEWA's efforts to promote the transition towards using clean and renewable energy and its success in implementing major projects in collaboration with the private sector. I commend the major developments of WETEX and Dubai Solar Show year after year and its success in providing a platform that enables companies to showcase their innovative products and solutions to thousands of visitors and meet decision-makers and investors. This allows companies to enter the markets of the UAE and GCC in general, which are competitive markets that provide promising opportunities for investors from around the world, especially in light of the expansion in renewable and clean energy projects in the region and particularly in the UAE.

3. DEWA organised WETEX virtually last year. What do you expect this year's WETEX to achieve amid the recovery from COVID-19 across the country?

Thanks to the vision of the wise leadership, the UAE has become one of the first countries that entered the recovery phase from the COVID-19 pandemic; succeeding in turning challenges into promising opportunities. One example of this is DEWA's success in organising WETEX and Dubai Solar Show last year using a 3D virtual platform and attracting the largest number of visitors in its history.

With the return of economic activities and our readiness to receive the world at Expo 2020 Dubai, I expect WETEX and Dubai Solar Show will achieve greater success this year. Expo 2020 Dubai will be an exceptional event that will contribute to shaping the future. It will also be an outlet for countries to show what they are doing to champion sustainability and enjoy living in harmony with nature in a high-tech future. We trust that WETEX and Dubai Solar Show will be a globally leading platform highlighting the close connection between sustainability and the Fourth Industrial Revolution technologies.

4. Your Highness inaugurated the Green Hydrogen projects at the Mohammed bin Rashid Al Maktoum Solar Park in Dubai. How do you see the future of Green Hydrogen in the UAE?

All our projects are guided by the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum to turn challenges into opportunities and consolidate the UAE's leadership in different areas. Green Hydrogen is a key pillar for a sustainable future that enhances the transition towards a green economy. Green Hydrogen will accelerate the integration of renewable energy in the region. This paves the way for a more sustainable economy. Green Hydrogen will play a key role in the UAE's energy sector as part of the country's efforts to increase the share of clean and renewable energy as well as enhance the transition to a green economy.

The pilot project, which was implemented by DEWA, Expo 2020 Dubai, and Siemens, will contribute to developing the use of hydrogen as well as promote the efficiency of its production. As the UAE's solar energy projects have contributed to reducing its cost and DEWA received the lowest global solar energy prices for five consecutive times, I expect this project will contribute to reducing the cost of green hydrogen to be more competitive compared to other energy sources.

5. How do you see the future of green mobility in Dubai? Will green hydrogen accelerate this transition?

The Dubai Green Mobility Initiative 2030 aims to encourage sustainable transport, in line with the Emirate's strategic objectives in terms of sustainability, air quality, and reducing greenhouse gas emissions. Last year, at the Dubai Supreme Council of Energy, we updated the green mobility targets to increase the number of electric and hybrid vehicles in government organisations in Dubai. They are required to increase the percentage of hybrid and electric cars to at least 10% of their overall annual procurement of vehicles until the end of 2024. This percentage will increase to 20% from 2025 to the end of 2029 and 30% from 2030 onwards. The incentives launched by the Dubai Supreme Council of Energy, which DEWA is part of along with other government entities, encourages green mobility in Dubai. Until the end of May 2021, there were

3,100 electric vehicles and 9,300 hybrid vehicles in Dubai.

Objectives of the green hydrogen include developing the green mobility sector, and reducing carbon emissions in the transport sector, which is the second-highest contributor of greenhouse gas emissions in Dubai. This supports the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum to make Dubai the smartest and happiest city in the world and consolidate its position as a global hub for green economy and sustainable development. Last March, the UAE Cabinet, chaired by His Highness Sheikh Mohammed bin Rashid Al Maktoum approved a UAE system for hydrogen fuel-powered vehicles, which aims to develop the Green Hydrogen economy in the UAE, open local markets to hydrogen-powered vehicles and encourage an increase in environment-friendly vehicles.

6. The Dubai Clean Energy Strategy 2050 aims to provide 75% of Dubai's total power capacity from clean energy sources by 2050. How do you evaluate the share of clean energy in the Emirate's economy?

Renewable energy is one of the key pillars for sustainability. This marks it at the forefront of the strategic priorities of the UAE, which is leading proactive efforts to adopt the latest innovations that combat climate change and reduce global warming. The 'Post-COVID recovery: An agenda for resilience, development and equality' report issued by the International Renewable Energy Agency (IRENA) last year, show that every USD million invested in renewables would create three times more jobs than in fossil fuels.

Dubai has made significant achievements in the transition to the clean and renewable energy sector in collaboration with the private sector. One of the key clean energy projects in the Emirate is the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park implemented by DEWA. Through this project, DEWA has attracted about AED 40 billion investments and received the lowest global solar power prices five times in a row, making Dubai a global benchmark for solar power prices. Dubai will continue its leadership in developing the renewable and clean energy sector as well as enhance the transition to a green economy to achieve sustainable development.

MAIN STORY



Dubai inaugurates Green Hydrogen project at Mohammed bin Rashid Al Maktoum Solar Park

First-of-its-kind project in the MENA region was developed in collaboration with DEWA, Expo 2020 Dubai and Siemens Energy

His Highness Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy and Chairman of the Expo 2020 Dubai Higher Committee, inaugurated the Green Hydrogen project at the Mohammed bin Rashid Al Maktoum Solar Park in Dubai, marking a new achievement for the Emirate as a leader in renewable energy.

Commenting on the occasion, His Highness Sheikh Ahmed said: "The launch of pioneering initiatives in the fields of development is driven by the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, which seeks to strengthen the UAE's leadership across various fields. These initiatives seek to

ensure people's happiness and wellbeing and provide solutions to challenges that may hinder our development journey."

Sheikh Zayed bin Sultan bin Khalifa Al Nahyan, Chairman of His Highness Sheikh Sultan Bin Khalifa Al Nahyan Humanitarian & Scientific Foundation; His Excellency Dr. Sultan bin Ahmad Sultan Al Jaber, Minister of Industry and Advanced Technology and UAE Special Envoy for Climate Change; His Excellency Suhail bin Mohammed Faraj Faris Al Mazrouei, Minister of Energy and Infrastructure; His Excellency Dr Abdullah Belhaif Al Nuaimi, Minister of Climate Change and Environment; Her Excellency Reem bint Ibrahim Al Hashemy, Minister of State for International Cooperation, and Director

General Expo 2020 Dubai; His Excellency Saeed Mohammed Al Tayer, MD & CEO of DEWA; Dr. Christian Bruch, President and CEO of Siemens Energy, and officials from the public and private sectors attended the inauguration event.

The project, implemented in collaboration with DEWA, Expo 2020 Dubai and Siemens Energy, is the first solar-driven green hydrogen producing facility in the MENA region.

In his keynote speech, HE Saeed Mohammed Al Tayer said: "This pioneering project is part of our efforts to realise the vision 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, which aims to promote sustainability, innovation and shift towards a sustainable green economy.”

Al Tayer said that 2021 has witnessed important developments in the hydrogen sector. His Highness Sheikh Mohammed bin Rashid Al Maktoum

recently approved a UAE system for hydrogen fuel-powered vehicles, which aims to develop the Green Hydrogen economy in the UAE, open local markets to hydrogen-powered vehicles and encourage an increase in environment-friendly vehicles. The system is the cornerstone for encouraging the use and licensing of vehicles, facilities and equipment related to hydrogen fuel and will contribute to achieving sustainable growth that balances the environmental, economic and social

aspects. This project to produce hydrogen using solar power also supports the Dubai Clean Energy Strategy 2050, to provide 75% of Dubai’s total power capacity from clean energy sources by 2050 as well as the Dubai Green Mobility 2030 initiative, which aims to stimulate the use of sustainable transport.

“In Dubai, we have a clear direction for the energy sector. It includes expanding the use of clean energy and employing



digital transformation, smart grids, the tools of the Fourth Industrial Revolution and disruptive technologies, for their impact on the energy and water sectors, Al Tayer added.

Al Tayer explained that with this pilot plant, DEWA aims to demonstrate the production of green hydrogen from solar power, storage and re-electrification. This is a system that allows for buffering renewable energy production, both for fast response applications, as well as for long-term storage. The plant has been built to accommodate future applications and test platforms for the different uses of hydrogen, including potential mobility and industrial uses. DEWA has already explored and developed a pilot project for green mobility using hydrogen that can be executed in the near future, in addition to a number of studies, business strategies and a potential roadmap for hydrogen usage. DEWA is building expertise, experience and capabilities to contribute in shaping the clean hydrogen future of the UAE.

HE Dr. Sultan bin Ahmad Sultan Al Jaber said that being an early adopter of a hydrogen economy will be instrumental in achieving sustainable

economic growth in the UAE. “The Green Hydrogen Project represents a major step forward in this direction and will greatly accelerate our production of renewable and clean energy sources and contribute to our on-going climate action efforts.”

Al Jaber added that increasing investments into research and development into the capture, storage and production of green hydrogen will greatly enhance national efforts to reduce the impact of climate change on a local, regional and international level.”

“The UAE’s sustainability efforts have benefitted greatly from the bold vision of the nation’s leadership which has always encouraged close collaboration between local and federal entities, and the public and private sector. The cabinet’s approval of the UAE’s hydrogen vehicle system, in March - a project proposed by the Ministry of Industry and Advanced Technology - exemplified how the government is promoting a culture of conservation by striving to strike a balance between economic growth and environmental protection,” he said.

“The UAE is one of the leading countries globally in renewable energy,” said HE

Suhail bin Mohammed Faraj Faris Al Mazrouei. “The country has adopted state-of-the-art innovations to drive sustainable development and protect the environment. These innovations are key to combat climate change and mitigate global warming,” he added, noting that the UAE is one of the first countries that ratified the Paris Agreement for climate change.

HE Dr Abdullah Belhaif Al Nuaimi said: “Advancing the energy transition is a strategic priority for the UAE in line with its commitment to developing the green economy and tackling climate change. Innovative green hydrogen solutions are a key driver of the diversification of energy sources and increasing reliance on clean power.”

HE Reem bint Ibrahim Al Hashemy said: “The Green Hydrogen Project is leading by example, showing how technology and collaboration can help build a cleaner, safer and healthier future for everyone. It epitomises the shared desire of Expo 2020 Dubai, DEWA, our Official Sustainable Energy Partner and Siemens Energy to develop a global culture of innovation and deploy life-changing ideas and technologies around sustainability.”

Mohammed Bin Rashid Al Maktoum Global Initiatives



Over 83m people worldwide benefit from MBRGI's AED1.2b projects in 2020

More than 83 million people in 82 countries benefited from Mohammed bin Rashid Al Maktoum Global Initiatives' (MBRGI) humanitarian and social projects in 2020, the foundation's annual report has revealed.

Amid the outbreak of COVID-19 in early 2020, MBRGI, the region's largest philanthropic foundation, carried out AED1.2 billion worth of humanitarian, social and developmental projects to aid the vulnerable and empower disadvantaged communities in the face of the biggest health crisis of the century.

His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai announced the Year in Review 2020 in a special event, held at

The Union House in Dubai, to highlight the far-reaching influence of MBRGI's initiatives and activities during 2020.

HH Sheikh Mohammed bin Rashid Al Maktoum said, "The global COVID-19 pandemic demonstrated that strategic and sustainable humanitarian work is the best way to serve people in times of crisis. Despite the obstacles caused by the COVID-19 pandemic, our projects and initiatives rose to the challenge and, in line with our expectations and ambitions, touched over 83 million lives in 82 countries. Besides its influential economic and political role, the UAE is also a humanitarian entity and a beacon of hope in the region."

During the event, Sheikh Mohammed bin Rashid Al Maktoum reviewed the key achievements of MBRGI's 35 entities

in 2020. He also reviewed the latest campaigns, programmes and initiatives that were launched in response to the COVID-19 pandemic.

His Highness praised the pivotal role played by the International Humanitarian City (IHC) in Dubai as a hub for transporting urgent aid, medical supplies and essential food items to various parts of the world in collaboration with UN agencies and non-governmental organisations. Through its efforts, the IHC helped place the UAE at the forefront of urgent relief work during the first waves of the COVID-19 pandemic.

Sheikh Mohammed bin Rashid Al Maktoum also reviewed The Digital School initiative – a first-of-its-kind educational technology (ed-tech) in the Arab world. The School was launched by

MBRGI in November 2020 to provide millions of students around the world with access to world-class education, using smart technologies to address the global educational disruption caused by COVID-19.

During the event, Sheikh Mohammed bin Rashid Al Maktoum honoured major contributors and donors to the '100 Million Meals' campaign, the region's biggest food drive, launched to provide food aid to disadvantaged communities in 30 countries across the four continents of the Middle East, Asia, Africa, Europe and South America during the holy month of Ramadan.

The key contributors, recognised for their pioneering role in supporting the campaign to achieve its goals of raising AED100 million in just 10 days from its launch, were Mohammed bin Rashid Al Maktoum Humanitarian and Charity Establishment (MBRCH), Dubai Electricity and Water Authority (DEWA), the Roads and Transport Authority in Dubai (RTA), Dar Al Bar Society, Al Rostamani Group, Emirates Islamic Bank, Etisalat, Emirates Auctions, and Dr. Abdulkader Al Sankari and his sons.

His Highness Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Vice Chairman of the Board of Trustees of MBRGI, said, "The MBRGI extended a helping hand from the UAE to the rest of the world. Its ongoing efforts have affirmed that what others may see as a challenge, the Foundation sees as an opportunity to achieve more, improve people's lives and build stable societies."

Mohammad Al Gergawi, Minister of Cabinet Affairs and Secretary-General of MBRGI, said, "The year 2020 was exceptional by all standards in the major challenges that emerged due to the COVID-19 pandemic. In return, it was met with a wave of innovation in creating hope, which is the only investment with guaranteed returns."

Al Gergawi noted that MBRGI is a major pillar of the UAE's humanitarian, relief, social and humanitarian work, following the country's vision to institutionalise philanthropy.

Despite the logistical and technical obstacles posed globally by the COVID-19 pandemic in 2020, MBRGI reached more beneficiaries than in previous



years. MBRGI spent AED 1.2 billion on the projects, programmes and campaigns under its umbrella, touching over 83 million people across 82 countries, compared to 71 million beneficiaries in 2019. In 2020, 576 employees joined hands with 121,676 volunteers working

in beneficiary countries with varying areas of expertise to carry out various humanitarian and developmental programmes and projects.

The MBRGI's 35 entities implement hundreds of initiatives, campaigns



and projects across five main pillars: Humanitarian Aid & Relief, Healthcare & Disease Control, Spreading Education & Knowledge, Innovation & Entrepreneurship, and Empowering Communities.

The MBRGI carried out Humanitarian Aid & Relief programmes and projects worth AED382 million in 2020 – an increase of AED120 million from 2019, when it offered AED262 million aid projects. The number of beneficiaries of Humanitarian Aid and Relief programmes doubled, reaching 34.8 million people in 2020, compared to 17 million in 2019.

Under the umbrella of MBRGI, the Humanitarian Aid and Relief pillar includes the International Humanitarian City, the UAE Food Bank, the Mohammed bin Rashid Humanitarian and Charity Establishment (MBRCH), the UAE Water Aid Foundation (Suqia UAE), and the Mohammed bin Rashid Global Centre for Endowment Consultancy.

Under the Humanitarian Aid and Relief pillar, the '10 Million Meals' campaign, the largest community campaign of its kind, launched in Ramadan 2020, provided the equivalent of 15.3 million meals to COVID-19-hit individuals and families across the UAE, with the help of 130,000 donors and 1,000 volunteers.

The World's Tallest Donation Box initiative was launched to support the '10 Million Meals' campaign to

encourage people across the UAE to donate as little as AED10 to provide one meal for those in need. For every AED 10 donated, one pixel on Burj Khalifa was lit, gradually illuminating the 1.2 million lights on the facade of the world's tallest building, one at a time, in a message of hope and solidarity to the world amid the global pandemic.

Within one week, the World's Tallest Donation Box raised AED12 million, equivalent to 1.2 million meals, from 8,500 donors from 111 nationalities.

The UAE Food Bank distributed 9,086 tonnes of food during 2020 to provide a safety net for those most impacted by the COVID-19 pandemic across the UAE. It also organised an awareness campaign for 250,000 labourers to raise awareness of the importance of food safety and hygiene at a time of a public health crisis.

The MBRCH's programmes and initiatives reached 2.1 million people across Kazakhstan, Tajikistan, Pakistan, Kyrgyzstan, Afghanistan, Bangladesh, Benin, Senegal, Uganda, and Ghana in 2020.

The IHC, which hosts a community of 80 members from UN organisations, non-profits and non-governmental organisations, airlifted urgent aid supplies that supported more than 1.1 million people affected by COVID-19 and natural disasters in 2020. Suqia

UAE implemented 38 water projects in 2020 that benefitted 182,000 people.

The Mohammed bin Rashid International Centre for Endowment Consultancy launched the AED23 million National Endowment Project to combat COVID-19 in 2020.

Spending on Healthcare and Disease Control programmes and projects amounted to AED49.6 million in 2020, benefitting 38,000 people. The Healthcare and Disease Control pillar comprises Al Jalila Foundation, dedicated to transforming lives through medical innovation, and Noor Dubai, which works to improve the level of healthcare systems to create a world free from avoidable causes of blindness.

MBRGI invested in AED265 million worth of programmes, initiatives and projects in the Spreading Education and Knowledge pillar, benefitting 45.5 million people in 2020.

The Spreading Education and Knowledge pillar comprises: Dubai Cares, the Mohammed bin Rashid Al Maktoum Library Foundation, the Mohammed bin Rashid Al Maktoum Knowledge Foundation (MBRF), the Knowledge Summit, the Mohammed bin Rashid Al Maktoum Knowledge Award, and the Mohammed bin Rashid Arabic Language Award, the Arab Reading Challenge, the Madrasa e-Learning Platform, and the Digital School.

DEWA completes 92% of the AED 23.1 million water pumping station at Mohammed bin Rashid Al Maktoum Solar Park

DEWA has completed 92% of the Water Pumping Station project at the Mohammed bin Rashid Al Maktoum Solar Park. The project includes two phases: the first with a capacity of 4.5 million imperial gallons of water per day (MIGD) and the second with a capacity of 3 MIGD.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, said that the 7.5 MIGD pumping station at the Mohammed bin Rashid Al Maktoum Solar Park uses the latest world-class technologies as well as energy efficiency. The station is completed and connected to Dubai's

water network by the end of June 2021. The total cost of the project is AED 23.1 million.

Al Tayer emphasised that DEWA continues to develop the water network across all areas of Dubai through water production, transmission, and distribution projects according to the highest standards of availability, reliability, and efficiency. This is to meet the rapid growth and keep up with the growing demand for water in all areas of the Emirate through specific and reliable planning processes that are based on the latest foresight tools. Electricity and

water infrastructure expansion plans are developed based on demand forecast in Dubai until 2030.

Abdullah Obaidullah, Executive Vice President of Water & Civil at DEWA, said that the pumping station aims to meet the water demand of the different facilities and buildings at the Mohammed bin Rashid Al Maktoum Solar Park and nearby areas. He also noted that the station will use clean energy from the solar park and can be operated remotely through the Supervisory Control and Data Acquisition (SCADA) system.

DEWA's Distribution Power Division Complex receives LEED Platinum Rating

DEWA's Distribution Power Division Complex in Al Ruwayyah has received the Platinum Rating for green buildings from Leadership in Energy and Environmental

Design (LEED v4) awarded by the US Green Building Council (USGBC), achieving 86 points. This is a new global recognition of DEWA's success in

implementing the highest international standards in green buildings.

"We are committed to the highest standards of sustainability and efficiency in all our projects and initiatives. The Distribution Power Division Complex receiving the Platinum Rating for green buildings from LEED highlights DEWA's sustainability efforts. This supports the Dubai 2040 Urban Master Plan, launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, which outlines an integrated roadmap for urban development based on sustainable development, to make Dubai the world's best place to live. It also supports the Dubai Demand Side Management Strategy, which aims to reduce 30% of electricity and water consumption by 2030, as well as DEWA's vision to become a globally leading sustainable innovative corporation," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.



DEWA raises the Hamdan bin Mohammed Program for Government Services Flag at its Head Office

HE Saeed Mohammed Al Tayar, MD & CEO of DEWA, and HE Abdulla Mohammed Al Basti, Secretary-General of the Executive Council of Dubai, raised the Hamdan bin Mohammed Program for Government Services Flag at DEWA's Head Office. DEWA's Executive Vice Presidents were also in attendance during the ceremony.

HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, recently presented the Flag to DEWA for winning the Best Government Initiative award for its 'Smart Living' initiative. This took place at the Hamdan Hub 2020 event organised by Dubai Model Centre, a subsidiary of the General Secretariat of the Executive Council of Dubai.

Al Tayar emphasised that winning the Hamdan bin Mohammed Program for Government Services Flag crowns DEWA's innovation efforts and its commitment to improving its services according to the highest standards of efficiency, effectiveness, and sustainability. This achieves customer happiness and exceeds their expectations, aligning with the wise

leadership's vision and directives to continue developing government work. Al Tayar commended Dubai Model Centre's efforts to improve government performance, and enhance the readiness of government organisations to identify priorities and continue improving their services according to the highest international standards.

Al Tayar noted that the Smart Living initiative supports the UAE's efforts to achieve the UN Sustainable Development Goals (SDGs) 2030, especially Goal 7: 'Affordable and Clean Energy' and Goal 12: 'Responsible Consumption and Production.' It also aligns with the Dubai Demand Side Management Strategy 2030, which aims to reduce 30% of energy and water consumption by 2030. Over five years, the initiative will save 179.5 million kilowatt-hours of electricity and 67.7 million gallons of water. This is equivalent to saving AED 52.6 for customers and reducing 15,643 tonnes of CO2 emissions annually.

HE Abdullah Al-Basti, Secretary-General of the Executive Council of Dubai, affirmed that the Flag of the Hamdan bin Mohammed Program for Government Services places responsibility on

the winning governmental entity to ensure continuity of service excellence and provide pioneering initiatives that guarantee customer happiness, stemming from the vision of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and the directives of HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai. Al-Basti mentioned that DEWA was worthy of winning the Flag after passing a rigorous evaluation process by a jury of international experts and praised the efforts of the dedicated teams and the goals of the initiative that are driving the UAE's sustainable development agenda.

DEWA's Smart Living initiative was selected as the best government initiative based on customers' votes and evaluations by key committees. Among 50 initiatives submitted by 28 government entities, eight were shortlisted to compete for the coveted Flag. Customers and stakeholders were involved in redesigning the service and its provision mechanism in 18 workshops, as part of DEWA's annual Services Hackathon.



DEWA inaugurates 6 transmission substations from January to April 2021

DEWA has inaugurated six electricity transmission substations with a total investment of over AED 1.1 billion from the beginning of 2021 to 30 April 2021. This is part of its efforts to provide electricity and water services according to the highest standards of availability, reliability, and efficiency. The substations include a 400 kilovolt (kV) substation at the Mohammed bin Rashid Al Maktoum

Solar Park with a conversion capacity of 2,020 megavolt-amperes (MVA) and five 132 kV substations across several areas in Dubai with a conversion capacity of 750 MVA. These stations supply the neighbourhoods of Al Satwa; Palm Deira; Jebel Ali Industrial Zone; and Umm Al Daman.

Completing those stations required

some 10.6 million safe working hours despite the COVID-19 pandemic during the final stages of implementation. The substations were constructed with state-of-the-art technologies used globally in constructing substations to ensure the highest safety and security standards. This protects the health of DEWA staff as well as society.





Dubai's electricity capacity reaches 13,200 MW, increasing tenfold compared to the 1990s

DEWA's installed capacity has reached 13,200 megawatts (MW) of electricity and 490 million imperial gallons of desalinated water per day (MIGD) thanks to its state-of-the-art infrastructure, innovation and planning. This is in line with DEWA's efforts to keep pace with increasing demand for electricity and water, as well as Dubai's ambitious urban and economic plans.

In comparison with the 1990s, which witnessed the merger of the Dubai Electricity Company and the Dubai Water Department and the establishment of DEWA, the installed capacity of electricity was about 1,200 MW and water was 60 MIGD. This means DEWA's production capacity today has increased more than 10 times for electricity and more than 8 times for water.

"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 reliability, availability, and efficiency. This meets the growing demand and keeps pace with Dubai's future sustainable development needs through specific and reliable planning processes that are based on the latest foresight tools. Electricity infrastructure expansion plans are developed based on demand forecast in Dubai until 2030, considering the demographic and economic growth in the Emirate. Despite the challenges posed by the Covid-19 pandemic on the global economy, Dubai continues to grow and develop; consolidating its position as an attractive environment for global investments," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

DEWA achieved a new world record in reducing Customer Minutes Lost (CML) for electricity per year. DEWA recorded 1.66 minutes in Dubai, compared to around 15 minutes recorded by leading electricity companies in the European Union. The UAE, represented by DEWA, has maintained its first global ranking, for the third consecutive year, with scores of 100% in all Getting Electricity indicators in the World Bank's Doing Business 2020 report. The report measures the ease of doing business in 190 economies around the world.



DEWA commissions 438 11kV substations in first 4 months of 2021

DEWA has commissioned 438 11kV substations in Dubai in the first 4 months of 2021. This is part of its efforts to deliver a state-of-the-art infrastructure to meet growing demand. These stations are at Dubai Marina, Umm Nahad 3, Al Yafra 2, and Al Qusais Industrial Area 5.

The construction of these stations resulted in more than 221,000 safe working hours without injuries, thanks to the precautionary measures recommended by the authorities in the UAE and the Government of Dubai to contain the outbreak of COVID-19. DEWA adopts the highest efficiency, quality, and safety standards as well as the latest tools to anticipate the future. It also uses the best smart and

digital technologies in all its operations and services.

"At DEWA, we work to achieve 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 expand the advanced infrastructure and facilities of Dubai to meet the highest international standards. This meets growing demand for electricity and water in the Emirate and sustainable development in Dubai. DEWA's state-of-the-art infrastructure, adopting Fourth Industrial Revolution technologies, and disruptive technologies such as Artificial Intelligence (AI), Unmanned Aerial Vehicles (UAVs), Energy Storage, Blockchain, Internet of

Things (IoT), and others have helped DEWA preserve its gains and achieve new accomplishments despite the extraordinary circumstances around the world," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

Rashid Bin Humaidan, Executive Vice President of Distribution Power at DEWA, said that there are now 83 33kV substations in service, and 41,033 11kV substations. DEWA continues its hard work to maintain business as usual, whilst applying all the protocols to manage COVID-19, to ensure electricity and water supplies. This is in accordance with DEWA's availability, accountability, and reliability standards without harming the health and safety of its stakeholders.

Dubai Supreme Council of Energy announces savings of 5.4 TWh of electricity and 9.9 billion gallons of water in its 2020 report on DSM Strategy

In its annual report on the results of the Dubai Demand Side Management Strategy 2030, the Dubai Supreme Council of Energy has announced that Dubai achieved savings of 11.8% in electricity consumption and 7.9% in water in 2020, compared to normal consumption. This is equivalent to saving 5.4 terawatt hours (TWh) of electricity and 9.9 billion imperial gallons of water. These are equivalent to reducing 11.5 million metric tonnes of CO2 emissions or taking 1.2 million vehicles out of Dubai roads for two full years.

According to the report, the per capita level in Dubai continues to witness a consistent decrease in consumption, with an overall reduction of 23% for electricity and 21% for water since 2010. This reflects the strong performance and progress achieved in the Demand Side Management Strategy 2030 over the past years.

"In line 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 green economy, we move forward with implementing the Dubai Clean Energy Strategy 2050 to provide

75% of Dubai's total power capacity from clean energy sources by 2050; and the Demand Side Management Strategy 2030 to reduce 30% of electricity and water demand by 2030. This contributes to making Dubai a globally leading hub in demand-side management. These significant savings were achieved through enhancing collaboration and partnerships with key players in the energy and water sectors from pioneering public and private entities," said HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy.

Al Tayer said that the Strategy aims to implement seven mechanisms, namely Policies & Regulations; Data & Measurement and Verification (M&V); Government Support & Leadership; Communication & Engagement; Financing; DEWA Collaboration and Technologies & Innovation. The Strategy also aims at aligning with the scope of the respective charters, roadmaps and targets for each of the Demand Side Management Programmes and Implementing Mechanisms as per the Dubai Demand Side Management Strategy 2030 Update and monitoring and taking action to achieve or exceed the 30% savings target by 2030.

DEWA receives patent for its 'Smart Fire Warning for Low Voltage Electrical Panels'

DEWA has received a patent for its 'Smart Fire Warning for Low Voltage Electrical Panels,' a new addition to its track record of achievements and innovations. The device detects fires or their risks, and identifies causes, especially in connection points for electrical conductors and cables. The use of this invention avoids carbon dioxide emissions, power supply interruption, employee accidents or equipment destruction. The patent was granted to DEWA in Austria.

The new device supports DEWA's efforts to achieve the highest health and safety

standards in its different operations, as part of its responsibilities towards its staff, customers and society at large. These efforts have been crowned with receiving the National Fire Protection Association Life Safety Code (NFPA 101) from the international safety organisation UL in 2020. DEWA was the first utility in the Middle East to receive this global recognition. DEWA was awarded the Sword of Honour for Health and Safety for the 13th time by the British Safety Council. In 2019, it won the Best Business Awards in the Health and Safety category, which is one of the most prestigious awards in the UK.

DEWA records a 291 MW drop in electricity consumption in Dubai and avoids 118 tonnes of carbon emissions during Earth Hour 2021

For the 14th consecutive year, Dubai has achieved significant results in reducing electricity consumption during Earth Hour 2021, with a 291 megawatts reduction, and avoided 118 tonnes of carbon emissions during this global environmental event.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, thanked and praised all customers and society members for taking part in the global Earth Hour initiative. Every year, DEWA organises the Earth Hour 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 the patronage of HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai. The

event was held in cooperation with the Dubai Supreme Council of Energy and Emirates Nature, in association with World Wide Fund for Nature. HE Al Tayer noted that this positive response reflects the high level of awareness about the severity of carbon emissions, and the need for a unified action to reduce consumption rates, end the waste of resources, and adopt a conscious and sustainable lifestyle as a daily practice.

DEWA launched an integrated campaign with government entities, educational institutions, hotels and factories to support Earth Hour. DEWA also organised a series of virtual lectures and competitions that targeted more than 12,000 students, several public and private organisations, sport and tourist facilities, and major malls.

DEWA coordinated with developers at more than 400 sites across Dubai to encourage community residents to switch off their lights for 60 minutes during Earth Hour.

Earth Hour – Dubai has achieved cumulative savings up to 3.12 gigawatt-hours (GWh) since its launch in 2008 and until 2021. This contributed to avoiding about 1,607 tonnes of carbon emissions. DEWA's efforts have resulted in significant savings over the past years. The conservation programmes and initiatives launched by DEWA have achieved cumulative savings of 2.44 terrawatt-hours (TWh) of electricity and 6.7 billion gallons of water between 2011 and 2020. This is equivalent to saving AED 1.35 billion and reducing 1.22 million tonnes of carbon emissions.

291
MW OF
ELECTRICITY SAVED

118
TONNES OF CARBON
EMISSIONS REDUCTION





MD & CEO of DEWA receives **Shield of Honour** from the Sheikhha Latifa bint Mohammed Awards for Childhood Creativity

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA received a Shield of Honour from the Sheikhha Latifa bint Mohammed Awards for Childhood Creativity, launched by Dubai's Women Association. This is in recognition of DEWA's support as a strategic sponsor. Al Tayer received a high-level delegation chaired by HE Amina Al Dabbous Al Suwaidi, Executive Director of the Sheikhha Latifa bint Mohammed Awards for Childhood Creativity. Zeinab Mousa, Public Relations Coordinator of the Award, attended the meeting at DEWA's head office.



DEWA wins **Best Business Award** in the Best Customer Focus category for Hab-Reeh Interactive Web Service

DEWA has won the Best Business Award, one of the UK's highest-profile awards. DEWA won in the Best Customer Focus category for its Hab-Reeh Web Service, a smart interactive platform for self-assessment of photovoltaic solar-system designs. This is part of the Shams Dubai initiative, launched by DEWA to encourage building owners to install solar photovoltaic rooftop energy systems and connect them to DEWA's grid.

The jury congratulated DEWA for winning the award, commending its

success in automating the assessment and approval of solar photovoltaic rooftop energy systems. This speeds up the installation of solar systems and makes it easier. The jury said that applying the best international standards to measure and monitor customer happiness ensures DEWA's constant improvement of its services. The jury highlighted that the satisfaction level of contractors and consultants towards Hab-Reeh surpassed 94% in 2020, which underlines DEWA's efforts in providing innovative services that exceed customer expectations.



DEWA wins **UAE Ideas Award** for Innovation and Promoting Business

DEWA has received the UAE Ideas Award for innovation and promoting business, in recognition of its deployment of special double T-Connectors to support faster restoration of electricity during emergencies. DEWA was honoured at the 9th UAE Ideas Conference & Award, which was organised virtually by Dubai Quality Group. The conference was held under the patronage of HH Sheikh Ahmed bin Saeed Al Maktoum, President of Dubai Civil Aviation Authority, Chairman of Dubai Airports, Chairman and Chief Executive of the Emirates Airline & Group and Honorary Patron of Dubai Quality Group.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, expressed his

happiness at this award, highlighting Dubai Quality Group's efforts to promote and consolidate a culture of innovation and its capability to overcome challenges. This helps it maintain its position as a creative Emirati platform that develops and encourages corporate excellence and quality practices.

DEWA's proactive measures, which have been in effect since 2009, significantly reduced the number of emergency cases. The PAS 60518:2020 Enterprise Risk & Resilience Management standard for the utility sector, developed by DEWA in collaboration with the British Standards Institute (BSI), consolidated DEWA's leading position among global utilities.

DEWA wins **Outstanding Innovation Award** from Global Business Excellence Awards 2021 for Smart Living initiative

DEWA has won a Global Business Excellence Award for Outstanding Innovation from Awards Intelligence in the UK. DEWA won the award for its Smart Living initiative, which it launched to help customers adopt a sustainable lifestyle, digitally and proactively monitor their water and electricity usage, and resolve any issues causing excessive waste without having to contact DEWA.

The jury praised the transparency of the Smart Living initiative for showing usage of electricity and water, which helps customers to manage how much they use and conserve natural resources. The jury noted that the initiative has several advantages. It provides customers with clear information clearly detailed on their bills. It helps them monitor monthly, daily, and weekly usage, and compare their use of electricity and water with neighbouring homes. Clients receive warnings when their usage becomes unusually high, tips on how to conserve resources, and discounts on energy saving devices.



DEWA receives ISO 21500:2012 certificate for Project Management

DEWA has received the ISO 21500:2012 certificate for Project Management after a rigorous audit by British Standards (BSI) on DEWA's compliance with best practices. The certificate also ensures standardisation and development of project management in a way that reduces costs, improves efficiency and quality of DEWA's projects and operations, and ensures that all DEWA divisions apply the highest international standards for project management.



DEWA wins two awards at the ICMG Global Enterprise and Digital Architecture Excellence Awards 2020

DEWA's virtual AI employee Rammas has won two awards at the ICMG Global Enterprise and Digital Architecture Excellence Awards 2020 in the categories of Digital IT - AI Enabled Solution 2020 and Best Digital Architecture in Support Function. Rammas provides multiple services by

DEWA and answers enquiries in English and Arabic. It is available round the clock on DEWA's smart app and website, as well as its Facebook page, Amazon's Alexa, Google Home, robots, and WhatsApp Business platform on 04 601 9999. Rammas answered more than 4.5 million enquiries since its inception in January

2017 until the end of February 2021, including 248,000 responses through WhatsApp. It completed more than 6,000 bill payment transactions during the same period. DEWA also won the AI Breakthrough Awards 2020 in the Transactional Robotics Innovation category for Rammas.



WHEREVER YOU ARE, AN EV GREEN CHARGER IS CLOSE TO YOU

Register for a free EV Green Charger card & charge your vehicle for free till 31st December 2021*
Download DEWA's smart app or visit: www.dewa.gov.ae



More than 300 EV Green
Chargers across Dubai

*Not applicable for commercial users



customer care@dewa.gov.ae | www.dewa.gov.ae



Our Vision
A globally leading sustainable innovative corporation
P.O. Box 564, Dubai, United Arab Emirates
T: +971 4 601 9999



MD&CEO of DEWA receives high-level delegation from Siemens Energy

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, received a high-level delegation from Siemens Energy. The delegation included Dr. Christian Bruch, President and CEO of Siemens Energy; and Dietmar Siersdorfer, Managing Director of Siemens Energy Middle East. This supports DEWA's efforts to enhance partnerships and exchange best practices and experiences with major global companies. The meeting was attended by Waleed Salman, Executive Vice President of Business Development and Excellence at DEWA.

Al Tayer said that DEWA strives to achieve the vision of the UAE's wise leadership to anticipate the future, and develop long-term proactive plans to keep pace with the Fourth Industrial Revolution and innovate disruptive technologies that contribute to providing world-class services that enhance the quality of life in Dubai.



Polish delegation visits DEWA

As part of DEWA meetings with diplomats to foster bilateral relations and cooperation, and exchange knowledge, HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, welcomed HE Jakub Sławek, Chargé d'Affaires at the Embassy of the Republic of Poland in the UAE, and Paweł Mączka, Third Secretary at the Polish Embassy. Al Tayer discussed future cooperation with Polish companies specialised in the renewable and clean energy and water.



HE Saeed Mohammed Al Tayer emphasises that Dubai has a comprehensive approach to ensure sustainability of water resources

HE Saeed Mohammed Al Tayer, MD and CEO of Dubai Electricity and Water Authority (DEWA), has emphasised that Dubai has a comprehensive approach to ensure the sustainability of water resources in line with the Dubai Integrated Water Resource Management Strategy 2030, which focuses on enhancing water resources, rationalising water consumption, and using cutting-edge technologies and innovative solutions. Al Tayer made these comments in his keynote speech at the 10th international symposium of the Honourable Hadith organised virtually by Al Wasl University under the theme 'Water Security in the Prophet's Sunnah: Strategies and Objectives.' It was organised under the patronage of HE Juma Al Majid, Chairman of the Board of Trustees, Al Wasl University, and was attended by Dr. Mohamed Ahmed Abdel Rahman,

Vice Chancellor, Al Wasl University, researchers, specialists, and the university's professors and students.

Al Tayer said that water is the basis of life. Allah Almighty says in the Holy Quran, "We made from water every living thing. Prophet Mohammed, Peace Be Upon Him, urged us to rationalise the use of water and to give it to the needy to be rewarded by Allah".

Al Tayer explained that DEWA adopts three pillars to ensure the sustainability of water production. These are based on using clean solar power to desalinate seawater using Reverse Osmosis (RO) technologies, which uses less energy. Excess water is stored in aquifers and pumped back into the water network when needed. This integrated innovative model protects the environment and is a sustainable economic solution.

It also emphasises Dubai's ability to anticipate and shape the future. Currently, DEWA is implementing a project to store 6 billion gallons of water in aquifers that can be retrieved when needed. This will provide the Emirate with a strategic reserve of over 50 million gallons of desalinated water per day in emergencies for 90 days, while ensuring the quality of the stored water remains unaffected by external factors. According to our strategy, by 2030, all desalinated water will be produced by a mix of clean energy that uses both renewable energy and waste heat. This will allow Dubai to exceed global targets for using clean energy to desalinate water. Increasing the operational efficiency in decoupling desalination from electricity production will save around AED 13 billion and reduce 44 million tonnes of carbon emissions.



HE MOHAMMED IBRAHIM AL SHAIBANI

Director General of HH The Ruler's Court of Dubai and
Chairman of City Readiness Committee to host Expo
2020 Dubai

His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, has said, "The UAE is ready to welcome the world to Expo 2020 Dubai." How do you assess Dubai's readiness to provide a one-of-a-kind experience to the world's largest event?

An increased importance is attached to Expo 2020 Dubai this year, as the world recovers from the impact of COVID-19 and the closure of countries and economies. All eyes now turn to the UAE, and Dubai in particular, as the city that will welcome the world and shape the post-COVID era. As per the words of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, Dubai is ready, and the world is taking rapid steps to recover during this global cultural event that will host delegations representing 173 countries and 24 international organisations in October.

During the past months, the Expo 2020 Dubai Higher Committee convened to discuss the final stages of readiness. They also reviewed the site, as well as the programmes, activities, and safety precautions put in place to ensure the

health and safety of participants and visitors. On the other hand, we coordinated with Dubai Police, Dubai Civil Defence, Dubai Corporation for Ambulance Services, and the Roads and Transport Authority, to ensure the utmost security of the Expo 2020, and readiness of related infrastructure projects.

As for preparations for COVID-19, the Expo 2020 Dubai staff have been vaccinated, in line with Dubai's vaccination programme, one the world's fastest vaccination programmes. The Expo 2020 Steering Committee is encouraging participants to join the Expo 2020 vaccination campaign offering official participants and their staff free vaccination, to ensure a healthy and safe environment.

As the launch of Expo is just a few months away, the final preparations are on track to offer an inspiring global event and leave a legacy for generations to come.

What are the most important tasks of the Chairman of City Readiness Committee to host Expo 2020 Dubai?

The committee aims to coordinate the efforts between local and federal

agencies, to provide the UAE's visitors with a comprehensive experience during Expo 2020. We are also closely following the plans and updates related to activities or events, as well as readiness of the site and related services as part of a plan by the committee to ensure all the integration of the technology, logistics, media and marketing, and tourism.

The committee also works to provide a unified and comprehensive experience across the UAE, from the arrival of visitors at the UAE's airports, to transit network and systems, to their participation in Expo 2020.

How are local and federal agencies cooperating in preparation for Expo 2020 Dubai?

Local and federal agencies have spared no effort to make this the world's best Expo yet. All organisations followed the general framework to provide vital services and facilities, as part of their operational responsibilities, to support the organisation of Expo 2020 Dubai, with seamless experiences showing traditional Emirati hospitality, while highlighting the advanced infrastructure, latest technologies, and competitive economic modules worldwide.

As partners in the UAE's success story, government entities are dedicated to planning this major event, to promote the outcomes of this six-month celebration of human creativity, innovation, and culture. We applaud the efforts of all the teams involved in preparing this major event.

Expo 2020 Dubai focuses on sustainability. What clean and renewable energy sources are used on site?

Dubai has made major progress in terms of sustainability and preservation of the environment, especially in key clusters of the city. Sustainability is introduced as one of the three sub-themes of Expo 2020 Dubai, based on Dubai's commitment to a green economy. Expo 2020 will provide a platform to enable change, exchange solutions, explore new ideas, and encourage collaboration to protect our planet. To this end, we strive to make this the most sustainable world expo yet, by incorporating green standards into every element of Expo 2020. Such efforts will prove the UAE's position as an advocate for the environment, in line with the objectives of the UAE Green Growth Strategy, launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum, in January 2012, with the theme 'A Green Economy for Sustainable Development.'

Designing Expo 2020, we used next-generation technologies to promote sustainability. Eight of the Expo 2020 Dubai's infrastructure projects were awarded the highest CEEQUAL rating, the internationally recognised system for sustainability assessment for civil engineering. CEEQUAL rating range from 30% for a Pass rating and 75% for Excellent. Expo 2020 was the region's first project to receive an Excellent rating. At the heart of Expo 2020, Al Wasl Plaza exceeded the highest rating by receiving 91.6%, the dome's steel frame received a 93.6% rating, adding another title, to the world's largest 360-degree display. Expo 2020 received the highest CEEQUAL ratings awarded to a single site, showing the event's ability to incorporate the concepts of sustainable design in its buildings, infrastructure, and landscapes.

In terms of energy sources, most Expo 2020 Dubai buildings use smart

technologies to achieve sustainability objectives; including smart meters and sensors, to monitor energy efficiency, lighting, water, and AC systems. Over 100 buildings on site are applying for LEED Gold certification or higher, which is an internationally recognised building assessment system. Solar panels were installed in every permanent building to generate 22% of the annual power consumption post-expo, supporting Dubai's goals for clean energy by 2020.

The Sustainability Pavilion is planned to meet LEED Platinum green building certification standards – the highest accreditation for sustainable architecture. Additionally, the pavilion will be a self-sustainable building, generating 100% of its energy and water needs, as well as producing four gigawatts hour of electricity per year through its high-end technologies. Solar panels have been installed to generate power in the pavilion. The pavilion's canopy is an architectural masterpiece and a role model in sustainability, as it consists of 1,055 solar panels used to generate electricity during the day, and to purify water and eliminate microbiological pollutants. The orientation of the funnel shape of the pavilion canopy creates air flows that naturally ventilate the pavilion courtyard, as well as letting in light, helping to reduce energy requirements and protect visitors from direct sunlight. Sited partially below ground, the pavilion will generally be cooler than the ambient temperature.

The pavilion also leverages 'energy trees' equipped with solar panels that rotate to face the sun and produce energy; while 'water trees' collect water from the surrounding humidity. Through a combination of traditional design strategies, highly efficient equipment and smart building technologies, energy consumption in permanent buildings will be lower than 30% during Expo 2020 Dubai.

To what extent will the electric vehicle charging stations at the Expo 2020 Dubai site support secure sustainable mobility during the event?

DEWA has completed 15 green charger stations, with 2 more being built, so there will be 17 EV stations in total, making it convenient for Expo 2020 Dubai visitors to charge their EV cars.

The plan to install electric vehicle Green Charger stations at the Expo

site is part of our work to achieve the Smart Dubai initiative, launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum.

Have you tested the risk management system to ensure the readiness to handle emergencies at the Expo site? What is the success ratio of that test?

Dubai has gained a reputation for being one of the safest cities in the world. During Expo 2020, we will live up to the global standards to continue this for all the residents and citizens of the UAE.

To achieve this, the Expo 2020 Dubai Office is working with Dubai Police to carry out the 'Sadeem' strategic exercise in both the Expo site and the Al Maktoum International Airport in Dubai. The exercise is intended to test the operations and procedures put in place to handle various scenarios, as well as the speed of response to emergency incidents by all field and administrative teams. After Sadeem, the various stages of the exercise will be evaluated as to how everyone managed to achieve their intended results. This exercise aims to maximise the level of readiness to deal with emergency incidents and scenarios in a professional way. The exercises apply the best international practices and standards to achieve safety and security.

Expo 2020 has also focused on cybersecurity, as it has cooperated with a select group of prominent local and international companies specialised in the fields of digital transformation, applied analysis and sustainability of electronic network security to protect digital networks during upcoming events. Expo 2020 leverages the latest advanced technologies to maintain the security of all participants' data, including electronic security monitoring services, incident response, digital investigation services and risk assessment to ensure that it is organised in a safe virtual environment. This will make Expo 2020 Dubai the most digitally and electronically secure one ever.



جائزة الإمارات للطاقة
EMIRATES ENERGY AWARD



HE AHMED BUTI AL MUHAIRBI

Secretary General of the Supreme Council of Energy,
Vice Chairman of the Executive Committee of the
Emirates Energy Award

What are the Supreme Council of Energy's strategies and plans for the next 50 years in clean energy and demand management?

Dubai is working to achieve green growth by implementing the Dubai Integrated Energy Strategy 2030. The strategy draws a roadmap aimed at raising energy efficiency, diversifying its sources, capacity building, and investing in green projects, through different programmes and projects. The Dubai Supreme Council of Energy has set priorities to support Dubai's position as a global hub for tourism, services, trade, and logistics by developing suitable measures to manage energy supply and demand. We have also developed programmes related to the low-carbon economy with a focus on innovative technologies and undertaking better measures in this regard. This is in line with the wise leadership vision to achieve sustainability. Through smart policies, we will continue to expand the domestic market for solar power, increase green buildings and electric

vehicles, in addition to adopting efficient technologies and green investment. A constructive and effective public-private partnership helps achieve these goals, and the Mohammed bin Rashid Al Maktoum Solar Park is one of the most prominent solar power projects in Dubai.

As the Vice Chairman of the Executive Committee of the Emirates Energy Award, how have you supported the three past rounds of renewable energy technologies locally and regionally?

One of the primary goals of the Emirates Energy Award is to promote the development of clean energy technologies in the UAE and the region through research and development to support capacity building for the current and future generations. We have established two specific categories that focus on research, product development, and capacity building. We also have two categories dedicated to clean energy projects of various sources.

We are proud of the unique projects participating in the award, implemented by university students, scientists and academics who work together to come up with innovative solutions to today's renewable energy challenges. The award also contributed to introducing us to the vast talents in our region who demonstrated outstanding skills and wonderful minds. These will be an asset for the region's development. Some of the participating projects helped us communicate with companies and banks to obtain funding for the systems and products expansion. Research and product development represent a large percentage of the entries we receive in the Emirates Energy Award.

How many participants are there so far in the fourth edition of the Emirates Energy Award?

We have received 210 applications so far and we expect to reach a range of between 280 and 300 applications by the deadline for submission on 31 August 2021. These applications

were from the UAE, Saudi Arabia, Jordan, Egypt, Kuwait, Morocco and other Middle Eastern countries. The award attracts, in each session, a large group of participants from the Middle East and North Africa, as well as from Europe, Southeast Asia and Africa. We have planned to hold a huge ceremony to honour the winners this year, which will be held in conjunction with the Expo 2020 Dubai. Organising a ceremony during the exhibition will highlight our region's progress towards sustainability and the fight against climate change. It will also enhance the UAE's position as a platform to attract innovative minds that drive technological advancements towards a green economy.

What are the latest statistics on green mobility in Dubai? What are the aspects of cooperation between DEWA and the Supreme Council of Energy to increase the number of electric and hybrid vehicles?

We have a cooperative approach to create a more environmentally friendly transport market. Five years ago, The Supreme Council of Energy, along with its partner agencies, put in place a plan to make Dubai a role model for sustainable transport. The Supreme Council of Energy partnered with other entities to encourage the use of hybrid and electric vehicles in its fleet. The total government fleet has reached 2,913 hybrid and

electric vehicles out of a total of 9,211 green vehicles registered in Dubai. The Roads and Transport Authority (RTA) has increased the number of hybrid and electric vehicles in its fleet. To support the charging network, DEWA has installed more than 300 charging stations for electric vehicles across Dubai. DEWA also monitors the use of chargers and updates its offering plan according to the increase in electric vehicle ownership in the Emirate. We are pleased with the positive results achieved in green mobility in Dubai within a short period of time, and we expect the current number of hybrid and electric vehicles to double over the next five years.

DEWA launches 'Let's Make This Summer Green 2021' campaign for customers to benefit from its smart solutions for energy conservation

DEWA launched its 'Let's Make This Summer Green' campaign for the sixth consecutive year. Themed 'Make Unforgettable Memories', the three-month campaign will take place digitally across DEWA's social media channels, as well as its internal and external channels. The campaign encourages individuals and organisations to adopt a smart and sustainable lifestyle for a positive environmental impact. DEWA also urges them to use its smart services and innovative features on its website and smart app to manage and monitor their water and electricity consumption. The campaign urges all to benefit from DEWA's tips and guidelines to conserve energy and follow a responsible and sustainable lifestyle.

"DEWA spares no effort in promoting a culture of sustainability and rationalisation, to raise awareness among society members to reduce waste and rationalise the use of water and electricity. These efforts support our endeavours to protect the environment and reduce Dubai's carbon footprint, in line with the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, aiming to achieve sustainable development in all spheres," said HE Saeed Mohammed Al Tayer, MD and CEO of DEWA.

"As part of its social responsibility, DEWA keeps encouraging customers to reduce their consumption by offering smart services with the latest disruptive solutions and Fourth Industrial Revolution applications, to manage their consumption digitally and independently through a seamless experience," said Khawla Al Mehairi, Executive Vice President of Strategy and Government Communications at DEWA.



The 'Let's Make This Summer Green' campaign highlights DEWA's 'Smart Living' initiative, for customers to monitor their consumption independently, simply by logging into their DEWA accounts on the website or smart app, check their data dashboard to monitor consumption, know more about residential customer tariff slabs, get conservation tips, and develop their conservation plans. Customers also benefit from the 'My Sustainable Living' programme, which has a positive impact on customers who can compare their consumption with similar homes. Customers can also make use of 'DEWA Store' offers to purchase energy and water-saving devices.

WHERE DOES LEAKAGE OCCUR?



Dubai Supreme Council of Energy issues Directive No. 3 of 2021 on the regulation of LPG trading



▶ HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of Dubai Supreme Council of Energy, has issued Directive No. 3 of 2021 on the regulation of Liquefied Petroleum Gas (LPG) trading, in order to protect the environment and society, by implementing the highest standards of safety and security. This includes the transportation, storage, and distribution of LPG, whether through cylinders or transport tanks.

The Directive stipulates that it is prohibited to distribute LPG cylinders in Dubai unless they are filled in the approved LPG factories in the Emirate. This ensures compliance with all standards and regulations issued by local departments.

In its Directive, the DSCE stipulated the necessity of obtaining its authorisation to issue the permit to complete all approvals and requirements from government authorities in the Emirate, according to their respective requirements. The DSCE will coordinate with government authorities to conduct joint inspection campaigns to ensure that workers in this sector follow the Directive and apply the highest safety and security standards.



The Dubai Supreme Council of Energy approves work plan to implement laws regulating district cooling services in Dubai

Dubai Supreme Council of Energy launches 2021 edition of State of Green Economy Report

▶ The Dubai Supreme Council of Energy (DSCE) released the seventh State of Green Economy Report in April 2021. The 2021 edition was compiled by DSCE in collaboration with the Dubai Carbon Centre of Excellence (DCCCE) and DEWA. Under the theme '2020: Towards the next 50', which is also the official 2020 government theme for the largest national strategy to prepare the country for the coming 50 years and its Golden Jubilee celebrations in 2021, this edition focuses on those public and private sector initiatives that will contribute to the country's development and transition to a green economy in the upcoming 50 years. The report is structured as per the focus

areas decided upon by the country's wise leadership, namely in the economy, education, infrastructure, health and media.

The report has five chapters addressing various topics that all play a key part in the roadmap of the country's sustainable development in the upcoming 50 years, from increasing energy efficiency and reducing carbon emissions across sectors to building the UAE's knowledge-based economy and digital future. The report includes infographics showcasing trends, numbers, the UAE's ranking in global indicators, and COVID-19 related data in alignment with the topics discussed in each chapter.

▶ HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy (DSCE), chaired the 65th meeting of the Council, which was held virtually. HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy, was present.

The meeting was also attended by HE Ahmed Buti Al Muhairbi, Secretary-General of the Dubai Supreme Council of Energy, along with board members HE Dawood Al Hajiri, Director General of Dubai Municipality; HE Abdulla bin Kalban, Managing Director of Emirates Global Aluminium (EGA); HE Saif

Humaid Al Falasi, CEO of Emirates National Oil Company (ENOC); Frederick Chemin, General Manager of Dubai Petroleum; and Nasser Abu Shehab, CEO of the Strategy & Corporate Governance Sector at the Roads & Transport Authority (RTA).

The meeting discussed many topics, including Resolution No. (6) of 2021 issued by the Executive Council of Dubai to regulate district cooling services in the Emirate. It aims to develop a legislative framework for cooling services in Dubai. This increases their efficiency and the activities related to generating,

distributing, and selling cooling capacity, as well as issuing permits and complaints management.

• The meeting also discussed aligning the circular economy with the Demand Side Management Strategy in Dubai, creating the Circular Economy Committee at the DSCE. It also reviewed electricity and water savings in Dubai in 2020; enhancing the Demand Side Management Strategy to empower the circular economy in Dubai, particularly in the electricity, water, fuel, and waste sectors in line with the UAE Circular Economy Policy, which was announced recently.

MD MESSAGE

I am pleased to welcome you to this section which is dedicated to raising awareness on empowering and including people of determination, as well as DEWA's achievements in this regard, in society and at work. These efforts support the National Policy to Empower People of Determination, launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President

and Prime Minister of the UAE and Ruler of Dubai, to create an inclusive society that ensures empowerment and a decent life for People of Determination and their families. They also support the 'My Community... a City for Everyone' initiative, launched by His Highness Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, to transform Dubai into a city that is

friendly to People of Determination. DEWA includes and empowers People of Determination through four strategic pillars: Employees, Customers, Society, and Partners.

I thank our community partners for their efforts that supported this success, and I hope this section will inspire everyone to continue their efforts to achieve the vision of the wise leadership to include and empower People of Determination.



DEWA's top achievements in POD Inclusion and Empowerment 2020

DEWA's innovative initiatives in including, empowering, and employing People of Determination enhances its position as a prominent, leading government organisation in this area. Every year, DEWA launches several corporate, social, smart, and innovative initiatives to include POD in the work environment and society. As a socially responsible corporation, DEWA started its inclusion journey in 2015 and has accomplished all government requirements regarding

physical, information and services accessibility, inclusive employment, and community initiatives. In 2020, DEWA sponsored several initiatives and social programmes as part of its corporate social responsibility to provide POD with an inclusive environment, including the Access Abilities Expo 2020. From 2015 to 2020, DEWA launched 58 programmes & initiatives that reached 3,475,409 people.

DEWA's policies and procedures align

with the highest international standards and practices to ensure that POD are employed in the most suitable positions. To achieve this, DEWA has implemented an inclusive hiring process that gives them equal working opportunities and provides a robust appropriate environment to unleash their potential and prove their capabilities.

The number of Employees with Determination of various disabilities in DEWA rose from 19 in 2017 to 29 in

2020. All its Employees of Determination completed their annual training plan for 2020, as well as providing 100% of the supplies, equipment, and devices that enable them to carry out their duties in the best and equal opportunities with others. In addition, DEWA Academy supports its Students of Determination to prepare them to join DEWA after graduation.

DEWA's buildings and facilities are 100% compliant with the Dubai Universal Design Code. DEWA currently has 6,137 employees trained in dealing with POD, and 22 employees are certified in sign language. DEWA's Employees of Determination happiness scored 99%, and their families' happiness reached 96%. Customers of Determination scored their happiness with DEWA's inclusive services at 95%, and society happiness towards DEWA's support to People of Determination was 94%. DEWA's website compliance scored 96%, while the smart app scored 10/10 in the People of Determination Accessibility Evaluation report by Smart Dubai.



What do you know about Autism Spectrum Disorder?

As a socially responsible government organisation, DEWA attaches great importance to its Employees of Determination, and is keen to provide them with the necessary support to integrate and empower them at work and in society. This is in line with the UN Sustainable Development Goals (SDGs) and specifically the eighth goal, which states 'Decent Work and Economic Growth'. DEWA also contributes to raising awareness among employees about autism by celebrating this day annually and highlighting the most important issues related to it. In the following, we offer you some information on this topic.

What is autism disorder?

A lifelong neurodevelopmental disorder that affects the individual's social skills, verbal and nonverbal communication skills. Its symptoms include repeated behaviours and lack of social communication.

Why is autism disorder known as Autism Spectrum Disorder?

Because the severity of autism varies from a person to another. This leads to different results in the evaluation of each case to a large extent, and because it includes a wide range of symptoms.

What are the common symptoms of autism disorder?

Autism symptoms include repetitive behaviour, with lack of social interaction, verbal and nonverbal communication skills, in addition to sensory coordination problems. These symptoms often appear unevenly among individuals with autism, so their severity varies from a person to another.

What is meant by the Triad of Impairments?

The Triad of Impairments represents the challenges that face people with autism spectrum disorder: poor social interaction, poor language and communication, and poor adaptation to daily new patterns.

What is the cause of autism?

There is still no scientifically specific cause for autism, but some hypotheses indicate that the cause of autism is a combination of genetic and environmental factors that affect the early development of the brain, such as the age of the parents during pregnancy, infections, gestational diabetes, taking antidepressants during pregnancy, exposure to chemical pollutants or childbirth complications that deprive the baby's brain of oxygen.

Why has the UN designated April 2 to raise awareness on autism?

To shed light on the need to improve the quality of life for people on the autism spectrum, to enhance their independence, protect their rights, and integrate them into society.

Why are most of the world's major buildings and landmarks lit in blue on this day?

To share awareness of the importance of this day.



DEWA organises its annual event for People of Determination and honours organisations that contributed to the success of its Inclusion POD Innovative Incubator

DEWA organised its annual People of Determination event virtually. During the event, DEWA honoured the universities, subsidiaries, and community partners that contributed to the success of DEWA's Inclusion People of Determination Innovative Incubator, which is the first of its kind in the UAE. This is part of DEWA's efforts to include and empower People of Determination (POD) in society.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA inaugurated the event. DEWA officials and officials from local and federal organisations and universities attended the event.

In his keynote speech, Al Tayer said that DEWA is keen to share its experiences and the best practices it implemented through the Inclusion People of

Determination Innovative Incubator, the innovative social model which empowers people of determination and enhances their inclusion in the work environment and in society.

Organisations that were honoured included nine universities that participated in implementing the second phase of the Inclusion People of Determination Innovative Incubator. These are the United Arab Emirates University, Zayed University, Sharjah University, the Higher Colleges of Technology, the American University in Dubai, the American University of Sharjah, Khalifa University, University of Dubai, and Rochester Institute of Technology.

9 community partners that participated in implementing the Inclusion People

of Determination Innovative Incubator were also honoured. These are: the Ministry of Community Development, Dubai Club for People of Determination, DASS solutions, Emirates NBD, Enable – Desert Group, Al Noor Training Centre for Persons with Disabilities, Senses Centre, Rashid Centre for People of Determination, and Dubai Rehabilitation Centre for People of Determination.

8 of DEWA subsidiaries that participated in implementing the Inclusion People of Determination Innovative Incubator were also honoured. These are: Data Hub Integrated Solutions (Moro), Mai Dubai, Emirates Central Cooling Systems Corporation (Empower), Noor Energy 1, Etihad Energy Services Company (Etihad ESCO), Shuaa Energy 1, Shuaa Energy 2, and Dubai Green Fund.



DEWA organises 23rd WETEX and Dubai Solar Show at Expo 2020 Dubai from 5 to 7 October 2021

Under the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and under the patronage of HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy, DEWA will organise the 23rd Water, Energy, Technology, and Environment Exhibition (WETEX) and Dubai Solar Show from 5 to 7 October 2021 at Expo 2020 Dubai. DEWA is the Official Sustainable Energy Partner of Expo 2020 Dubai.

This was announced by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, Founder and Chairman of WETEX and Dubai Solar Show. Al Tayer said that the annual exhibition supports

the sustainable development of the UAE and consolidates Dubai's position as a pioneering global hub for clean energy and a green economy.

"Thanks to the support of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, WETEX and Dubai Solar Show has become the largest exhibition for water, energy, sustainability and innovation in the region and one of the largest specialised exhibitions worldwide. The exhibition underlines Dubai's commitment to supporting global efforts to increase the share of clean and renewable energy and achieve sustainability with its environmental, social and economic aspects. It also

supports the Dubai Clean Energy Strategy 2050 to make Dubai a global hub for clean energy and green economy," said Al Tayer.

DEWA organised the 22nd WETEX in October 2020 on a virtual platform. It attracted 63,058 visitors from around the world, the largest number of visitors in the exhibition's history. The carbon-neutral exhibition, the first time in the Middle East and North Africa, witnessed the participation of 1,076 companies from 52 countries. DEWA provided an exceptional experience for exhibitors and visitors from around the world to review the latest technologies and developments in the fields of water, energy, sustainability and innovation.

DEWA signs MoU with Dubai Municipality to enhance cooperation in geolocation maps in Dubai



DEWA signed a Memorandum of Understanding (MoU) with Dubai Municipality to consolidate cooperation on developing a geolocation infrastructure project in Dubai as part of the Geo Dubai initiative. The MoU also includes sharing information and data to provide a comprehensive, updated and unified geolocation map for Dubai. The MoU includes planning, designing and managing development projects in the future between both parties.



DEWA signs Water Purchase and Shareholder Agreements for Hassyan Sea Water Reverse Osmosis Project at a cost of AED 1.5 billion



DEWA has signed a 35-year Water Purchase Agreement (WPA) and the Shareholder Agreement (SHA) for the Hassyan Sea Water Reverse Osmosis (SWRO) Plant, with Emirati company Utico. The 120 Million Imperial Gallons per Day (MIGD) project will be built using the Independent Water Producer (IWP)

model. It is expected to be completed by March 2024 at a total cost of USD 410 million (around AED 1.5 billion).

The agreements were signed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, and Ivan Richard Menezes, Managing Director of Utico. Rashed

Mehran Al Blooshi, Chairman of Utico and a number of DEWA officials were present.

Al Tayer said that he trusts that Utico's team will do their best to implement the project according to the highest standards of efficiency, reliability, safety, and security and within the time frame.

Moro Hub signs an agreement with Huawei to build the first phase of the largest solar-powered data centre in the Middle East and Africa



Moro Hub (Data Hub Integrated Solutions LLC), a subsidiary of Digital DEWA, has signed an agreement with Huawei to build the largest solar-powered Uptime TIER III-Certified Data Centre in the Middle East and Africa at the Mohammed bin Rashid Al Maktoum Solar Park. The new sustainable, carbon-neutral green data centre uses 100% renewable energy and has a capacity exceeding 100 megawatts (MW) and is the second solar-powered green data centre in Dubai launched by Moro Hub.

The signing ceremony was witnessed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, and Mr Charles Yang, President of Huawei Middle East, and signed by Marwan Bin Haidar, Vice Chairman and Group CEO Digital DEWA and Mr Jerry Liu, CEO of Huawei UAE.

Moro Hub joins forces with Trend Micro to secure cloud workloads for UAE enterprises



Group CEO of Digital DEWA and Majd Sinan, Country Manager, Trend Micro UAE.

"Our cooperation with Trend Micro will enable Moro Hub to provide customers with the best locally hosted, unified security management services that accelerate compliance and secure workloads hosted in hybrid and multi-cloud environments. The alliance will be of particular importance as several organisations have been challenged by the increasingly complex and rapidly changing tactics of savvy cyber adversaries in the last few years due to the digital influx. The new service will empower Moro Hub customers with top-of-the-line security and offer them compliance tools to safeguard new and existing cloud resources. This will help us to offer innovative and competitive digital technologies in the region, which is in line with Dubai 10X and UAE Centennial 2071," said Marwan Bin Haidar.

Moro Hub, a subsidiary of Digital DEWA, the digital arm of DEWA, today signed a Managed Service Provider (MSP) agreement with Trend Micro, a global leader in cybersecurity solutions. This will enable Moro Hub to provide

cloud workload protection services to its customers and accelerate their digital transformation journey.

The agreement was signed between Marwan Bin Haidar, Vice Chairman and

DP World to expand energy efficiency collaboration with Etihad ESCO

DP World, UAE Region, the leading smart trade enabler, and Etihad Energy Services Company (Etihad ESCO) announced plans to expand their ongoing energy efficiency collaboration into renewable solar power installations across DP World's assets in the UAE.

They signed a Memorandum of Understanding (MoU) during a virtual ceremony in the presence of H.E. Saeed Mohammed Al Tayer, MD & CEO of DEWA, and H.E. Sultan Ahmed Bin Sulayem, Group Chairman and CEO, DP World.

The MoU provides a framework to facilitate existing collaboration to cover DP World, UAE Region's changing requirements in line with its overarching energy efficiency and sustainability programmes. These include Energy Performance Contracting Projects, Solar On-Grid Installations, and IT Solutions and Technologies including Command and Control Centres, IoT, Smart Automation and Network Operations.



Etihad ESCO and Bahrain's Sustainable Energy Authority to collaborate in energy efficiency and sustainability



Etihad Energy Services Company (Etihad ESCO), the leading sustainability enabler in Bahrain, and Etihad Energy Services Company (Etihad ESCO), a wholly-owned subsidiary of DEWA, announced plans to initiate collaboration and strategic partnership.

Both organisations signed a Memorandum of Understanding (MoU) during a virtual ceremony, in the presence of HE Saeed Mohammed Al Tayer, MD & CEO of DEWA and HE Dr. Abdul Hussain Bin Ali Mirza - President of SEA.

Through the MOU, both parties will exchange and share best global experiences and practices in energy efficiency, renewable energy, to support sustainability efforts in Bahrain.

RERA and Etihad ESCO sign MoC



The Real Estate Regulatory Agency (RERA) at Dubai Land Department (DLD) signed a Memorandum of Cooperation (MoC) with Etihad Energy Services Company (Etihad ESCO), with the aim of achieving a number of common and related goals, most prominently reducing the total service charge for unit owners in freehold properties, the long-term benefit for a period not exceeding 99 years, and enhancing transparency in customer service for the cooling services billing system.

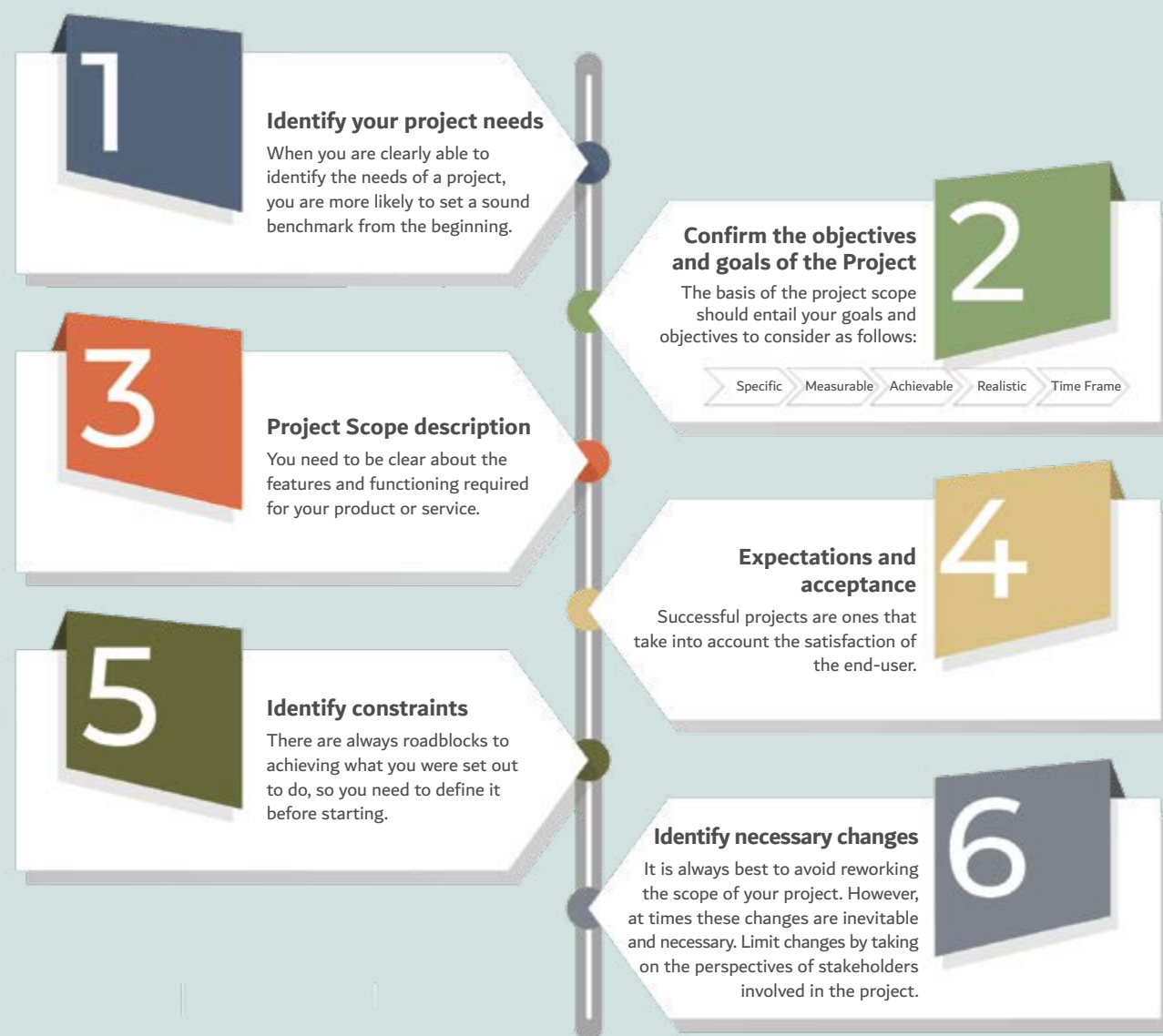
The MoC was signed by HE Eng Marwan bin Ghalita, CEO of RERA, and Waleed Salman, Executive Vice President of Business Development and Excellence at DEWA, and Vice Chairman of Etihad ESCO. The MoC also included cooperation in paying the cooling services in a timely manner; invoicing the energy bills (electricity and air conditioning) for the units and areas of shared spaces in the projects within the real estate invoices issued by DEWA; installing, maintaining and reading energy meters through Etihad ESCO and making payments directly to DEWA; and exploring the possibility of implementing energy efficiency solutions in the building that could help reduce energy costs.



We continue with 'Engineering Doses/Tips', a community-educational initiative, through which the Transmission – Power division at DEWA strives to build educational awareness by sharing tips to make the right engineering decisions.

Tip #8 CLIENT BASIC REQUIREMENTS - WELL DEFINED GOALS AT INITIAL STAGE

The following steps can help you to effectively define the scope of a project from the initial stage:



Such an appointment should be based on the criteria advised earlier in Tips#1&2. This is a very important step of your project which will form your relationship with the consultant and will actually define his/her obligations towards you as a client, thus appointing a consultant refers commonly to the situation and client needs as follows:



TIPS AND TRICKS

Tip #10

Appointment of Consultants continued



In continuation of the previous tip, please note the following:

How to officially appoint a professional consultant?

As with any business agreement, it is best practice for a client to appoint a professional consultant under a written contract. A typical professional appointment consists of a set of terms and conditions, setting out the obligations of the parties, to which the parties attach various schedules. The schedules usually include a scope of services, which lists the services that the professional consultant is providing. Other schedules depend on the circumstances of the project.

The client may choose to appoint the professional consultant using one of the following criteria:

METHOD 1

Standard form of appointment, published by a professional organisation connected with the construction and engineering sector, or as per Municipality regulations.

METHOD 2

Bespoke form of appointment, drafted by the client's legal adviser to reflect the client's needs on one particular project. This could work for small projects or modifications.

METHOD 3

Letter of appointment, which may be in a standard form published by a professional institution or a bespoke document. It creates a binding contract between the parties, but is shorter and less sophisticated than a formal appointment. It may be suitable for straightforward services of a shorter duration, for a smaller fee.

TIPS AND TRICKS

Tip #11

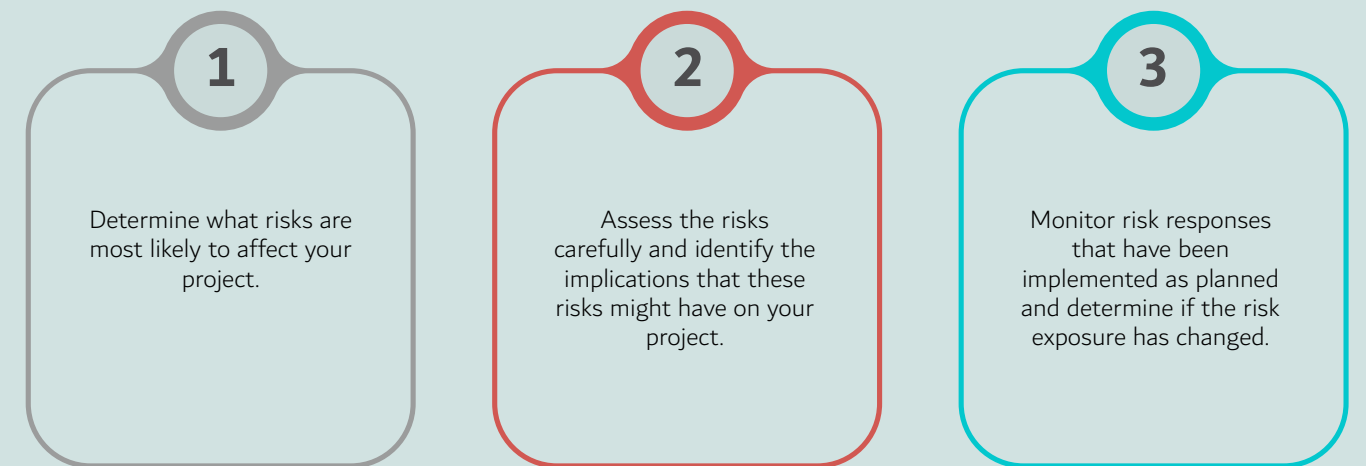
Appointment of Consultants Part-II

The best way to manage risks is to know the various types and how you can manage them, so you can optimise your risks and avoid any possible losses.

Risk main categories:

- **Technical Risks** is the possible impact that changes could have on a project, system, or entire infrastructure when an implementation does not work as anticipated. These risks can commonly occur when there are changes in project scope and requirements, and if there are design errors.
- **Delay Risks** is not meeting the deadline of project due to many reasons such as budget shortage, resource shortage, material shortage, design changes and poor weather conditions. These can lead to many undesirable effects such as increase in project cost.
- **Environmental risks** Environmental risks include natural disasters, weather, and seasonal implications. These risks are commonly overlooked when people are unfamiliar with local conditions. If you are prepared for possible weather risks, you are much more likely to avoid potential delays and losses.
- **Management risks** The most common management related risk is uncertain productivity of resources. Before you begin a project you need to be sure that you have sufficiently skilled manpower and failing to do this can lead to disastrous losses.
- **Financial risks** Inflation, fluctuation of currency, changes in bank interest rates, local taxes, and market fluctuation are some of the possible financial risks you might incur during a construction project.

Ways to manage and avoid risks:



Finally, it is highly recommended to get an insurance plan of your project during and after construction.

AROUND THE WORLD

Key indicators: 2021 is the year of renewable energy worldwide

Reports issued by the International Renewable Energy Agency (IRENA) indicate that more than 260 gigawatts of renewable energy have been added worldwide in 2020, which doubling the number recorded in 2019; despite the economic slowdown due to COVID-19.

IRENA stated that the share of renewable energy increased significantly for the second year in a row, accounting for more than 80% of the total new energy production capacity last year. Solar and wind energy contributed 91% of this growth, according to the report.

The trend towards renewables will likely continue to grow in 2021, supported by the major turning points of last year. China has now committed to reaching carbon neutrality by 2060, which puts the world's largest solar and wind energy market on a path to increasing

renewables with the start of its next five-year plan.

Below, we review some key trends shaping the global renewable energy market in 2021.

Facilities doubling in China

Even though the government shut down large parts of the country earlier this year, companies still want to use solar energy. Solar energy will boom over the next five years, especially after Chinese President Xi Jinping announced in September that China is seeking zero carbon emissions by 2060.

Spain emerges as a photovoltaic powerhouse

The electricity generated from solar farms in Spain, which has the largest potential for solar energy in Europe, rose to more

than 60% last year compared to 2019, generating more than 15,000 gigawatt hours of energy, according to data from Red Eléctrica, the country's grid manager.

The Spanish solar sector is expected to grow at about twice the pace of its German counterpart in the next two years, according to BloombergNEF.

The UK has been coal free for more than two months

Britain spent 67 days without coal, which is the longest time the country has spent away from coal since the Industrial Revolution. This step also contributed to making 2020 the greenest year in the country's electrical grid so far.

The country intends to phase out of polluted fuels completely by 2025, as wind farms acquire an increasing share of their electricity capacity.



LOCAL NEWS

اقتصادية دبي
DUBAI ECONOMY

Expo 2020 Dubai increases the number of economic licenses at Dubai South

Business licenses and setups accelerated in Dubai South over the recent months as the much-anticipated EXPO 2020 Dubai approaches.

According to the figures of the National Economic Register (NER), economic licenses in Dubai South accelerated to around 7,987 by the first half of April 2021, a growth of 1.4% on the preceding month.

The significant growth in economic and commercial activities in Dubai South, dubbed as the city of the future and the face of the new Emirate of Dubai, comes after the completion of the infrastructure and development projects that were carried out in the city during the last period. Dubai South is the closest business complex near the Expo 2020 Dubai site.

Amid great investment opportunities that the city provides to the business sector, it has become the preferred destination for investors from various countries, which explains the continuous increase in the number of economic and commercial activity licenses issued since the beginning of this year.

A recent report issued by Dubai Economy stated that 12,870 licenses have been automatically renewed last March.

The report indicated that commercial licenses topped the licenses issued, depending on the license category, with 9,711 licenses. This accounts for 76% of the total licenses, followed by professional licenses with 2,720 licenses making 21% of the total licenses. Remaining licenses were distributed among industrial and tourism activities.



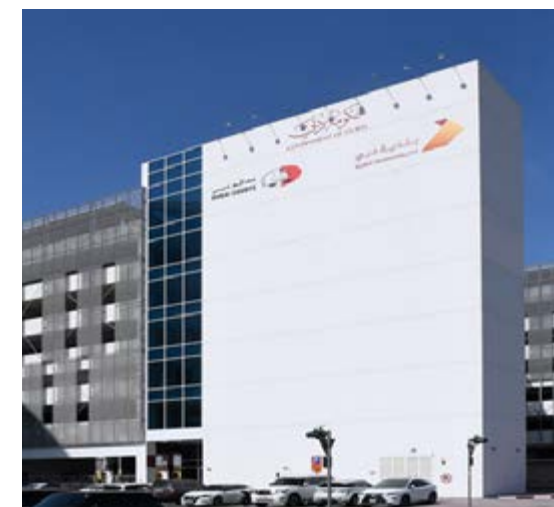
بلدية دبي
DUBAI MUNICIPALITY

Dubai Municipality wins first place at International Architecture Award

Dubai Municipality has won the first place in the International Architecture Award in the Green Good Design category for environmentally-friendly projects, in recognition of its car parking building in Al Garhoud.

The building uses environmentally-friendly methods for generating energy with solar panels that are connected to DEWA's grid. The solar energy system consists of 1,530 solar panels, with 500 KW capacity. The carbon footprint of the building is equivalent to minimising the production of 143.7 tonnes of carbon dioxide emissions annually.

The award is organised by the European Centre for Architecture, Art Design and Urban Studies and the Chicago Athenaeum represented by the Museum of Architecture and Design.



HH Sheikh Hamdan bin Mohammed witnesses agreement for operating self-driving vehicles

HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council received Jeff Bleich, Chief Legal Officer, (General Motors – Cruise) and his delegation. The meeting discussed the latest developments in using self-driving vehicles and the company's efforts to develop this technology. The meeting also discussed the updates of safety systems in such vehicles and enhancing bilateral cooperation.

HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum witnessed the signing of an agreement between the RTA and Cruise, a leading US-based autonomous vehicle company, as part of which Cruise will operate self-driving taxis and ride-hailing services in the Emirate. The agreement will make Dubai the first non-US city in the world where Cruise will commercially operate these vehicles.

HE Mattar Mohammed Al Tayer,

Director-General, Chairman of the Board of Executive Directors of the RTA, signed the agreement on behalf of RTA while Bleich signed on behalf of Cruise. The agreement was signed in the presence of HE Abdulla Al Basti, the Secretary General of The Executive Council of Dubai, HE Philip Frayne, Consul General of the United States in Dubai and Ahmed Bahrozyan, Chief Executive Officer of The Public Transport Agency at RTA.

