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News, Events, Business, Energy and Sustainability

MASDAR

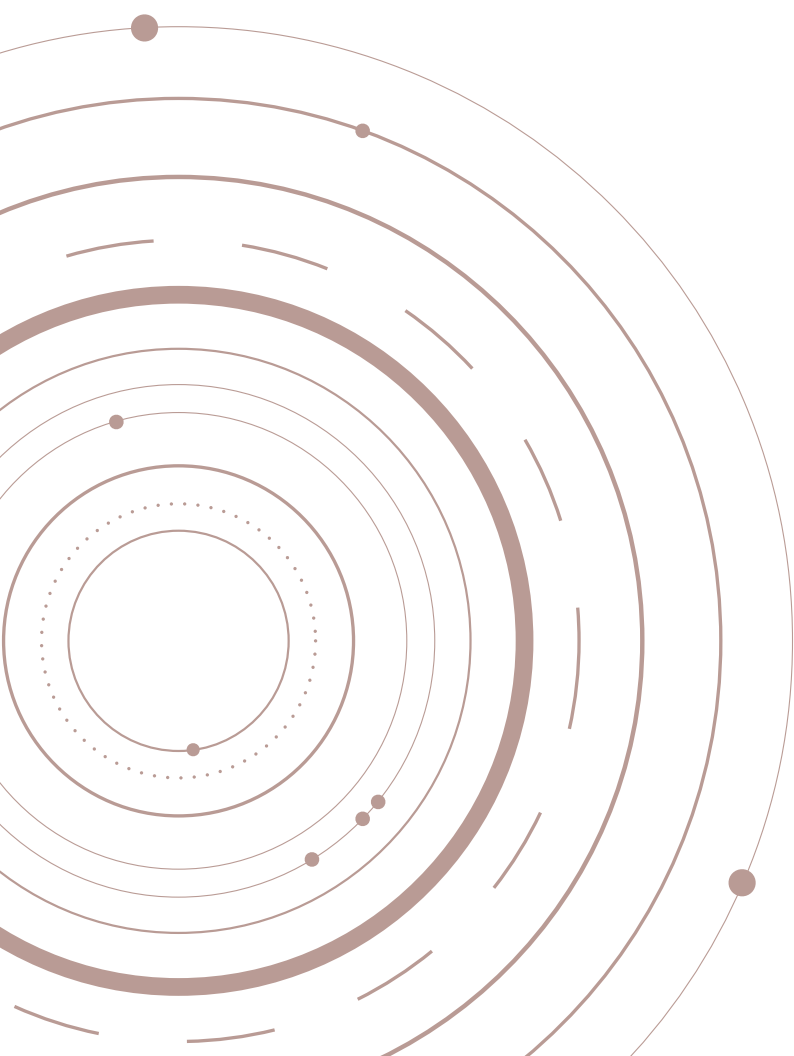
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DEWA ORGANISES
SDME 2018

THE UAE, REPRESENTED
BY DEWA, MAINTAINS ITS
FIRST GLOBAL RANKING,
IN GETTING ELECTRICITY
AS PER WORLD BANK
2019 REPORT





“

He who does not think of energy is not thinking about the future.

”

HH Sheikh Mohammed bin Rashid Al Maktoum

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

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



WELCOME MESSAGE

SAEED MOHAMMED AL TAYER
MD & CEO OF DEWA

Dubai Electricity and Water Authority

I am pleased to welcome you to this issue of Al Masdar magazine at the end of 2018, the extraordinary year in which the United Arab Emirates celebrated the centennial of the birth of the late Sheikh Zayed bin Sultan Al Nahyan. During the Year of Zayed 2018, the UAE celebrated the centennial birth of the late Sheikh Zayed bin Sultan Al Nahyan, emphasising that the journey of excellence and success in the UAE has no limits, and that the late Sheikh Zayed remains a source of inspiration for generations to come.

DEWA launched an integrated Corporate Social Responsibility (CSR) and voluntary programme aligned with the main objectives of the Year of Zayed. It included more than 40 CSR initiatives that reflected the values, principles, and visions of the Founding Father in various fields. The initiatives focused on enhancing cultural development, protecting the environment, building human capabilities, empowering nationals, and promoting voluntary work and social service. DEWA's local and international initiatives targeted all society segments, to embody Sheikh Zayed's legacy, and instill tolerance and giving in the hearts of all society members. The initiatives reached over 1.8 million beneficiaries, with the participation of 1800 volunteers who spent more than 13,000 voluntary hours.

Through the Year of Tolerance 2019, DEWA will continue to support the vision of the Founding Father, the late Sheikh

Zayed and the UAE's wise leadership, following the sound principles upon which the UAE has been founded, including unity, hard work, justice, tolerance, giving, and unlimited ambition.

In this issue of Al Masdar magazine, we will review the achievements of DEWA and the international events that have been organised or attended by DEWA during the 4th quarter of 2018, in support of DEWA's vision to be a leading sustainable innovative global corporation. This ensures continuous improvement and superior and innovative services.

I am pleased to conclude this message by congratulating our wise leadership, DEWA's senior officials and teams on achieving a new global achievement. The UAE, represented by DEWA, maintained its first place for the second consecutive year for getting electricity, scoring 100% in all criteria, as per the World Bank's Doing Business Report 2019, which measures the ease of doing business in 190 economies around the world.

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HH Sheikh Ahmed bin Saeed Al Maktoum inaugurates SDME 2018

▶ HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy, inaugurated the Solar Decathlon Middle East (SDME 2018). DEWA organised SDME under the patronage of HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, from 14 to 28 November 2018 at the Mohammed bin Rashid Al Maktoum Solar Park in Seih Al Dahal in Dubai.

CEO of DEWA; HE Dawood Al Hajri, Director General of Dubai Municipality; HE Ahmed Buti Al Muhairbi, Secretary General of the Supreme Council of Energy; HE Mohammad Abdullah Abunayyan, Chairman of ACWA Power; Mohamed Jameel Al Ramahi, CEO of Masdar; Najeeb Al Ali, Executive Director of Expo 2020 Dubai; Joan Glickman, Senior Advisor at the US Department of Energy, and ambassadors and consuls of countries represented in the competition, as well as the media.

The opening ceremony was attended by HE Matar Humaid Al Tayer, Chairman of DEWA; HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy and MD &

His Highness Sheikh Ahmed bin Saeed Al Maktoum toured the competition site, accompanied by HE Matar Al Tayer and HE Saeed Al Tayer.



HH Sheikh Mansoor honours winners of SDME 2018

HH Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum honoured the winning teams of the Solar Decathlon Middle East (SDME) 2018. Total prizes for the first round are worth AED 10 million. The Award Ceremony was organised at the Mohammed bin Rashid Al Maktoum Solar Park in Dubai. HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy and MD & CEO of DEWA, also was present.

Other attendees included HE Dr. Matar Hamed Al Neyadi, Undersecretary of the Ministry of Energy and Industry, HE Abdulla Al Karam, Chairman of the Board of Directors and Director General of the Knowledge and Human Development Authority (KHDA), HE Saif Humaid Al Falasi, CEO of ENOC, and ambassadors, consul generals and diplomats based in the UAE, along with government officials, business leaders and local and international media.



His Highness presented the awards; Team Virginia Tech from Virginia Tech, USA won first place. Team UOW from University of Wollongong, Australia; TAFE New South Wales in Australia and University of Wollongong, Dubai, came second. Team BaityKool from University of Bordeaux, France; National School of Architecture & Landscaping of Bordeaux, France; Arts et Métiers Paris Tech, France, Nobatek-INEF4, France; An-Najah University, Palestine and Amity University, Dubai was third.

HH Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum also presented awards for innovation. Team UOW was first, Team Virginia Tech second, with Team BaityKool third.

The competition is part of a partnership between Dubai Supreme Council of Energy, DEWA, and the US Department of Energy. Dubai also hosts the second SDME in 2020 coinciding with Expo 2020 Dubai with the theme 'Connecting Minds, Creating the Future', which fits well with the international Solar Decathlon.

700 students and education faculty members from 54 nationalities

Over the course of two weeks, 15 teams from 28 universities, comprising about 700 students and faculty members from 11 European, North American, Asian, and Australian regions, and representing 54 nationalities, built 15 smart and sustainable houses on a 60,000 square-metre area allocated by DEWA for the competition at the Mohammed bin Rashid Al Maktoum Solar Park in Seih Al Dahal, Dubai. The teams were assessed in 10 contests ('Decathlon' comes from the Greek word 'Deca' for 'ten'), which are architecture, engineering and construction, energy management, energy efficiency, comfort conditions, house functioning, sustainable transportation, sustainability, communications, and innovation.

Huge Turnout

DEWA invited the public to visit the site of the SDME 2018 to learn about the innovative technologies used by the participating teams in building the smart and sustainable houses, and enjoy the accompanying activities during the period from 14-29 November. The SDME 2018 attracted a large number of visitors including families,

school and university students, and architects and developers. DEWA also provided free shuttle buses during the weekends.

SDME Steering Committee

The SDME Steering Committee includes DEWA; Dubai Supreme Council of Energy; Ministry of Cabinet Affairs & The Future; Ministry of Energy & Industry; Ministry of Education; Dubai Municipality; Dubai Police; Dubai Roads and Transport Authority (RTA); Expo 2020 Dubai; and Dubai Future Foundation.

SDME sponsors

SDME sponsors include the Dubai Supreme Council of Energy; Abu Dhabi Future Energy Company (Masdar); Emirates National Oil Company (ENOC); General Electric; and Saudi Arabia's ACWA Power in the Platinum Category; Mai Dubai, Meydan, and BASF in the Gold Category; and Almarai in the Silver Category. Partners include the World Green Economy Summit and Emirates Green Building Council.

Chevrolet was the Official Mobility Partner of SDME. General Motors Africa and Middle East provided 17 Chevrolet Bolt electric vehicles for the teams to use during the competition.

Over 33,000 visitors to 20th WETEX and 3rd Dubai Solar Show



The 20th Water, Energy, Technology, and Environment Exhibition (WETEX 2018), and the 3rd Dubai Solar Show attracted over 33,000 visitors over three days. Dubai Electricity and Water Authority (DEWA) organised both events, 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 Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, Minister of Finance and President of DEWA. The two events were part of the 5th Green Week with the theme 'At the forefront of sustainability', from 23-25 October at the Dubai International Convention and Exhibition Centre (DICEC). The exhibitions covered 78,413 square metres with over 2,100 exhibitors from 53 countries and were held in

conjunction with the 5th World Green Economy Summit.

HH Sheikh Hamdan bin Rashid Al Maktoum inaugurated the events, accompanied by HE Matar Humaid Al Tayer, Chairman of DEWA, along with a number of senior officials, director general, ambassadors and consular officials, DEWA EVPs, senior officials of the Dubai Supreme Council of Energy, and the media. HH Sheikh Hamdan bin Rashid Al Maktoum, Humaid Al Tayer, and other VIPs, toured the exhibition and were briefed about various innovations, solutions and new products such as energy and water desalination, green technologies, clean and renewable energy, environmental sustainability, and oil & gas. During the tour of the exhibition area, HH Sheikh Hamdan bin Rashid Al Maktoum visited the



cornerstone of sustainability. The event highlights the most important energy initiatives in Dubai that are main pillars in implementing the Dubai Clean Energy Strategy 2050," said Saeed Mohammed Al Tayer, MD & CEO of DEWA, and Founder and Chairman of WETEX.

Green Week promotes sustainability in society

Green Week was based on a clear vision of spreading a culture of sustainability among all groups and communities, especially school and university students. The focus of Green Week was on educating students as the mainstay of development and as future builders, through a series of workshops and educational events, to instill a culture of creativity and innovation in the next generation. The wise leadership considers this to be the nation's real wealth to anticipate and make the future. Green Week also focused on the development of young talented Emiratis who are helping to create a sustainable future energy system that supports the national trend towards establishing Dubai and the UAE's leadership in the Green Revolution.

Innovation Hall highlighted innovations in energy, water, environment and sustainability

The Innovation Hall focused on key innovations in energy, renewable and clean energy, mobility, technology, education, health, water and space science. By providing electronic kiosks for university students, DEWA offered new specialised educational materials, to share experiences and challenges, and honoured Emiratis and other talented innovators from around the world. The Innovation Hall encouraged knowledge sharing to build and enhance national capacity and promoted the talents and skills of people of determination as well as their innovations and ideas. The five Innovation Zones in the Hall this year were the Youth Zone; People of Determination Zone; DEWA Supplier Relationship Workshop Zone; Innovation Workshop and Seminars Zone; and the Activities & Events Zone.

Several events and activities

WETEX focused on a variety of events related to energy and water conservation, environment protection, waste management, green building, carbon reduction, highlighting the latest technology and the most successful innovations in conserving natural resources, enhancing environmental security and stimulating innovation and scientific creativity in energy.

"WETEX has become a much-awaited annual event for organisations, entities, and companies specialising in energy, water and environment from the region and around the world to show their solutions and green products and to identify the typical investment opportunities in these important and vital areas. WETEX also provides a unique opportunity for investors to build business relationships and enhance business opportunities by networking with representatives of major companies and decision-makers from around the world under one roof. Meanwhile, the Dubai Solar Show spurs international efforts to develop the solar power sector, which is a

DEWA stand, and many other national and international pavilions and stands.

François Hollande, former President of France, accompanied by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, and Founder and Chairman of WETEX, toured the exhibition and visited many participating stands including the EDF stand. HE Mariam bint Mohammed Saeed Hareb Al Mehairi, Minister of State for Future Food Security, also visited the events. HE Saeed Mohammed Al Tayer, received a high-level Danish delegation led by Mette Hoberg Tønnesen, Commercial Attaché at the Royal Danish Consulate General. The delegation included representatives of the Ministry of Environment and Food of Denmark, along with a number of Danish companies specialising in water. The visit included round table meetings with DEWA's different divisions to discuss the latest developments and technological solutions in water and environment.

WETEX seminars focused on sustainability, digitalisation, disruptive technologies, smart grids and cities and the future of energy around the world



During WETEX 2018, DEWA organised a series of seminars and panel discussions in collaboration with experts from leading global companies in energy, water, technology, sustainability and environment.

The seminars at the Al Multaqa Ballroom in the Dubai International Convention and Exhibition Centre took place over the three days of the exhibition from 10 am to 5.30 pm included many sessions. These sessions discussed vital topics such as the future of energy sector, smart cities and networks, digital power stations, and disruptive technologies such as AI, energy storage technologies, sustainability and innovation. The audience comprised many people from the general public, professionals and students of universities, schools and DEWA Academy.

First Day

The first day of seminars at WETEX 2018 featured Norman Gilsdorf, from Honeywell as a speaker. He explained how data makes a significant difference in the functioning of service organisations; while Dr Johan Pensar, from ABB, spoke on the importance of cooperation and synergy in the success of smart city projects. Kuldeep Tickoo, from Siemens, discussed the role of digital switching stations in

the development and automation of energy infrastructure. Adel Al Tamimi, Director of AI at DEWA reviewed the role of AI and blockchain technology in enhancing operations.

Javier Lopez Carvajal, from ACWA Power, elaborated on the role of energy storage in the transformation of the sector, while Hugo Domingues, from AMT, discussed the future of solar water heaters. Ammad Ali from SEL presented a seminar on improving the efficiency of Ethernet networks in switching stations. The day ended with the session 'Lucy Group Smart Cities Value Chain' by Lucy Electric Group's Mark Allen.

Second Day

During the second day of WETEX 2018 seminars, Jon Blackburn and Saulius Adomaitis, from EY, spoke about emerging technologies and innovation in service organisations, and the role of these technologies in shaping the future of the energy sector. Ulrich Rueth from Siemens discussed the relevance of polymer electrolyte membrane technology, which is a revolutionary technique in large scale manufacturing. A seminar presented by Willi Vaassen, from TÜV Rheinland, highlighted the importance of solar power plants, and risk mitigation through supply chain and system rehabilitation.





Abdurrahman Khalidi, from GE, delivered a presentation titled 'The Future of Energy,' on the latest developments and sustainable solutions in the global energy sector aimed at creating a sustainable future, while Thomas Altmann, from ACWA Power, elaborated on emerging technologies in low-carbon desalination processes. Yousif Al-Ali from Masdar presented a seminar titled 'Energising the World,' focusing on energy efficiency solutions and the use of advanced technologies to reduce costs and carbon emissions associated with energy production.

Aitor Amezuza, from Al Fanar, presented an overview of integrated monitoring of medium and low-voltage distribution networks. A session on innovative trends from engineering, procurement and construction perspectives to address low solar energy prices was led by Kaustav Sen, from KEC International. Yet another highlight of day two was a presentation on high performance steam turbines, flexibility and efficiency in a pilot solar power project by Mohamed Bou-Zeid from Siemens. Dr Branimir Cucic, from Koncar, spoke about advanced power distribution transformers, while Krishna Murthy, from Environmental Solutions Consultancy, concluded

with a talk on ESC's role in UAE's innovative energy map.

Third Day

The last day of seminars at WETEX 2018 also had discussions on many important topics. These included a session by Ehtesham Raja and P Radhakrishnan, from ENOC, on the solar project at Dubai Lubricant Processing Plant; a presentation titled 'Oxford Flow: An Example of How Universities Can Drive Innovation' by Professor Thomas Povey, from Oxford Flow; a seminar on the importance of flexible and clean infrastructure for energy production and distribution by Martin L. Perry, from Bloom Energy; and a session on the world's largest CSP project by Jose Jimenez, from ACWA Power.

In addition, Ahmed Alhamadi, from the Public Services Department of Ras Al Khaimah, spoke about innovative technologies for water and waste management, their roles in preserving the environment and natural resources and the creation of a sustainable future. Subramanian, from Dubai Silicon Oasis Authority (DSOA), delivered a presentation on DSO's sustainability journey, while Akash Pinjarkar and Manoj Medithi, from Ducab, elaborated on fire-resistant cables for

various applications. The last day of seminars also witnessed a session by Hassan Darwich, from Gulf Eternit Industries, on GRE valve chambers for water transmission and distribution networks, in addition to a presentation on 'intelligent project infrastructure management by SAHAB application' by Khaled Ahmed, from Bin Omairah. Thomas Shaw-Dunn, from Tractebel, spoke about enhancing the performance of current energy production assets in the Middle East. The symposiums concluded with a panel discussion on compact photovoltaic substations, led by Jiliang Yi, from Sunten.



Dubai Solar Show Seminars

First Day

The first day included 6 seminars and panel sessions on several critical topics, including the shift towards a greener economy; reform policies in renewable energy and its further spread in the Middle East and North Africa (MENA) region; the expansion of the CSP market in the region; the role of policymakers in reducing carbon emissions; and sustainable energy storage solutions. The experts also discussed the 700 MW 4th phase of the Mohammed bin Rashid Al Maktoum Solar Park, which is the largest CSP project in the world. The first day of the seminar included a discussion session on the renewable energy programme in Saudi Arabia and another on the growth of the renewable energy sector in Jordan.

Second Day

The second day seminars were devoted to the discussion of the most prominent issues of renewable and clean energy in the MENA region. The seminars included discussion sessions on the development of the energy sector in

the region; assessment of the potential opportunities and challenges of this vital industry; as well as a discussion on the importance of the Dubai Green Fund; ways of transforming climate action ideas into financing proposals; and the role of public-private partnerships in raising capital for green projects, and the creation of financial instruments that increase the diffusion of active renewable energy technologies. The sessions also included discussion on green buildings, ways to promote power efficiency and increasing reliance on renewable energy in construction sector, in addition to enhancing energy storage techniques, and the contribution of renewable energies to enhance confidence in the future power system.

Third Day

The third and final day seminars covered development of human capital, the growth of jobs in the renewable energy sector, the role of government policy in the growth of the labour market, and investment in recruitment to support the MENA region's preparedness for a greener economy. Discussion

sessions were held on building smart cities, empowering cities with digital technologies to adapt to accelerating global developments and achieving prosperity and leveraging block chain technology to enable energy-sector transactions across parties, leading to a surge in energy diffusion and accelerate their recruitment, by facilitating participation in green investment finance, and contributing to a secure future.

Topics included in the seminars on the third day of the Dubai Solar Show 2018 included electric vehicles (EVs) and the future of green transportation in the region, the Dubai Green Mobility Initiative, Incentive scheme and government support, the global outlook for EVs and their potential growth, in addition to Norway's success in the use of electric vehicles. The sessions also addressed the Green Hydrogen Economy in the GCC, the ambitions of green hydrogen, necessary conditions to achieve them and budding pilot projects.





➤ **WGES 2018 features three pillars: Green Capital, Digital Transformation and Leadership and Social Engagement**

WGEO's first Preparatory Conference took place at WGES 2018 and was attended by high-profile representatives from at least 60 countries

His Highness Sheikh Maktoum bin Mohammed bin Rashid Al Maktoum, Deputy Ruler of Dubai, attended the inauguration ceremony of the fifth World Green Economy Summit 2018 (WGES 2018) in Dubai, held under the patronage of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, on 24-25 October 2018 at Dubai International Convention and Exhibition Centre under the theme 'Driving innovation, leading change'.

During the opening ceremony, His Highness Sheikh Maktoum bin Mohammed bin Rashid Al Maktoum honoured delegations and representatives of countries participating in the Preparatory Conference on the Establishment of World Green Economy Organization (WGEO) where a group photo was taken.

The opening ceremony was attended by prominent figures including HE Francois Hollande, former President of France; HE Dr. Thani Al Zeyoudi, Minister of Climate Change and Environment, UAE; HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy (DSCE), Managing Director and CEO of DEWA, and Chairman of WGES, HE Thoriq Ibrahim, Minister of Environment and Energy, Maldives; Nezha El Ouafi, Secretary of State to the Minister of Energy, Mines and Sustainable Development, in charge of Sustainable Development, Morocco and Christiana Figueres, Former Secretary General, UNFCCC.

Over the course of two days, WGES brought together many prominent speakers from across the globe, in addition to dignitaries and representatives from government organisations, academicians, experts and the media. HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy, MD & CEO

of Dubai Electricity and Water Authority (DEWA), and Chairman of WGES, announced the Dubai Declaration 2018 at the conclusion of WGES 2018, expressing his gratitude and appreciation to His Highness Sheikh Mohammed bin Rashid Al Maktoum, for his patronage of WGES. He also thanked His Highness Sheikh Maktoum bin Mohammed bin Rashid Al Maktoum, Deputy Ruler of Dubai for his presence at the opening ceremony of the summit.

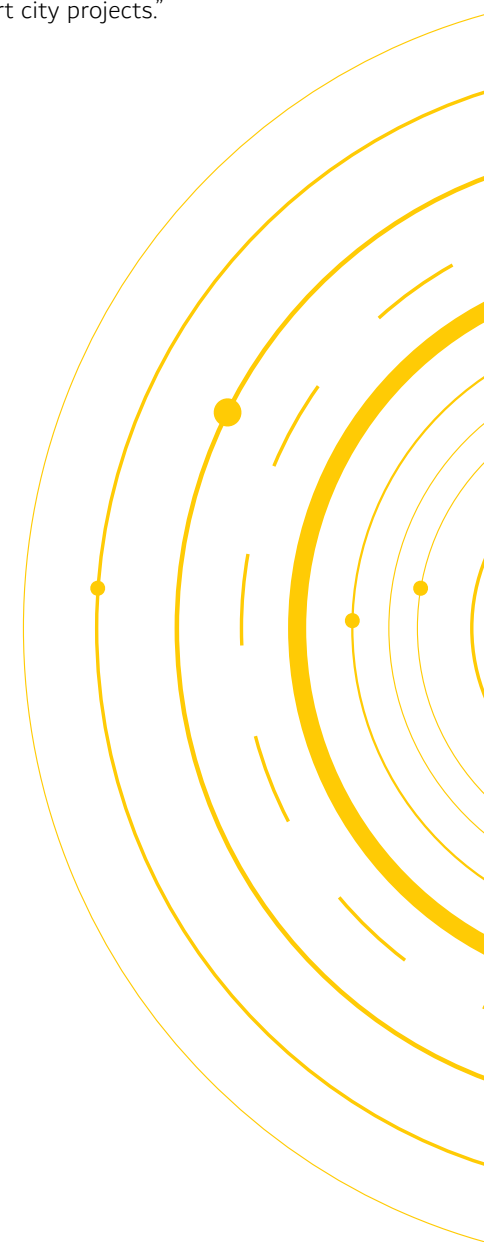
"Since its inception in 2014, WGES has made great progress and many achievements, notably due to increased cooperation between decision-makers from the public and private sectors. Over 3,700 participants consisting of global experts, thought leaders and business leaders in green economy and sustainable development, have participated in WGES 2018 to discuss key issues such as climate change and global warming," said Al Tayer.

WGES 2018 was especially important, because it has set the journey towards the adoption and signature of the agreement establishing the World Green Economy Organization (WGEO). We sincerely hope that we can count many of your countries amongst the original members of WGEO, who have a very important role in shaping its future," added Al Tayer.

"We are concerned by the report recently released by the IPCC defining a stringent scenario for the world to achieve the 1.5 degrees target. Nonetheless we are optimistic, as we know that it can be achieved by harvesting the capabilities of the private sector to make their industries and sectors green. This is why we are here, to form and focus on an engine of green transformation built on diversity and entrepreneurship," stated Al Tayer.

Speaking about the summit's pillars, HE Al Tayer said: "WGES 2018 focused

on three main pillars including 'Green Capital', which has been a focus of discussions at this year's Summit. This comes at a time when the World Green Economy Organisation (WGEO) and the Global Green Growth Institute (GGGI), signed in October 2018 a partnership agreement in Dubai to fast-track green investments into bankable smart city projects."



He noted that the second pillar 'Digital Transformation' captured various insights, highlighting the importance of adopting rapid changes in technology and its futuristic advances, especially the Fourth Industrial Revolution, digital evolution, crypto currencies, blockchain technologies, robotics, machine learning and the Internet of Things (IoT). He added that Digital DEWA, the digital arm of DEWA, is redefining the concept of utilities, creating a new digital future for Dubai. This was a central source of interest for participants interested in digital transformation.

"Dubai has also launched a community awareness campaign for electric vehicles titled E-Sayyara, the first of its kind in the region. E-Sayyara supports the Dubai Green Mobility Strategy 2030, UAE Vision 2021 and Dubai Plan 2021 as well as improves Dubai's sustainability, air quality and fuel efficiency," continued Al Tayer.

"The third pillar was Leadership and Social Engagement. Participants discussed the mechanisms of developing ideal public-private partnerships by developing legislation and regulations that encourage investment opportunities in energy, water and infrastructure projects and improve the quality of their services," elaborated Al Tayer.

"Participants highlighted the need for effective leadership in the public and private sectors to accelerate the transition to a green economy. This could be achieved by introducing progressive policies and incentives, influencing individual behaviour and consumption patterns, or raising environmental awareness. They also



agreed that sustainable development must be inclusive, as it requires the full commitment of public and private sector leaders," said Al Tayer.

"During WGES 2018, we launched the first World Green Economy Report 2018, 'Inspiring Innovations in Business, Finance and Policy,' in collaboration with the University of Cambridge and the United Nations Development Programme (UNDP). This shows the need to adopt more depth and diversity in our approach to building a real green economy and moving the global sustainability agenda forwards," added Al Tayer.

HE Al Tayer noted that WGES 2018 hosted the Silk Road Mayors' Meeting on South-South Cooperation in Smart Green Cities and Tourism, to discuss sustainable development. The first Preparatory Conference took place at

this fifth WGES, attended by high-profile representatives from at least 60 countries.

He said that such participation showed a great commitment from the world towards the green economy and sustainable development. This conference was an important milestone, which set its mark to establish WGEO as a fully-independent international organisation formed by treaty.

"I welcome your cooperation with us to make WGEO operational as soon as possible, so that it can provide the much-needed assistance it requires," concluded Al Tayer, urging every nation all over the world to join the UAE in mobilising its efforts, exchanging ideas, and strengthening global solidarity, to address climate change



SPEECHES AT THE SUMMIT



Dr. Thani Al Zeyoudi

Minister of Climate Change and Environment

The UAE's commitment towards sustainable development promotes green economy concepts

In today's world, a green economy is a critical element to realise the objectives of the Paris Climate Agreement, and the Sustainable Development Goals. Located in a desert environment, the UAE's natural resources such as water and biodiversity are very precious. Our foundation of living such as food and infrastructure is expected to be significantly affected by pollution and climate change.

From a strategic point of view, however, we see these challenges as a great opportunity for the future. With the objective set out under the UAE Vision 2021 to become among the best countries in the world, the UAE has decided to steer its course of

development toward achieving green objectives and economic growth at the same time. Under the UAE Green Agenda 2030 adopted by the Cabinet in 2015, federal and local governments and stakeholders are all striving to take action for realising a green economy, under the framework of 5 pillars and 12 programmes. This is closely related to the Sustainable Development Goals of the United Nations.

Furthermore, our ministry launched the National Climate Change Plan 2050 last year, which consolidates the country's climate mitigation and adaptation initiatives under one integrated framework. This plan sets a clear roadmap and prioritisation

of climate actions for fulfilling the UAE's commitment to the Paris Climate Agreement. The transition to a green economy is not only about government policies. It will require enhanced cooperation among all concerned parties.

Fostering partnerships and financing mechanisms among countries and between the public and private sectors, would be the key to enable gearing the course of development toward a green and sustainable direction.

To achieve results in greening of the UAE economy, we must monitor our progress at every stage, as measuring performance is a critical enabler of the

SPEECHES AT THE SUMMIT

Green Agenda 2030. We set 41 Green Key Performance Indicators which cover economic, social and environmental aspects of sustainable development, in line with the National KPIs of the Vision 2021. Since 2014, we regularly report the performance of 41 indicators to the UAE Council for Climate Change and Environment which I am chairing, and also inform the public through the UAE State of Green Economy Report.

We are pleased to announce the launch of the UAE Green KPIs Platform, which made the results of 41 Green KPIs easily accessible to the public. This online portal also allows any of you to access and analyse all underlining data that measure the status of the UAE's green economy transformation. We hope you will benefit from our open data policy

and work together with us toward a green economy.

Needless to say, finance is the most important factor to make a green economy happen. Our ministry is coordinating with 32 UAE financial firms who strive for improving their practices and products under the Dubai Declaration on Sustainable Finance.

Our ministry is promoting green entrepreneurship among the UAE's youth. We are presenting the Climate Innovation Exchange (CLIX) launched last year that connects young entrepreneurs with investors to help implement sustainable solutions to climate change. At last year's CLIX, 27 finalists exhibited their inventions and met with investors, resulting in nearly half the finalists

receiving funding pledges from investors, totalling more than USD 17.5 million.

We are very pleased that the first World Green Economy Report has been launched by the World Green Economy Organization in partnership with the University of Cambridge Institute for Sustainability Leadership. This first global report tackled this challenging issue, and provide a comprehensive guidance to policymakers and business leaders around the world.

We would like to engage a wide range of stakeholders in the collective journey toward a green economy through knowledge sharing and facilitating financing. We look forward to the further progress of our collective global efforts toward a green economy.



UAE, represented by DEWA, maintains its first global ranking in getting electricity as per World Bank 2019 report

In a new global achievement, the UAE, represented by DEWA, has maintained its first global ranking, for the second consecutive year, with scores of 100% in all Getting Electricity indicators in the World Bank's Doing Business 2019 report. The report measures the ease of doing business in 190 economies around the world.

"This new global achievement reflects the vision of the wise leadership of HH Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE; HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and HH Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces. Our leadership anticipate the future and adopt innovation to enhance sustainability of development in all sectors. This is done through ambitious initiatives and sustainable development projects that support the objectives of the UAE Centennial 2071, which outlines a roadmap for long-term government work and the path for a brighter future for generations to come. The strategy aims to make the UAE the best country in the world," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

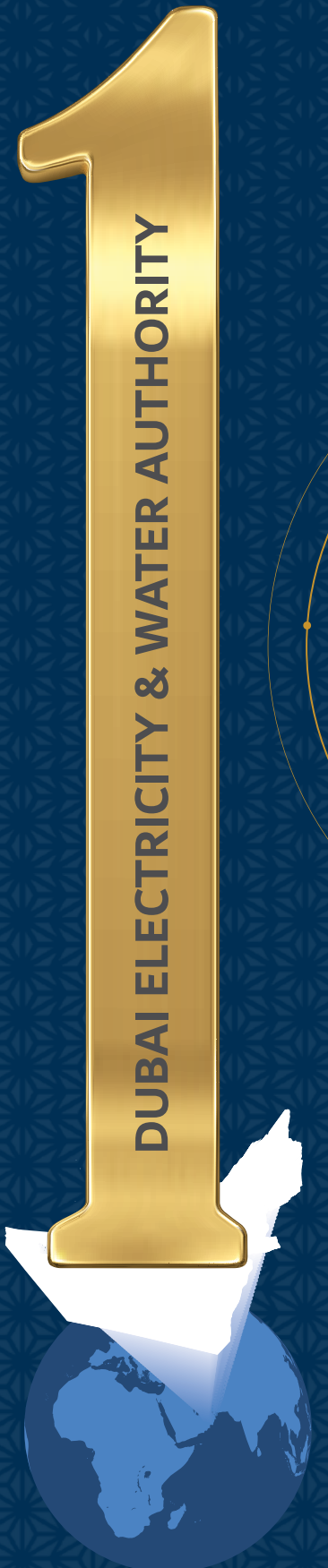
"We dedicate this global achievement to HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, whose vision and resolve guide us in our journey to be number one in all international competitiveness indicators. HH once said, "We have the determination, we have the talent, and we have the resources. Being Number One suits our nation." Sustaining the number one position in getting electricity for the second consecutive year with scores of 100%, as well as our joint efforts with other government departments on their business areas, have contributed to the UAE achieving 11th position globally compared to the 21st position in 2018. We have made this exceptional global achievement because we believe that innovation is a priority for the development of our services and initiatives, and the basis for our strategies and action

plans. We adopt innovation as a key tool for continuous improvement and development to enhance DEWA's competitiveness," said Al Tayer.

In an unprecedented accomplishment, DEWA achieved 100% in all criteria of the Getting Electricity indicator in the World Bank's Doing Business 2019 report. DEWA achieved 100% in all criteria, this includes achieving 100% in the procedures required to obtain an electricity connection and making it easier for customers. DEWA also achieved 100% in the time required, by reducing the time needed for electricity connections. In a move that boosts Dubai's economy, DEWA has also waived the connection costs and security deposit for industrial and commercial projects requiring loads of up to 150 kilowatts, resulting in a score of 100% as well. In the reliability and transparency of tariffs indicator, DEWA also achieved 100%. DEWA achieved very competitive results in global benchmarking. It achieved the lowest customer minutes lost per year (CML) in the world of 2.68 CML, compared to 15 minutes in Europe.

Al Tayer commended the contractors and consultants who actively participated in DEWA's innovation labs and seminars and played a key role in suggesting development initiatives and making recommendations for continuous improvements that facilitate and accelerate the mechanism of access to electricity services, in accordance with the highest international standards and practices. This contributed to launching DEWA's Al Namoos service in December 2014.

"Today's achievement is an addition to DEWA's remarkable accomplishments. DEWA has achieved very competitive results in its global benchmarking, surpassing major European and American utilities. It reduced losses from electricity transmission and distribution networks to 3.3% compared to 6-7% in the US and Europe; and water network losses were reduced to 7.1% compared to 15% in North America. DEWA has succeeded in enhancing the efficiency of fuel use to approximately 90%, while improving production efficiency by 28.87% between 2006 and 2017," concluded Al Tayer.





DEWA showcases its latest innovative and digital initiatives during GITEX 2018

DEWA has promoted its successful participation in GITEX Technology Week 2018. DEWA highlighted its key innovative and digital projects and initiatives that aim to provide quality services and enhance its efforts in supporting the vision of the wise leadership to transform Dubai into the smartest and happiest city in the world.

HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, visited DEWA's stand. He was briefed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, about DEWA's key innovative projects and digital initiatives that provide quality services to the people of Dubai. HH Sheikh Ammar bin Humaid Al Nuaimi, Crown Prince of Ajman and Chairman of the Ajman Executive Council; HE Suhail bin Mohammed Faraj Faris Al Mazrouei, Minister of Energy and Industry; HE Dr. Thani bin Ahmed Al Zeyoudi, Minister of Climate Change and Environment,

During its participation in GITEX 2018, DEWA showcased a model of its Future Customer Happiness Centre

and a number of officials from the public and private sectors also visited DEWA's stand at GITEX. DEWA's stand attracted a large number of visitors who commended its innovative projects, smart services, and initiatives that use artificial intelligence (AI), robotics and Internet of Things (IoT).

Al Tayer commended GITEX and its organisers for creating the region's largest exhibition of its kind. The event emphasises Dubai's position as a hub for organising the largest international exhibitions, and a platform that attracts the latest disruptive technologies, as well as the best global experiences and practices that keep pace with the Fourth Industrial Revolution.

"Each year, we participate in GITEX to share best experiences and practices in smart transformation 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 transform

Dubai into the smartest and happiest city in the world, and the directives of His Highness to reduce visits to government centres by 80%. We also work in line with the Dubai Paperless Strategy, which was 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 ensure that the government environment is completely paper-free by 2021. The smart adoption of DEWA's services reached 92% in Q3 of 2018," said Al Tayer.

Al Tayer noted that DEWA is creating a new digital future for Dubai through Digital DEWA, the digital arm of DEWA, by becoming the world's first digital utility to use autonomous systems for renewable energy and storage, while expanding the use of AI and digital services.

During its participation in GITEX 2018, DEWA showcased a model of its Future Customer Happiness Centre, with its smart

self-service booths that make it easier for customers to complete their transactions, Tayseer smart bill payment; and remote support through live chat using robots. Services shown also included the High-Water Usage Alert initiative, under Green Dubai, that helps customers identify possible leaks in their water connections by way of their meters. If there are any unusual increases in consumption, the system will send instant notifications to customers alerting them of the potential leak. DEWA also demonstrated its MORO data hub that offers data centre services and business solutions for public and private companies in the UAE and the region.

DEWA's projects and initiatives also included DEWA Store, which it launched on its smart app to provide exclusive offers and discounts to its customers, in cooperation with a number of public and private sector companies. It also demonstrated Rammas, its virtual employee that answers customers' enquiries in Arabic and English on DEWA's website, smart app, Facebook page, Amazon's Alexa, Google Assistant, and robots. DEWA also demonstrated its Microsoft Hololens, which it uses to enhance its operations, accelerate innovation, and monitor and evaluate maintenance operations among other services.

DEWA also showcased the Ebtikari platform which encourages inventors and innovators from all over the world to send their innovations and ideas. DEWA's Afkari portal allows DEWA's staff to present their innovative ideas and vote on the best ideas, similar to social media sites.

The Inventors' Corner displayed a number of inventions and innovations by DEWA's employees. These included the CCTV cars, remotely controlled cars with cameras attached to them; the smart helmet; smart ankle, and smart gloves; as well as other tools that support the field operations of DEWA's engineers, in addition to the smart warning tape which is used to protect infrastructure from damage. DEWA conducted daily raffle draws for its customers. Customers who used DEWA's online services using DEWA's smart app, website, the Dubai Now app, or through banks by using ATMs, check deposit machines, online banking, smart banking apps, or the self-service payment kiosks by Etisalat from 1 January 2018 to 30 September 2018, entered the draw. The services included bill payments; Move-in, Move-to and Move-out services; electric vehicle Green Charger card services; and DEWA Store applications.

Customers entered the grand prize raffle draw by registering for the AutoPay feature on DEWA's or the Dubai Now app from 1 January 2018 until 13 October 2018. Customers could also enter the post-GITEX prize raffle draw, which is conducted at the end of the year, by registering for the AutoPay feature on the DEWA or Dubai Now smart apps, from 14 October up to 31 December 2018.



Mohammed bin Rashid Al Maktoum Solar Park adds 250MW to its 4th phase to reach 950MW taking total investment to AED 16 billion

DEWA has signed an amendment to the Power Purchase Agreement (PPA) with the consortium led by Saudi Arabia's ACWA Power for the fourth phase of the Mohammed bin Rashid Al Maktoum Solar Park. The amendment includes adding 250MW of photovoltaic solar panels, at a cost of 2.4 US cents per kilowatt hour, the world's lowest. With this addition, the total capacity of the fourth phase of the solar park will rise from 700MW to 950MW. Following the amendment, the total investment for the ambitious project has reached AED 16 billion. This achievement is part of DEWA's efforts to achieve the objectives of the Dubai Clean Energy Strategy 2050.



Crown Prince of Dubai and Chairman of The Executive Council of Dubai, HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum said: "The capacity expansion of the Mohammed bin Rashid Al Maktoum Solar Park further consolidates the UAE's leadership in the field of sustainable development and provides another impetus to our clean energy strategy."

"The UAE's leaders accord this sector high priority in their vision for the nation's future. Furthermore, being at the forefront of technological advancement in this sector is critical to Dubai's aspiration of becoming one of the leading cities of the world. We see this project being a unique model for large clean energy projects elsewhere in the world. This ambitious initiative also adds a new facet to our cooperation with two of our strongest partners, Saudi Arabia and China. The project brings together a distinctive combination of advanced knowledge and expertise to create the largest single-site solar park in the world," His Highness added.

Three technologies

The project will use three technologies to produce clean energy: 600MW from a parabolic basin complex, 100MW from a solar tower and 250MW from photovoltaic panels.

The fourth phase is the largest investment

HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum:

"Capacity expansion of Solar Park further consolidates UAE's leadership in the field of sustainable development"

project in the world using Concentrated Solar Power (CSP) on a single site, and is based on the Independent Power Producer (IPP) model. The project will have the world's tallest solar tower at 260 metres, and the largest thermal energy storage capacity in the world of 15 hours, which allows for energy generation round the clock.

The agreement was signed by HE Saeed Mohammed Al Tayar, MD & CEO of DEWA and HE Mohammad Abdullah Abunayyan, Chairman of ACWA Power. Ishaq Al Hammadi, Managing Director at ACWA Power-UAE, and Abdul Hamid Al Muhaidib, Executive Managing Director of Noor Energy 1, were present.

DEWA to waive new connection charges for commercial and industrial customers for the next 2 years to boost Dubai's economy



Dubai, UAE, 3 December 2018: As part of DEWA's effort to promote Dubai's economic development, DEWA has waived new connection charges for connections of up to 150kW for commercial and industrial customers, for the next 2 years.

"We have ambitious initiatives and sustainable development projects that support the vision of our wise leadership and the objectives of the UAE Centennial 2071, which outlines a roadmap for long-term government work and the path for a brighter future for generations to come. The strategy aims to make the UAE the best country in the world," said HE Saeed Mohammed Al Tayar, MD&CEO of DEWA.

"Now, connections of up to 150kW are done in just one step within seven days. Our joint efforts have contributed to DEWA's global achievements. The UAE, represented by DEWA, has maintained its first global ranking, for the second consecutive year, with scores of 100% in all Getting Electricity indicators in the World Bank's Doing Business 2019 report. The report measures the ease of doing business in 190 economies around the world," added Al Tayar.

Her Excellency Shamma Al Mazrui welcomes members of DEWA's Youth Council



Her Excellency Shamma bint Suhail bin Faris Al Mazrui, Minister of State for Youth Affairs, welcomed members of DEWA Youth Council at the Youth Centre at Emirates Towers in Dubai. During the meeting, Her Excellency emphasised the pivotal role of youth councils in the UAE in supporting the directives of the wise leadership to effectively involve and empower the youth.

Fatima Mohammed Al Jokar, Chairperson of DEWA's Youth Council, briefed Her Excellency about the Council's latest achievements and ideas presented to DEWA's management and got implemented, as well as its participation in various events, and contributions to empowering young people and enhancing their role in achieving the sustainable development of the UAE.

HE Saeed Mohammed Al Tayar, MD & CEO of DEWA, appreciated Al Mazrui's hosting of DEWA's Youth Council, commending Her Excellency's commitment to communicating with the youth, listening to their ideas, and involving them in the decision-making process related to challenges that face the youth in the UAE.



DEWA participates in Arabia CSR Forum 2018

HE Saeed Mohammed Al Tayar, MD & CEO of DEWA, delivered a keynote speech at the Arabia CSR Forum 2018, which was organised by the Arabia CSR Network. The forum, under the theme 'Driving Innovation through the SDGs' was held in October 2018 at Roda Al Murooj hotel in Dubai.

The inaugural session was attended by H.E. Engr. Sheikh Salem bin Sultan bin Saqr Al-Qasimi, Chairman of the Department of Civil Aviation of Ras Al Khaimah; HE Dr. Rashid Al Leem, Chairman of Sharjah Electricity and Water Authority (SEWA); Habiba Al Marashi, President of Arabia CSR Network, and number of senior officials from the public and private sectors and leading Corporate Social Responsibility (CSR) specialists.

DEWA trains its staff on quantum computing in cooperation with Microsoft

DEWA organised the first intensive quantum computing training programme, in cooperation with Microsoft. The programme is part of DEWA's efforts to employ the latest technologies and benefit from the capabilities of modern technology. The one-week programme was held at DEWA's Sustainable Building in Al Quoz. A number of quantum computing experts from Microsoft participated in the programme, which was attended by DEWA's management and specialised staff.

The programme, which is the first of its kind outside the US, aimed to develop new solutions based on quantum computing for the production, transmission and distribution of energy and water, as well as in conservation efforts. It also aimed to identify the challenges that quantum computing

can deal with, consider DEWA is working closely with Microsoft to develop a quantum strategy, programme quantum algorithms, build capacity, and test the solutions within Microsoft's Azure platform even before the development of general-purpose quantum computers. This will ensure a seamless migration for these solutions when quantum computers become widely available, around the world.



DEWA organises 4th Suppliers Cricket Tournament

In line with the efforts of DEWA to strengthen relationships with all stakeholders and ensure long-term strategic partnerships, DEWA organised the fourth Suppliers Cricket Tournament at InSportz Club, Al Quoz with the participation of 24 corporate teams. Obaid Humaid Al Tayer Company's team came in the first place.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, applauded the efforts of the participating teams and the spirit of competition that gave the games an atmosphere of fun and challenge. The competition was part of a distinguished programme that brought together staff, families, and supporters in one place.

MD & CEO of DEWA leads a delegation to Huawei headquarters in Shanghai

A delegation led by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, visited Huawei, a leading global Information and Communications Technology (ICT) company, in Shanghai, China. The visit aimed to enhance mutual relationships and share best practices and experiences in the fields of innovation, disruptive technologies, smart networks, digital transformation, automation, cloud platforms, and artificial intelligence (AI).

Al Tayer was accompanied by Marwan Bin Haidar, Executive Vice President of Innovation and the Future at DEWA; Waleed Salman, Executive Vice President of Business Development and Excellence; and Dr. Yousef Al Akraf, Executive Vice President of Business Support and Human Resources at DEWA. At the Huawei headquarters, Al Tayer and



the accompanying delegation met with Guo Ping, Rotating Chairman of Huawei; Jerry Ji, President of Global Energy Sector; Charles Yang, President of Middle East Region at Huawei Technologies; Terry He, President of Middle East Enterprise Group; and Li Shi, CEO of Huawei UAE.

Al Tayer signed a memorandum of understanding (MoU) with Guo Ping, to build a partnership that achieves

the strategic objectives of both parties; including the co-creation of digital services, co-marketing of digital products in the UAE and around the world, and the co-sharing of the value created from these businesses enabled services.

Al Tayer and the accompanying delegation also visited Huawei Connect Worldwide 2018 – Huawei's largest exhibition in the global ICT ecosystem.

Suqia discusses its key humanitarian projects and initiatives in Year of Zayed during its second meeting for this year

The Board of Trustees of the UAE Water Aid Foundation (Suqia), under the umbrella of the Mohammed bin Rashid Al Maktoum Global Initiatives, held its second meeting for this year, chaired by HE Saeed Mohammed Al



Tayer, Chairman of the Board of Trustees. The meeting was attended by Board Members: HE Fahad Abdelrahman bin Sultan, Deputy Secretary-General for International Aid in the UAE Red Crescent Authority and

Vice Chairman of the Board of Trustees of Suqia; HE Professor Ahmed Murad, Dean of the College of Science in the United Arab Emirates University; HE Dr. Arif Sultan Al Hammadi, Director and Acting Executive Vice

President of Khalifa University of Science and Technology; HE Sultan Mohammed Al Shamsi, Assistant Minister of Foreign Affairs and International Cooperation for International Development Affairs; Nasser Lootah, Executive Vice President of Generation at DEWA; Waleed Salman, Executive Vice President of Business Development & Excellence at DEWA; Mohammed Abdulkareem Al Shamsi, Acting Executive Director of Suqia; and Fahad Abdullah bin Afira Al Falasi, Secretary of the Board of Trustees of Suqia.

The meeting reviewed Suqia's humanitarian efforts during the 2nd and 3rd quarters of the Year of Zayed as part of its efforts to provide drinking water to the needy around the world, as well as Suqia's projects and initiatives implemented in cooperation with the Mohammed bin Rashid Al Maktoum Humanitarian and Charity Establishment, the UAE Red Crescent Authority, and Dubai Electricity and Water Authority (DEWA).

Al Tayer noted that the Board of Trustees discussed Suqia's projects in the past months and approved the second set of projects that will be implemented during the Year of Zayed,

in cooperation with the Mohammed bin Rashid Al Maktoum Humanitarian and Charity Establishment. These projects are part of the '100 Water Projects' initiative for 120,000 people in 12 countries, and 'Suqia Zayed' which benefitted around 390,000 people during the Holy Month of Ramadan in 13 countries. Suqia also provided 14 local charities with 8.1 million water cups for those fasting during the Holy Month. Last June, Suqia organised a voluntary campaign to implement developmental and operational projects in Uganda in cooperation with the Mohammed bin Rashid Al Maktoum Humanitarian and Charity Establishment and another journey to Upper Egypt in September under the theme of 'Ayadi Zayed' with the participation of volunteers from DEWA.

Suqia received messages from the public directed to the late Sheikh Zayed, as part of the '100 Letters to Zayed' initiative, during its participation at the Water, Energy, Technology, and Environment Exhibition (WETEX 2018), which was organised by DEWA. Visitors shared their messages about the impact the late Sheikh Zayed bin Sultan Al Nahyan left on them. Suqia will publish these messages on social media platforms and in a book titled 'Letters to Zayed' by the end of the year.

70 volunteers participated in Suqia's trips and activities so far this year as part of the 100 Volunteers initiative, which aims to consolidate the values of volunteerism and humanitarian work among the youth.



DEWA launches 'My Sustainable Living' programme to enable customers to compare their usage with similar homes

DEWA has launched 'My Sustainable Living' programme, which enables residential customers to compare their monthly electricity and water usage with the average usage of similar efficient homes. The programme is part of DEWA's ongoing efforts to encourage customers to use electricity and water responsibly. The programme helps customers make informed decisions based on current data that enables them to compare their monthly electricity and water consumption with similar homes and other efficient homes; encouraging a healthy competition among customers to reduce their consumption and their carbon footprints.

The programme, which targets around 480,000 residential customers in Dubai, includes four main features. These include a comparison dashboard of similar homes in the region, and other efficient similar homes, a graph of estimated consumption trends, a monthly consumption report, and conservation tips to help customers use electricity and water responsibly. DEWA interacts with the users through its website, smart app, e-mail, and text messages.

A total of 343,000 customers have been enrolled in the first phase of the programme. DEWA aims to eventually enrol all residential customers after completing the installation of the smart meters, which provide a host of advanced features.

"MY SUSTAINABLE LIVING" PROGRAMME.





DEWA marks World Energy Day 2018

DEWA encouraged organisations and individuals in the UAE to use electricity and water responsibly, promote efficiency and sustainability of energy and increase the share of clean and renewable energy. DEWA called for this on World Energy Day, which takes place every 22 October. This supports the nation's efforts to protect the environment and natural resources, reduce the carbon footprint, and promote a sustainable green future for generations to come. World Energy Day is an initiative that was endorsed by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai and adopted by 54 countries, in addition to the United Nations, the Arab League, and the African Union Commission during the World Energy Forum 2012 in Dubai.

DEWA organised several activities during World Energy Day to raise awareness about energy issues, promote a culture of sustainability and green economy, and emphasise the importance of energy conservation in mitigating the effects of climate change.



DEWA celebrates National Day in an atmosphere of distinguished national heritage

DEWA celebrated the 47th National Day in an atmosphere of distinguished national heritage. The day was filled with historical activities that underline the UAE's national identity and belonging to the Union that was consolidated by the late Sheikh Zayed bin Sultan Al Nahyan and the late Sheikh Rashid bin Saeed Al Maktoum. The celebrations, under the slogan 'Zayed ... always in our hearts,' were attended by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, DEWA's Executive Vice Presidents, Vice Presidents and staff. Dr. Rafia Ghubash, Founder of the Women's Museum; Ishaq Alhammedi, UAE Country Manager at Saudi Arabia's Aqua Power; Abdul Hamid Al Muhaidib, Executive Managing Director of Noor Energy 1, Emirati poets Musabah Ali Al Kaabi and Rashid bin Ghalaita Al Ghafli, Saudi poet Abdullah bin Hejab bin Naheet; and Abdullah Ismail were also present. A large number of customers took part in the National Day celebrations.

In his keynote speech, Al Tayer extended his warmest congratulations to HH Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE; HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai; HH Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces; Their Highnesses the Members of the Supreme Council and Rulers of the Emirates; Their Highnesses the Crown Princes, Their Highnesses the Deputy Rulers; and the UAE's citizens and residents.

DEWA's National Day celebrations included a number of traditional activities in its head office as well as its offices in Jebel Ali, Al Hudaiba, and the Sustainable Building in Al Quoz. Activities included poetry sessions; a national show presented by boys and girls from Al Baraa Kindergarten, an Emirati and Saudi traditional performances, a henna corner, a traditional food corner, a traditional Dukkan grocery, and other traditional and national activities.



DEWA announced the completion of the second phase of its 'Green Charger' initiative, which included the installation of an additional 100 EV Green Charger stations across Dubai.

With the completion of the project, the total number of charging stations in Dubai has doubled from 100 to 200. The initiative contributes to DEWA's efforts to encourage environmentally-friendly electric vehicles to reduce carbon emissions and to support

DEWA announces installation of 100 additional EV Green Charger stations for a total of 200 stations across Dubai

sustainable modes of transport in Dubai.

The second phase of the EV Green Charger initiative covered several new sites, in cooperation with other government entities such as Dubai Police, Dubai Municipality, RTA, Dubai Health Authority, Dubai Courts, Dubai Culture Authority and Expo 2020 Dubai. As part of the efforts to support the comprehensive development of Hatta, DEWA has installed a fast charging station at an ENOC petrol station there, increasing the number of EV Green Chargers to three in the Hatta region. DEWA also cooperated with ADNOC to install fast charging stations at their petrol stations, which will be opening soon in Dubai. The chosen locations will

provide better customer service in terms of geographical distribution of these stations.

DEWA has strengthened its cooperation with leading real estate developers in Dubai such as Meraas, Nakheel and Majid Al Futtaim Group by installing EV Green Chargers at their leading projects and shopping malls such as the Mall of the Emirates, Ibn Battuta, La Mer, The Outlet Village, City Walk and a number of other featured locations in Palm Jumeirah. DEWA also installed charging stations at Dubai World Trade Centre, DIFC and Dubai Airport Free Zone. These sites are strategically important as they reflect Dubai's leading position, to the participants of international conferences and exhibitions held in Dubai.

Under the Patronage of His Highness Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, Minister of Finance of the UAE and President of DEWA

Part of Dubai Electricity and Water Authority's Green Week Initiative

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DEWA and UC Berkeley provide Master's in Future Energy Systems and Technology for staff

DEWA has signed a Memorandum of Understanding (MoU) with the University of California, Berkeley to enable DEWA's distinguished staff to obtain Master's degrees in Future Energy Systems and Technology.

The MoU was signed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, and Dr Diana Wu, Dean at UC Berkeley. Dr Yousef Al Akraf,

Executive Vice President of Business Support and Human Resources at DEWA, and Darek De Freece, Managing Director of New Academic Ventures at Berkeley, were present.

The first batch of 20 DEWA staff will join the Master's programme in the first half of 2019. They will be selected based on certain criteria in collaboration with UC Berkeley.

The study programmes will cover future energy disciplines that blend research and practice. These include Advanced Power Systems Analysis, Power Electronics, System Controls and Protection, Artificial Intelligence, Cybersecurity, Renewable Generation Systems and Integration, Integrated Resource Planning, Grid Automation, and Water Desalination and Distribution Technology.

MD & CEO of DEWA visits Women's Museum in Dubai

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, stated that the UAE's wise leadership prioritised empowering women, respecting them, and activating their important role in the development process over the past decades. The success of Emirati women is derived from the efforts of the late Sheikh Zayed Bin Sultan Al Nahyan, and the intense care given by the UAE's leadership to women.

Al Tayer made these remarks during his visit to the Women's Museum, accompanied by Khawla Al Mehairi, Executive Vice President of Strategy and Government Communications; and members of the Women's Committee at DEWA, upon an invitation by Dr. Rafia Ghubash, Founder of the Women's Museum.



Al Tayer stressed that such visits to institutions concerned with women's issues and their role in the development of society are a source of inspiration for DEWA's

female employees, motivating them to gain more knowledge and experience, and excel in various aspects of life.



DEWA launches Noor & Hayat Adventures animated series to promote environmental awareness among children

DEWA has launched the first episode of 'Noor and Hayat Adventures' animated series, which are based on DEWA's cartoon characters that represent electricity and water. The move supports DEWA's ongoing efforts to consolidate environmental awareness among members of society, especially the younger generation. The animations are available on DEWA's YouTube channel (DEWAOfficial). The adventures are also published in 'Noor and Hayat Adventures' magazine on DEWA's website (www.dewa.gov.ae) under Sustainability section.

To mark the occasion, DEWA organised a number of activities at KidZania Dubai Mall. Noor and Hayat as well as 1,500 children of different age groups took part in the two-day activities which included interactive workshops and competitions, with gifts distributed to participants in a joyful and fun atmosphere.

'Noor and Hayat Adventures' films and stories are available in Arabic and English. The idea is based on exciting adventures by Noor, Hayat, and their friends in the 'City of Happiness' to promote the sensible use of electricity and water, preserve natural resources, and protect the environment. In addition to the stories about the conservation heroes, 'Noor and Hayat Adventures' magazine includes educational topics and activities presented in fun and simple ways that suit the youngsters, with the aim to develop their skills and capabilities.



The Dubai Supreme Council of Energy launches the fourth edition of Emirates Energy Award 2020

Under the patronage of HH Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President and Prime Minister and Ruler of Dubai, the Dubai Supreme Council of Energy (DSCE) launched the fourth edition of Emirates Energy Award (EEA) 2020 to be held under the theme 'Inspiring Innovation for Sustainable Energy'.

The Emirates Energy Award (EEA) is a regional award that encourages the rational use of energy and resources. The award aims to highlight the best practices and pioneering work in energy efficiency, alternative energy, sustainability and conservation of the environment. The award recognises the efforts of the public and private sectors across the region in energy efficiency, energy projects and education and research in the energy sector. A special recognition award is also available for outstanding contributors to the energy sector.

EEA this year will offer 10 categories which are: Energy Efficiency-Public & Private Sectors (Gold, Silver, and Bronze), Energy Efficiency - Private Sector (Gold, Silver, and Bronze), Large Energy Project (Gold, Silver, and Bronze), Small Energy Project (Gold, Silver, and Bronze), Connecting Solar Power to Buildings Project for Large Projects (more than 500 KW) (Gold, Silver, and Bronze), Connecting Solar Power to Buildings Project for Small Projects (less than 500 KW) (Gold, Silver, and Bronze), Education and Capacity Building (Gold, Silver, and Bronze), Applied Research and Product Development (Gold, Silver, and Bronze), Young Professional Energy Award (Gold, Silver, and Bronze), and Special Recognition Award.





services saw a spike in use by customers who commended the ease of using the smart services, which saved their time and effort. Customers made around 3,000 smart transactions daily with a total of 15,000 smart transactions over 5 days.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, received a delegation from the Department of Finance headed by HE Abdulrahman Saleh Al Saleh, Director General of Dubai Government's Department of Finance, at DEWA's Future Customer Happiness Centre in Dubai Festival City Mall. The delegation was briefed about the smart services that the centre provides.

DEWA opened the Future Customer Happiness Centres at Dubai Festival City Mall, Ibn Battuta Mall, and Dragon Mart 2 and its Centres in Al Twar and Burj Nahar. These centres use Artificial Intelligence (AI) and robotics in their provision of smart and innovative services, with customer satisfaction in the centres reaching 97% during Q3 of 2018..

Sharp rise in customers using DEWA's smart services

DEWA took part in the 'Week without Service Centres' initiative, which was launched by the Department of Finance in Dubai, to enhance digital transformation in government transactions. DEWA's smart and electronic



DEWA signs MoU with Dubai Police to install Green Chargers in Dubai police stations

DEWA has signed a Memorandum of Understanding (MoU) with Dubai Police to deploy electric vehicle charging stations 'Green Chargers' in Dubai Police stations. This will serve its visitors as well as Dubai Police electric vehicles. The MoU builds on the strategic partnership between DEWA and

Dubai Police to establish a comprehensive plan that supports Dubai's futuristic vision.

The MoU was signed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, and HE Major General Abdullah Khalifa Al Marri, Commander-in-Chief of Dubai Police.

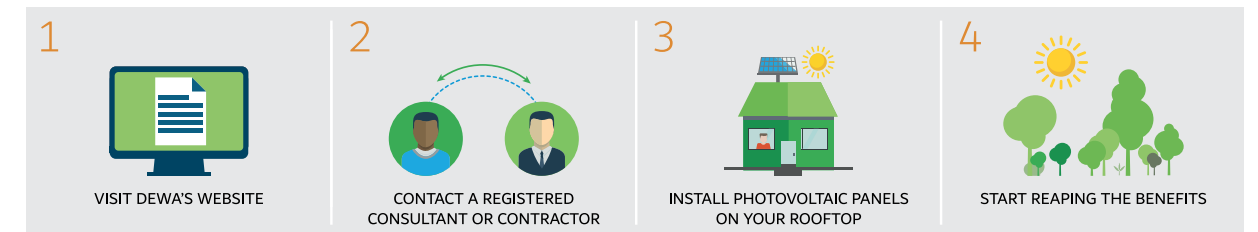
DEWA has installed 200 Green Chargers across Dubai. To encourage the public to use eco-friendly electric vehicles, DEWA provides free charging for cars registered for the Green Chargers until the end of 2019.



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OTHER NEWS

UK renewables start-up Octopus is teaming with a Silicon Valley firm in a smart energy push

Octopus Energy, a UK renewable energy company, is set to announce an integration with If This Then That (IFTTT) to enable customers to automatically adjust energy usage based on changes in price.

This allows users to automatically turn smart devices or appliances on or off when the price of energy changes or when the price of energy will be below a certain level for a prolonged period of time. Actions can also be triggered when consumption in a day, week or month exceeds a nominated value.



Renewables surpassed fossil fuels capacity in Germany last year

In their annual monitoring report, Germany's Federal Network Agency and the Federal Cartel Office have analysed the figures for 2017. At the end of last year, renewables accounted for around 112.5 GW of operational capacity, while conventional sources totalled 105.1 GW.

Construction begins on 300MW Sakaka solar project in Saudi Arabia


Saudi Arabia's King Salman bin Abdulaziz has marked the start of construction on the 300MW Sakaka solar photovoltaic (PV) IPP project, with a ground-breaking ceremony in Al Jouf. The project is said to be the first renewable energy project that is being built under King Salman's renewable energy initiative.

ACWA Power and AlGihaz Holding Company announced financial closure for the SAR1.2bn (\$319m) project.

It is estimated to generate enough clean energy that will be sufficient to power 45,000 households in Al Jouf region while offsetting over 430,000 tonnes of carbon dioxide a year.

Additionally, the project will create new employment opportunities in various fields including construction and operations.





50 MWh Tesla Battery Commissioned At Australian Solar Power Plant

A 25 MW/50 MWh Tesla grid-scale battery was commissioned recently at the 60 MW Gannawarra solar power plant north of Melbourne in the Australian state of Victoria. This makes the Gannawarra facility the largest in the country to be retrofitted with a storage battery. Installation of a 30 MW/30 MWh battery at the Ballarat power station in Victoria was completed. That battery is expected to begin operations before next summer.

In Mauritius, sugar cane is fast replacing fossil fuels

The island nation of Mauritius is weaning itself off fossil fuels by turning to sugar cane for electricity.

Electricity from sugar cane now accounts for 14% of the island's needs and, when combined with other renewable sources such as solar, wind, and hydro, provides nearly a quarter of daily consumption.

The government there is aiming to increase the share of renewable energy in the energy mix to 35% by 2025, with 11 solar parks already planned by next year and at least two wind farms.



SUSTAINABLE CITIES

DUBAI SOUTH



Dubai South is an economic free zone and an exceptional investment destination due to its strategic location and the possibility for foreign ownership among others. Being located in the fastest growing region of Dubai, Dubai South has an advanced infrastructure in proximity to several important facilities.

The city is five minutes away from Al Maktoum International Airport, and 45 minutes from

Dubai International Airport. It is also only 45 minutes away from Abu Dhabi International Airport, and 30 minutes away from Burj Khalifa and Downtown Dubai.

Dubai South is committed to providing state-of-the-art technology for smart and sustainable cities in an integrated and seamless manner throughout the residential area that is specifically designed to provide happy life solutions.

The residential area concept in Dubai South is based on key community themes outlined in Dubai Plan 2021 as it is centred primarily on providing all the elements of individual happiness and well-being. It provides a dynamic and integrated community for families and working youth, including facilities like schools, nurseries, hospitals, retail stores, and others.

The residential area in Dubai South is implementing The Villages and The Pulse projects that are located on an 87-million square feet area adjacent to Expo 2020 site.



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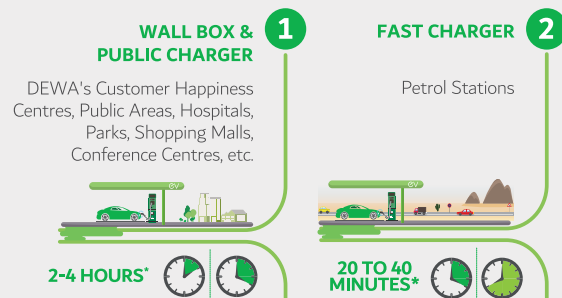


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