



Al Masdar

Issue 64 - September 2017

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OFFICIAL SUSTAINABLE ENERGY PARTNER

HH Sheikh Mohammed bin Rashid Al Maktoum

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

“Most people talk; we do things. They plan;
we achieve. They hesitate; we move ahead.”



Our Vision

A sustainable innovative world-class utility.

Our Mission

We are committed to the happiness of our stakeholders and promoting Dubai's vision through the delivery of sustainable electricity and water services at a world-class level of reliability, efficiency and safety in an environment that nurtures innovation with a competent workforce and effective partnerships; supporting resources sustainability.

Our Values

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

Our Motto

For generations to come.

MD & CEO Message



SAEED MOHAMMED AL TAYER
MD & CEO OF DEWA

Pioneering towards becoming the smartest and happiest city in the world

In May 1999, HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, launched the Dubai eGovernment initiative to conduct government transactions online. Eighteen months later, Dubai had the first eGovernment in the region. In October 2013, His Highness launched the Smart Dubai initiative to transform Dubai into a smart city where facilities and services are managed via smart and integrated systems, offering a new quality of life for all residents and visitors. Today, Dubai is confidently becoming the smartest and happiest city in the world.

For Dubai, sustainability is a key factor in its transformation into a smart city. Dubai Plan 2021 aims to make Dubai a smart and sustainable city, and the Dubai Clean Energy Strategy 2050 aims to increase the share of clean energy to 75% by 2050, and make Dubai the city with the lowest carbon footprint in the world. DEWA has taken pioneering steps in developing and implementing strategies and plans to use renewable energy sources to contribute to the sustainable and comprehensive development of the Emirate. This has helped make Dubai a role model for clean and renewable energy. The UAE's interest in renewable energy has contributed to reducing its cost globally. This was evident in DEWA receiving the lowest Levelised Cost of Electricity (LCOE) of USD 7.3 cents per kilowatt hour for the Concentrated Solar Power (CSP) project. The 700MW fourth phase of the Mohammed bin Rashid Al Maktoum Solar Park will cost AED14.2 billion, and is the largest single-site CSP project in the world based on the Independent Power Producer model.

As part of its efforts to support Smart Dubai, DEWA launched three smart initiatives in 2014. These are Shams Dubai to connect photovoltaic panels on rooftops to DEWA's grid, Smart Applications through Smart Meters and Grids, and the Green Charger to build the infrastructure for electric vehicle charging stations. This initiative encourages people to use sustainable transportation to help reduce carbon emissions in the transport sector, which is the second-highest contributor of Greenhouse Gas (GHG) emissions in Dubai. DEWA has built over 100 Green Chargers in Dubai. The number will double to 200, next year. To encourage the public to use electric vehicles in Dubai, we have recently launched a package of incentives for electric-vehicle users, in cooperation with the Roads and Transport Authority (RTA). These include free charging for registered users in the Green Charger service, until the end of 2019, only at public charging points, and exemption from registration or renewal fees, and Salik tag fees.

According to a report released by the United States Environmental Protection Agency, the transportation sector is one of the largest GHG emitters, producing 27% of the total in the US in 2015. The same report indicates that light-duty vehicles were the largest category within the sector, with 60% of GHG emissions. This is why the shift to using electric and hybrid vehicles can help address climate change, reduce global warming, and limit the rise in the Earth's temperature.

We will continue supporting the vision of our wise leadership by keeping pace with the Fourth Industrial Revolution, taking advantage of disruptive technologies in all areas, and supporting the Dubai 10X initiative, which sets the Government of Dubai on a mission to be a global leader that is 10 years ahead of all other cities. This is done through government innovation and reformulation of traditional work mechanisms to keep up with the changes taking place in the world. This will place Dubai at the forefront of cities that do not only shape the future, but create it as well.



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Shaikha Almheiri

Media Desk
Mosaad Abdulrahman
Iman Al Marri
Raouia Hamiche

Dubai Electricity and Water Authority

Main Office - PO Box 564
Tel: +971 4 324 4444
Direct: +971 4 515 1784
Fax: +971 4 324 8111
Website: www.dewa.gov.ae
Email: media@dewa.gov.ae

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DEWA SMART WORLD

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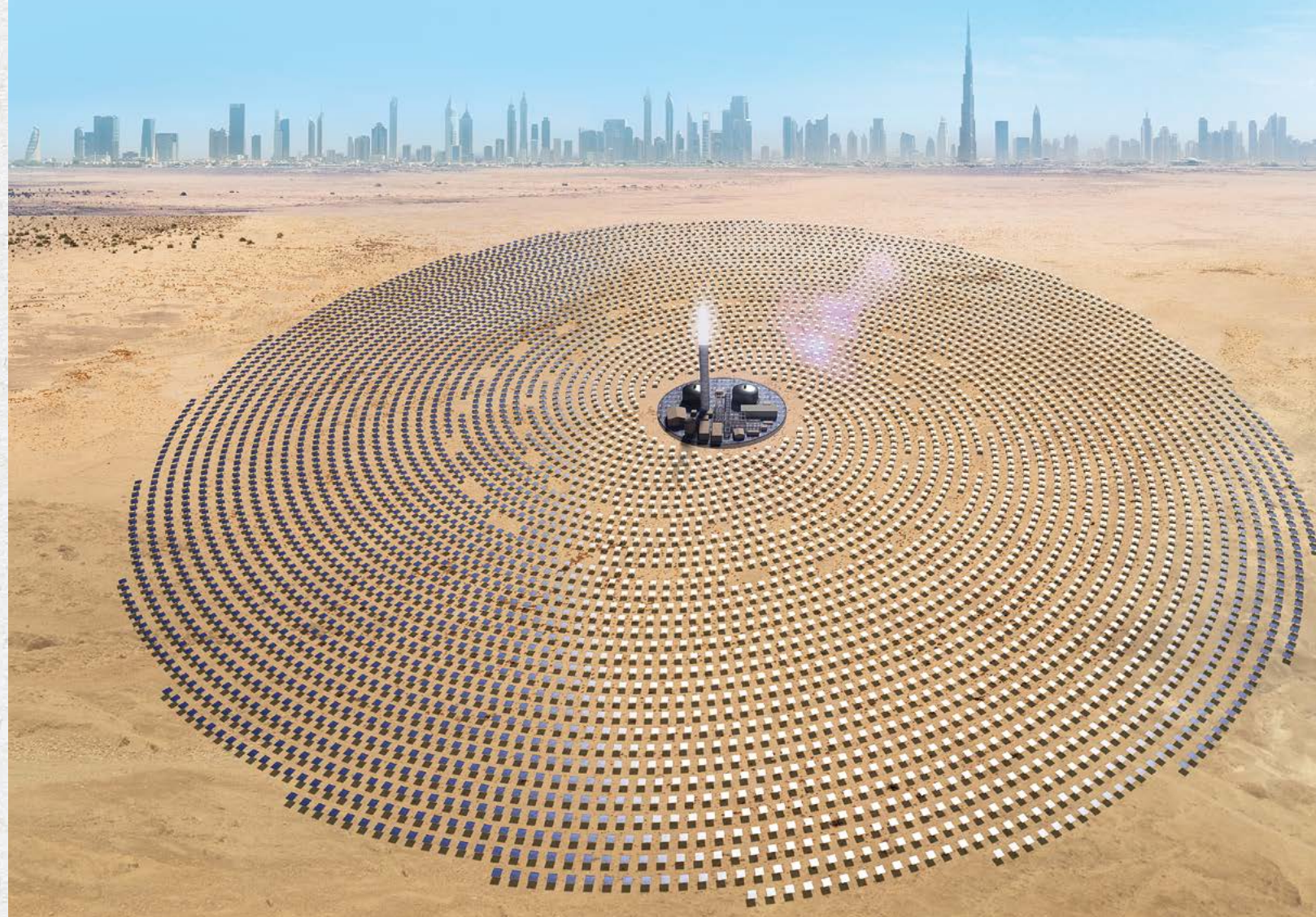


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Feature Story

HH Sheikh Mohammed bin Rashid Al Maktoum announces AED14.2 billion CSP project - Largest in the world to generate 700MW



His Highness:

'UAE succeeded in building a model for sustaining a green economy.'

'We have made steady progress in realising the goals of Dubai Clean Energy Strategy 2050.'



Record bid of USD 7.3 cents per kilowatt hour

Contract awarded to a consortium of Saudi Arabia's ACWA Power & China's Shanghai Electric



Highest solar tower in the world will be 260 metres tall

Feature Story

HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, has announced the largest single-site Concentrated Solar Power (CSP) project in the world, which will be built at a total cost of AED14.2 billion.

The CSP project is the fourth phase of the Mohammed bin Rashid Al Maktoum Solar Park. It will generate 700MW of clean energy to support Dubai's electricity grid. The project is an integral part of the Dubai Clean Energy Strategy 2050.

His Highness highlighted the UAE's model for sustaining a green economy based on environmental sustainability and clean energy. The UAE has a clear strategy for implementing and further developing this model to maximise its benefits, in addition to investing in infrastructure, building capabilities and developing specialist local skills.

"We have made steady progress in realising the goals of Dubai Clean Energy Strategy 2050 that was

launched as part of our objective to transform Dubai into a global clean energy and green economy hub. The carbon footprint of Dubai will be the lowest in the world by 2030," said His Highness.

"We are proud that, by demonstrating their capabilities, our local talent have proved that they are ready to assume responsibility," said His Highness.

His Highness' remarks came as DEWA awarded the contract for the AED14.2 billion CSP project based on the Independent Power Producer model. The contract was awarded to a consortium comprising of Saudi Arabia's ACWA Power and China's Shanghai Electric. The consortium bid the lowest Levelised Cost of Electricity of USD 7.3 cents per kilowatt hours. The project will have the world's tallest solar tower, measuring 260 metres. The power purchase agreement and the financial close are due to be completed shortly. The project will be commissioned in stages, starting from Q4 of 2020.

"This achievement greatly boosts our objectives and positions us as one of the leading countries of the world in terms of clean and renewable energy. The Dubai Clean Energy Strategy 2050 aims to increase the share of clean energy in Dubai's total power output to 7% by 2020, 25% by 2030, and 75% by 2050," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

The Mohammed bin Rashid Al Maktoum Solar Park is the largest single-site solar park in the world, based on the IPP model. It will generate 1,000MW by 2020 and 5,000MW by 2030. The 13MW photovoltaic first phase became operational in 2013.

The 200MW photovoltaic second phase of the solar park was launched in March 2017.

The 800MW photovoltaic third phase will be operational by 2020, and the first stage of the 700MW CSP fourth phase will be commissioned in Q4 of 2020.



Cover Story

HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum launches DEWA's Future Centre for Customer Happiness



HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, has launched DEWA's Future Centre for Customer Happiness at Ibn Battuta Mall. The inauguration was attended by HE Saeed Mohammed Al Tayer, MD&CEO of DEWA. This is the first integrated smart customer happiness centre in Dubai, which uses Artificial Intelligence (AI) and Robotics, and provides smart and innovative services to all stakeholders. The event was also attended by HE Ali Rashid Lootah, Chairman of Nakheel, Marwan Bin Haidar, EVP of Innovation and The Future at DEWA, and many senior employees.

"The Centre represents a practical translation of the UAE's objectives to build the government of the future, and embodies the vision of

Cover Story



His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to enhance service delivery and enable customers to access comprehensive, integrated and smart services that save time and effort," said Al Tayer.

"DEWA is keen to implement the objectives of the Dubai 10X initiative, launched by His Highness, to propel Dubai towards the future; making it 10 years ahead of other cities of the world, through government innovation."

"The Centre contributes to achieving customer happiness, and is in line with the directives of 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."

"DEWA continually strives to shape the future by innovative mechanisms that enrich customer experiences, provide seven-star quality services, and then transform them into centres for innovation and creativity, in line with its vision to become a sustainable innovative world-class utility," added Al Tayer.

"DEWA adopts an integrated strategy, plans, and innovative frameworks to use the latest technological solutions and systems to serve society, in line with the Dubai Plan 2021 to make Dubai a smart, integrated, and connected city that is sustainable with its resources," said Al Tayer.

"Due to the efforts of its teams, DEWA has succeeded in raising customers' awareness about its smart services, which enable them to complete their transactions easily and securely anytime, anywhere, using DEWA's

smart app or website, without having to visit the customer happiness centres. This saves both time and effort," noted Al Tayer.

"The centre relies on the latest technologies to achieve customers' satisfaction and exceed their expectations. The centres have smart self-service booths to help customers complete their transactions with ease and without paper. These include Rammas, the virtual employee that uses Artificial Intelligence (AI) to answer queries, the Tayseer smart bill payment platform, live chat and the Future Services section to design and develop DEWA's future services, in line with the highest international standards," added Al Tayer.

"DEWA has made great strides in its smart transformation with its strategy to keep up with the latest technologies and developments and

best international practices. DEWA has succeeded in transforming all its services into smart services, less than a year after the launch of the Smart Dubai initiative. The adoption rate of DEWA's smart services surpassed 80%, ahead of the deadline set by HH Sheikh Mohammed bin Rashid Al Maktoum, to reduce the number of visitors to government offices by 80% by 2018. This is part of DEWA's efforts to promote the adoption of world-class smart services."

DEWA is currently working on closing two centres at Discovery Gardens and Jebel Ali Free Zone, which are located near the Future Centre for Customer Happiness, at Ibn Battuta Mall, and is currently converting them to smart service centres.

"DEWA depends on Dubai Government's smart service excellence model, which provides the criteria for service quality for all government organisations in

Dubai. DEWA has fully-implemented these criteria in all its smart services, including accessibility, usability, look and feel, content, and functionality," added Al Tayer.

DEWA works to achieve the happiness of its customers. That's why it provides its smart services through various channels in cooperation with the public and private sectors. This has resulted in providing quality, innovative and seamless services to fulfil their current and future needs. DEWA provides all its services on its smart app and website, as well as the smart channels of Dubai Smart Government, including mPay and DubaiNow. The services are also available through Etisalat payment machines, Emirates NBD cheque deposit machines, and the smart and electronic services provided by the banks. DEWA also integrates its services with other government organisations to provide innovative services that have a positive impact

on customers by reducing the steps needed to complete their transactions. These include Ejari, which enables customers to get electricity and water services as soon as they attest their rental contracts at any of the 800 real estate offices approved by Dubai Land Department, without having to visit DEWA's customer happiness centres.

DEWA was the first government organisation in the UAE to launch Rammas, which acts as a virtual employee, making use of AI to answer customer enquiries. Rammas is characterised by its ability to learn and understand the needs of customers, according to their enquiries.

Rammas analyses these based on available data and information, and takes action to accurately answer most queries. Rammas is available on DEWA's website, smart app (iOS and Android), Facebook, and Amazon's Alexa service.



Main events

'Let's make this summer green'

DEWA launches several awareness campaigns & initiatives in summer

DEWA gives great importance to issues related to environmental protection, sustainability and preserving natural resources. DEWA launches a series of initiatives, programmes, and awareness campaigns throughout the year, targeting all customers, to highlight the importance of rationalising energy and water consumption, and adopt a sustainable lifestyle.

This supports DEWA's strategic objectives, and its vision to become a sustainable innovative world-class utility.

During summer, DEWA launches initiatives on the importance of rationalising consumption in Dubai. This supports Dubai's efforts to reduce its carbon footprint to achieve the objectives of the Dubai Clean Energy Strategy 2050, launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. It is also aligned with the Demand Side Management Strategy, which aims to reduce consumption by

30% by 2030, to establish a sustainable model for rationalising energy and water, and support economic growth, without harming natural resources.

'Let's make this summer green' campaign

DEWA adopts a clear strategy to involve all stakeholders to protect the environment and conserve natural resources for sustainable development through several environmental programmes and initiatives, as well as rationalisation awareness campaigns. One of these initiatives is the 'Let's make this summer green' campaign.

With summer temperatures rising and the beginning of the summer vacation and travel season, DEWA launched this campaign for the second year in a row. The campaign was launched via social media, DEWA's website, as well as other audio-visual media channels. The campaign focuses on several guidelines including rationalisation of consumption during

the Holy Month of Ramadan, reducing power consumption during peak hours (12-6 pm), setting the AC to 24°C, tips for when away on summer vacation, fixing water leaks, and installing drip irrigation systems.

In addition, DEWA's Conservation Team organises lectures and field visits to government organisations and departments, private companies, and malls, and cooperative societies.

Peak load campaign

Since energy demand is higher in the summer, especially during peak-load hours, this results in increasing energy production. DEWA encourages people to use high-energy electrical appliances such as washing machines, water heaters, electric ovens, air conditioners, and irons, in the morning or evening outside peak-load hours. Such practices help all members of society to contribute to saving energy and protecting the environment.

Tips before travelling

'Let's make this summer green' also included the 'Tips before travelling' campaign, through media channels, social media platforms, and DEWA's website. The campaign includes a number of guidelines for customers to follow before going on vacation or leaving their homes for long periods of time during the summer. The campaign aims to conserve electricity and water, while maintaining the safety of homes.

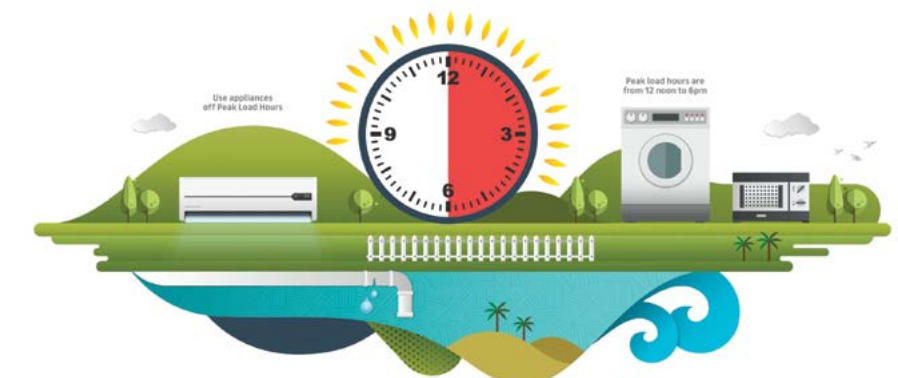
These include switching off lights, unplugging electrical appliances and electronics to save energy, making sure there are no water leaks in the house by checking all taps and internal pipes in bathrooms and kitchens, and shutting off the water supply to avoid any water leakage.

'Engineers of the Future' summer camp

DEWA's efforts also included the summer camp for Young Engineers. The camp is an ideal platform to prepare students for a promising career and help them acquire the necessary technical skills, develop their scientific research skills,

Reduce energy consumption during Peak Load hours.

Let's make this summer green.



and motivate them to learn about science and technology, and promote educational entertainment.

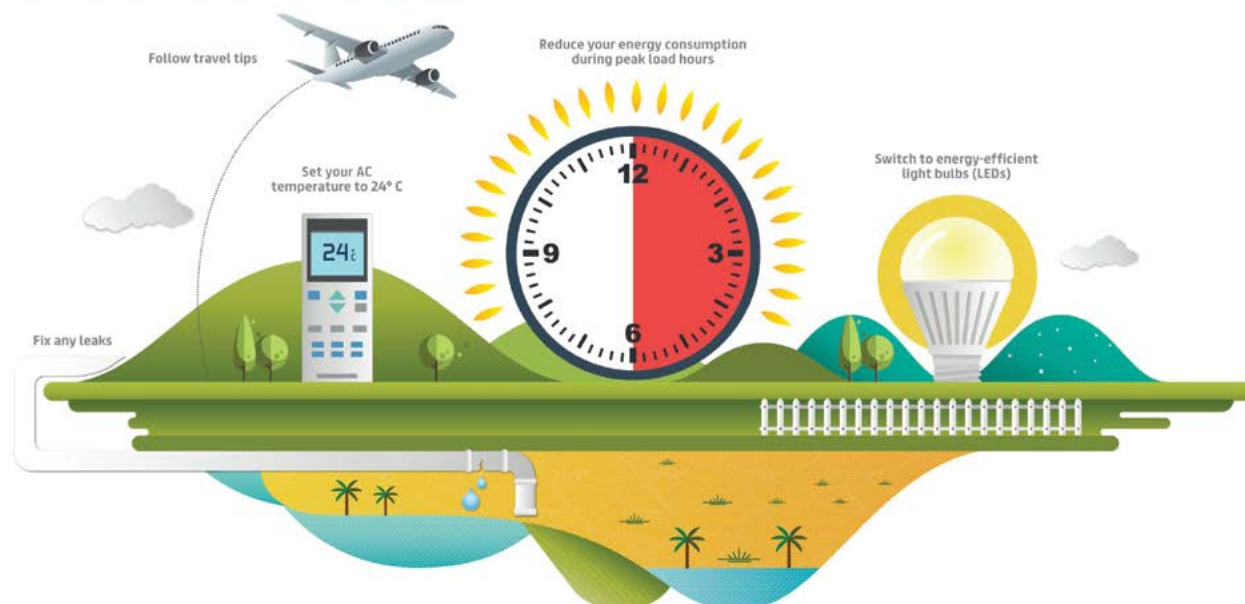
The summer camp was open to children (both Emiratis and non-Emiratis) of ages 12 to 15, and was held in the second half of July, 2017, at the Reading Tent in Zabeel Park.

It included practical training on the basics of robotics, ways to develop smart applications, and a series of daily activities and fun competitions.

The third summer camp followed on the great success achieved by last year's camp, which received a 99%-happiness rating from students, and a 100%-satisfaction score from their parents.

Save electricity and water.

Let's make this summer green.



Turn off water valves and unplug appliances before travelling.

Let's make this summer green.



Main events

DEWA organises 3rd Emirati Women's Forum



To commemorate Emirati Women's Day, which takes place on 28 August every year, DEWA organised the 3rd Emirati Women's Forum with the theme, 'Women are Partners in Giving,' at the Armani hotel in Dubai. It was attended by female Emirati leaders and officials.

On behalf of HE Saeed Mohamed Al Tayer, MD & CEO of DEWA, Khawla Al Mehairi, Acting Executive Vice President of Strategy & Government Communications at DEWA and Chairperson of the DEWA Women's Committee, delivered the opening speech at the forum.

The forum was attended by HE Fatima Al Foora Al Shamsi, Assistant Undersecretary for Electricity and Future Energy at the

Ministry of Energy, HE Humaid Rashid Al Shamsi, International Aid Adviser to the Emirates Red Crescent (ERC), HE Shamsa Saleh, CEO of Dubai Women Establishment, Dr Mona Al Bahar, CEO of the Al Jalila Cultural Centre for Children, Abdullah Obaidullah, Executive Vice President of Water and Civil at DEWA, Mona Abdul Karim Al Yafei, Director of Sharjah City for Humanitarian Services, Dr Fatima Mohammed Saeed Al Falasi, Director General of the Dubai Women's Association, Habiba Al Marashi, Chairperson of Emirates Environmental Group, and a number of officials and members of women's committees from the public and private sectors, as well as female staff from DEWA. Dubai Municipality, the Dubai Department

of Finance, the Statistics Centre of Abu Dhabi, the Dubai Women Association, the Awqaf and Minors' Affairs Foundation, and Dubai Foundation for Women and Children, all took part in the Forum.



Fatima Al Shamsi emphasised that the UAE leadership provides the environment that empowers women in all areas. She urged Emirati women to benefit from all the opportunities the UAE provides for them.

Humaid Al Shamsi explained how important women are to ERC, as 3,500 of its 5,000 volunteers are women.

"Celebrating Emirati Women's Day is an honour by our wise leadership for Emirati women and their successes. Emirati



women have contributed to the overall development of the UAE and working along men on charitable initiatives. The UAE has many fine examples of charitable and humanitarian acts by women of all ages, showing how charity is deeply rooted in Emirati society," said Saleh.

The forum included a panel discussion on 'Challenges facing women in volunteering and charity work.' Dr Mona Al Bahar, Mona Abdul Karim Al Yafei, and Aisha Saeed Harib, Head of Corporate Social Responsibility at the Community Development Authority, and General Coordinator for the National Service Youth Council, took part in the panel discussion, which was moderated by Diala Al-Ali.

Fatima Al Jokar, Assistant Legal Adviser at DEWA and Chairperson of DEWA's Youth Council, moderated a panel on 'Youth and Charity,' along with Khalid bin Tamim, Founder of the Social Hub initiative and Chairman of the Organising Committee of the Ramadan Aman voluntary initiative, Jawaher Al Muhairi, Member of the Dubai Youth Council, and Aisha Al Shaer.

Al Shaer spoke about the voluntary work that DEWA organised in Tajikistan. A video about Emirati women at DEWA and their

voluntary work during the Year of Giving was also shown at the forum.

"On Emirati Women's Day, which we celebrate on 28 August every year, we proudly remember the mothers and wives of our martyrs who have given the finest examples of giving to their homeland so that the UAE stands tall thanks to the sacrifices of its sons and daughters. They have proven that Emirati women are a continuous source of giving, effectively contributing to the building and development of society, serving the nation and maximising the achievements of the UAE in all areas, and helping consolidate a culture of individual and institutional giving, social responsibility, and volunteering among individuals and organisations," said Al Tayer.

Al Tayer said that 'Women are Partners in Giving,' the theme of the Emirati Women's Day, was chosen by HH Sheikha Fatima bint Mubarak, Chairwoman of the General Women's Union, Supreme Chairwoman of the Family Development Foundation, and President of the Supreme Council for Motherhood and Childhood and 'Mother of the Nation.' It emphasises that the wise leadership continues the approach of the late Sheikh Zayed bin Sultan Al Nahyan, who was a strong supporter of women

in everything they do. DEWA celebrates Emirati Women's Day this year when women have made successes and accomplishments in all sorts of careers.

"At DEWA, where over 1,860 female staff work effectively, a large number of ladies take apart in volunteering work outside office hours. In 2016, female staff contributed over 50% of the total 12,900 volunteering hours," said Al Tayer.

"One of the latest humanitarian projects that DEWA female staff took part in, was Risalat Khair, the international volunteering programme that DEWA carried out in Tajikistan, in cooperation with the Mohammed bin Rashid Al Maktoum Charity and Humanitarian Establishment, and the UAE Water Aid Foundation. 7 male and 8 female employees each volunteered to work 10 hours a day for 5 days on this unique humanitarian project."

"Emirati women have succeeded in achieving the vision of our wise leadership to empower society through women, and build an ambitious generation armed with knowledge and capable of leading a brighter and more prosperous future. Happy Emirati Women's Day," concluded Al Tayer.



Main events

WETEX and Dubai Solar Show highlight projects, investments, and latest energy, water, solar, environment, and green development technologies



DEWA is organising the 19th Water, Energy, Technology, and Environment Exhibition (WETEX) 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. WETEX will be held from 23-25 October 2017 at the Dubai International Convention and Exhibition Centre.

For the 4th consecutive year, DEWA is organising WETEX under the umbrella of Green Week, which includes various environmental activities and events to raise awareness about the importance of using energy and water sensibly, and the key components of sustainable development and green economy.

The 19th WETEX and the 2nd Dubai Solar Show will provide an opportunity to review the latest innovative solutions in energy, water, and the environment.

Many of these technologies will be unveiled for the first time, especially in renewable energy, water, sustainability and rationalisation. The two exhibitions will act as an integrated platform for

companies and organisations working in these key sectors to promote their products, services and innovative technologies, and meet decision-makers, investors, buyers and interested parties from around the world to make deals, build partnerships, and review the latest technologies in these sectors. It also shows current and future projects and market needs, and explore opportunities to take part in solar-energy projects and programmes in the region.

Success of 18th WETEX and 1st Dubai Solar Show

The 18th WETEX and the 1st Dubai Solar Show in October 2016 were huge successes, with large participation from exhibitors, visitors, participants, and government organisations. They attracted 1,975 exhibitors, around 25,000 visitors from 47 countries, and 67 sponsors. The two exhibitions covered 63,700 square metres, and were an important platform for



companies and organisations working in energy, renewable energy, water, environment, and sustainability. The two shows hosted a large number of experts, specialists, solution providers, investors, decision makers, and consumers from the government and private sectors. Over three days, around 400 business meetings were conducted as part of the free B2B service to facilitate meetings between sponsors, exhibitors, and trade visitors. This service provides an opportunity for exhibitors to expand and promote their businesses. Participants emphasised that WETEX and the Dubai Solar Show were an ideal platform for presenting and discussing the most important topics and latest developments in various areas including water, energy, environmental management, sustainable development, electricity and water conservation technologies, and renewable energy. Over three days, DEWA organised many workshops and seminars that were very popular among visitors, exhibitors, and specialists.

New technologies and promising opportunities at WETEX 2017

DEWA has invited a wider variety of manufacturers and service providers from many subsectors to the exhibition. The move will attract a larger display of new products and technologies to serve a wider audience of trade visitors at the exhibition. WETEX serves as an important meeting point for manufacturers, service providers, decision-makers, and trade visitors from the UAE and the region.

It helps investors to review the latest technologies available in these areas.

Latest energy, water, and environmental technologies

WETEX 2017 will have on display the latest tools and equipment, including turbines, compressors, motors, power generators, air cleaning and purification equipment, batteries, high-voltage cables, wiring technologies, calibration measurement equipment, protection systems, centrifuge machinery, communication systems' equipment, industrial and residential control systems, safety equipment, refrigeration and heating, diesel engines, fire-fighting and safety systems, transducers, control electronics, corrosion equipment, and energy-efficient home appliances.

Latest solar-power technologies

With the rapid development in the solar power sector, and the success of the 1st Dubai Solar Show, DEWA organises the 2nd Dubai Solar Show this year. The show will cover 14,000 square metres and attract the biggest companies and organisations in solar power from around the world.

The exhibition will be an important platform for government and private sectors to make deals and build partnerships, access the latest technologies in the solar sector, and learn about current and future projects in the region as well as market needs and opportunities to participate in leading solar projects and programmes. This supports the efforts of

the UAE Government and governments in the region to increase reliance on renewable and clean energy. The exhibition will be the region's leading commercial platform for solar-power production and storage solutions.

Latest water technologies at WETEX 2017

Scarcity of drinking water around the world imposes challenges that encouraged many companies to invest in research of new technologies for water production and storage. This coincided with broad awareness campaigns for rationalisation and waste reduction. Researchers took different paths in their quest to find new sources of water supply. These included enhancing desalination capabilities of seawater, reducing costs of treated wastewater, and desalination using solar energy.

This year's WETEX attracts the largest number of industry players from around the world under one roof. This year, WETEX will cover all related aspects, including water treatment, desalination plants, pipes of all kinds, coolers and heaters, and related products and solutions. It will also display tools, equipment and accessories for digging technologies, pumps, valves, and tools to ease pressure and others. WETEX will show the latest advances in irrigation systems, agriculture and horticulture equipment, and water extraction equipment. With a focus on water conservation, WETEX will showcase products for detecting and treating water leakages, reservoir lining, and various materials used in the water sector and water transportation.

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Save Planet Earth!

By HE Saeed Mohammed Al Tayer,
MD & CEO of DEWA

There is no doubt that dealing with the adverse effects of climate change, the conservation of natural resources, and the protection of the environment from carbon emissions are the most significant challenges to Planet Earth. Many scientific studies have indicated that our planet is running out of resources. This is a bellwether of our modern lifestyle, and our irrational use of natural resources.

According to a recent joint statement by Global Footprint Network and the World Wildlife Fund (WWF), 2 August marked Earth Overshoot Day, which was the day when humanity's annual demand on nature exceeded what Earth can regenerate in that year.

In other words, humanity is currently using nature 1.7 times faster than ecosystems can regenerate. This calls for an immediate reduction of carbon emissions, which make up 60% of human demand on nature.

Bypassing the Earth's resources will lead to increasing environmental problems, such as climate change, biodiversity loss, deforestation, scarcity of fish resources, water scarcity, desertification, soil erosion, decline in agricultural productivity, and even extinction. United Nations (UN) projections show that, if it continues to be as it is now, the world needs the equivalent of two planets' resources by 2050.

In 2016, Earth Overshoot Day was on 8 August. This date continues to be brought forward since the 1970s. In 1970, Overshoot Day fell on 23 December, and ever since, it has continued to come earlier each year.

All of this leads us to a clear and explicit conclusion that our natural resources are not unlimited!

Although measuring the Earth's natural resources for one year, and the actual amount of resources used, cannot be determined precisely, human behaviour remains a threat to the Earth's resources. DEWA's vision is to support sustainability, environmentally, economically and socially, in Dubai and the UAE.



This works to achieve environmental balance and rationalisation of natural resources, as well as the use of clean energy sources to support the Dubai Clean Energy Strategy 2050, launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to transform Dubai into a global hub for clean energy and green economy, and to generate 7% of Dubai's total power output from clean energy by 2020, 25% by 2030 and 75% by 2050. In addition, DEWA is keen to support the Dubai Carbon Abatement Strategy 2021, which aims to reduce carbon emissions by 16% by 2021.

DEWA is spearheading initiatives, programmes, and educational campaigns on environmental sustainability, rationalisation of consumption, and reduction of the Emirate's carbon footprint. These initiatives include 'Ideal Home' initiative, Conservation Award, as well as the annual 'Let's make this summer green' campaign.

The campaign includes guidelines on reducing energy consumption during summer, and encouraging customers to reduce the use of electrical appliances during peak-load hours.

At DEWA, we consider the protection of natural resources our responsibility. We are confident that preserving natural resources starts with educating the

community about the importance of rationalisation; and extending the role of institutions, governments, and countries in taking the necessary measures to protect these resources.

According to the World Bank's Regulatory Indicators for Sustainable Energy report, the UAE ranked first in the Arab World and the Middle East, and ranked 28th among the world's leading countries in the transition to clean energy. The report also highlighted that the cost of solar bids in the UAE is the lowest in the world.

One of the key factors in achieving this leading position is the construction of the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world. It will generate 5,000MW by 2030, at a total investment of AED 50 billion. Upon completion, the solar park will reduce over 6.5 million tonnes of carbon dioxide emissions annually.

The solar park supports DEWA's efforts to achieve sustainable development, and in recognising the major role that renewable energy plays in striking a balance between achieving sustainable development and preserving the environment.

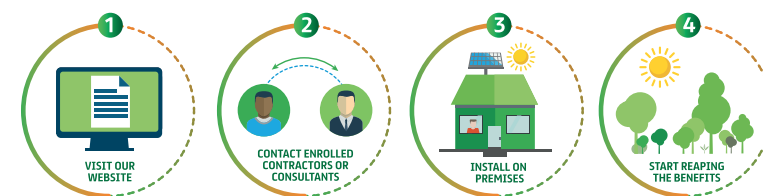
We will continue to pursue sustainability, and integrate it into all our activities, as part of our vision to become a sustainable innovative world-class utility.



WITH SHAMS DUBAI, YOU HOLD THE POWER TO TURN DUBAI GREENER

With the installation of solar panels, you can now harness the energy of the sun to power your home; increase the value of your property and lower carbon footprint.

INSTALL SOLAR PANELS WITH SHAMS DUBAI, AND TAKE THE FIRST STEP TOWARDS A SUSTAINABLE FUTURE.



USE SHAMS DUBAI CALCULATOR
TO ESTIMATE POTENTIAL ELECTRICITY
PRODUCTION FROM PHOTOVOLTAIC SOLAR PANELS

For more information please visit:

www.dewa.gov.ae/shamsdubai

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For generations to come



DEWA OFFICIAL



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DEWA invites customers to use Shams Dubai to generate onsite solar power

DEWA has again invited Dubai's citizens and residents to benefit from the Shams Dubai smart initiative, following the outstanding success and the great adoption rate the initiative has achieved since its launch. Photovoltaic panels have been installed on 453 buildings with a total capacity of 18.7 megawatts (MW). This will increase in the future to eventually cover all buildings in the Emirate by 2030.

Shams Dubai encourages DEWA customers to install solar photovoltaic panels on the roofs of their premises to generate electricity from solar power and export any excess to the power grid. Through this initiative, community members will promote sustainable development in Dubai and transform the Emirate into a global hub for clean energy and green economy, and support the Dubai Clean Energy Strategy 2050 to generate 7% of Dubai's total power output from clean energy by 2020, 25% by 2030 and 75% by 2050. This will also support the Smart Dubai initiative to make Dubai the smartest and happiest city in the world.

Shams Dubai allows customers to avoid using expensive power storage systems by connecting the photovoltaic panels to the network. Furthermore, the surplus power is exported to DEWA's grid, which will be deducted from the customers' future bill. Apart from direct benefits to electricity customers, and increasing the value of buildings where solar photovoltaic systems are installed, Shams Dubai establishes a sustainable model in energy conservation that supports economic growth without

damaging the environment or natural resources.

DEWA's Shams Dubai Calculator was launched on DEWA's website to support customers who want to install solar panels on rooftops, by providing detailed comparisons and additional information with ease, using innovative tools. The Shams Dubai Calculator is an innovative service provided by DEWA to customers who wish to produce electricity using photovoltaic panels under the Shams Dubai initiative. Once customers have entered their registered account numbers, they can identify the location of the building and determine its surface through an interactive map. They can also determine the number of solar panels absorbed by this area, and

the capacity of these panels on a monthly or annual basis, using innovative interactive tools. The client can draw the space that he or she wants to benefit from, subject to the total actual surface area of the building. The interactive map allows the client to know other information as well, such as the locations of the Green Charger stations, solar panel sites installed by DEWA's operators under the Shams Dubai initiative, and the possibility of sharing results on social media.

Customers who are interested in installing solar photovoltaic systems can learn about the details of the initiative, and enrolled consultants and contractors with DEWA to install solar power systems on www.dewa.gov.ae/Shamsdubai



DEWA Tayseer service helps customers deposit cheque payments at 200 Emirates NBD CDMs



DEWA Customer Happiness representatives are no longer accepting cheque payments at their frontline counters from 1 August 2017 onwards.

Customers can settle their bills for individual and multiple accounts electronically using Tayseer service by depositing cheques through more than 200 Emirates NBD Cheque Deposit Machines (CDMs) that are available throughout the UAE.

Tayseer facilitates the easy payment of electricity and water bills without the need to visit DEWA's Customer Happiness Centres.

Bills for multiple accounts can be settled at the same time using cheques issued by any banks working in the UAE

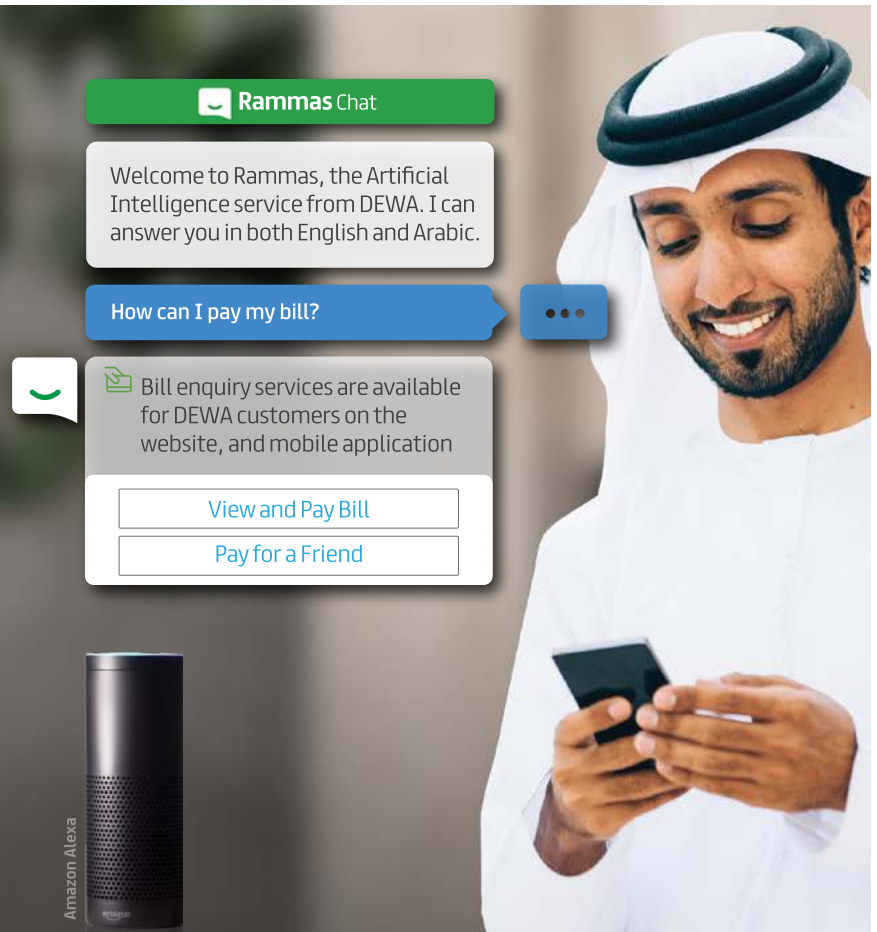
for individuals and corporates, by first getting a reference number from DEWA's website or smart app and then paying by cheque at any of the Emirates NBD CDMs.

Customers can also settle bills for their individual accounts using direct deposit and cheques using their account number.

DEWA has made provisions for its customers to pay their bills in various other ways. Alternative options include DEWA's smart app, DEWA's website (using ePay), Etisalat public payment machines, and also through banking direct debit services.

Customers can learn more about Tayseer and get the user's manual from www.dewa.gov.ae/tayseer or call 04 6019999.

DEWA's Rammas responds to over 270,000 enquiries since its launch



DEWA has confirmed that Rammas has received over 270,000 enquiries in the short period of time since its launch in early 2017. It has received over 204,000 enquiries through DEWA's website, more than 67,000 enquiries on its smart app, more than 3,000 enquiries through Facebook and more than 528 enquiries through Amazon's Alexa system.

DEWA is the first government organisation in Dubai to use Artificial Intelligence (AI) to answer customer enquiries in an innovative and interactive way, through a 24 hour chatbot.

Rammas can respond to an unlimited number of enquiries in record time. Rammas is also able to share billing information once provided with an account number.

Rammas acts as a virtual employee at DEWA, and it is available on DEWA's website, DEWA's smart app (iOS and Android), DEWA's Facebook, and Amazon's Alexa service.

'One Step' allows customers to activate and deactivate utility services without visiting DEWA

DEWA has launched its 'One Step' initiative, which speeds up procedures to activate and deactivate electricity and water services, without having to visit DEWA's Customer Happiness Centres. The initiative allows the activation of electricity and water service for customers, once they receive their Ejari contracts from the real estate companies or typing centres certified by the Dubai Land Department. The customer receives an SMS and email from DEWA, with instructions to activate electricity and water service. Customers can also deactivate electricity and water services, and get their final bill, using DEWA's smart app or website. Customers can easily request for refund of their deposit and have it transferred directly to their bank account, using the IBAN number, or receive a cheque by mail to their registered local address.



ACTIVATION OF ELECTRICITY AND WATER SERVICE (Move In)



DE-ACTIVATION OF ELECTRICITY AND WATER SERVICE (Move Out)



BILL PAYMENT

The initiative also provides smart payment methods at DEWA's customer happiness centres for customers to have additional smart payment options.

Bills can be paid in instalments, with no interest or additional charges, if they use credit cards from Emirates NBD or Mashreq Bank.

Customers can now transfer electricity and water accounts when shifting house without visiting DEWA or providing additional documents

DEWA has launched the 'Move To' service, which allows all customers to transfer their current electricity and water accounts when they move to new locations. Customers can also transfer their deposits and data, when moving from one property to another, within

Dubai, by submitting an Ejari contract, without the need to submit any additional documents, or visit DEWA offices. The new service enables customers to deactivate electricity and water services in the existing premises, and activate electricity and water services for the new

premises, through DEWA's smart app, website, or Customer Happiness Centres. An automatic transfer order is created once the Ejari contract for the new premises is obtained through any of the real estate companies or typing offices approved by the Land Department.



TRANSFER OF ELECTRICITY AND WATER SERVICE (Move To)

When requesting for a Transfer of Electricity and Water Service, all your existing data along with your security deposit will be updated to your new premises account upon obtaining your new Ejari contract with any real estate management company / typing centre (authorised by Dubai Land Department), without the need of visiting DEWA Customer Happiness Centres.

DEWA urges customers to regularly examine internal electricity and water connections

DEWA has urged all its customers to carry out periodic examinations for the efficiency of internal electricity and water connections in houses, buildings and facilities, and fix any faults in the connections and even replace old connections if necessary. DEWA is responsible for maintenance of the connections only up to the electricity and water meters, while internal connections are the customers' responsibility. This applies to all customers, whether residential, commercial, or industrial.

DEWA provides its customers with a service to check efficiency of electricity and water use in their private buildings. This is done by checking the lighting and air conditioning systems, and water connections. This enables customers to improve and rationalise their electricity use and contribute to preserving natural resources, and reducing waste.



DEWA awards contract for Phase 1 of Al-Shera'a Building to Dutco Balfour Beatty

DEWA has awarded a AED 46 million contract for the first phase of the construction of its new headquarters, called Al-Shera'a, to Dutco Balfour Beatty, who offered the lowest bid and competed with 10 leading international companies.

The contract for Phase 1 includes shoring, dewatering, excavation, piling, fencing and associated works.

Al-Sheraa is the tallest, largest, and smartest government Zero Energy Building (ZEB) in the world.

Al-Sheraa will have over 2 million square feet, covering over 200,000 square feet of land in the heart of the Cultural Village in Al Jadaf. Al-Shera'a will have 19,000 square metres of photovoltaic solar panels on the roof to produce over 3,900 kilowatts/ hour (kW/h).

The building will also include an additional 3,000 square metres of building-integrated photovoltaic panels. The total renewable energy generated from the building is over 6,300 megawatt hours (MWh) per year.

The building will be completed and inaugurated in the last quarter of 2019.



DEWA follows up on installing back-up generators in major buildings and landmarks in Dubai

The committee that DEWA has formed to follow up on its earlier circular requiring around 1,100 real estate developers, consultants, contractors, government organisations, and major companies in Dubai to install back-up power generators at major projects in Dubai, has visited various sites across Dubai. The committee provides technical support, follows up on work plans, and trains specialised teams to deal with emergencies. The circular implements the order of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to install back-up power generators at key sites in Dubai.



The competent committee carried out a comprehensive field survey of all key projects in Dubai in direct coordination with the related bodies included in the circular, to identify the loads and requirements to provide backup generators in buildings and landmarks.

These include tourist, commercial, and cultural buildings to ensure that they have the necessary power in emergencies for public security and safety reasons, and to ensure the comfort and well-being of society and the public at large. The capacity of the

back-up generators should be sufficient to cover the basic requirements of these buildings. The generators must be properly maintained to ensure they work when needed, in an effective and timely manner, according to safety guidelines.

DEWA awards contract for construction of Distribution Power Complex at Al Ruwaihah worth AED 226.5 million

DEWA has awarded a contract worth AED 226.5 million for the construction work for a complex for its Distribution Power division at Al Ruwaihah, Dubai.

The contract includes the construction of a five-floor office building with basement and a multi-storey car park, mosque, accommodation for the Imam, stores, field offices, staff accommodation, and a parking lot for heavy machinery.

The total building area is about 949,330 square feet, while the construction area of the administrative building and multi-storey car park is 845,305 square feet. The office building accommodates about 2,000 staff, while the car park has a capacity of 1,429 cars. The complex includes 3 warehouses with field offices, with an area of 57,878 square feet, a mosque for 454 worshipers, a 46,546 square feet staff accommodation block for 492 employees, five 50-seat bus stops and parking for 52 heavy vehicles.



DEWA awards AED 95 million contracts for 1,290km of low-voltage cables



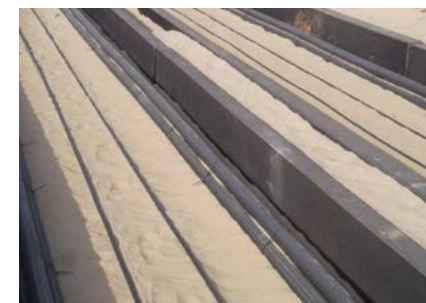
DEWA) has awarded contracts worth AED 95 million to a number of national companies for the supply of 1,290km of low-voltage cables for household connections. This is part of its ongoing efforts to provide the most reliable and efficient services to meet expansion requirements of the electricity distribution network.

The contract includes the supply of aluminium and copper cables to expand electricity distribution networks across Dubai, to meet continued growth in demand for electricity.

"DEWA is proactively implementing vital development projects, especially infrastructure, to achieve sustainable development and happiness in Dubai, for generations to come. These cables will be used in several projects at DEWA, and will contribute to increasing the capacity of efficiency and reliability of electricity distribution in Dubai, to ensure a continuous and stable supply of electricity to customers. The supply of cables is expected to be complete by April 2018," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

DEWA completes 88% in 25km water pipeline project in Dubai

DEWA has made significant progress on the supply, extension and commissioning of 25km of major water transmission pipelines across various parts of Dubai. The project includes the extension of GRE (Glass-Reinforced Epoxy) main water pipelines, and remote control and monitoring systems. Approximately 22 km has been implemented to date, 88% of the project, which is worth AED 170 million. The project includes 17 sites to connect the main transmission pipelines, to increase water flow, ensure the continuity of water access, and raise the pressure in the network. The project is expected to be complete by December 2017.



Energy companies certified by RSB for electricity and water in Dubai launch energy efficiency projects worth AED 200 million



The Regulatory & Supervisory Bureau for electricity and water in Dubai (RSB) announced that Dubai witnessed rapid growth in the energy efficiency market in 2016, reflecting the growth of this promising sector.

In its 2016 annual report, the RSB records that by the end of 2016, its accredited energy service companies, have launched energy efficiency projects worth nearly AED 200 million.

The projects are expected to deliver annual electricity savings of 95 gigawatt hours and water savings of 210 million imperial gallons (MIGD).

Almost 2,000 buildings will benefit from retrofitting of energy-saving measures.

The RSB highlighted the substantial progress made by the Emirate's independent power producer model.

News

71% of Opportunity Substation at Expo 2020 completed



OFFICIAL SUSTAINABLE ENERGY PARTNER

Construction progress of the Opportunity 132/11 kilovolt (kV) main substation at Expo 2020 Dubai was 71% complete by end of July 2017. The substation has a conversion capacity of 150 megavolt-amperes (MVA), and is expected to be operational by year end. The total cost of the project is AED 142 million, comprising AED 82.3 million for the plant, and AED 59.7 million for the 132kV cables.

DEWA is building three 132/11kV substations with 45 kilometres (km) of high-voltage 132kV cables. The total cost of the electricity projects will be AED 420 million. The substations are called Sustainability, Mobility, and Opportunity.

This supports Dubai Expo's theme of 'Connecting Minds, Creating the Future' and its three sub-themes of Sustainability, Mobility and Opportunity.

3D-printed lab is 87% complete



HE Saeed Mohammed Al Tayar, MD & CEO of DEWA, reviewed the construction work of the 3D-printed lab, at the Mohammed bin Rashid Al Maktoum Solar Park. The lab is the first building in the UAE to be fully-printed onsite, and the first such 3D-printed laboratory building in the world. The lab aims to

study the science and technique of unmanned aerial vehicles (UAVs) and 3D-printing. The completion rate of the project reached 87% by the end of July 2017. The 3D-printed lab includes 4 sub-laboratories: Electronics Lab, Software Lab, Mechanical Lab, and Prototype Lab, as well as an outdoor-testing facility.

DEWA awards contract for water reservoirs in Al Nakhli & Al Lusaily

DEWA has awarded a consultancy contract worth AED 6.3 million to design and construct two water reservoirs in Al Nakhli with a storage capacity of 120 million gallons, and in Al Lusaily with a storage capacity of 60 million gallons,

to increase the storage capacity of Dubai to 1,010 million gallons. The project includes the design of the reservoirs according to the latest standards of sustainability, and the supervision of the implementation of the project at the two

sites. The construction and operation of both reservoirs is expected to be complete within 32 months. DEWA's total storage capacity will increase to 1,010 million gallons, compared to the current capacity of 830 million gallons.



DEWA awards AED 129.55 million contracts for 1,570 transformers



DEWA has awarded contracts to design, manufacture, test and supply 1,570 cast resin distribution transformers, with capacities of 11/0.4kV, 1,000 and 1,500 kVA equipped with low-voltage smart meters, to a number of leading specialist international institutions. The contracts are worth approximately AED 129.55 million.

"DEWA is actively implementing vital projects. DEWA is one of the most outstanding service-institutions in the world, according to standard comparisons with its counterparts in developed countries," said HE Saeed Mohammed Al Tayar, MD & CEO of DEWA.

"These transformers will increase the capacity, efficiency and reliability of the electricity distribution network in Dubai, to ensure a continuous and stable supply of power to all stakeholders. All the transformers will be delivered by April 2018."

DEWA completes 70% of M-Station expansion

HE Saeed Mohammed Al Tayar, MD & CEO of DEWA, has reviewed the progress of the M-Station expansion. M-Station is the newest and largest electricity generation and water desalination plant in the UAE. He was briefed by Siemens on the construction, engineering, and operational progress of the expansion project, which is on schedule. Over 70% of the project has been completed.

This includes pouring 45,000 cubic metres of concrete (96% complete), erecting 4,900 tonnes of structural steel and heavy metal work (75% complete), and 8.3 million safe man-hours without any injuries. The total cost of M-Station construction and expansion is AED 11.5 billion. The station's capacity will be 2,885MW when expansion is completed in 2018. This includes the provision of new

power generating units, adding 700MW to the installed generation capacity of M-Station. The expansion project includes adding two dual-fuel gas turbine generators, two heat-recovery steam boilers, and a steam turbine that is 90% fuel-efficient. This will increase the plant's thermal efficiency from 82.4% to 85.8%, which is one of the highest thermal-efficiency rates in the world.



DEWA completes 77% of Sustainability Substation at Expo 2020



DEWA has announced that the construction progress of Sustainability, the 132/11 kilovolt (kV) main substation at Expo 2020 Dubai, with conversion capacity of 150 megavolt-amperes (MVA), is 77% complete, and is expected to be operational by 31 October, 2017. The total cost of the project was AED 103 million, including AED 83.4 million for the plant and AED 19.8 million for the 132kv cables.

DEWA is building three 132/11kV substations with 45 kilometres (km) of high-voltage 132kV cables. The total cost of the electricity projects will be AED 420 million. The substations are called Sustainability, Mobility, and Opportunity. This supports Expo 2020's theme of 'Connecting Minds, Creating the Future,' and its three sub-themes of Sustainability, Mobility and Opportunity.

DEWA has signed a MoU with Expo 2020 Dubai to become its Official Sustainable Energy Partner. DEWA is working through the Shams Dubai initiative, which will contribute power from solar arrays installed on Expo 2020's buildings, the Green Charger initiative to supply three different types of electric vehicle charging stations, and the Smart Applications and Smart Meters initiative to build smart grids within the exhibition to cover DEWA's generation, transmission, and distribution systems.

DEWA's Youth Council organises multiple activities for Awareness Week

DEWA's Youth Council organised multiple activities for the Council's Awareness Week. The activities included a series of field visits and direct meetings with DEWA's youth at DEWA main office and branches in Warsan, Al Quoz, Al Hudaiba and Jebel Ali, to introduce the Council and its members, its objectives and specialties, and the results of the youth retreat that was organised by the Council in all DEWA's branches. This is in

adherence with the directives of the UAE's wise leadership to empower and support all youth, activate their role and listen to their ideas and opinions, and involve them in the path to sustainable development.

The Council includes the most talented youth nominated by DEWA's senior officials. 12 members, including 6 male and 6 female employees, have been chosen for a period of two years

based on specific criteria. Members include Fatima Mohammed Al Jokar, the Council's President, as well as Ali Saeed Al Marri, Anood Ahmed Al Marzouqi, Maryam Ali Al Falasi, Ahmad Mani bin Ahmad, Abdulaziz Salem Alhosani, Afra Al Shamsi, Marwan Juma bin Doe, Majid Al Hajri, Maryam Ali Abdulqader, Abdullah Sultan Al Suwaidi, Fatma Mohammad Al Alili, and Hessa Salem Al Saleh.



DEWA wins 3 International CSR Excellence Awards

DEWA won three awards in the International Corporate Social Responsibility (CSR) Excellence Awards 2017. DEWA received the Gold Award in the Best Initiative category for its Emission Reduction Programme, the Silver Award in CSR for the DEWA Sustainability Report 2015, and the Bronze Award in Education for its Rationalisation campaigns. These awards highlight DEWA's leading position in community responsibility and promoting environmental, social and economic sustainability.

Mohammed Abdul Kareem Al Shamsi, Senior Director of Sustainability and Climate Change at DEWA received the award at a ceremony in the Houses of Parliament, London. More than 200 companies, around the world, participated in this award.

"DEWA adopts a clear strategy to establish and promote CSR, environmental protection,



and the conservation of natural resources to achieve sustainable development. The three awards highlight DEWA's leading position in promoting sustainability, reducing carbon emissions and preparing sustainability reports," said HE Saeed Mohamed Al Tayer, MD & CEO of DEWA.

The International CSR Excellence Award comprises 40 categories, in which a large number of government and private institutions worldwide compete each year to implement global standards and practices in sustainability and social responsibility.

UAE Public Policy Perspectives book documents DEWA's achievements in 3 chapters

DEWA, in collaboration with the Mohammed bin Rashid School of Government (MBRSG), presented a case study, on DEWA's achievements, to university students and specialists in public policies and strategies. This case study is available in three full chapters of the UAE Public Policy Perspectives book, which was recently launched by MBRSG, to highlight the UAE's pioneering experience in many strategic areas. The book will be taught at MBRSG as part of its curriculum.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, expressed his pleasure in cooperating with MBRSG, as an educational institution, specialising in public policy in the Arab World. The book documents the mechanisms and frameworks for public policy in the UAE in a number of key development sectors, including renewable energy, transport, education, health, technology, water and space.

DEWA receives International Renewable Energy Certificates (I-REC)



DEWA's 13MW first phase of the Mohammed bin Rashid Al Maktoum Solar Park has received International Renewable Energy Certificates (I-REC) issued in 2017. The I-RECs, which were issued by the Dubai Carbon Centre of Excellence (Dubai Carbon), are equivalent to 25,000 megawatt hours of annual net electricity supplied to the grid from the 13MW power plant. This makes DEWA the first organisation in the

GCC to adopt the I-REC system, which is a voluntary system for international trade in renewable-energy certificates. The system was created to encourage utilities around the world to increase the amount of renewable or clean energy in their supply mix. DEWA is the first utility in the region to sell I-REC certificates. It has signed an agreement to sell its 2017 certificates to Philips Lighting, through Norway's ECOHZ.

DEWA visits 640 houses in Hatta to install free photovoltaic panels on their rooftops



DEWA is installing solar panels on the roofs of villas for UAE nationals in Hatta, free of charge. This contributes to environmental sustainability, and to making Dubai one of the most sustainable cities in the world. It also supports the Shams Dubai initiative and Hatta Comprehensive Development Plan.

The visits began by an introductory meeting, in the presence of representatives from DEWA, a delegation from Etihad Energy Services Company (Etihad ESCO), Hatta's official representative, a number of dignitaries and Hatta residents. During the meeting, DEWA representatives briefed the attendees about the project, its objectives, and DEWA's Etihad ESCO being the company responsible for project management and technical supervision. They explained that



the project is expected to be complete by February 2018.

The field visits, which targeted 640 villas, took place with the participation of more than 40 volunteers. These volunteers included members from DEWA staff, youth residing in Hatta, and volunteer organisations. The visits were supported by Dubai Municipality and Dubai Police, in order to explain the initiative and its objectives to homeowners, take their opinion and initial approval on the initiative. The project aims to support Hatta residents, and transform them from energy consumers to producers of clean energy, as well as contribute to the protection of the environment, for generations to come.

DEWA Central Lab receives ISO/IEC 17025:2005 accreditation



DEWA's Central Laboratory has been accredited for ISO/IEC 17025:2005 by the Dubai Accreditations Centre (DAC). The accreditation includes the requirements for the competence of testing and calibration laboratories, and is adopted by the International Organisation for Standardisation (ISO) and the International Electrotechnical Commission (IEC). The accreditation is for both environmental and petrochemical testing services, with its scope covering 13 parameters in water, and 3 for oil. This supports DEWA's leadership in adopting the highest international standards and best practices.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, has received the certification from Nasser Lootah, Executive Vice President of Generation at DEWA. Al Tayer noted that this accreditation adds to DEWA's list of achievements in excellence and high standards. Al Tayer also stressed the importance of meeting the requirements of ISO/IEC 17025:2005, as it includes the technical requirements necessary to prove the efficiency of measurements and calibrations.



DEWA organises Stakeholder Happiness Strategy Workshop and Creativity Lab during DEWA Strategy Week 2017



DEWA organised Stakeholder Happiness Strategy Workshop and Creativity Lab, at Armani hotel in Dubai, concurrently with the DEWA Strategy Week 2017. The event was attended by HE Saeed Mohammed Al Tayer, MD and CEO of DEWA, DEWA's senior management, and several members of

DEWA's staff taking part. The creativity lab included the development of strategic frameworks to upgrade services, and achieve stakeholders' happiness.

The lab focused on positive discussions and the exchange of innovative ideas

to promote happiness. The schedule included a presentation of DEWA's strategy on happiness, as well as a number of suggestions and initiatives to promote happiness and integrate it within DEWA's corporate brand.

MD & CEO inaugurates Smart & Sustainable Transportation Summit

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, has inaugurated the Smart and Sustainable Transportation Summit in Dubai. Several officials from the government and private sector from the UAE and the region took part in the two-day summit in Dubai.

In his keynote speech, Al Tayer noted that Dubai has made great progress in becoming a smart city and aims to make 25% of the total transportation in Dubai autonomous by 2030, as per the Dubai Autonomous Transportation Strategy, which was launched last year by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. The strategy aims to make Dubai a sustainable place to live in, where future generations enjoy the best smart services. It is one of the main



pillars to achieve a sustainable economy for the UAE as it is expected to bring AED 22 billion in annual economic savings and revenues. It will also contribute to achieving the Dubai Plan 2021 to make Dubai a smart, integrated, and connected city whose environmental elements are

clean, healthy, and sustainable. Dubai intends to become the first city in the world to use the Hyperloop technology to transport passengers and goods, through high-speed vehicles in low-pressure tunnels, using less energy, without direct carbon emissions.

DEWA welcomes climate change ambassadors back from Tanzania



DEWA welcomed back its climate change champions, who were on an exploratory mission to Tanzania, in cooperation with National Geographic, to identify the impact and implications of climate change on communities, wildlife, and the environment in Africa and Tanzania.

The Tanzania trip is DEWA's third expedition, following the success of previous trips to Antarctica and the Amazonian forests of Peru in 2015 and 2016, respectively. A team of 6 staff from DEWA made the trip.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, welcomed the climate change ambassadors on their return to the UAE. Al Tayer highlighted the importance of these expeditions, and their role in finding the best solutions for protecting the planet.

The ambassadors began their 14-day expedition by climbing Mount Kilimanjaro, Africa's highest mountain, and the highest free-standing mountain in the world, to view the impact of climate change on the top of the mountain and its surrounding area, with the help of experts from National Geographic. They also visited Tarangire National Park to meet experts on environmental issues, global warming and climate change.

They also visited Arusha National Park, met with the Carbon Tanzania team, and learned about the steps they were taking to tackle climate change. They also went to the Kilimanjaro National Park, passing through the Mountain Forest to the camp, and went to the ancient Shira Plateau, listed on the UNESCO Heritage List, as well as the Lava Tower; a volcanic lava formation that is 300 feet (91 metres) high.

DEWA's team also visited the Rubondo Island National Park to examine the enormous negative impact of climate change on Lake Victoria, Africa's largest lake and the world's largest tropical lake. The participants concluded their mission at Dar es Salaam, where they met officials in Tanzania, to discuss the effects of climate change on the region and the steps taken to address them.



DEWA signs MoU with ADWEA for strategic water interconnection between Dubai & Abu Dhabi

DEWA and Abu Dhabi Water and Electricity Authority (ADWEA) have signed a Memorandum of Understanding (MoU) for strategic water connections and the exchange of potable water in case of emergencies, or other purposes, between Dubai and Abu Dhabi. This is part of the efforts of both DEWA and ADWEA to ensure that water security is sustainable and to establish strategic water reserves in the UAE. The MoU supports the strategic objectives of the federal government of the UAE. The MoU was signed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, and HE Dr Saif Saleh Al Sayari, Director General of ADWEA.

According to the MoU, DEWA and ADWEA will conduct a feasibility study for water interconnection between the two networks, including all available options and final recommendations regarding the best technical options. The two parties will agree on the consultancy services tender, list of bidders interested in participation, bids' evaluation, and awarding the tender that will include the consultancy services for preparing studies and detailed designs for the connection points.



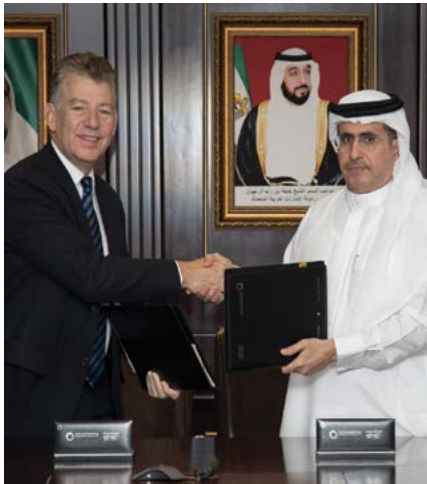
DEWA & Dubai Airports sign MoU to promote Smart Dubai

DEWA signed a Memorandum of Understanding (MoU) with Dubai Airports, as part of its efforts to expand cooperation and joint efforts to promote Smart Dubai, which was launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to make Dubai the smartest and happiest city in the world. The agreement will unify efforts and

resources, and exchange knowledge and innovative ways, to implement DEWA's three smart initiatives at Dubai Airports.

DEWA's smart initiatives include Shams Dubai to encourage buildings' owners to install photovoltaic solar panels on rooftops to produce energy and connect it to DEWA's grid, Smart Applications through Smart Meters and Grids to

speed up service delivery and response, and ensure reconnection in case of any unplanned interruptions, while rationalising smart energy consumption by monitoring consumption details simultaneously and at any time, using smart meters. The third initiative is the Green Charger to establish the infrastructure for electric vehicle charging stations.



DEWA discusses collaboration with French companies in R&D, solar roads, and smart lighting poles

A delegation, headed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, discussed collaboration with France's Colas Group in Research and Development (R&D) and producing clean energy from photovoltaic cells that are installed on road surfaces. The delegation also discussed developing smart lighting poles in collaboration with France's Ragni Group. The delegation to France included Waleed Salman, Executive Vice President of Business Development and Excellence, Marwan Bin Haider, Executive Vice President of Innovation and the Future, and Ahmed Abdulla, Senior Manager of External Communications at DEWA.

The delegation was received at Colas headquarters in Paris, by Paul-Henri Aumont, Regional Manager for the Middle East, and Pascal Duhoo, Director of Business Development at Colas Group. The two sides discussed collaboration in R&D in photovoltaic panels and working with the R&D Centre at the Mohammed



bin Rashid Al Maktoum Solar Park in Dubai. During the meeting, Colas presented Wattway, a Colas innovation developed in collaboration with the French National Energy Institute. These are solar cells installed on road surfaces to transform them into solar roads that produce clean energy.

In Nice, Al Tayer witnessed signing a Memorandum of Understanding (MoU) between Innogy International Middle

East, which was established by DEWA and Europe's Innogy, and Ragni Group, the leading French lighting company. The MoU aims to design and implement smart lighting poles that combine many innovative features that enhance the transformation towards the smart city. The MoU was signed by Pierre Samaties, CEO of Innogy International Middle East, and Jean-Christophe Ragni, Associate Executive Director of Ragni Lighting.

Adoption of DEWA's smart services reaches 80%

DEWA has confirmed that the adoption rate of its smart services has reached 80%, one year ahead of the deadline set by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to reduce the number of visitors to government offices by 80% by 2018. This is a new milestone added to DEWA's list of achievements.



"At DEWA, we work 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, who said, 'A smart government doesn't wait for people to come to it. Instead, it goes to them', and his directives to reduce visitors to government offices by 80% by increasing smart adoption of government services to 80%. We also work to achieve the directives of His Highness Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, that the government environment will be completely paper free by 2021. DEWA has made great strides in its smart transformation with its strategy to keep up with the latest technologies and developments and best international practices. DEWA has succeeded in transforming all its services into smart services, less than a year after the launch

of the Smart Dubai initiative, to make Dubai the smartest and happiest city in the world," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

"DEWA adopts an integrated strategy, plans, and innovative frameworks to use the latest technological solutions and systems to serve society, in line with the Dubai Plan 2021 to make Dubai a smart, integrated, and connected city that is sustainable with its resources, and our vision to become

a sustainable and innovative world class utility. Thanks to the efforts of DEWA's teams, we have succeeded in raising customers' awareness about our smart services, which enable them to complete their transactions easily and securely anytime, anywhere, using DEWA's smart app or website, without having to visit our customer happiness centres. This saves their time and effort. These efforts have contributed to increasing the adoption rate of our smart services from 40%, in 2010, to 80%, today," added Al Tayer.

DEWA gets awards for Best Customer Focus and Innovation at Best Business Awards 2017

DEWA has won the Best Innovation and Best Customer Focus awards at the UK's Best Business Awards 2017.

The awards recognise DEWA's achievements in implementing the best international standards for monitoring customer happiness to maintain continuous improvement and exceed their expectations. These awards also acknowledge DEWA's commitment in developing the concept of innovation and spreading the culture of individual and institutional creativity. This adheres to the directives of the Government of Dubai to achieve the highest standards of excellence, professionalism and competence in the field of world-class services, and promote a culture of excellence and innovation within the public sector.

"We are pleased to have received this prestigious award. The vision and directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, were key pillars for DEWA to achieve excellence and success, which



contributes to achieving its vision to be a sustainable innovative world-class utility," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA. "We are committed to providing innovative,

sustainable and world-class services, based on efficiency and safety, within an innovative environment. DEWA provides 6 key services and 30 sub-services to over 800,000 customers," added Al Tayer.

DEWA makes progress in AED 210 million water distribution project

DEWA has completed 109km of the project to supply, extend and commission water distribution networks. The total is 162km, with 67.3% of the project completed so far in different parts of Dubai, at a total cost of AED 210 million.

"The main objective of the project is to develop water distribution networks in Al Khawaneej 2, TechnoPark, and other new areas in Dubai, to improve operational efficiencies and increase the flow of water to meet the rapid demand for water. The project includes 450- and 100-millimetre-diameter extensions of GRE (Glass-Reinforced Epoxy) main water pipelines. The implementation of the project is going according to plan, and is expected to be complete by the end of 2017," said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.



World Green Economy Organisation (WGEO) launches Financial Sector Platform to mobilise green investments



The World Green Economy Organisation (WGEO), launched in October 2016 by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and supported by the United Nations Development Programme (UNDP), unveiled the Financial Sector Platform, on 8 September 2017 at the UN Headquarters in Beijing. The platform was launched in order to encourage investments for energy efficiency initiatives and programmes to support the shift towards a green economy.

A delegation from WGEO lead by HE Saeed Mohammed Al Tayar, Chairman of WGEO headed to Beijing for the official launch of the platform.

The official launch event was followed by meetings with officials from the private and public sectors in China. HE Al Tayar met Cui Yuying, Vice Minister, The State Council Information Office, Dr Yuan Yinghua, Chairman of Investment & Financing Committee in China Investment Association Project, and officials from Eco Forum Global China.

The Financial Sector Platform is one of the most significant platforms of WGEO. WGEO is founded on seven platforms for a range of sectors. These include the Countries, Sustainable Cities, Academia, Organisations & Civil Society, Youth and Financial Sector.

China has launched an ambitious domestic program to develop a green financial system and is placing green finance as one of the priorities of its G20 Presidency. As such, China was the chosen destination to launch this effective platform.

DEWA hosts HYPE Innovation Managers Forum

DEWA hosted the HYPE Innovation Managers Forum at its Sustainable Building in Al Quoz. The forum was attended by experts and specialists in innovation from a number of major organisations from across the world.

They exchanged views, experiences, best practices, and success stories in innovation. The forum was inaugurated by HE Saeed Mohammed Al Tayar, MD & CEO of DEWA. HE Dr Ahmed Al Nuseirat, Coordinator General of the Dubai Government Excellence Program, and officials from DEWA and HYPE Innovation, were present.



DEWA builds closer ties with Chinese public and private sectors



A delegation headed by HE Saeed Mohammed Al Tayar, MD&CEO of DEWA, visited the People's Republic of China.

The visit built closer ties with Chinese renewable and clean energy and smart services and smart grid companies and the Chinese Government.

Al Tayar met Cui Yuying, Vice Minister

of the State Council Information Office, and Dr Yuan Yinghua, Chairman of the Investment and Financing Committee in the China Investment Association Project, to discuss bilateral relations.

Al Tayar and the accompanying delegation visited Hanergy Holding Group's headquarters in Beijing and the Huawei R&D centre.



DEWA trains 197 students over summer of 2017



DEWA has completed its summer training programme this year for 197 school and university students. This is part of DEWA's commitment to support and develop young Emiratis.

The programme included a number of training courses such as 'Sanad Bag,' where students were trained on how to deal with People of Determination, and Team Building, where students

learned how to work as a team. DEWA also organised field trips to its plants where the trainees were introduced to the technologies used in electricity production and water desalination.



Huge turnout at DEWA's stand in Expo Astana



DEWA's stand at Expo Astana 2017 received a large number of visitors from around the world. DEWA participated in the exhibition, whose theme was 'Energy of the Future,' as a gold sponsor of the UAE pavilion, which covered 980 square metres. The number of visitors to DEWA's stand ranged from 3,000 to 6,000 visitors per day. DEWA's stand also attracted officials and stakeholders in renewable energy, sustainability, green economy and energy efficiency from around the world.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA commended the volunteers at the UAE Pavilion and DEWA's stand, for providing visitors with information about the UAE's pioneering initiatives and investments in renewable energy, as well as the UAE's culture, customs, traditions, and values of tolerance. At Expo Astana 2017, which ran until 11 September 2017, DEWA showed a number of its clean energy projects and initiatives. These include the Mohammed bin Rashid Al Maktoum Solar Park, which covers the three themes of economic, environmental and social sustainability. It is the largest single-site solar project in the world, based on the Independent Power Producer (IPP) model.



DEWA signs MoU with Suqia and Mohammed bin Rashid Al Maktoum Charity and Humanitarian Establishment

DEWA has signed a Memorandum of Understanding (MoU) with UAE Water Aid Foundation (Suqia) and Mohammed bin Rashid Al Maktoum Charity and Humanitarian Establishment (MBRHC), to implement joint humanitarian initiatives outside the UAE. This is part of DEWA's CSR efforts to support the Year of Giving 2017, and align its social and voluntary activities with the main goals of the 'Year of Zayed 2018' initiative.

The MoU was signed by HE Saeed Mohammed Al Tayer, MD & CEO of DEWA and Chairman of the Board of Trustees of Suqia, and HE Khalid Ali bin Zayed Al Falasi, Member of the Board of Trustees of MBRHC, in the presence of Saleh Zaher Al Mazrui, General Manager of MBRHC.



The MoU aims to enhance cooperation between the three parties in the field of volunteering to help developing countries. What's more, it has been

already put into action by launching 'Risalat Khair,' a cooperation between the three parties, to help poor families in Tajikistan, through the establishment

of various sustainable projects to ensure a stable income and a decent life, which supports the region's social and economic development.



Etihad ESCO retrofits 243 buildings for Wasl Properties



Etihad Energy Services Company (Etihad ESCO), a company owned by DEWA, has started a project to retrofit 243 buildings for Wasl Properties in different parts of Dubai. The project will increase energy efficiency of the building, achieving annual savings of over AED15 million as a result of upgrading the air

conditioning and lighting systems. The project, worth AED69 million, was awarded to Smart Automation Energy (SmartAE), which specialises in retrofitting and upgrading of buildings. It is scheduled to be completed within one year.

The project includes installing photovoltaic solar systems on the roofs of buildings with a capacity of 4.5 megawatts, as well as retrofitting

the existing systems in the buildings. This includes the replacement of 8 compressor units for central cooling units, adding condensers to the central units, replacing 796 old air conditioning units, and upgrading 618 units. The project will also improve the central air conditioning systems in 230 buildings, using the latest smart technologies. Approximately 71,000 units will be also replaced by high efficiency LED lamps.

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WITH YOUR HELP, WE CAN MAKE IT ACCESSIBLE TO ALL.**

SMS 'SUQIA' (DU AND ETISALAT) TO

DONATION AMOUNT	AED 25	AED 75	AED 150	AED 250	AED 500
SMS NUMBER	8025	8075	8150	8250	8500

Above AED 500, deposit into:

Account Name - UAE WATER AID (SUQIA) FOUNDATION

Abu Dhabi Islamic Bank - IBAN No. AE43 0500 0000 0001 2001 107

Dubai Islamic Bank - IBAN No. AE58 0240 0165 2008 1625 701

Emirates Islamic Bank - IBAN No. AE46 0340 0037 0755 6269 301

News

Suqia supports UAE's humanitarian efforts by providing water to the unprivileged around the world

- 8 million people, in 19 countries benefit from Suqia's projects
- Suqia provides drinking water to over 90,000 people in Somalia, in line with Year of Giving, and in support of the 'For Your Sake, Somalia' campaign
- 10 winners in the first Mohammed bin Rashid Al Maktoum Global Water Award



The values of giving and philanthropy have always been main values in the UAE, which lends its helping hand to alleviate human suffering anywhere. Launching the UAE Water Aid Foundation (Suqia) has made it a valuable addition to the UAE's humanitarian efforts. It emphasises that the approach of the late Sheikh Zayed bin Sultan Al Nahyan is alive and that the UAE's wise leadership is carrying on his humanitarian legacy.

Founding of Suqia

In June 2014, HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, launched a campaign to provide access to fresh drinking water for 5 million people around the world. The campaign surpassed its target, collecting over AED180 million, enough to provide water to over 7 million people around the world. In March 2015, HH Sheikh Mohammed bin Rashid Al Maktoum issued law number 3 of 2015, establishing the UAE Water Aid Foundation as a non-profit organisation. His Highness also issued decree number 8 of 2015 forming the Board of Trustees of the UAE Water Aid Foundation, chaired by the MD & CEO of DEWA and membership of representatives from Ministry of International Cooperation and Development, UAE Red Crescent Authority, United Arab Emirates University, Khalifa

University of Science and Technology, and two representatives from DEWA.

Goals of Suqia

As defined by law number 3 of 2015, the objectives of the UAE Water Aid Foundation include promoting the UAE's contribution as a key player in implementing humanitarian efforts to improve the living conditions of poor and affected communities and achieve sustainable development. The Foundation also supports humanitarian organisations in the UAE. It also supports international efforts to provide clean drinking water, fight water-related diseases that threaten human lives, and protect water from biological and chemical pollutants. The UAE Water Aid Foundation also provides potable water to the needy, the disadvantaged, and those who are in distress around the world and contributes to finding permanent and sustainable solutions to water scarcity around the world. This is done using the latest technologies, desalinating water using solar power, and providing new and innovative technological solutions for communities that suffer from scarcity and pollution of drinking water.

8 million beneficiaries around the world by end of 2016

Suqia implemented projects providing

drinking water, to 8 million people, in 19 countries worldwide, up to the end of 2016, in collaboration with a number of leading charity organisations.

In cooperation with the Emirates Red Crescent, and the Mohammed bin Rashid Al Maktoum Charity and Humanitarian Establishment, and under the umbrella of the Mohammed bin Rashid Al Maktoum Global Initiatives, Suqia implemented 10 projects in Ghana, Uganda, Somalia, Tajikistan, Mauritania, Mali, and Senegal, in 2016. Suqia also provided relief assistance to Yemen, in cooperation with the Ministry of Development and International Cooperation. According to the Ministry, the number of beneficiaries exceeded 1 million people.

Most prominent humanitarian projects

Suqia's projects, in the Year of Giving, include drilling artesian wells in Afghanistan, The Philippines, Benin, Bangladesh, Djibouti, Thailand, and Burkina Faso. About 122,000 people expected to benefit from these projects. Suqia also distributed water to mosques and Ramadan tents, in cooperation with 13 local charities organisations and associations across the UAE, during the Holy Month of Ramadan.

As part of 'For your Sake, Somalia', Suqia provides drinking water to 90,000 people

As part of its efforts in the Year of Giving, and in support of the 'For your Sake, Somalia' campaign, launched by the Emirates Red Crescent, Suqia is implementing two projects to provide drinking water to over 90,000 people in Somalia, in cooperation with the Mohammed bin Rashid Al Maktoum Charity and Humanitarian Establishment. Suqia's first project, in Ufayn in the eastern region of Somalia, includes building a 300-cubic-metre water collection point near the water springs at the foot of the mountain and 600 cubic metre water reservoirs. The project also includes repairing and replacing the three-kilometre pipeline network. Solar-powered pumps will be provided to pump water from the ground reservoir to an elevated water tank in the town. The project will make it easier for residents to access potable water, reducing the distance they have to travel to obtain water for drinking, irrigation, or livestock. The project will benefit about 50,000 people in the town and neighbouring villages. The second project involved drilling an artesian well in the village of Tookiyo in the Lower Shabelle province in Somalia, and the installation of pipes and an electric pump. The project will provide over 40,000 people with clean water, alleviating residents' suffering in getting water, and limiting diseases that could spread as a result of drinking contaminated water.



is worth USD 1 million. The Award was launched by HH Sheikh Mohammed bin Rashid Al Maktoum, to encourage research centres, individuals and innovators from around the world to find innovative and sustainable solutions for clean-water scarcity around the world, using solar power. It has three main categories: Innovative Projects Award, Innovative Research and Development Award, and the Innovative Youth Award. The first Mohammed bin Rashid Al Maktoum Global Water Award received 138 applications from 43 countries around the world. HH Sheikh Maktoum bin Mohammed bin Rashid Al Maktoum, Deputy Ruler of Dubai, honoured 10 winners from 8 countries at the first Award.

promotes research and development (R&D) to find innovative and sustainable solutions to water scarcity. It explores ways to purify water using solar power to meet the increasing demand, and contribute to the sustainable development.

Its projects include the reverse osmosis of seawater by a photovoltaic desalination plant and water purification using solar technology, in cooperation with DEWA, with a capacity of 7.7 cubic metres per day, enough to meet the needs of 1,540 people.

Furthermore, there is the solar-powered water pumping and desalination station at the Mohammed bin Rashid Al Maktoum Solar Park, which uses photovoltaic solar panels to desalinate water with Reverse Osmosis (RO) technology, with a production capacity of 50 cubic metres a day, to meet the needs of 10,000 people.

Global Award worth USD 1 million R&D

Suqia oversees the Mohammed bin Rashid Al Maktoum Global Water Award, which

Suqia not only provides drinking water to the needy around the world, but also



Suqia Board discusses second Mohammed bin Rashid Al Maktoum Global Water Award

The Board of Trustees of Suqia held its second meeting in 2017. The meeting, chaired by HE Saeed Mohammed Al Tayar, Chairman of the Board of Trustees of Suqia, discussed Suqia's projects under the umbrella of the Mohammed bin Rashid Al Maktoum Global Initiatives (MBRGI). The meeting also discussed details of the second Mohammed bin Rashid Al Maktoum Global Water Award, which is overseen by Suqia.



The Board of Trustees discussed the criteria for the award in the next phase, and highlighted the proposals supporting the development of the award, including projects to provide fresh drinking water to help the needy throughout the world.

DEWA & Suqia in collaboration with Surge organise awareness on water scarcity and rationalisation

DEWA and Suqia have organised an awareness programme for school students in Dubai, in collaboration with Surge, a global non-profit organisation for water, sanitation, and hygiene projects.

This is part of DEWA's efforts to educate future generations about the global water crisis and water scarcity, as well as teach youth about sustainability, and rationalisation of resources.

The programme for elementary and middle school students from the public and private sector included a variety of activities. Students also participated in interactive and educational activities,



and games, to promote environmentally-friendly behaviour, conserve natural resources, and rationalise water consumption. The activities included water footprint, water competitions, seeds of hope, and others.

900 students benefitted from the programme last year, and Surge is working to increase this number to 1,200 students by the end of this year.

Since its inception in 2008, Surge has facilitated access to safe drinking water through sustainable solutions to more than 400,000 people in 11 countries around the world.

Emirati women, partners in giving and innovation



Khawla Al Mehairi
Chairperson of DEWA's
Women's Committee

According to the Global Community Innovation Survey, conducted by the Massachusetts Institute of Technology (MIT) that was in collaboration with the Mohammed bin Rashid Centre for Government Innovation, the UAE is one of the top 10 highest-ranking countries in the world with regards to community innovation. What's notable in that result is that Emirati women made up the majority of the UAE innovators, in contrast with the other countries on the list where men dominated.

These results affirm what HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, said that the UAE has moved beyond the phase of empowering women, to empower society through its women. The results also support the vision of HH Sheikhha Fatima bint Mubarak, Chairwoman of the General Women's Union, Supreme Chairwoman of the Family Development Foundation and President of the Supreme Council for Motherhood and Childhood and 'Mother of the Nation,' who declared 2016 as the Year of Women's Innovation, making it an important milestone for Emirati women.

Emirati women have proved their creativity and excellence in various areas, thanks to the unlimited support provided by our wise leadership who developed the policies and legislations, and provided all the capabilities and opportunities for women's empowerment, continuing the legacy of the late Sheikh Zayed bin Sultan Al Nahyan.

This year, we celebrated Emirati Women's Day, under the theme 'Women are partners in giving.' This theme reflects the important role of Emirati women in humanitarian work, and emphasises

the philanthropic approach instilled in the hearts and minds of Emirati men and women, and knows no geographic, ethnic, or religious boundaries.

For the third consecutive year, DEWA organised Emirati Women's Forum on 28 August 2017. A large number of women leaders and officials from the public and private sectors in the UAE took part in the forum. We are proud that DEWA plays a major role in empowering women in all the workplace, and enhancing their capabilities so that they contribute to the empowerment of society as a whole. In August, 8 female staff took part in the Risalat Khair, our international volunteering programme, which DEWA organised in Tajikistan, in cooperation with the Mohammed bin Rashid Al Maktoum Charity and Humanitarian Establishment, and the UAE Water Aid Foundation. Each volunteered to work 10 hours a day for five days in this unique humanitarian project.

In 2016, DEWA's female staff contributed over 50% of the total volunteering hours of about 13,000 hours in various humanitarian and social projects.

DEWA's Corporate Social Responsibility efforts have contributed to an increase in community satisfaction and happiness, which reached 89% in 2016.

On Emirati Women's Day, I thank DEWA's leadership, headed by HE Saeed Mohammed Al Tayer, MD and CEO of DEWA, for his keenness to provide a positive and motivating work environment that supports female employees, and helps them balance their professional and personal lives so that they effectively serve the country and contribute to its development and prosperity.

Women's Committee Activities

DEWA's Women's Committee adopts an integrated approach to support female employees, in all areas, whether in terms of personal, psychological, professional, health, or social development. Recent activities organised by the Committee include:

3rd Emirati Women's Forum



On Emirati Women's Day on 28 August every year, DEWA Women's Committee organised the 3rd Women's Forum under the theme 'Women are Partners in Giving'.

Lecture on Irlen Syndrome



In collaboration with the Alef Centre for Educational and Psychological Consultation, the Committee held a lecture on Irlen Syndrome, which is a perceptual problem that affects people's ability in various aspects such as writing, reading and vision.

Skincare



The Committee organised a training course on skincare, under the supervision of specialised lady experts.

Fitness classes



To ensure the health and fitness of female staff, the Women's Committee organises fitness classes three times a week, under the supervision of a specialised female trainer.

A day of entertainment at Dubai Ice Beach

The Committee organised an open day for DEWA's female staff on Dubai Ice Ladies Beach at the Dubai Ladies Club, where they enjoyed ice and water activities.



Lecture on the importance of breastfeeding



The Women's Committee organised a lecture on the importance of breastfeeding, under the supervision of specialised doctors from the Ministry of Health and Prevention.

Moving Boutique



Before Eid Al Adha, the Committee hosted the Moving Boutique, which included many products for women.

Emirati child invents a solar-powered car

Rashid Muslim, an Emirati boy in the sixth grade, has invented a solar toy car thanks to the school's global robot club. Muslim explained that the car works using a battery, which is charged by electricity. He provided the car with solar panels that collect energy and make the car work for hours without interruption. He highlighted that since the future is moving towards the use of clean energy, he decided to start this project, especially that the school's management encourages innovation and creativity.



Smart innovation for agriculture and environment

Abdulahman Saleh Al-Baloushi, 23, and Sheikha Salem Al-Wahaibi, as well as two American students, succeeded in manufacturing a smart irrigation system.

They succeeded in winning first place, among 31 teams, in electrical engineering at Arizona State University. The idea of the system is to use a mobile phone, to facilitate user control, without being restricted to a specific location. A user can

make an irrigation order, at work, on an airplane, or in another country.

"We used one sensor to measure the amount of water in the soil, one to measure the amount of water used to irrigate agriculture, and another to measure the temperature. We were then able to determine the number of times and the quantity needed for irrigation," said Al-Baloushi.



Emirati experiment launches on NASA Falcon 9 rocket

Emirati teen, Alia Al Mansoori, winner of the Genes in Space competition, Florida, saw the launch of the Falcon 9 rocket which carried her winning experiment, in Florida.

Al Mansoori saw the historic launchpad where Apollo 11 took off for the Moon, met Chris Ferguson, the commander of the last Space Shuttle mission, and saw inside the Boeing workshops where the next generation of spaceships, the Starliner, is being built.

"Once I saw the space shuttle, I knew exactly what I wanted to do: travel into space," said Al Mansoori.



Panda-shaped solar power plant to be inaugurated in China

China recently launched its first, panda-shaped, renewable power plant, aiming to teach children about the importance of sustainable and renewable energy.

The capacity of the Panda shaped plant is 100 MW. The current solar park highlights two baby pandas, while parks in the shape of two adult pandas will eventually be added.

This is just the first of 100 panda-shaped solar plants planned around the world.



Aviation sector protects the environment

Aircraft manufacturers continue their efforts to manufacture environmentally-friendly planes that depend on alternative fuel. This is part of the ongoing global drive to use clean energy, and the interest in green transportation. Here are a few examples.

Aircraft powered by solar energy and helium

Canadian SolarShip developed a solar-powered, helium-filled plane, that requires just a 100-metre-long terminal for take-off. The plane is ideal for transporting medical and food supplies to distant remote sites affected by natural disasters, and other places that are difficult to reach by other aircrafts.

Electric engines

Boeing and JetBlue are investing in Zunum Aero, which aims to develop electric-powered aircraft for short-haul flights,

capable of carrying 10-50 passengers, at a height of 1,600km. The aircraft is expected to be economic and environmentally friendly, as it operates by Hybrid propulsion. Environmental emissions will be reduced by 80% and the noise level by 75%.

Wright Electric, a British start-up aircraft manufacturer is designing the first prototype of a 150-seat electric-powered passenger aircraft. The company aims to develop an aircraft capable of making short-haul flights between the London and Paris or between Boston and New York, using a rechargeable battery.

Dubai tests world's first self-flying taxi

The Dubai Roads and Transport Authority (RTA) tested the world's first self-flying tax. Developed by Germany's Volocopter, the air taxi is an environmentally-friendly vehicle. It is powered by clean electricity,

features low noise levels, and has a maximum flight time of approximately 30 minutes at a cruise speed of 50 km/h, and a maximum airspeed of 100 km/h.

Emirates uses environmentally-friendly aircraft cleaning technique

Since early 2016, Emirates has been using a 'drywash' technique to clean its fleet, saving 11 million litres of water every year. A liquid cleaning product is applied manually to the entire external surface of the aircraft and special microfibre fabric is then used to remove the cleaning product which has dried to a film, removing the dirt along with it. The waterless aircraft technique ensures that the aircraft remains cleaner for a longer period of time thereby reducing the number of times it has to be washed to about three times a year, and reducing the aircraft's fuel consumption because of less accumulation of dirt.





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