

Al Masdar

Issue 59 - June 2016

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page 8

DEWA signs MOU with Masdar to implement the third phase of Solar Park

page 12

Showcasing innovative achievements in sustainability at Arab Media Forum 2016

page 14

Highlighting Dubai's international position in sustainable development at Mohammed bin Rashid Solar Park

page 22

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"Innovation in government is not an intellectual luxury, a topic to be confined to seminars and panel discussions, or a matter only of administrative reforms. It is the recipe for human survival and development, the fuel for constant progress, and the blueprint for a nation's rise."



HH Sheikh Mohammed bin Rashid Al Maktoum

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

Message from MD & CEO of DEWA



HE Saeed Mohammed Al Tayer
MD&CEO of DEWA

The achievements accomplished by Dubai Electricity and Water Authority (DEWA) contribute to the ongoing success of the Emirate across all fields, and reflect our unceasing commitment towards achieving the vision of our wise leadership, to continue pushing towards excellence and achieving our objectives. HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of the Dubai once said, "Success is not a destination, but a journey. Each time that you reach a summit on this journey, you must look ahead to the next one."

One of DEWA's greatest accomplishments this year was winning six awards during the Dubai Government Excellence Program (DGEP), including the award for Distinguished Government Entity. I would like to commend DEWA's employees for their efforts to work as a team, and for adopting excellence and innovation as part of daily life, based on a strategy that promotes joint effort to achieve the happiness of customers, and the community as a whole. We are currently working to implement the fourth-generation government excellence system. This aims to upgrade the system of government work, based on the highest standards of innovation, to achieve the happiness and satisfaction of all people.

DEWA strives to participate in initiatives involving the youth, as part of its efforts to achieve the Dubai Plan 2021 to be a city of happy, creative, and empowered people who are loyal to the UAE, and DEWA's vision to become a sustainable innovative world-class utility. In May, DEWA hosted the 'Reading is Positive Energy' tent at Zabeel Park, which included a Youth Circle held under the theme 'Youth and Sustainability.' This is part of the Youth Circles initiative. The event witnessed the participation of HE Shamma bint Sohail Faris Al Mazrouei, Minister of State for Youth Affairs. The session was also attended by some of DEWA's younger employees, who participated in discussions regarding the youth and their contribution towards achieving sustainable development in the UAE.

We are taking confident steps towards the diversification of energy resources in the Emirate, and have announced the preferred bidder for the 800 megawatt (MW) third phase of the Mohammed bin Rashid Al Maktoum Solar Park, based on the IPP (Independent Power Producer) Model. DEWA has received a globally-competitive price of USD 2.99 cents per kilowatt (KW), for the Park's third phase based on the IPP model, which will be operational by 2020. June witnessed the launch of a new phase, as part of our efforts towards diversifying our energy resources, in adherence with the Dubai Clean Energy Strategy. The Strategy aims to provide 75% of Dubai's total power output from clean energy by 2050. In adherence with the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, DEWA launched the largest Concentrated Solar Power (CSP) project in the world, based on the IPP model, with an expected capacity of 1000 MW by 2030, at the Mohammed bin Rashid Al Maktoum Solar Park.

We will continue to launch pioneering projects to achieve the diversification of Dubai's energy resources, and achieve a balance between development, and the environment, to ensure a clean, healthy, and safe environment for future generations. This will enhance Dubai's international position, and contribute towards achieving DEWA's vision to become a sustainable innovative world-class utility.

We ask God Almighty to protect the UAE, and to bless us with security, safety, and peace, under our wise leadership.



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.



June 2016 - Issue 59

Editor in Chief

HE Saeed Mohammed Al Tayer

Managing Editor

Khawla Al Mehairi

Deputy Managing Editor

Khuloud Khalid Al Ali

Arabic Editors

Ribal Dayekh

Sami Samir Georgy

Ahmed Al Banna

English Editor

Jonathan Howell-Jones

Assistant editors

Shaikha Awad Al Ayali

Aysha Khalid Bin Zayed

Preparation and Coordination

Noora Khoory

Mosaad Abdulrahman

Iman Ghubash Al Marri

Photography

Hassan Adam Hassan

Mohammad Abdullah

Layout & Design

Shaikha Awad Al Ayali

Aysha Khalid Bin Zayed

Dubai Electricity and Water Authority

Main Office - P.O.Box: 564

Tel: +971 4 324 4444

Direct: +971 4 307 2633

Fax: +971 4 324 8111

Website: www.dewa.gov.ae

Email: media@dewa.gov.ae



Cover story

8



DEWA signs MOU with Masdar to implement the third phase of Solar Park

Achievements

22



DEWA makes excellence and innovation a way of life

News

16



- DEWA visits China to boost energy projects in the UAE
- Commissioning improved AED 654 million water transmission networks
- Transforming electricity users into producers
- DEWA joins International Energy Agency
- Three electric cars to winners of Smart Services campaign



- DEWA organises a workshop on Soiling Effect on PV Modules
- DEWA honours 15 recipients of the International Expert ITIL Certificate
- Staff share 5,139 ideas on MyDEWAideas portal in 2015
- DEWA organises Innovation Camps
- Employee training guide for 2016 with 1,095 courses

Main events

12



Showcasing innovative achievements in sustainability at
Arab Media Forum 2016

Smart Infrastructure

14



Highlighting Dubai's international position in sustainable development
Mohammed bin Rashid Solar Park

Initiatives

32



Reading is Positive Energy

Main events

10



Amazon Expeditions



Supreme Council of Energy

30



- 11th Demand Side Management committee meeting reviews energy intensity mapping
- World Green Economy Summit Announces Programme and Key Note Speakers
- Supreme Council of Energy holds press conference in Amman to promote 3rd Emirates Energy Award
- Awareness workshop on nuclear energy strategy
- Honoring sponsors and participants in the State of Green Economy Report 2016

Corporate Partnerships

36



Strong long-term relations with strategic partners to ensure prosperity and growth

Conversation tips

40



Your Footprint in Water Consumption

Women's Committee

42



Emirates Women Award honours DEWA as Platinum Sponsor

For The Capacity of 800 MW of Solar Energy

DEWA signs MOU with Masdar to implement the third phase of Solar Park





DEWA has signed a deal to begin the implementation of the third phase of the Mohammed bin Rashid Al Maktoum Solar Park, in the presence of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE, and Ruler of Dubai. Also in attendance was HH Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai and UAE Minister of Finance, and HH Sheikh Mansour bin Zayed Al Nahyan, Deputy Prime Minister and Minister of Presidential Affairs. The signing signifies the implementation of the 800 megawatt (MW) third phase of the Mohammed bin Rashid Al Maktoum Solar Park, based on the Independent Power Producer (IPP) model. The deal was signed by HE Sultan Al Jaber, Minister of State, and Chairman of Abu Dhabi Future Energy Company (Masdar), and HE Saeed Mohammed Al Tayer, MD & CEO of Dubai Electricity and Water Authority (DEWA). In compliance with the agreement, the Masdar-led consortium including Spanish companies Fotowatio Renewable Ventures (FRV), and Gransolar Group, will complete the third phase of the Solar Park. The third phase of the Mohammed bin Rashid Al Maktoum Solar Park will be operational by 2020, to coincide with the World Expo 2020 in Dubai. The Solar Park supports the UAE Vision 2021, which aims to transform the UAE into one of the best countries in the world by 2021.

The project is the largest of its kind in the world, with an expected capacity of 5,000 MW by 2030, and an investment of up to AED 50 billion. Al Jaber noted that the vision of the wise leadership, represented by HH Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE, his brother HH Sheikh Mohammed bin Rashid Al Maktoum, and HH Sheikh Mohammed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the Armed Forces have had a significant impact on the leader-

ship of the UAE in various fields and sectors through long term strategic planning and work for the future, to ensure a safe and stable life for future generations.

Al Jaber explained that the energy sector is a nation's source of development and prosperity, through its role in achieving sustainable, economic, and social development. Based on this knowledge, the UAE works to ensure energy security, by creating a diverse mix of energy resources that builds on renewable energy, and peaceful nuclear energy. The UAE also works to enable innovation in clean technology, and invests in qualified human capital, to enhance the energy sector and its participation in the national economy, thus developing a knowledge based economy.

"We are pleased with the implementation of this project, borne by the experience and success gained by Masdar over the past decade, in addition to the growth and development we have witnessed, thanks to the support of the wise leadership. This sizable project and competitive price proves that solar energy has become a reliable source of energy, through the use of modern and innovative technologies with commercial viability," said Al Jaber.

"We are glad to be cooperating with DEWA, and look forward to achieving the objectives set by the Sheikh Mohammed bin Rashid Al Maktoum Solar Park, which will become a major contributor to the energy sector on all national, regional, and international levels," added Al Jaber.

"In adherence with the directives of HH Sheikh Khalifa bin Zayed Al Nahyan, may God protect him, HH Sheikh Mohammed bin Rashid Al Maktoum, and HH Sheikh Mohammed bin Zayed Al Nahyan, today has witnessed another achievement in the field of solar energy, through the signing of this agreement with the consortium led by Masdar, who won the tender to implement

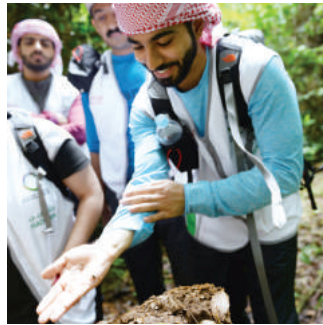
the 800 MW third phase of the Mohammed bin Rashid Al Maktoum Solar Park based on the IPP model, by bidding the lowest price," said Al Tayer.

The vision of the wise leadership aims to transform the UAE into the most sustainable country in the world, by continuously implementing renewable and clean energy projects to preserve natural resources, while developing the future of energy throughout the region. This will contribute towards achieving sustainable development, and the happiness of all citizens and residents in the UAE, and will ensure a sustainable future for generations to come," added Al Tayer.

"We are implementing the Dubai Clean Energy Strategy 2050, to diversify the energy mix, to include 25% of Dubai's total energy output from clean energy resources 2030, with this target expected to increase to 75% by 2050. The main objective behind this strategy based on innovation and Research and Development (R&D), is to explore the future of the energy sector, while implementing initiatives, and keeping up to date with the latest scientific and technological developments," continued Al Tayer.

"Since the launch of the Mohammed bin Rashid Al Maktoum Solar Park, we have received numerous offers from several international bodies in the business and energy sectors. This reflects the confidence, and the interest that investors have in projects being sponsored by the Dubai Government, with the existence of regulatory and legislative framework, allowing the private sector to participate in energy production projects. The 800 MW third phase of the Mohammed bin Rashid Solar Park, is the first of its kind in the region due to its size and capacity. We will show the world the capabilities of our utilities sector, and our focus on exploring renewable and clean energy sources," concluded Al Tayer.

Main events



Amazon Expeditions: **Exciting adventures that urges responsibility towards climate change**

The climate change is affecting the world in more adverse ways than we can possibly imagine, and the effects are especially visible in the rain forests of the amazon. It is a well-known fact that rainforest destruction and climate change are leading to mass extinctions of plants and animals. Half of earth's remaining tropical forests, the amazon spans across eight rapidly developing countries: Brazil, Bolivia, Peru, Ecuador, Colombia, Venezuela, Guyana, Suriname and French Guiana, and an overseas territory of France. The landscape contains one in ten known species on earth, 1.4 billion acres of dense forests, 4,100 miles of winding rivers and an astounding 2.6 million square miles in the amazon basin, about 40 % of South America. There is a clear link between the health of the amazon and the health of the planet. The rain forests, which contain 140 billion metric tons of carbon, help stabilize local and global climate. Deforestation may release significant amounts of this carbon, which could have catastrophic consequences around the world.

Based on its belief in the importance of studying the effects of climate change on biodiversity, ecosystems, and the inhabitants of the Amazon to enrich research and enhance chances of finding solutions to achieve a more sustainable world, DEWA strongly supports the Dubai Plan 2021, and the long-term national Green Economy for Sustainable Development initiative, launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to make the UAE a pioneer in the field of environmental awareness.

DEWA sent a group of employees on an expedition to the Rainforest in Peru on 9 May 2016, to enhance cooperation with the international community, and face climate change while working to adopt the best sustainable practices and launch renewable energy projects. This supports DEWA's commitment towards achieving sustainable development based on knowledge, innovation, and sustainable green growth. The expedition aimed to highlight the effects

of global warming, raise awareness regarding the importance of preserving Antarctica and to stop major companies from drilling and mining in the Antarctic, by the time the international protection protocol expires in 2041. The expedition also aimed to study the effects of climate change on biodiversity, ecosystems and the inhabitants of the Amazon, and Peru was the destination of choice because of the clearly-visible effects of climate change within the Amazonian rainforest.

The expedition ran for 12 days and focused on 3 specific areas in Peru; which include the desert coast, the cloud forests of the Andes and the lowland rainforest. Once returned from the trip, the participating employees joined the ranks of already existing Climate Change Champions and share the knowledge they gained from the expedition, with the public, and other DEWA employees. Through this initiative, DEWA promotes a culture of sustainability among employees.

DEWA's Climate Change Ambassadors meet Consul General of Peru in the UAE

DEWA's Amazon Rainforest expedition team met Carlos Tavera, Consul General of Peru in the UAE, as part of the preparations for their trip to Peru. During the meeting, Tavera taught the expedition members about the different cultures in Peru, and commended DEWA's efforts and the enthusiasm of the members ahead of their expedition, joining the international community in efforts to face climate change.

Al Tayer noted the clear correlation between the health of the Amazon and the health of the planet. The rainforests absorb about 90 to 140 billion metric tons of carbon, which help stabilise local and global climate. Al Tayer stressed that deforestation may release significant amounts of this carbon, which could have catastrophic consequences around the world.

"Peru is one of the 17 recognised most-diverse countries in the world. However, our rich biodiversity is greatly vulnerable to the effects of climate change, which is why the Peruvian government has presented a national plan of action and, among others, implemented state policies to benefit awareness regarding environmental protection and increased participation in international conferences about environmental issues such as the 20th Conference of the Parties (COP) on Climate Change, that took place in Lima, Peru in December 2014. We are pleased to see the interest of the United Arab Emirates in learning more about the Peruvian reality and

experiences, especially in the framework of the commemoration of 30 years of diplomatic relations. We hope that the DEWA delegation traveling to our country enjoyed their time getting to know Peru," said Tayer.

Climate change is one of the largest issues facing the world today, it is our duty to combine efforts to find solutions to this phenomenon and limit its causes. DEWA's expeditions are part of our commitment towards the environment, and our commitment to develop our national staff and their skills and experiences to become the leaders of the future.

Adventures & knowledge

The Climate Change Champions visited Puerto Maldonado in the Mare de Dios region of south-east Peru, which is considered the most biological diverse place on the planet, the region embodies the Amazon, except on a much smaller scale. Upon their return, the Climate Change Champions informed DEWA's employees about their trip to the Tambopata national reserve, the Posada Amazonas reserve, the Refugio lodge reserve, the depths of the rainforest, and the village of Infierno, a community of native Ese'jea people. The Champions taught the audience on ways to protect the forest, and restore damaging areas of the rainforest, allowing the mitigation of climate change. The Champions also highlighted tropical forests, and their role in climate change.

In addition to this, the Champions will highlight Cusco in the Andes, the oldest permanent settlement in the western hemisphere and a center for the Inca Empire, the Ancient Incan village of Ollantaytambo, a town that looks very much like it did centuries ago, Aguas Calientes, Machu Picchu, a UN world heritage site, the citadel and its still functioning aqueduct system. The champions shared details in regard to their experience the Andean cloud forest, the headwaters of the amazon basin, and talked about their experience at the Machu Picchu Hydroelectric power station, towns in the sacred valley that rely on melting glaciers for irrigation, power, and drinking water.

When the Champions have completed their 12-day expedition, they returned to the UAE and began their mission to raise awareness in regard to the importance of facing climate change, protecting natural resources, and enhancing DEWA's role as a major pillar to find solutions to enhance Dubai and the UAE's position, and to provide a brighter future, for generations to come.

Main events



Showcasing innovative achievements in sustainability at

Arab Media Forum 2016

Media has become an important element of modern day life. It has helped to serve humanity and aids in the growth of individuals. To successfully convey a message and enhance the pillars of society, it is important that media conforms to a set of basic human values, as major pillars of life. Dubai hosted the 15th Arab Media Forum (AMF), to support these values, and to achieve the progress of communities and civilizations. The forum was organised under the patronage of HH Sheikh Mohammad bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and was held under the theme 'Media for Good,' from 10 – 11 May 2016 at the Dubai World Trade Centre. The forum witnessed the participation of regional and international media experts, journalists, and a number of intellectuals, to discuss the role humans play in regard to media, which was a major topic in this year's forum. AMF 2016 is the largest event in Arab media, and creates a platform to facilitate dialogue and discussions about the issues faced by media in the region and around the world. The forum addresses the future of media, challenges faced by media, and develops solutions to overcome these challenges. The forum also encourages UAE-based university and college students of media to take part in workshops, with support by young Emirati volunteers from different universities and colleges.

The Organising Committee of the AMF has announced Dubai Electricity and Water Authority (DEWA)'s participation as Sustainability Partner in the 15th AMF. This will help further enhance relations between DEWA and Dubai Press Club (DPC), the organisers of AMF.

DEWA's participation reflected its appreciation for the media, and the role it plays to raise awareness about certain issues that may affect people's daily lives, and the rational use of energy and water.

HH Sheikh Mohammed bin Rashid Al Maktoum visits DEWA stand

HH Sheikh Mohammed bin Rashid Al Maktoum, and HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai, Chairman of the Executive Council, and Sheikh Maktoum bin Mohammed bin Rashid Al Maktoum,

Deputy Ruler of Dubai, visited DEWA's stand at the 15th AMF where they were received by Al Tayer. At the forum's exhibition, DEWA's stand displayed its efforts to achieve sustainability, develop strategic programmes, and raise awareness about the importance of rational use, and preserving the environment. DEWA also showed its achievements in smart transformation, and the Smart Dubai initiative launched by HH Sheikh Mohammed bin Rashid Al Maktoum, to transform Dubai into the happiest city on Earth, and also targeted media organisations and journalists by highlighting the role they play to in achieving environmental sustainability, and their efforts to convey a message of rational use to the community, encouraging eco-friendly practices as part of daily life. During the event, DEWA presented its efforts in sustainability to some of the most important government officials in the Arab World, in addition to important media personalities, a number of political and academic leaders, and 2,000 Arab and non-Arab journalists.

DEWA also highlighted its three smart initiatives, which include Shams Dubai, to install photovoltaic (PV) panels on rooftops to generate solar power, Smart Applications and Meters, and the Green Charger to build the infrastructure and charging stations for electric vehicles.

The Importance of Media

Al Tayer noted the importance of media, and the influence of digital and social media, "there is a vital need to make use of this platform today more than ever before. The media has the potential to enhance a culture of conservation and the rational use of water and energy by communicating the need to preserve and promote renewable energy resources. DEWA cooperates with a host of different media agencies to promote a culture of innovation and highlight DEWA's initiatives launched to protect the environment. DEWA's CSR initiatives have always been an integral part of its strategy to serve the public good. DEWA is not only involved in the provision of energy services and water, but also makes every effort, through community-oriented programmes, to make society happier and promote the growth and prosperity of Dubai and the

UAE," added Al Tayer.

Arab Media Forum, A Strong Platform for Constructive Dialogue

The forum creates a regional platform to facilitate media dialogue, and enables the development of the media. This in turn helps people achieve their objectives and unleash their potential, while working towards a brighter future with greater well-being, stability, and development. Al Tayer commended the organising committee for its sustainable design of the venue, and the green landscapes that surround it.

This reflects the importance of environmental preservation, to encourage all attendees to follow a sustainable lifestyle. This will also raise awareness among media professionals about the importance of participating in, and promoting environmentally-friendly practices, by rationalising energy and water use. This will enable the sustainable development of the community. HE Mona Ghanim Al Marri, Chairperson of the AMF Organising Committee and Dubai Press Club, commended DEWA for its efforts to implement innovative programmes and initiatives, and adopt the latest technical solutions. This highlights DEWA's commitment to keeping up to date with international trends that are major factors in the UAE's comprehensive development. This supports the UAE Vision 2021, and the Dubai Plan 2021, which focuses on sustainability as a key element, to transform Dubai into a smart, integrated, connected, and sustainable city, capable of providing a clean and healthy environment. In light of the negative results borne by regional political and social changes over the past few years, the AMF has become an increasingly important platform to discuss the current and future status of media, as well as ways to improve it, while acting as a meeting point for journalists from around the world. DEWA considers journalists as partners throughout all initiatives and programmes, to enhance environmental sustainability, and encourage members of the community to adopt practices that will rationalise the consumption of water and electricity. These efforts will ensure the sustainability of our natural resources, for us, and for generations to come.

Mohammed bin Rashid Al Maktoum Solar Park

Highlighting Dubai's international position in sustainable development



There are many great examples that reflect the UAE's commitment towards environmental sustainability, and the happiness and living standards of citizens, residents and visitors, by providing the public with a healthy environment, ideal for living, working, and visiting. HH Sheikh Khalifa bin Zayed Al Nahyan, President of the United Arab Emirates, and HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, launched several important projects to support the UAE Vision 2021's goal to transform the UAE into one of the best countries in the world by 2021, and the Dubai Plan 2021 for the Emirate to become a smart, integrated, and connected city that sustainably manages its resources and has a clean, healthy and sustainable environment, in adherence with Dubai's development strategy. The Mohammed bin Rashid Al Maktoum solar park, which is run and managed by DEWA, highlights Dubai's adoption of a clear strategy and ambitious vision for developing and establishing sustainable energy projects in Dubai. Dubai has raised its targets for renewable energy mix to 7% by 2020 and 25% by 2030, based on the Dubai Clean Energy Strategy 2050.

Minister of Energy visits Mohammed bin Rashid Al Maktoum Solar Park

HE Suhail Mohamed Faraj Al Mazrouei, Minister of Energy, and HE Matar Hamed Al Neyadi, Undersecretary for the Ministry of Energy, visited the Mohammed bin Rashid Al Maktoum solar park in May 2016. They were received by HE Saeed Mohammed Al Tayer, MD & CEO of Dubai Electricity and Water Authority (DEWA).

Al Tayer spoke in depth about the phases of the park. The park is the largest single-site project to generate electricity from solar energy in the world, based on an independent power producer (IPP) model. The 13 megawatt (MW) first phase of the project became operational in October 2013 and the 200MW second phase will be operational in April 2017. It will produce 1,000MW by 2020 and 5,000MW by 2030. The solar park will help reduce 6.5 million tonnes of carbon emissions annually. DEWA has received five bids for the park's 800MW third phase, with the lowest at USD 2.99 cents per kilowatt (kW). The next step in the bidding process will review the technical and commercial aspects of the bids to select the best one.

The delegation visited the construction sites for the R&D centre and the innovation centre, which is due for completion by 2018, as well as the main AED 275 million 400/132kV substation at the solar park, which has a conversion capacity of 1,515 megavolt amperes (MVA), in addition to the solar-powered water pumping and desalination station that uses photovoltaic (PV) solar panels to desalinate water with Reverse Osmosis (RO) technology. This has a production capacity of 50 cubic meters a day that provides Research & Development

(R&D) establishments in the park with high-quality drinking water. Al Tayer welcomed the Minister of Energy and outlined the close ties between DEWA and the Ministry to promote sustainability and green growth by diversifying the energy mix and increasing the share of clean energy to contribute to the protection of the environment by reducing carbon emissions and building a knowledge economy. Al Tayer also briefed Al Mazrouei on the most important projects at the Mohammed bin Rashid Al Maktoum Solar Park, including the interactive Innovation Centre, equipped with the latest technologies in clean and renewable energy, enhancing the capabilities of national renewable and sustainable energy, R&D centres that specialise in clean energy technologies, solar-powered desalination, and others.

The Innovation Centre develops techniques that can improve the performance of photovoltaic units according to climate conditions in the region. The solar testing centre studies, evaluates, and tests the long-term stability and reliability of 30 types of photovoltaic panels, using the most sophisticated and accurate equipment. The highest standards and techniques of testing, controlling, monitoring, evaluation and reporting are applied. The centre also tests solar cell and photovoltaic panel technologies and manufacturing in terms of protection, flexibility, and other specifications to cope with different weather conditions and the surrounding environment, in both open spaces, and when integrated into buildings.

Al Mazrouei commended DEWA and noted that DEWA has become a role model to all UAE organisations by providing the highest international levels of electricity and water.

The Minister of Energy noted the solar park's contribution to achieving the long-term national Green Economy for Sustainable Development initiative, launched by HH Sheikh Mohammed bin Rashid Al Maktoum, to build a green economy in the UAE, and achieve sustainable development. The solar park offers plenty of promising investment opportunities that strengthen energy partnerships and investments between the public and private sectors, as future phases of the solar park will produce renewable energy based on the IPP model. The park is the first of its kind to use photovoltaic panel technology. Al Tayer noted that DEWA's work supports the wise leadership's directives to increase the percentage of renewable and clean energy sources, and stressed that the UAE, led by HH Sheikh Khalifa bin Zayed Al Nahyan, and HH Sheikh Mohammed bin Rashid Al Maktoum, takes priority in the diversification of energy resources, and increasing dependence on renewable and clean energy resources. Al Tayer stressed the importance of working together to achieve the vision of the wise leadership and enhance sustainable development, to achieve the UAE Vision 2021, and to make the UAE the best country in the world.

The desalination plant-powered by a photovoltaic array

HE Saeed Mohammed Al Tayer, MD and CEO of DEWA has visited the water desalination unit at the Mohammed bin Rashid Al Maktoum Solar Park to check its progress. DEWA gives priority to the environment in all its projects and operations.

The project aims to extract saltwater and desalinate it to produce water that is as good as bottled water, by using innovative technology. All electricity used to pump and desalinate water at the station will be

produced via a hybrid electricity source that combines photovoltaic cells at 100 kilowatts KW, and batteries with a capacity of 520kW/h per day. 35% of construction on the project is complete, the project is expecting to see completion by the end of May 2016. The project will produce desalinated water by using solar energy and an integrated energy storage system, this allows the station to operate for 24 hours a day. In the future, this model will be applied on a larger scale to form more developed technology to produce water. DEWA has become a pioneer for implementing this highly-efficient, and flexible model, working towards a zero-dependence rate on traditional energy sources.

DEWA releases tender for 3D-printed R&D Laboratories

In May 2016, DEWA released an Expression of Interest (EOI) for the construction of 3D-printed Laboratories, to conduct research on drones and 3D-printing technologies, at the Mohammed Bin Rashid Al Maktoum Solar Park, the largest single-site project in the world. The Solar Park will generate 1,000 megawatts (MW) by 2020 and 5,000MW by 2030. The park will feature the new lab, build with 3D-printing technology, under the umbrella of the Research & Development (R&D) Centre. The labs will conduct research on drones, and 3D-printing technology to support DEWA's ongoing projects. They will also conduct research on the use of drones to develop the performance of photovoltaic panels to increase their efficiency, credibility, and lower their cost, as well as study and test different photovoltaic technologies. DEWA has been using drones for the last three years to monitor its electricity and water production, transmission and distribution systems.

The Software Laboratory will develop and provide DEWA with innovative products, research, and educational solutions. The lab will solve issues and develop solutions to meet national objectives and DEWA's requirements, and will run tests on avionic systems, flight controls, and electric power units. The Software Laboratory pursues basic research in all aspects of the design, implementation, analysis, and evaluation of software systems. Particular areas of interest include operating systems, mobile computing, cloud computing, virtualisation, distribution systems, and software engineering.

The Mechanical Laboratory will conduct theoretical and experimental investigations into phenomena related the behavior of certain materials, and combustion. This lab will develop prototypes for different products that allow engineers to further develop their ideas. The outdoor flight-testing facility will feature a landing area equipped with sensors, and a power, water, and data line. This area will allow researchers to test different sensors, actuators, and systems, and will cover a ground space of 20x20 metres.

All efforts made by DEWA contribute towards achieving the vision of the wise leadership, to enhance sustainable development, and achieve the UAE Vision 2021, to transform the UAE into one of the best countries in the world. DEWA encourages all efforts to achieve the objectives set by the UAE's leadership, and promotes clean and renewable energy in adherence with a vision that realizes the importance of achieving a balance between development and the environment, while protecting the right of generations to come, to enjoy a clean, healthy, and safe environment.



DEWA visits China to boost energy projects in the UAE



HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, is heading a high-level delegation on a visit to Shanghai, China, to raise the level of contribution by Chinese companies to energy projects in Dubai and the UAE. During the delegation's visit to Shanghai, Al Tayer made a speech as part of a meeting that witnessed the attendance of HE Ahmad Al Saadi UAE Consul in Shanghai, in addition to a large number of leading Chinese companies. The speech highlighted DEWA's ongoing projects and initiatives on clean and renewable energy. Al Tayer also highlighted the development of trade relations between the UAE and China.

"Bilateral trade between the UAE and China is set to exceed USD60 billion by 2016. The annual trade between the two countries has been growing at about 16% during the past six years and is set to increase in the next few years. With 4,200 Chinese companies registered in the UAE, our country is the largest Middle East market for Chinese products," added Al Tayer.

Al Tayer noted that China is one of the world's largest energy consumers, according to a recent report by the International Renewable Energy Agency (IRENA). Investments in renewable energy

could surpass USD145 billion annually by 2030, totalling USD2.2 trillion.

"Through the UAE Vision 2021, we aim to become one of the best countries in the world by 2021. This in turn, strengthens the UAE's global competitiveness, especially in renewable energy, and green economy technologies and products. Dubai has a comprehensive vision for a sustainable future which is pivotal to the success of building a green economy. We aim to make Dubai a global centre for clean energy and green economy. The Dubai Clean Energy Strategy 2050 aims to provide 7% of Dubai's total power output from clean energy sources by 2020. This target will increase to 25% by 2030 and 75% by 2050. This strategy consists of five main pillars that include infrastructure, legislation, funding, building capacities and skills, and an environmentally-friendly energy mix. The first, Infrastructure, includes initiatives such as the Mohammed bin Rashid Al Maktoum Solar Park, which is the largest single-site project to generate electricity from solar energy in the world, with a planned capacity of 5,000 megawatts (MW) by 2030, and

total investment of USD13.6 billion (AED 50 billion) to save approximately 6.5 million tonnes per annum in emissions," continued Al Tayer.

"Our strategy involves moving from a carbon-intensive economy to a greener one, through the Dubai Green Fund, which is worth USD27 billion, encouraging green investments and green growth. DEWA established Etihad ESCO to boost energy performance contracts by providing financial organisations the opportunity to invest in energy-efficient projects and obtain attractive returns, with the new regulatory framework ensuring that all risks are addressed. Financial institutions can become active partners in the sustainable development vision of Dubai, with plans to retrofit 30,000 buildings to make them energy-efficient in the first phase of this project along with our Demand Side Management programme at a cost of AED30 billion, bringing returns of AED82 billion, and a net profit of AED52 billion, as we place great importance on environmental issues that contribute to the sustainable development of the UAE."

Inaugurating one of the largest roof-top 1.5MW array in MENA



HE Saeed Mohammed Al Tayer, MD & CEO of DEWA has inaugurated one of the largest single-rooftop arrays in the Middle East and North Africa, a 1.5 megawatt direct current (MWdc) photovoltaic generation project at Jebel Ali Power Station (JAPS), and successfully connected it to DEWA's grid. This will engage the community in the production of electricity from solar energy, preserve the environment and lower the country's carbon footprint, while also encouraging the development of a green economy to achieve sustainable development. Shams Dubai allows customers

to install photovoltaic panels on their rooftops to generate electricity from solar power. The electricity is used onsite and the surplus is exported to DEWA's network. The inauguration was attended by Nasser Lootah, Executive Vice President of Generation at DEWA, Mansoor Al Suwaidi, Vice President for Generation Projects at DEWA, and other members of staff.

DEWA installed 5,240 photovoltaic panels on the 23,000 square-meters of the roof of the water reservoir at M-Station, which is the newest and largest power production and

desalination plant in the UAE.

The modules will produce 1.5 MW by converting solar energy into electricity, which will be used to meet the station's energy needs, and will generate 2,666 MW/h of clean electricity annually. The project aims to increase dependence on renewable energy, and reduce the carbon emissions produced by different operations at the station, the project also expects to see an annual carbon dioxide reduction of about 1,600 tonnes. Surplus energy will be exported to an internal power network at DEWA's Jebel Ali unit.

Commissioning improved AED 654 million water transmission networks



DEWA has begun operations to commission, supply, and lay down a 73-kilometre (km), 600-1200mm water transmission network across Dubai budgeted at AED 444 million, with a 300km, 100-450mm water transmission network costing AED 210 million. The project will increase Dubai's overall water flow, and meet current and future demand for water and provide better services to customers.

DEWA joins International Energy Agency



DEWA has joined the International Energy Agency (IEA) clean coal centre as a sponsor. DEWA will have access to the centre's expertise, which includes consultancy services, study reports, analysis, workshops, conferences and databases. The IEA clean coal centre will also help develop and internationally-promote DEWA's clean coal power plant at Hassyan.

Transforming electricity users into producers



DEWA has achieved significant results in its Shams Dubai initiative. The initiative allows customers to install photovoltaic panels on their rooftops to generate electricity from solar power, and connect the systems to DEWA's grid. The electricity is used onsite and the surplus is exported to DEWA's grid. So far, a total of 30 photovoltaic systems have been installed, six of them have been connected to Dubai's electricity network. DEWA is working to connect the other projects.

DEWA organises a workshop with the National Renewable Energy Laboratory (NREL) on **Soiling Effect on PV Modules**



DEWA organised a 3 day workshop on the effect of soiling on photovoltaic (PV) modules, in cooperation with the United States Department of Energy's National Renewable Energy Laboratory (NREL). PV experts from research, academic, and government organisations participated in the workshop.

The workshop exchanges expertise and best international practices in combating the effect of soiling on PV modules and their performance. It also discusses PV module maintenance and operation, studies that should be conducted, and solutions to face this issue. These include installing sensors and special devices to measure dust volume, regular cleaning of the panels, and using special coating that protect the panels from dust. The workshop also reviews dust movement, specifications of dust particles, ways to mitigate their effect, experiences from different countries around the world, and characteristics of the region's climate.

"The Mohammed bin Rashid Al Maktoum Solar Park plays host to many of the major projects in this field, such as the interactive innovation centre, equipped with the latest technologies in clean and renewable energy, enhancing the capabilities of national renewable and sustainable energy. DEWA's Innovation Centre features a group

of R&D centres that specialise in clean energy technologies, drone research, and solar energy based desalination, worth a total investment of AED 500 million. This supports DEWA's innovation strategy, which is a major pillar and government value. DEWA adopts an integrated strategy to stimulate research in renewable energy and water and implement creative ideas and suggestions. We are also committed to adopting the best studies and research in all our operations and services, enhancing our leading position, achieving our vision to become a sustainable innovative world-class utility," added Al Tayer.

"DEWA Innovation Centre at the Mohammed bin Rashid Al Maktoum Solar Park includes a number of clean energy R&D laboratories. DEWA gives priority to R&D, innovation, R&D operations, and solar testing, to enhance the abilities of PV modules, and reduce the risks faced by photovoltaic modules due to harsh environmental conditions. The centre develops techniques that can improve the performance of PV units according to climate conditions in the region. The solar testing centre studies, evaluates, and tests the long-term stability and reliability of 30 types of PV panels, using the most sophisticated and accurate equipment. The highest standards and techniques of

testing, controlling, monitoring, evaluation and reporting are applied. The centre also tests solar cell and PV panel technologies and manufacturing in terms of protection, flexibility, and other specifications to cope with different weather conditions and the surrounding environment, in both open spaces, and when integrated into buildings" said Al Tayer.

"The main tasks of the solar testing facility include: dust impact and mitigation models, understanding physical and chemical properties of local dust and surfaces, field tests for novel approaches, the effects of soiling on PV cells, endurance tests, energy analysis to discover field defects, reliability and quality models, field failure or degradation prediction correlation with current accelerated tests, development of novel accelerated tests customised for Dubai's climate, and technological assessment of performance. DEWA has increased the targets for renewable energy to 7% of Dubai's total power output by 2020 and 25% by 2030. DEWA aims to install PV panels on government buildings and schools, to produce clean energy locally, reduce electricity costs, contribute to the preservation of the environment, and guarantee a sustainable future for the Emirate," noted Al Tayer.

DEWA honours 15 recipients of the International Expert ITIL Certificate



DEWA honoured 15 employees from its IT division for receiving the International Expert ITIL (Information Technology Infrastructure Library) Certificate. They were awarded the certificates for applying the best international practices in IT service management. This supports DEWA's ongoing efforts to improve the skills of employees. "DEWA adopts a clear integrated strategy to always develop work methods, and

provides a workplace that supports and motivates its employees by allowing them access to the latest international training programmes, improving their performance, positively affecting different divisions and departments, and the quality of services. DEWA also spreads a culture of excellence, and encourages a positive spirit among employees, appreciating their hard work and efforts to complete their tasks perfectly,"

said Saeed Mohammed Al Tayar, MD & CEO of DEWA.

DEWA's approach is based on the vision, and the directives, of the wise government to enhance the UAE's position by adopting the best strategies, to achieve the happiness of all its citizens and residents.

"We are glad to honour this group of employees who have been awarded the International Expert ITIL certificate. We take priority in developing the abilities of our employees, enabling them to become active and innovative pioneers in their respective fields. DEWA is committed to enhancing knowledge through providing a positive work environment, capable of encouraging individual, and corporate efficiency. We are responsible for adopting programmes to develop the performance of our employees, to unify individuals, teams, and departments in their efforts to achieve DEWA's objective to become a pioneer in all its operations," concluded Al Tayar.

DEWA received the ISO/IEC 20000-1:2011 certificate in 2015. the certificate is based on the third edition of the ITIL, which is the highest certificate in the world for IT service management.

Three electric cars to winners of Smart Services campaign



DEWA honoured the three grand prize winners of its smart services campaign with three brand new electric cars. The campaign was launched to encourage customers to adopt a culture of using smart services in a sustainable way, to support the Dubai Plan 2021 to make Dubai a smart, integrated, and connected city that uses its resources sustainably, and whose environmental elements are clean, healthy, sustainable, proactive and creative in meeting the needs of individuals and society as a whole.

Staff share 5,139 ideas on MyDEWAideas portal in 2015



DEWA received 5,139 ideas and suggestions via its MyDEWAideas portal, which is designed to promote creativity and innovation in the workplace. During this quarter, DEWA has recognised all employees whose ideas were approved and implemented. MyDEWAideas is the first interactive programme in Dubai Government where employees can vote and comment on their colleagues' ideas. They can also collaborate and share best practices. The programme enables DEWA to capture all employee-driven ideas, providing a central repository to manage innovation, to ensure continuous improvement.

DEWA organises Innovation Camps



A series of innovation camps were organized in order to improve services, and provide efficient, convenient, and innovative services based on the highest international standards in order to achieve DEWA's targeted stakeholder's happiness. The participants discussed DEWA services and brainstormed new improvement methods. They also discussed ideas involving transforming these services into new initiatives, to adhere to the wise leadership's objectives to provide connected, pioneering, and integrated services, capable of facilitating quality of life for all the residents of Dubai and the UAE.

MD & CEO of DEWA opens Schneider Electric's 4th Conference & Exhibition **Power to the Cloud**



During the opening of Schneider Electric's 4th 'Power to the Cloud' Conference and Exhibition, HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, stated that DEWA realises the importance of developing future smart cities that make use of world-class infrastructure, to provide efficient and transparent government services around the clock, exceeding the expectations of the UAE's citizens and residents, and improving their quality of life.

"A happy city is a city where people's lives are made easier and the standard of living is further improved with the efficient use of resources and seamless and integrated services. We launched three smart initiatives to support the Smart Dubai initiative. The first one (Shams Dubai), connects solar power in houses and buildings and encourages households and building owners to install solar panels to produce electricity. These will be connected to the grid. This encourages the use of renewable energy and increases its share in the energy mix. The second initiative focuses on using smart applications to

promote smart consumption using smart meters, while the third one, Green Charger, is related to establishing the infrastructure and charging stations for electric vehicles," said Al Tayer.

"The smart grid strategy contains eleven programmes that will be completed over the short-, medium- and long-term, from 2014 to 2035. These programmes are: Advanced Metering Infrastructure for Electricity, Advanced Metering Infrastructure for Water, Asset Management, Demand Response, Distribution Automation, Information Technology Infrastructure, Substation Automation, System Integration, Telecommunications, Big Data and Analytics, and Security. We will also make use of the big data generated by smart meters and grids to further enhance the availability, efficiency and reliability of our services. This data will, in turn, be used to enhance our operational efficiency in the generation, transmission and distribution of electricity and water, so we can serve our customers better, and drive research and development by identifying opportunities

for future improvements within our sector. This data will not only provide up-to-date information about electricity and water consumption by Dubai's citizens and residents, but will also pave the way for the Internet of Things, which is a key component of future smart cities," said Al Tayer.

Schneider Electric's 4th Power to the Cloud Conference and Exhibition 2016 played host to over 200 visitors, most of which were VIPs from the region, and different parts of Europe. The conference featured panel discussions led by C-suite Information Technology (IT) and energy sector decision makers from around the region, and took place from 17-18 April 2016. The conference highlights the future of smart cities, cloud systems, smart grids, future implementation plans regarding international practices for energy consumption, water treatment, Big Data and Analytics, and plans to develop a practical agenda capable of meeting energy requirements to build a better future through green cities.

Recruiting Emiratis for technical positions at Careers UAE 2016



DEWA is one of the leading government organisations in the UAE to launch training programmes for Emirati students who wish to further their studies in the energy sector at home and abroad. Its participation in Careers UAE is part of its ongoing efforts to recruit skilled Emiratis. This year, DEWA introduced a mechanism to directly recruit Emiratis for engineering and technical positions. Specialised committees interviewed candidates and com-

pleted employment procedures at the career fair. This supports DEWA's Emiratisation strategy, and its ongoing efforts to attract Emirati graduates for all sorts of vacancies, especially engineering and technical roles. DEWA has achieved excellent results in Emiratisation, with UAE Nationals comprising 85% of senior management and 47.6% in middle management, employing 2,476 Emiratis. DEWA adopts a clear strategy to promote Emi-

ratiation, and hire Emirati staff in specialised and technical positions, as well as develop a generation capable of spearheading the UAE's water and energy sectors.

During the event, DEWA presented the scholarships it provides to Emirati students, which include a Bachelor's degree in electrical engineering, in collaboration with the Higher Colleges of Technology in Dubai (Dubai Men's College), Bachelor's degrees in either electrical or mechanical engineering in collaboration with different government and private universities, a Bachelor's degree in either electrical or mechanical engineering in collaboration with the United Arab Emirates University, and a Bachelor's degree in electrical or mechanical engineering for 60 students in private universities, 20 scholarships in renewable energy at Sharjah University, and 10 scholarships in renewable energy in universities abroad.

DEWA also presented the DEWA Academy, which trains and qualifies young Emiratis both academically and practically in various technical and professional areas covering production, transmission and distribution of energy and water, and water desalination.

Employee training guide for 2016 with 1,095 courses



DEWA has published its Training Courses Guide 2016 for all its employees. The guide features information on training courses and programmes, and includes over 1,095 training programmes. DEWA aims to train 10,000 employees during 2016, with a total budget of AED 31 million. This supports DEWA's efforts to train its workforce to achieve its goal of enhancing leadership and professionalism with its operations and ambitious development plans.

South-South Cooperation



HE Saeed Mohammed Al Tayer, MD & CEO of DEWA has received Jorge Chediek, United Nations Secretary-General's Envoy on South-South Cooperation. Al Tayer highlighted DEWA's fruitful cooperation with different UN programmes and organisations. This cooperation is key to establishing the sustainable development and exchanging expertise and best practices with others to achieve the shared aspirations for a better tomorrow.

Training course for Carbon Ambassadors



DEWA, in cooperation with the Dubai Carbon Centre of Excellence (DCCE), has organised a training course for 75 students from the Carbon Ambassadors programme about the effects of greenhouse gases on climate change. The course featured sessions held in both English and Arabic, and addressed the topic of Greenhouse Gases. The course covered the carbon footprint, climate change, and ISO 14064.1-2006. On completing the course, the students took an exam and those who passed received certificates.

Highest grade in DGEP history

DEWA makes excellence and innovation a way of life



- Highest grade ever received by government entity in the history of Dubai Government Excellence Programme
- Financially Distinguished Performance Award, during 3 out of 4 versions of the Dubai Government Excellence Programme
- Distinguished Entity in Government Communications Award, as part of the Dubai Government Excellence Programme
- Gold category in both the Dubai Human Development Award and the Dubai Quality Award
- Hamdan bin Rashid Al Maktoum Award for Distinguished Academic Performance under the Education Supporting Organisation category
- Golden Shield Award, and a Certificate of Excellence from the Arab Organisation for Social Responsibility

Dubai Government Excellence Program Awards



Achievements



Gold category in Dubai Quality Award

Dubai Electricity and Water Authority (DEWA) continues its journey of excellence and continuous achievements. Not a week passes by without receiving a new prize or marking yet another success to add to its long list of accomplishments that grows day by day at the local, regional or global level. One of its most prominent achievements this year is its winning of the most number of awards at the 9th Dubai Government Excellence Program. This feat proves DEWA's excellence once again in fulfilling the vision of HH Sheikh Mohammed Bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, the leader of the path to excellence, who personally presents awards to the winners of the Dubai Government Excellence Program every year to promote excellence as an important means of transforming into the government of the future.

Six awards at Dubai Government Excellence Program 2016

This year, HH Sheikh Mohammed Bin Rashid Al Maktoum honoured DEWA with 6 awards under the Dubai Government Excellence Program. Three of them fell under the Excellence categories, namely, Distinguished Government Entity, Financially Distinguished Performance, Distinguished Entity in Government Communications, Creative Idea Award (for DEWA's intelligent control system on low-voltage fires), Distinguished Employee Award for technical and engineering for Career Excellence, and the Unknown Soldier Award.

Gold in the Dubai Human Development Award and the Dubai Quality Award

DEWA won gold in the Dubai Human Development Award and the Dubai Quality Award. The awards mark DEWA's efforts and achievements in corporate excellence. DEWA received the awards during a ceremony organised by the Department of Economic Development, and held under the

patronage of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. The Dubai Quality Award is based on the Excellence Model of the European Foundation for Quality Management (EFQM), and has been successfully applied in the public and private sectors since 1994. It provides a comprehensive framework for corporate excellence.

Hamdan bin Rashid Al Maktoum Award for Distinguished Academic Performance

HH Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai and Minister of Finance, honoured Dubai Electricity and Water Authority (DEWA) for Distinguished Academic Performance. DEWA won Hamdan bin Rashid Al Maktoum Award for Distinguished Academic Performance 2016. The award was received by HE Matar Humaid Al Tayer, Chairman of the Board of Directors of DEWA, and HE Saeed Mohammed Al Tayer, with Khawla Al Mehairi, Vice President of Marketing and Corporate Communications at DEWA,



Hamdan bin Rashid Al Maktoum Award for Distinguished Academic Performance

DEWA's Conservation Team was also in attendance.

DEWA sets new record at Dubai Government Excellence Program 2016

DEWA's acceptance of the Distinguished Government Entity award during the 9th Dubai Government Excellence Program was significant as it broke the record for a trade corporation for government excellence in Dubai. DEWA got 641 out of 1,000. This is the highest grade ever received by a government organisation since the inception of the Dubai Government Excellence Program. The record will require exceptional competition in order to be surpassed.

Since the launch of the Dubai Government Excellence Program, DEWA has received a third of the Distinguished Government Entity awards, winning three out of nine times. The first time was in 2000 for its 1999 performance, the second in 2008 for the period from 2006 to 2007 and the third in 2016 for 2013 to 2015. DEWA was considered a strong contender in the ses-

sions it did not win in.

The Dubai Government Excellence Program ran for 1999-2015 for a while between 2 excellence cycles for the category of Distinguished Government Entity. The award was initially given annually (1998 and 1999), then every two years (from 2000 to 2009), before finally being handed out every three years (from 2010 to 2015).

Continuous Growth in DEWA's Performance

DEWA's notable performance in the Dubai Government Excellence Program has seen constant and uninterrupted growth. DEWA's performance, which is rated through points of institutional excellence assigned by the program, has seen positive growth from 1999-2015 in all cycles with the exception of a minor decline in its points in the 2008-2009 cycle, which saw a decline from 582 in the 2006-2007 cycle to 577 in the 2008-2009 cycle, reflecting a slight decrease of less than 1%.

DEWA's points increased in the 2016 cycle by 54 points over the previ-

ous cycle, a rise of 9.2%, which is the second-highest growth rate DEWA has achieved since the beginning of its participation in the DGEF. The highest growth rate was 10.6% during the 2000-2001 cycle compared to the 1999 cycle. The total points from 1999-2015 increased by 170, a growth of 36% in a span of 16 years.

Thanks and Appreciation

Al Tayer shared that the sensible instructions and wise vision of HH Sheikh Mohammed bin Rashid Al Maktoum has contributed to DEWA's success and excellence in its services, initiatives, development projects and its constant aspiration to be in the lead by implementing the best international standards in-line with its vision to become a sustainable innovative world-class utility.

"HH Sheikh Mohammed bin Rashid Al Maktoum has taught us that in our race to lead, we look at excellence not as an achievement, but as a challenge. Achievement is what we provide for the future of the people of the United Arab Emirates, whereas the journey to

Achievements

excellence is continuous and knows no bounds," said Al Tayer. "Excellence to us in DEWA is a daily program implemented through strategies and precision, tentatively revised plans carried out by all employees to accomplish our leadership's vision, provide customer satisfaction in particular and earn society's approval in general, which in turn makes Dubai number one and effectively contribute to the sustained growth of the nation."

Praise

Al Tayer commended the Dubai Government Excellence Program for its prominent role in motivating the government sector to succeed and raise its performance levels in various sectors in all fields as well as greatly improving government agencies performance through introducing self-evaluation, which is used alongside the programs own evaluation. Moreover, it also spreads the ideals of excellence, creativity, and quality, while it also implements the best administrative and professional methods. Dubai Government Excellence Award also provided a positive environment for motivating all government circles to strive towards achieving excellence and creativity. Al Tayer also stated that this great success comes from implementing the

instruction of the wise leadership and the spirit of teamwork that DEWA embraced, which is the key strength it has to utilise energy, maximise productivity, and sustain progress.

Financially Distinguished Performance

The Government Excellence Award for Financial Excellence is given to the institution that applies sound financial governance, creates financial sustainability, conserves spending while increasing revenue, and efficiently manages its finances regarding production, shipment, and distribution, which keeps spending in-check.

The reasons for DEWA's award are attributed to a number of factors, which include sound short, medium, and long term financial planning, tying financial plans to DEWA's strategies and to the strategies of Dubai and the UAE, implementing international accounting standards, sound financial governance in all operations, sustaining outstanding financial results, innovation in the work process, which involves moving from the typical process to one that relies on partnership with the private sector, which is in line with Dubai's vision to become an international hub for finance, business, tourism, and green economy, and using smart application in financial services, while improving and simplifying

financial transactions, which made it the first in the MENA region and the fourth in the world for getting obtaining electricity, according to the International Banks Doing Business report in 2016, for the third year in a row. DEWA also succeeded in constantly improving its credit rating according to Moody's and Standard and Poor's, which boosted the company's trust among investors and its ability to gain sponsorship at competitive prices.

DEWA: The Distinguished Entity in Government Communications

Receiving the Distinguished Entity in Government Communications award for the Dubai Government Excellence Awards can be attributed to its adoption and implementation of a comprehensive communication strategy supported by leadership as well as providing the necessary tools for its execution. This includes the development of resources in the communication channels and the effective internal and external transformation of smartphone applications to communicate with customers and other interested groups to keep pace with new services played an important role in achieving an effective communication strategy. This was also achieved by taking into account the cultural diversity of the target audience through various traditional, electronic and intelligent channels of communication with the



public based on the happiness of the community, sustainability, innovation and values.

The Distinguished Entity in Government Communications category is an optional category of the Dubai Government Excellence Awards that governments can be nominated for in every two cycles, to know more about programmes and initiatives that public organisations have implemented to improve communications, the importance of the media groups, concerned plans of government departments, achievements, services provided and ensure that institutional messages target specific concerned groups.

This category also aims to facilitate a smooth process in coordinating media messages to government bodies in order to serve and achieve the overall objectives of the strategic plan of the government and the development of internal and external communication channels, which ensure the highest transparency and accuracy standards of information through the adoption of best global practices in the field of government communication and the development of an integrated system for managing communication during crises in coordination with all the relevant parties: guaranteeing the delivery of information to the relevant target groups in an accurate and quick manner.

Creative Idea Award (Intelligent Fire System Separation from Low Voltage)

DEWA received the Creative Idea Award at the Dubai Awards for Excellence in Government – 2016 for its Intelligent Fire System Separation from Low Voltage. It is an idea to put out fires in the distribution of plants by using an intelligent sensory system, which was invented and designed by DEWA employees. The system works through heat-sensitive cables that notifies engineers about increasing temperatures, enabling them to take necessary measures to avoid the occurrence of fires.

One advantage of this system is to maintain the assets and the property of DEWA by providing an intelligent system that provides early information about malfunctions, thereby avoiding a fire in the electrical station. The system is equipped with terminals to forecasts fire incidents with almost 100% accuracy. This contributes to the sustainability of the power supply and reduces interruptions to achieve happiness and customer satisfaction. This idea has contributed to the financial savings of over AED1 million for DEWA. To date, the system is being processed for a patent as it is the first-of-its-kind in the world. It is developed in phases by adding warning systems to

demonstrate the urgency of preventive maintenance and the ability to determine the fire source within or outside the station, with touch and control software systems to facilitate smooth operation and surveillance for the dissemination of the system on all stations. DEWA has won the Best Employee Idea of the Year award for this idea during Ideas Germany 2015. In addition, it also won the Idea of the Year award at the Ideas UK conference in 2014.

Distinguished Employee in Technical & Engineering Field

Mariam Khamis Salemain, Deputy Manager of Asset Planning at DEWA, received the Distinguished Employee in Technical & Engineering at the Dubai Government Excellence Awards. Joining DEWA in July 2007, Mariam's role includes the functional tasks of technical analysis of transport of equipment according to the strategy of maintenance-oriented reliability, the application of the requirements of global asset management specifications in the power transmission sector, and the design and automation of key processes in the sector in the SAP program.

Unknown Soldier

Pakistani driver, Mir Janan Juma Ghool, won the Unknown Soldier Award at



Achievements

the 2016 Dubai Awards for Excellence in Government. Mir joined DEWA in 1977 as an Assistant and moved to the Department of Mechanics of Gas Turbines after nearly 15 years. Currently, he is a heavy transport driver, a job he took 8 years ago. Mir is very happy with this honour and shook hands with HH Sheikh Mohammed bin Rashid Al Maktoum. He also expressed his delight in working at DEWA and thanked its leadership team, which provides its employees with a happy and stimulating work environment that help them progress in their chosen careers.

Internal Excellence Ceremony

HE Saeed Mohammed Al Tayer honoured the staff for receiving awards at the 19th Dubai Government Excellence Awards and celebrated the achievement in the presence of representatives of the President and Vice President. He toured DEWA's sectors and sections to meet the staff, praising their efforts that have contributed to this achievement as well as encouraged them to pursue excellence to achieve more accomplishments at various levels. Al Tayer also met with DEWA's Excellence team and com-

mended them for their efforts.

For their part, DEWA staff congratulated Al Tayer for the outstanding honour this year, emphasising that the unlimited support that he has provided at all levels had a significant impact in motivating employees to excel and achieve remarkable results. Sectors and sections of DEWA participated in the festivities with the distribution of roses and candy.

Fourth Generation of Standards of Excellence

Al Tayer assured DEWA's readiness to apply and implement the fourth generation for government excellence system, to improve government work on innovative standards based on the results that focuses on excellence in government services across three main segments: achieving the vision, innovation and empowerment to achieve the highest satisfaction rates and people's happiness.

DEWA won 2 awards from the Arab Organisation for Social Responsibility

DEWA won two awards from the Arab Organisation for Social Responsibility. These are the Golden Shield Award in environmental conservation for DEWA's

Neighbourhood Campaign, and the Certificate of Excellence in technological innovation for DEWA's mobile photovoltaic-powered reverse-osmosis seawater-desalination plant.

DEWA won the award for its Neighbourhood Campaign which was launched in 2010 to raise awareness about the importance of the rational use of electricity and water in the residential sector in Dubai, as a part of its Corporate Social Responsibility (CSR) and direct communications with residents of Dubai. DEWA also won the award for its technological innovation and development of its mobile photovoltaic (PV) desalination plant that uses reverse osmosis to desalinate seawater, and purify salt water and untreated water from other sources, to produce water suitable for drinking and irrigation.

The Arab Organisation for Social Responsibility encourages environmental organisations to adopt and develop CSR. Each year, the organisation honours leaders from different sectors that achieve significant results in CSR. It also honours government organisations that receive international quality certificates in these areas.





Dubai Supreme Council of Energy

11th Demand Side Management committee meeting reviews energy intensity mapping



The Dubai Supreme Council of Energy's Demand Side Management Executive Committee held its 11th meeting at its headquarters, chaired by HE Ahmed Buti Al Muhairbi, Secretary General of the Dubai Supreme Council of Energy.

"In line with the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the United Arab Emirates and Ruler of Dubai, and in accordance with the Dubai Clean Energy Strategy 2050 to make Dubai a global hub for clean energy and a green economy, the Executive Committee of the Dubai Supreme Council of Energy is working towards the implementation of the strategy for energy demand management. The strategy features 9 programmes to manage energy demand. These include green building

regulations, retrofitting existing buildings, district cooling, wastewater reuse, laws and standards to raise efficiency, energy-efficient street-lighting, and the Shams Dubai initiative to regulate the generation of solar energy in buildings. This will further contribute towards achieving Dubai's vision of becoming the city with the lowest carbon footprint city in the world," said HE Saeed Mohammed Al Tayer, Vice-Chairman of the Supreme Council of Energy. The energy demand side management strategy uses methods that adhere to best international practices, and similar programmes implemented globally. These include organisations, capacity-building, public awareness and appropriate policy and regulatory frameworks, information systems and measurement, and suitable funding mechanisms for Dubai.

Eighty-five percent of Dubai's Energy Intensity Mapping has been achieved. The project aims to make use of building and energy consumption data to find a method of analysing and monitoring consumption levels, to find a solution to limit Dubai's high levels of energy use. "The Energy Intensity Mapping aims to unify consumption and building data. The meeting also featured a discussion in relation to the Energy Demand Management Manager at Etihad ESCO's executive plan, who is responsible for supporting and following up on energy demand efficiency programmes. We also discussed implementing strategies to achieve energy efficient rankings for the buildings project, which will improve consumption efficiency throughout Dubai's buildings, added Al Muhairbi.

Supreme Council of Energy holds press conference in Amman to promote 3rd Emirates Energy Award



A delegation from the Dubai Supreme Council of Energy hosted a press conference in Amman, Jordan, to promote the third Emirates Energy Award (EEA). The event is the first in a series of press conferences in the Middle East and North Africa (MENA) to promote the award. Present during the press conference

were representatives from various Jordanian ministries, local organisations, and media professionals from local and regional radio stations, television channels and newspapers. The delegation from the Supreme Council of Energy was composed of Faisal Ali Rashid, Director of Demand Side Management,

Taher Diab, Secretary General of the EEA and Ali Al Suwaidi, Manager of Corporate Communications and members of the EEA Marketing and Events committee.

During the event, Ali Al Suwaidi provided a general idea about the Supreme Council of Energy and the EEA, including its goals, and categories. Diab explained in detail the major subjects, principles and rules of participation for the award, emphasising that registration will be from 1 December, 2016 to the end of March 2017. Faisal Ali Rashid introduced the Demand Side Management Strategy, which includes raising community awareness about conservation, reducing the demand for energy and protecting natural resources.

World Green Economy Summit Announces Programme and Key Note Speakers



القمة العالمية للإقتصاد الأخضر
WORLD GREEN ECONOMY SUMMIT
5-6 October 2016 ٥-٦ أكتوبر ٢٠١٦
Dubai, United Arab Emirates دبي، الإمارات العربية المتحدة

Under the patronage of His Highness Sheikh Mohammed Bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE, and Ruler of Dubai a press conference was held to announce the agenda and speakers for the third World Green Economy Summit, which is taking place from 5 to 6 October at Dubai International Convention and Exhibitions Centre. The summit, operating under the new banner theme of "Driving Global Green Economy", will focus on how

to drive, create and sustain a Global Green Economy whilst outlining and positioning the UAE's vision for its own green agenda going forward.

The press conference was attended by HE Thani Alzeyoudi, UAE Minister of Climate Change and Environment, HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy, MD and CEO of Dubai Water and Electricity Authority and Chairman of World Green Economy Summit, Adnan Amin, Director-General of the International Renewable Energy Agency (IRENA), HE Ahmed Butti Al Muhairbi, Secretary General of the Dubai Supreme

Council of Energy (DSCE), Mr. Frode Mauring, United Nations Resident Representative in the UAE (covering Qatar and Oman), HE Saif Humaid Al Falasi, Chief Executive Officer-ENOC Group, HE Eng. Essa Al Maidoor Deputy Director General Of Dubai Municipality (DM), Eng. Waleed Salman, Vice Chairman of the Organizing Committee of the Summit and EVP – Strategy & Business Development at DEWA, Dr. Yousef Ibrahim Al Akraf, Chairman of logistics committee - WGES and EVP Business Support & HR, and Jens Nielsen, CEO of World Climate Ltd, and a number of senior officials from ministries and government departments in UAE.

Awareness workshop on nuclear energy strategy



Dubai Supreme Council of Energy organised a workshop to introduce the National programme to produce electricity using peaceful nuclear energy. The workshop, organised in collaboration with the Federal Authority for Nuclear Regulation (FANR), promotes nuclear energy and encouraged closer collaboration within the public sector for it.

The workshop was held at Conrad Hotel in Dubai. It was attended by member organisations of the Dubai Supreme Council

of Energy, and officials and specialists from organisations, and companies working in energy and renewable energy in Dubai.

HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy, emphasised the importance of the workshop, organised in cooperation with FANR, to raise awareness about peaceful nuclear energy and its role in generating electricity, and ensuring the readiness of relevant organisations.

Honoring sponsors and participants in the State of Green Economy Report 2016



In the presence of HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy (DSCE), MD and CEO of Dubai Electricity and Water Authority (DEWA), and Chairman of the World Green Economy Summit (WGES), DEWA organized, in collaboration with Dubai Carbon Centre

of Excellence (DCCE) and United Nations Development Programme (UNDP), a ceremony to honor organizations and departments that contributed to achieving and sponsoring the State of Green Economy Report 2016, at Raffles Hotel, Dubai. The State of Green Economy 2016 was

presented to the international audience during the events of the World Climate Summit in Paris in December 2015. The State of Green Economy Report is the first published knowledge product that shares best practices. Through the establishment of initiatives that motivate innovation, it serves the greater good of humanity. The Report also sheds the light on policies through which the United Arab Emirates aims to transform into a model of Green Economy.

During the ceremony, HE Saeed Mohammed Al Tayer, MD and CEO of DEWA and Chairman of the World Green Economy Summit, honored sponsors and participants in the Report.

Reading is positive energy

Exhibition

Since the establishment of the UAE, all initiatives and projects launched by our wise leadership, are based upon a futuristic vision, proven by years they success. The UAE's strategy aims to give priority to all human beings, as we are the key factor towards developing the country, and community. The UAE's policy for development, modernisation, and growth, is based on the vision of the late Sheikh Zayed bin Sultan Al Nahyan, founding father of the UAE, who said that building countries is not based on technological and material development, but depends on developing humans as the key factor of achieving success and development.

HH Sheikh Khalifa bin Sultan Al Nahyan, President of the UAE declared 2016 as UAE Reading Year. This is a vital step towards the development of the UAE, as it enhances science and knowledge, and introduces the community to different international cultures. This initiative reflects the priority in which the UAE gives towards reading. HH Sheikh Khalifa bin Zayed Al Nahyan states that reading is the key to science, and that education and knowledge will remain the key elements to achieve prosperity. Reading is the key to education and knowledge. The first verse in the Holy Quran is titled "Read."

HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, issued his orders to immediately implement the directives of President His Highness Sheikh Khalifa bin Zayed Al Nahyan, and prepare an integrated national literacy strategy and a framework to produce a reading generation and establish the UAE as the capital of cultural and knowledge content.

HH also launched the Arab Reading Challenge, the largest Arab project to encourage students in the Arab world to read, with more than a million students committing to read 50 million extracurricular books during every academic year. The move is part of DEWA's efforts to support the directives of HH Sheikh Khalifa bin Zayed Al Nahyan, who declared 2016 as the Year of Reading, this was approved by the UAE Cabinet, under the leadership of HH Sheikh Mohammed bin Rashid Al Maktoum.

The Reading is Positive Energy exhibition will be open for the whole year, to promote both reading and Emirati writers. The exhibition features different cultural and knowledge corners and sections. These include a **permanent book exhibition**, the **Reading is Positive Energy's Forum**, **Children's Knowledge World**, **Smart Reading Corner**, **Reading Sensory Wall**, **Emirati Majlis**, and a cultural café.

The Reading is Positive Energy exhibition is part of several programmes and initiatives launched by DEWA to instill a culture of reading, and establish the UAE as a capital of content, culture and knowledge, promote Arabic as a language, and encourage reading by making books available, to ensure a positive change in society. This is achieved by raising a cultured generation of readers who contribute to enhancing the country's cultural development. DEWA cooperates with different government and private organisations, to create an innovative generation, capable of leading the UAE into a promising future.





Corners of the Exhibition

Reading Exhibition corner

features and sells books from several different Emirati, Arab, and International publishing houses across a host of topics that will interest the public. The Reading is Positive Energy Forum is an open space that will involve all organisations and schools, in activities to improve their reading, and establish a culture of reading in society. Activities include a training workshop regarding different books, and participants will get the opportunity to have their book signed, in cooperation with different Emirati publishing houses. Schools and organisations will participate in cultural activities and contests that reflect the importance of reading to build a healthy society, armed with the benefits of science and knowledge.

Children's Knowledge World

will include a story teller activity, mothers will read stories to their children, who will then in turn learn from them. This will positively affect the behavior and the thinking of the children. Students from different schools will also participate by reading stories, summarizing, and analysing them under the supervision of their respective schools. Students will discuss different subjects, and exchange opinions and points of views, as well as play games to develop their ability to focus and analyse.

Kuttab Café

provides a quite environment, that encourages reading. Participants can enjoy a cup of coffee while reading their favourite books, or completing their work for the day. The Smart Reading Corner focuses on science, and includes topics such light bulbs, and other smart international devices that can aid reading. The Reading Sensory Wall is an interactive wall, in which children will use their 5 senses to tell stories and participate in a best story contest.

The Emirati Majlis

will host VIP's, academics, and novelists. During the activity, Emirati writers will sign books, to encourage writing and its active role in society. The Majlis will also feature a host of TV programs, that reflect the importance of writing. As part of the 'Today's Kids read for Yesterday's Kids' activity, children will read short stories to the youth.

Anwar Dubai

Helping Emirati youth enter married life without any unnecessary burdens



DEWA organised its ninth Anwar Dubai mass wedding for 53 of DEWA's Emirati employees on 23 March 2016, at a ceremony held under the patronage and in the presence of HH Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, Minister of Finance and President of DEWA, at Za'beel Park in Dubai. HH Sheikh Hamdan bin Rashid Al Maktoum was welcomed by HE Matar Humaid Al Tayer, Chairman of the Board of Directors of DEWA, and HE Saeed Mohammed Al Tayer, MD and CEO of DEWA, along with other board members, directors, managers, and VIPs. The mass wedding is part of DEWA's CSR strategy, and its commitment to making employees happy.

The ceremony was attended by HH Sheikh Rashid bin Hamdan bin Rashid Al Maktoum, HH Sheikh Saeed bin Hamdan bin Rashid Al Maktoum, HE Saeed Al Kindi, HE Mohammed Khalifa Al Habtoor, HE General Khamis Mattar Al Mazeina, Commander-in-Chief of Dubai Police, Mohammed Abdul Rahim Al Ali, Assistant Under Secretary at the Ministry of Defence, HE Abdullah Al Shaibani, Secretary-General of the Dubai Executive Council, HE Majid Hamad Al Shamsi, HE Ahmed Mahboob Musabih, Director of Dubai Customs, HE Khaled Al Kamda, Director General of the Community Development Authority (CDA), Salem Al Moosa, HE Abdulla Jasim bin Kalban,

MD & CEO of Emirates Global Aluminium, and HE Ahmed Al Shafar, CEO of Empower. Senior officials, employees, and relatives were also in attendance.

"I and all of DEWA's employees thank HH Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, Minister of Finance and President of DEWA, for the priority he gives to achieving the social and emotional stability of Emirati citizens. Anwar Dubai is a reflection of HH Sheikh Hamdan bin Rashid Al Maktoum's ongoing commitment to supporting Emirati families, easing life's burdens, enabling them to achieve their ambitions and enter married life without any debts or unnecessary burdens. The generosity of HH Sheikh Hamdan bin Rashid Al Maktoum allows for young people to start new lives, achieving happiness for everyone, and making an investment in the sustainability of our human and natural resources," said Al Tayer.

"DEWA's vision adheres to the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE, and Ruler of Dubai, to make happiness a lifestyle within the UAE's community, as well as the noble goal and supreme objective of the government. As HH Sheikh Mohammed bin Rashid Al Maktoum once said, "The government's policies, programmes

and services should contribute towards building a positive and happy community. The government's main task is to ensure that conditions are conducive for delivering happiness to individuals, families and employees, and promoting positivity as a core value in the local community."

"DEWA's strategy is to care for its staff and provide them with psychological and family stability. This will enhance their productivity and promotes their performance and efficiency. As a result, society will get the most benefit. DEWA is committed to enhancing its Corporate Social Responsibility (CSR) by launching initiatives to improve the happiness of employees, to enhance their performance at work, and their psychological and social stability. For the past 9 years, Anwar Dubai has helped our Emirati staff get married. It has also reinforced DEWA's organisational approach to supporting Emirati youth, while promoting National Identity and increasing loyalty among employees," added Al Tayer.

Al Tayer emphasised that DEWA's mass wedding has helped employees achieve psychological, familial, and career stability for the past 9 years. It also reduces the costs of getting married. This achieves happiness and contributes to creating a positive work environment, increasing productivity and



DEWA's level of excellence, and enhancing the level of loyalty among employees.

Al Tayer thanked HH Sheikh Hamdan bin Rashid Al Maktoum for his continuous sponsorship, honouring DEWA and its employees through his participation in this happy occasion. He personally congratulated each groom, and wished them the best of luck on their new lives, wishing them stable and happy family lives.

"DEWA takes priority in its employees, who are the basis of its success and excellence, and strives to support the Emirati youth, while enhancing social solidarity and cohesion among the community. DEWA also takes priority in the Emirati youth, and work to achieve their happiness, and the happiness of the UAE people. DEWA is keen to provide a positive work environment that will motivate them to achieve excellence and success in their working and social lives. DEWA strives to meet all the needs of its employees that enhance their job satisfaction, and encourage them to pursue the highest standards of quality in all areas," said Khawla Al Mehairi, Vice President of Marketing & Corporate Communications at DEWA.

DEWA is committed to achieving the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, who states that the government's policies, programmes and services should contribute towards building a positive and happy community. The government's

main task is to ensure that conditions are conducive for delivering happiness to individuals, families and employees, and promoting positivity as a core value in the local community. Anwar Dubai is a practical step towards achieving the happiness of all members of the community, and enhancing DEWA's approach towards supporting Emirati youth and national identity.

DEWA has a strategy that supports the vision to transform Dubai into a global centre for promoting and enabling endowment for the service of humanity. This supports the largest international endowment initiative launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of UAE and Ruler of Dubai, through the Mohammed bin Rashid Global Centre for Endowment Consultancy (MBRGCEC) and Dubai's Global Vision for Awqaf and Endowments.

"We are honoured that DEWA has been announced as one of the first organisations to provide support for Marriage Endowment sign. We support the efforts that promote the position of the UAE and Dubai in humanitarian aid. The initiatives launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of UAE and Ruler of Dubai, complement the status of the UAE as a global hub for humanitarian aid that goes beyond the UAE," said Saeed Mohammed Al Tayer, MD and CEO of DEWA.

"As a pioneering national organisation for economic and social development, DEWA supports the first strategic theme through Marriage Endowment to support the marriage of young Emiratis. This supports DEWA's Corporate Social Responsibility policy, which is part of Dubai's Global Vision for Awqaf and Endowments. This promotes building successful families for a cohesive society that keeps its identity and traditions. The family is the foundation for society to develop sustainably," concluded Al Tayer.

DEWA contributes to achieving Dubai's Global Vision for Awqaf and Endowments, which consist of eight themes. These themes include a comprehensive strategy, a clear legislative environment, effective consultation, international best practices in the establishment and management of Awqaf and Endowment foundations, and maximising social impact through innovative opportunities. These underline four strategic themes, the first of which aims to transform Dubai into a catalyst to serve society through Awqaf and Endowments.

Based on its belief that the youth are the future, and listening to their views, ideas, and suggestions is futuristic thinking, DEWA is committed to providing the youth with the best environment to achieve their dreams and ambitions, while enabling them play a major role in the development and prosperity of the UAE.

Strong long-term relations with strategic partners to ensure prosperity and growth



DEWA has recognised its partners' efforts and roles in the success of recent achievements, at its annual ceremony to appreciate its partners. HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, honoured partners from a wide range of local and private organisations and media agencies at the Grand Hyatt hotel in Dubai in 25 May.

The appreciation ceremony was organised to strengthen existing ties and cooperation with DEWA's partners, provide services to partners and customers at the highest levels of excellence, and support its efforts to contribute to the successful implementation of Dubai's Strategic Plan.

The event was attended by HE Hussain Nasser Lootah, Director General of Dubai Municipality, HE Abdulla Al Shaibani, Secretary General of the Executive Council of Dubai, HE Ahmed Sari Al Mazrouei, Assistant Undersecretary of Support Services at the Ministry of Foreign Affairs, HE Major General Mohammed Ahmed Al Marri, Director General of the General Directorate of Residency and Foreigners Affairs in Dubai, HE Abdul Rahman Al Saleh, Director General of Dubai's Department of Finance, HE Dr. Hamad bin Al Sheikh Ahmed Al Shaibani, Director General of the Department of Islamic Affairs and Charitable Activities in Dubai, HE Ahmed Butti

Al Muhairbi, Secretary General of the Dubai Supreme Council Energy, HE Ahmad Saeed bin Meshar, Secretary General of Dubai's Supreme Legislation Committee, HE Khalifa bin Dray, Executive Director of Dubai Corporation for Ambulance Services and Frode Muring, United Nations Resident Representative in the UAE (covering Qatar and Oman).

During the event, DEWA presented its strategies, plans and development projects to enhance Dubai's position as a global hub for trade, finance, and tourism. This was followed by a video featuring DEWA's achievements in management, operations, and service. The video highlighted the role of DEWA's partners in supporting its journey towards success and being one of the best utilities in the world.

"Through this annual meeting we developed our cooperation and bond with strategic partners, while adhering to the vision of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, which highlights the importance of collaboration between the public and private sectors to make major leaps forward in our efforts to achieve the UAE Vision 2021 and the Dubai Plan 2021. Our shared goal is to provide the best government services with world-class standards to achieve the happiness

of our customers, stakeholders, and the community. We are eternally grateful that our journey can continue thanks to your efforts as major supporters for our success as a public utility. We take inspiration from the wise words of HH Mohammed bin Rashid Al Maktoum who said that, 'One main reason behind the success of our Union is the one team spirit, found in every citizen. The way forward is to strengthen this spirit. We are one nation, with one constitution, one flag, one army, and one President, Sheikh Khalifa bin Zayed. Everyone, everywhere, must work hard as one team, one spirit... with one vision... and unified efforts... that is the true Spirit of Union.'," said Al Tayer.

"DEWA has adopted the use of the Strategic Dimension concept, to achieve our vision of becoming a sustainable innovative world-class utility. Based on this concept, we have included our strategic goals among those we want to achieve in addition to the four perspectives of the Balanced Scorecard, being the triple bottom line, that covers the economic, environmental and social dimensions of sustainability, stakeholders including our partners, our internal operations, and our support, learning and growth," added Al Tayer.



His Ability is Stronger Than His Disability

By **Samrin Anjum**
Transmission Power Division

It is every person's desire to be extraordinary. While it is a great achievement to perform remarkable feats, it is especially noteworthy when those with disabilities make accomplishments. A disability is an impairment that limits one or more major life activities of an individual. A disabled person is either born with the impairment or suffers from it as a consequence of an accident.

There are currently over a billion people with disabilities. Being disabled does not mean being disqualified from every aspect of life. Almost everyone will face temporary or permanent impairment at some point in life. And as opposed to the myth that disabled people are not worth the same job positions as abled people, they share just as many rights.

Researches have proven that disabled people are great assets in a workplace. The UN Convention on 'The Rights of Persons with Disabilities' recognizes their right to work on an equal basis with others, though many people with disabilities do not find enough opportunities to land a decent job. We need to realize that with more access to jobs, the disabled would become an integral part of the society, helping generate higher

economic growth. It is illegal to treat someone differently because of their disability. Researchers conclude that the disabled are just as productive as non-disabled employees, with qualities such as persistence, problem-solving resources, innovation, and determination.

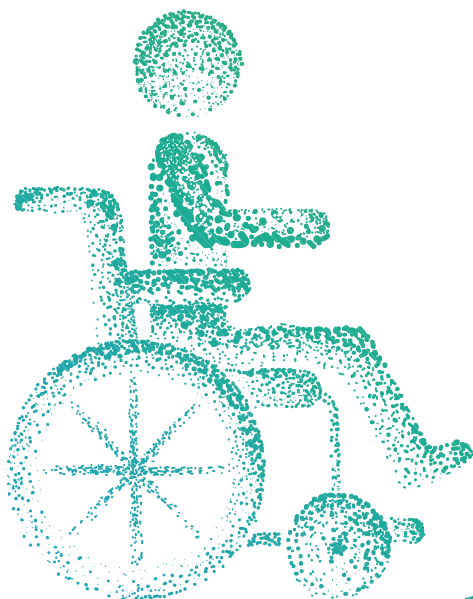
Disabled people can be of great value to the society if provided with resources that enable them to participate in the development of the socio-economic sectors. History has witnessed a great number of disabled people who have contributed to society, without their disabilities hold them back. They have transformed their disabilities into opportunities using will power. Vincent Van Gogh (Disability: Mental Illness) was a Painter, and is currently regarded as one of the greatest painters the world has ever seen. His paintings have contributed to the foundations of modern art. Ludwig van Beethoven (Disability: Deafness) is regarded as one of the greatest composers in history, while Christy Brown (Disability: Cerebral palsy) was an author, painter and poet, considered intellectually disabled by doctors. He is known for his autobiography *My Left Foot*, which was later made into an Award-winning film. Stephen William Hawking, who was diagnosed with a disease in which the nerves controlling the muscles become inactive while the sensory nerves continue to function normally. He was diagnosed at made when 21 years old, with a life expectancy of just two years.

Hawking is now a theoretical physicist and cosmologist, considered as one of the greatest scientists alive today. Hawking is the Director of Research at the Centre for Theoretical Cosmology, University of Cambridge. He has furthered Einstein's theory of general, has about twelve honorary degrees, was awarded the CBE in 1982, and became a Companion of Honor in 1989. He has received numerous awards, medals and praises. Hawking uses a communication system known as Equalizer, which involves a speech synthesizer. He has authored a book, several scientific papers, and lectures, although he is capable of speaking at a mere rate of 15 words per minute, and able to

devise a 45-minute long lecture in an extensive time period of 40 hours. Stephen Hawking is an example that proves strong determination is more effective than a strong body.

These people have amazed the world with their courage, determination, and strength, overcoming all obstacles on their path to glory. Every individual that harbors stigma towards people with disability must learn that disability is not equivalent to inability. The UAE stresses the need to pay more attention to people with disabilities. In 2006, the UAE passed the 'UAE Disability Act' (Federal Law No. 29/2006) to protect the rights of people with disabilities. UAE nationals with disabilities now have the same rights to work and occupy public positions as abled ones. In 2014, HH Sheikh Mohammed Bin Rashid Al Maktoum, Vice-President and Prime Minister of the UAE, and Ruler of Dubai, issued another law to protect the rights of people with disabilities in Dubai, supporting the rights of the disabled, and reflecting Dubai's high regard for people with disabilities. These laws aim to provide high-quality medical care and social services, and integrate disabled persons into society reaffirming their participation in social development. In the UAE, many job opportunities are offered to the disabled. These opportunities not only create stable income for disabled people but provide positive psychological and social benefits.

DEWA launched an initiative called Ash'ir, a video chat service where employees use sign language to communicate with customers with speech disorders or hearing impairments. Another initiative called Absher was formed to tend to enquiries and reports of workplace violations filed by disabled employees. These services aim to transform the UAE into a hub for humanitarian work and promote community service. The government has provided financial support and means of transportation for the disabled, and has also hired instructors to teach them in schools that house all necessary equipment. The UAE provides the best facilities for the disabled, enabling their abilities over their disabilities. High levels of intellect exist in the Disabled Community; how we harness them is another matter of fact altogether.



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لمزيد من المعلومات يرجى التواصل مع:

حصه الجوالي
Hessa Aljawali
04 322 3380
Hessa.Aljawali@dewa.gov.ae

موزه راشد
Moaza Rashed
04 322 3382
Moaza.Jemaia@dewa.gov.ae

حمدان المزروعى
Hamdan Almazrooei
04 322 3386
hamdan.almazrooei@dewa.gov.ae

شيماء المرزوقى
Shaima Almarzooqi
04 322 3394
shaima.almarzooqi@dewa.gov.ae

HR Support Center مركز دعم الموارد البشرية
04 515 0222

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Your footprint in water consumption

Conservation tips

Water and energy resources on our land are God's gift to all mankind. Clean water flowing from our taps, electricity illuminating our homes and guiding our way on the streets at night, cooking our meals with gas, these are some of the blessings and comforts that we should not take for granted. Energy and water resources in the UAE and around the world are slowly depleting as demand increases, and it is up to us to work hard to conserve what we have. The UAE is one of the major consumers of electricity and is the world's third largest per capita water consumer after the USA and Canada.

The UAE has planned strategies to conserve our resources over the years, increase the efficiency of water and electricity consumption and develop and promote the use of renewable energy sources such as solar power. Contrary to what many think, our resources will not last forever. So it is in every individual's hand to be responsible and do his or her part in helping us conserve our water and energy, so that generations after us can have what we have. Just because water is abundant, we should not use it excessively and carelessly.

The World Health Organisation recommends two gallons per person daily to meet the requirements of most people under most conditions – and around 5 gallons per person daily to cover basic hygiene and food hygiene needs. On average, The UAE's rate of daily consumption is about 145 gallons of water per person, while those in Europe use about 50 gallons of water daily. A resident of sub-Saharan Africa uses two to five gallons of water per day. While reducing your water usage to five gallons a day would prove prohibitive for those of us accustomed to using more, there are plenty of smart ways to reduce

your usage in large amounts.

With the lack of natural resources such as rivers and the challenges in groundwater extraction, seawater desalination accounts for 99.5% of drinking water produced in Dubai. DEWA's installed capacity is 470 million imperial gallons of desalinated water per day. The residential sector accounts for 59% of total water usage, while commercial customers use 28%, non-commercial buildings use 10% and industrial customers use 3%.

DEWA's various initiatives and awareness programmes effectively contribute to supporting the national efforts to achieve a sustainable future. DEWA managed to achieve impressive results in reducing water use over the past six years through our various campaigns, with a total saving of over 5.4 billion gallons of water.

"We will continue to reduce use percentages in the coming years. This will only be achieved through joint efforts and the effective participation of individuals in supporting our efforts to reduce water consumption and ensure its sustainability through responsible use. Due to our strong belief in preserving natural resources, DEWA launched an awareness campaign under the theme 'Every Drop Matters'. The campaign will make use of the best practices to limit water use, and lower the amount of water being wasted, to ensure sustainability for generations to come. All year round, DEWA launches awareness programmes and innovative initiatives to encourage society to adopt a positive approach as part of their daily lives to reduce electricity and water use. Through this, 5.6 billion imperial gallons of water has been saved between 2009 and 2015," said Saeed Mohammed Al Tayer, MD & CEO of DEWA.

Here are some tips on how to reduce your water consumption:

- 1. To minimise the amount of water used for a bath, plug the drain first and fill the tub only 13/ full. Initially there will be a burst of cold water, but that will be warmed when hot water comes through.**
- 2. You can save more than 100 gallons a week if you keep the tap closed while you shave.**
- 3. Replace tap filters and showerheads around the house with water flow reducers. Water flow reducers on taps save 50-70% of water.**
- 4. When adjusting water temperatures, turn the water flow down instead of increasing it to balance the temperature.**
- 5. Turn off your water heaters in the summer. The water gets naturally heated at that time of year.**
- 6. Place a plastic bottle filled with water or sand in your toilet tank to reduce the amount of water used in each flush.**
- 7. Don't throw waste down your toilet. It leads to unnecessary flushing and increases the risk of your toilet getting blocked.**
- 8. Upgrade your toilet to newer improved models with a dual flush system. It will save you water and money long term.**
- 9. If your toilet flush handle regularly sticks in the flush position letting water run constantly, consider fixing or replacing it.**
- 10. By turning off the tap when you brush your teeth, you can save approximately 3 gallons of water! Filling a cup to rinse your mouth saves about 4 gallons.**
- 11. When you wait for water to heat up after turning on the tap, save it in a bucket or empty bottle and use it to water your house plants.**

Women's Committee



Khawla Al Mehairi

Vice President Marketing & Corporate Communication
Chairperson of DEWA's Women's Committee

Since the formation of the UAE, the country's women have achieved numerous accomplishments, and have been a fundamental part of developing the projects launched by the late Sheikh Zayed bin Sultan Al Nahyan, and continued by HH Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE, HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai and the UAE government. Their work is based on their view that women's involvement is a major criterion to achieve sustainable development, which requires that we combine all our effort and potential. Women represent 50% of our society and therefore play an important role in the social and economic development of the UAE.

DEWA makes considerable efforts to empower all its female employees to enhance their capabilities to effectively participate in DEWA's development process, and in society as a whole. DEWA's management believe that women play a vital role in its economic, social, and cultural development. DEWA supports this view by launching a number of initiatives and programmes to empower women, both inside and outside DEWA. The Emirates Women Award honoured DEWA as the Platinum Sponsor. This supports DEWA's ongoing efforts to support national initiatives to empower women and increase their social participation, while enhancing their contribution to the economic and sustainable development of the UAE. The Emirates Women Award supports DEWA's efforts to promote more participation by women in development and innovation, to highlight their contribution to success, community development, and prosperity.

DEWA provides a positive and inspiring work environment for female staff, and supports them to achieve a balance between their professional and social lives. This enables them to further develop their talent and potential.

DEWA's Women's Committee works to create a platform to facilitate and enhance dialogue and discussions about important social issues, and develop strategic programmes and plans.

The committee supports DEWA's efforts to empower female employees and enhance their happiness, while creating a work environment that not only has a positive effect on DEWA, but is also capable of developing women to empower society.

Emirates Women Award honours DEWA as Platinum Sponsor



Under the patronage of HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of Dubai Civil Aviation Authority (DCAA) and Chairman of Emirates Group, Honorary Patron of Dubai Quality Group, and President of the Emirates Women Award (EWA), the Emirates Women Award honoured Dubai Electricity and Water Authority (DEWA) as the Platinum Sponsor of the award, during a ceremony organised by Dubai Quality Group and held at the Four Seasons hotel in Dubai. Representatives from both the public and private sectors, the media, women in leadership roles across the UAE, business women, and members of DEWA's Women's Committee were also present. Fatima Deemas, Senior Manager of Internal Communications at DEWA and Vice Chairperson of the DEWA Women's Committee, received the trophy on behalf of Khawla Al Mehairi, Vice President of

Marketing & Corporate Communications at DEWA and Chairperson of the DEWA Women's Committee. "DEWA's Women's Committee is the sponsor of the Emirates Women Award. This supports DEWA's ongoing efforts to support national initiatives that aim to empower women and increase their social participation, while enhancing their contribution to sustainable development in the UAE. The Emirates Women Award supports DEWA's efforts to promote more participation by women in development and innovation, to highlight their contribution to success, community development, and prosperity. Through our participation, we support activities that create an interactive platform for DEWA employees to exchange skills and experiences, while developing their personal and professional abilities," said Al Mehairi.

2016 Second Quarter Activities



The Women's Committee at DEWA organises a number of events and activities for women in DEWA. To celebrate International Women's Day on 8 March, famous speaker, we hosted Hala Khadim who delivered a lecture on "Happiness". For Mother's Day, the Committee distributed



tokens of appreciation to all DEWA female employees. The Committee worked jointly with Pink Caravan in organising a free medical camp to raise awareness of breast cancer and its early detection. Other events so far in the year have included workshops on perfume making,



lectures on beauty and nutrition, a pampering day for ladies during Women's Health Day, summer activities, the 7 Strategies of Happiness workshop, and cooking classes at the Top Chef Cooking Studio.



Haweyatna (our identity)

The names of various fabrics are usually taken from their patterns, motifs or given by the original creators. Perhaps the most famous fabric is Buteelah, which has a variety of circles in different sizes and colours.



Your Health

Dr. Paxton of The University of Chicago established that practicing sport in the evening, increases the production of hormones required for better metabolism in the body. This proves that certain times of the day are better for practicing sport than others. Sleeping habits determined by the body's internal clock may also play a vital role in this complex relating to sport.

Aljazeera.net

Personalities



Noura Al Kaabi

- Minister of State for Federal National Council Affairs
- Chairwoman of the Media Zone Authority in Abu Dhabi (MZA) and twofour54
- Board member of the UAE's National Media Council, Abu Dhabi Media, Image Nation, the Abu Dhabi Sports Council and the United Arab Emirates University

Noura is the first UAE National to be ranked on Foreign Policy magazine's 'Top 100 Global Thinkers List'. In 2014, she was named as one of **Forbes Middle East's 30 Most Influential Women in Government**; and was awarded 'Business Woman of the Year' at the Gulf Business Industry Awards. Her role in growing the UAE's media industry was recognised by America Abroad Media (AAM) in 2015

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Renewable Energy Employs 8.1 Million People Worldwide, Says New IRENA Report



More than 8.1 million people worldwide are now employed by the renewable energy industry, which is a 5% increase from last year's figures, according to a report released by the International Renewable Energy Agency (IRENA), during its 11th Council meeting. The report, *Renewable Energy and Jobs – Annual Review 2016*, also provided a global estimate of the number of jobs supported by large hydropower, with a conservative estimate of an additional 1.3 million direct jobs worldwide.

"The continued job growth in the renewable energy sector is significant because it stands in contrast to trends across the

energy sector. This increase is being driven by declining renewable energy technology costs and enabling policy frameworks. We expect this trend to continue as the business case for renewables strengthens and as countries move to achieve their climate targets agreed upon in Paris," said Adnan Z. Amin, Director General of IRENA.

The total number of renewable energy jobs worldwide rose in 2015 while jobs in the broader energy sector fell. In the United States for example, renewable energy jobs increased by 6% while employment in oil and gas decreased by 18%. In China, renewable energy employed 3.5 million people, while oil and gas employed 2.6 million.

In previous years, enabling policy frameworks remained a key driver of employment. National and state auctions in India and Brazil, tax credits in the United

States, and favourable policies in Asia have all contributed to employment increases. Countries with the most renewable energy jobs in 2015 included China, Brazil, the United States, India, Japan and Germany. The solar photovoltaic (PV) sector remains the largest renewable energy employer worldwide with 2.8 million jobs (up from 2.5 at last count) with jobs in manufacturing, installation, and operations and maintenance. Liquid biofuels was the second largest global employer with 1.7 million jobs.

Climate change threatens 31 World Heritage sites



The United Nations released a report Thursday saying 31 natural and cultural World Heritage sites in 29 countries are vulnerable to the effects of climate change, rising temperatures, rising sea levels, intensifying storms, longer droughts and so on.

World Heritage and Tourism outlines how these consequences of climate change could damage or destroy the Statue of Liberty in the US, the Shiretoko peninsula in Japan, Stonehenge in the UK, and many others.

Clean Energy meets 95% of Germany's power needs



Germany's renewable energy sector reached new heights, exactly a week after the country saw clean energy meet 95% of its power needs. Energy consumption in Germany totaled almost 57.8 GW, meaning that about 95% of the country's energy demand could be covered by renewable energy sources.

Due to the weather conditions, total capacity of photovoltaic (PV) installations in use in the country reached 26.11 gigawatts (GW). At the same time, the capacity of wind power plants reached 20.83 GW.

Portugal runs for four days straight on renewable energy alone



Portugal kept its lights on with renewable energy alone for four consecutive days last week in a clean energy milestone revealed by data analysis of national energy network figures.

Electricity consumption in the country was fully covered by solar, wind and hydro power in an extraordinary 107-hour run that lasted from 6.45am on Saturday 7 May until 5.45pm on Wednesday 11 May.

Great Barrier Reef: Bleaching kills 35% of area's coral



At least 35% of corals in the northern and central parts of Australia's Great Barrier Reef have been destroyed by bleaching, Australian scientists say.

The experts from James Cook University (JCU) say it is the most extreme case of mass bleaching they have ever measured at the World Heritage Site.

Bleaching occurs when warmer water causes coral to weaken and lose the colourful algae that provide oxygen and nutrients. It has been linked to climate change.

We found on average, that 35% of the corals are now dead or dying on 84 reefs that we surveyed along the northern

and central sections of the Great Barrier Reef, between Townsville and Papua New Guinea," said Professor Terry Hughes, the head of the ARC Centre of Excellence for Coral Reef Studies at JCU.

This year is the third time in 18 years that the Great Barrier Reef has experienced mass bleaching due to global warming, and the current event is much more extreme than we've measured before. We're rapidly running out of time to reduce greenhouse gas emissions.

The scientists warned that the recovery of coral cover is expected to take a decade or longer, but it would take much longer to regain the largest and oldest corals that have died.

Hyundai Motor beats rivals in registering US clean energy patents



Hyundai Motor Group, South Korea's top automotive group, acquired the largest number of patents on clean energy technology in the United States in the Q3 of 2015, the Clean Energy Patent Growth Index showed. Among 916 clean energy patents registered with the US Patent and Trademark Office in the July-September period, the combined patents by Hyundai Motor Co. and its company Kia Motors Corp. ranked at the top with 54, according to the index released by the Cleantech Group. Japan's Toyota came next with 41, trailed

by US automaker Ford with 36 and Japan's Honda with 31 during the period, said the group under Heslin Rothenberg Farley & Mesiti, a New York-based law firm dedicated to intellectual property law. The number of patents by automakers accounted for 20.5% of the total, or 188, mostly related to hybrid and electric vehicles as well as fuel cells aimed at developing eco-friendly cars, it said. As of March, the Hyundai Motor Group had 2,745 domestic and 6,945 overseas patents, its regulatory filing showed.

Innovation and technology in T-shirts



FC Barcelona's new t-shirts not only represent the club symbol with pride, but also feature the very latest Nike developments for performance, textile technology, dampness control, and environmental sustainability. Nike's Dri-FIT technology pushes sweat to the outside of the t-shirts and shorts, where it evaporates. This allows the players to perform better as they are drier, cooler, and more comfortable.

The ventilation holes are laser cut and the

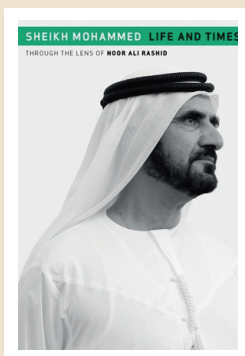
mesh panels in key areas of the uniform were designed to improve performance by increasing air circulation around the players' bodies, while also helping to regulate temperature. The shirt is made of an engineered textile including a mesh structure under the chest to help increase air flow and movement. For the first time, the names and numbers of the players also include a new and innovative ventilation system to help with humidity control.

Knowledge Management



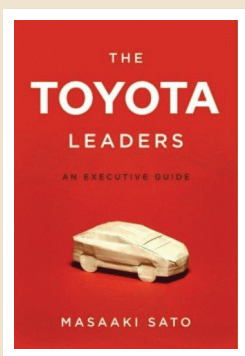
Books are available for employees to borrow from DEWA's Knowledge Centres in Al Quoz, Warsan, and Al Qusais. For further information or assistance please email us at:

knowledge.centre@dewa.gov.ae



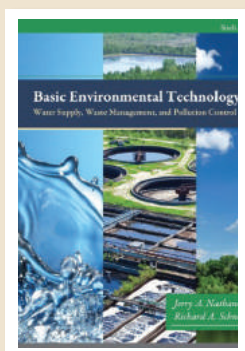
Title: Sheikh Mohammed: Life and Times through the lens of Noor Ali Rashid
Author: Noor Ali Rashid
Language: Arabic and English
Pages: 144 pages
Availability: Al Quoz, Warsan and Al Qusais Knowledge Centres

Brief: Besides the official recording of historical moments, Noor Ali Rashid was also there to capture less formal events, thus providing a more human, touching and real portrait of Sheikh Mohammed. Sheikh Mohammed Bin Rashid Al Maktoum became the ruler of Dubai and Vice-President of the UAE in January 2006 and the Prime Minister of the UAE in February. He was named 'Entrepreneur of the year' by New York Times newspaper for being the man behind Dubai's astounding growth through diversification. A leader of the 21st century, a poet and a distinguished horseman Sheikh Mohammed inspires with his example.



Title: The Toyota leaders. An Executive Guide
Author: Masaaki Sato
Language: English
Pages: 266 pages
Availability: Al Quoz, Warsan and Al Qusais Knowledge Centres

Brief: Six decades ago, Toyota was an embarrassment. Today, they are the auto-industry leader. This book tells how they did it, and in such a way that allows readers to apply the lessons. Discover how Toyota is more than just a series of good business moves, but a culture first put into place by its founders and built on through the years. Not a corporate history, Sato uses Toyota's past to contextualize his discussion as he focuses on the company's unique business strategies.



Title: Basic Environmental Technology
Author: Jerry A. Nathanson & Richard A. Schneider
Language: English
Pages: 446 pages
Availability: Al Quoz Knowledge Centre

Brief: This book emphasizes applications while presenting fundamental concepts in clear and simple language. It covers a broad range of environmental topics thoroughly giving reader a solid foundation for further study. The book also covers environmental sustainability, integrated water management, low impact development, green building design, advanced water purification, dual water systems, new pipeline materials, hydraulic fracturing, constructed wetlands, single stream municipal solid waste recycling, plasma gasification of waste and updated EPA standards.



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