



Al Masdar

Issue 60 - October 2016
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Page 8

18th WETEX and 1st Dubai Solar Show end on a high note

Page 12

DEWA supports sustainable future of Dubai by investing in clean energy

Page 34

DEWA is the first government organisation in the UAE to measure the happiness of children

Page 37

DEWA organises Second Emirati Women's Forum



**The government's job is to
achieve happiness for people.**



HH Mohammed bin Rashid Al Maktoum

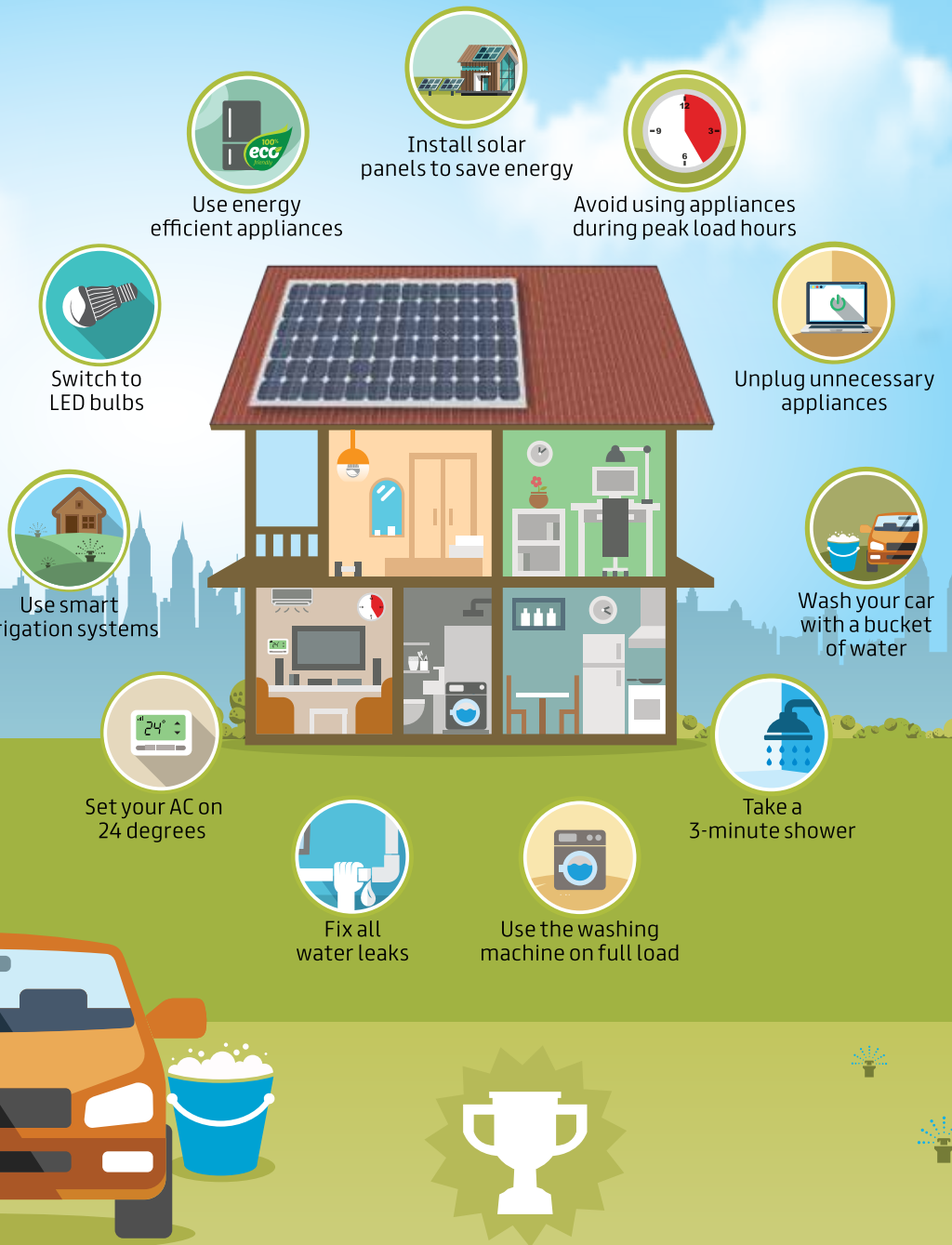
Vice President and Prime Minister of the UAE and Ruler of Dubai



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SAEED MOHAMMED AL TAYER

MD & CEO OF DEWA

Welcome to this issue of Al Masdar, with the latest updates on the energy and water sector in Dubai and the region. In this article, I would like to point out one of the strategic directions that our wise government has adopted as a base for its plans to reach number one in all areas; it is 'making the future'.

The UAE realises the importance of making the future, as a fundamental transition that cannot be ignored. I would like to quote HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, about the reality of prosperity, hope, and hard work to achieve strategic and ambitious goals. HH Sheikh Mohammed bin Rashid Al Maktoum once observed, "We think differently. While others try to predict the future, we create it."

Last April, His Highness launched the Dubai Future Agenda. This demonstrates that Dubai and the UAE are committed to achieving international leadership in shaping the future based on innovation, creative capabilities, and efficient minds. The Dubai Future Accelerators initiative, recently launched by HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council, under the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, demonstrates their commitment to rapidly upgrade Dubai to a new world-class level; sponsoring innovation and supporting innovators, attracting the best minds in the world, and adopting new ideas as part of Dubai's efforts to transform into a knowledge-based economy.

Through the Future Accelerators, Dubai provides organisations and programmes to support entrepreneurs, innovators, and start-up companies, to help them develop and streamline their work, with a focus on companies innovating future technologies. Dubai is committed to a brighter, greener, and more sustainable future for generations to come. This will depend on clean energy and reducing the carbon footprint to achieve the directives of the wise leadership and the Dubai Clean Energy Strategy 2050.

DEWA contributes towards sustainable development, strives to protect the environment and achieve a balance between economic and social development. Innovation and renewable energy had dedicated stands at the Water, Energy, Technology, and Environment Exhibition (WETEX) 2016. DEWA organised WETEX under the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, and under the patronage of HH Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, Minister of Finance and President of DEWA, from 4-6 October 2016 at the Dubai International Convention and Exhibition Centre. The 18th WETEX attracted a large number of visitors, and government and private organisations working in environment, and green solutions and technologies. WETEX 2016 coincided with the first Dubai Solar Show, a leading platform for the latest solar energy solutions including building, operation, distribution, storage, and solar energy management technologies.



Our Vision

A Sustainable World-Class Utility.

Our Mission

Meeting customer satisfaction and promoting Dubai's vision through delivery of electricity and water services at a world-class level of reliability, efficiency, safety and environment by a competent workforce and effective partnerships; supporting resources sustainability.

Our Values

Integrity, Fairness, Transparency, Teamwork, Industry Leadership, Professionalism, Corporate Social Responsibility, Customer Focus, and Sustainability.

Our Motto

For Generations to Come.



October 2016 - Issue 60

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Cover story



18th WETEX and 1st Dubai Solar Show end on a high note

News



Al Tayer heads delegation to Spain



■ DEWA first government organisation in Dubai to establish a 24/7 Cyber Defence Centre

■ DEWA honours second phase winners of the DEWA2021 Street Art competition

■ DEWA implements 99 ideas as part of Afkari initiative

■ .. and organises third batch of training sessions for students of the Carbon Ambassadors Programme

Feature Story



■ Increasing awareness on energy and water conservation for generations to come

A Tale of a sustainable City



■ 'Green' Hamburg combines environmental sustainability and economic development



DEWA supports sustainable future of Dubai by investing in clean energy

Climate Change Ambassadors



Environment & Climate Change Ambassadors
raise awareness about sustainability and environmental responsibility

Pioneering Initiatives



- DEWA launches Ideal Home Initiative to encourage a culture that conserves resources
- Smart Office App enhances work experience for DEWA employees
- Dubai to host the Solar Decathlon in 2018 and again in 2020
- The UAE Water Aid Foundation is our gift to the humanity

News

- MD & CEO of DEWA visits Mohammed bin Rashid Al Maktoum Solar Park
- DEWA awards consultancy contract for 4th phase H-Station at Aweer
- ... & awards international advisory services contract for reverse osmosis desalination plant
- DEWA awards construction contract for 400 kV substation at Hassyan Clean Coal Power Plant

Activities



DEWA is the first government organisation in the UAE to measure the happiness of children

Women's Committee



DEWA organises Second Emirati Women's Forum

International News



HH Sheikh Mohammed bin Rashid Al Maktoum: Solar Impulse 2 opens new horizons for renewable energy

18th WETEX and 1st Dubai Solar Show end on a high note



The 18th Water, Energy, Technology, and Environment Exhibition (WETEX) and the 1st Dubai Solar Show have successfully concluded on Thursday 6 October 2016. HE Saeed Mohammed Al Tayer, MD & CEO of Dubai Electricity and Water Authority (DEWA), Founder and Chairman of WETEX, said that both have reinforced their positions on the international map of specialised energy-related exhibitions.

WETEX and Dubai Solar Show reflected the UAE's and Dubai's interest in renewable energy and sustainability. They also show Dubai's leading position in offering an opportunity to thousands of companies to promote their activities and services in WETEX 2016. The companies succeeded in promoting their technologies in

water, environment and energy to the entire world through the show, not to mention interacting closely with trade visitors.

Titanium, strategic, platinum and gold sponsors expressed their satisfaction on their participation at this year's WETEX. The show was also visited by government officials, delegates and experts in energy, environment, water, electricity and sustainability.

The inaugural Dubai Solar Show covered 13,000 square metres and attracted exhibitors from around the world. Dubai Solar Show proved to be a key platform for the public and private sectors to make deals, build partnerships, review the latest solar-energy technologies, learn about current and future projects

in the region and market needs, and explore opportunities to take part in solar-energy projects and programmes.

The inaugural Dubai Solar Show was a successful initiative as part of the global trend to develop solar technologies and increase reliance on it to generate electricity. The show has allocated big spaces for companies to present their technologies and solutions that support solar and renewable energy. The first three days of Green Week, included leading environmental events, notably WETEX, World Green Energy Summit and Dubai Solar Show, generated direct discussions among key stakeholders at the Dubai International Convention and Exhibition Centre.



Green Week activities included a number of community outreach campaigns that have attracted educational institutions where their students presented projects that have reflected great awareness on sustainability and the rationalisation of energy and water consumption and offered some innovative solutions and contributions.

WETEX and Dubai Solar Show have contributed to shift the attention of the world towards the progress of Dubai in green economy and green development. One of the goals of WETEX is to educate DEWA's customers and encourage them to contribute to the process of transition towards a green environment.

Al Tayer praised the growing stature of WETEX and Dubai Solar Show and the corresponding huge interest of trade visitors. He attributed

this to the active involvement of government institutions and the private sector in both shows.

A series of workshops and seminars raised awareness about saving water and electricity and the importance of implementing green practices were organised during WETEX where DEWA worked on promoting green concepts during these workshops and seminars.

ENOC, a key sponsor of WETEX, has highlighted its initiatives in sustainable development through advanced technology and products. On the last day of the show, Global Head of Energy Utilities at Ericsson, that sponsors WETEX 2016, Marco Li Vigni, discussed how the increased focus on emission reductions and the new business models and operational efficiency are changing the nature of the utilities business

and creating new challenges and opportunities. Also, 14 German companies displayed through the German national pavilion their latest conventional and renewable energy solutions as well as the most advanced water technologies.

Manfred Waidhas, Head of Technology Innovation for Hydrogen Solutions at Siemens AG presented the topic of energy storage in the megawatt age. Waidhas explained why hydrogen is an ideal solution as a multi-functional energy carrier and storage concept. In his presentation, he demonstrated how Siemens in Germany has developed a decentralised hydrogen energy storage plant and how hydrogen can enable large-scale energy storage.

Dubai Green Zone received an overwhelming response at WETEX. This project encourages established



Cover Story



"Year after year, WETEX succeeds in instilling a culture of sustainability and emphasizing on the importance of using green products. Green Week is a big leap in DEWA's community outreach programmes as it raises awareness on green practices. It is a world-class event going all the way in allowing us to achieve our vision of becoming a sustainable innovative world-class utility."

- HE Saeed Al Tayer -

and start-up companies to set up their presence in the Emirate and provide them with an ideal business environment to develop and market their green sustainable technologies. Dubai Green Zone comes under the infrastructure pillar of the Dubai Clean Energy Strategy 2050 launched by HH Sheikh Mohammed bin Rashid Al Maktoum, that aims to transform Dubai into an global hub for clean renewable energy and green economy. WETEX has played an instrumental role in familiarising global organisations and international research bodies with the concept of the Green Zone to discuss setting up regional headquarters within the zone.

Also, Innovation Hall attracted a wide range of innovators and emerging companies that showed the latest creations from major international companies that are renowned for their innovative approach.

"Our focus at WETEX was on smart Internet of Things, the convergence between Informational Technology (IT) and Operational Technology (OT) in our solutions," said Bruno Dercle, VP of Commercial Energy at Schneider Electric.

"We realise that in this part of the world the transformation is happening much faster than expected. The solar plants production costs are going down, which means we're reaching a better match than before. We believe that the Internet of Things is the key to developing sustainability in the region," said Li Vigni of Ericsson.

Adnan Merhaba, Global Head of the Renewable Energy Competence Centre of Arthur D Little shared his thoughts on Renewable & Storage of Energy while Najmuddin A. Warsi, General Manager of Smart Grids presented on smart metering of electricity, water and gas to achieve the smart grid concept.

Dubai Police promoted the revival of coral and showed their marine conservation projects.

"Through our marine environment project, we planted coral in one of the islands in Dubai. Our aim here is to support Dubai for sustainability in 2021. We hope to attend WETEX 2017 next year," said Dr. Tamim Alhaj, Director of Environment, Health and Safety at Dubai Police.

Ahmed Saeed Albedwawi, Head of the Building Studies Unit at Dubai Municipality, said Dubai Municipality used the exhibition to show to the public for the first time its Green Building Rating System called Al Safat, an initiative designed to make buildings better for people and the environment by reducing their water and energy use. "The initiative supports Dubai Municipality's strategic vision of developing Dubai as a pioneering smart and sustainable global city. It also supports the Dubai Supreme Council of Energy's goal to reduce overall the energy demand by 30% by 2030," added Albedwawi.

Dubai Municipality's stand at WETEX attracted local, regional, and international visitors to the show. Dubai Municipality has also shown one of its major projects, Safari

Dubai, which is an environmentally-friendly landmark development. It adopts many sustainability practices like generating 1MW of solar power.

"Dubai Municipality is keen to apply sustainability in all fields even in entertainment," said Albedwawi. Other projects shown by DM included its hot regions scanning and air quality monitoring.

"Dubai Investments is committed to the cause of sustainability, and as part of this, the company has launched a number of energy-efficient technologies and products over the years. The coloured solar panels from Emirates Insoleare promote the use of renewable energy that aims to make Dubai a global centre of clean energy and green economy," said Khalid Bin Kalban, Managing Director and CEO of Dubai Investments.

Coloured solar panels from CROMATIX were some of the latest technologies being featured at the 1st Dubai Solar Show. This technology generated huge interest at the show, especially as it has been successful installed in several cities around the world.

Al Tayer thanked all 60 sponsors for supporting WETEX and their response to initiatives launched by DEWA.





Report

DEWA participated in a session organised by the General Secretariat of the Executive Council of Dubai

DEWA supports sustainable future of Dubai by investing in clean energy





HE Saeed Mohammed Al Tayer, MD and CEO of DEWA has said that DEWA supports sustainability in Dubai with major projects in clean energy, sustainability, and the environment. One of DEWA's key projects is the Mohammed bin Rashid Al Maktoum Solar Park, which shows sustainable development is a top priority of the leadership of the UAE: HH Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE and HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. They know the importance of renewable energy in balancing development with a clean, healthy and safe environment. Al Tayer said this at a session with the theme 'Building a Sustainable Future is our Responsibility for Generations to Come', that DEWA sponsored and took part in. The session was organised by the General Secretariat of the Executive Council of Dubai, and took place at the Emirates Towers Hotel on 31 August. The session covered

shaping and predicting the future, presented by Dubai Chamber and experts in sustainability and Corporate Social Responsibility.

The leadership's vision

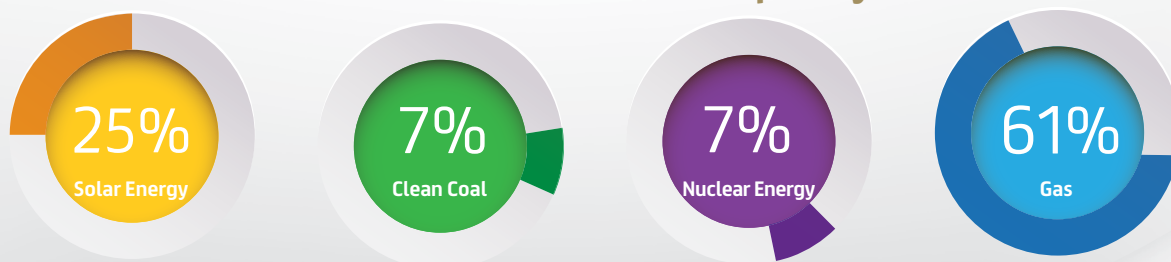
Al Tayer noted that DEWA is inspired in its transition towards clean energy by HH Sheikh Mohammed bin Rashid al Maktoum's words: "every investment in the development of clean energy sources is also an investment to protect the environment for future generations." Investment in clean energy generates many social, economic, and environmental benefits. This supports the UAE Vision 2021, the Dubai Plan 2021, the National Innovation Strategy, which was launched by HH Sheikh Mohammed bin Rashid Al Maktoum, and the Dubai Innovation Strategy, which was approved by HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, to transform Dubai into the most innovative city in the world.

Carbon Abatement Strategy

Dubai is developing renewable energy, sustainability, and the environment, while improving efficiency to make Dubai the city with the lowest carbon footprint in the world. The Dubai Supreme Council of Energy has launched the Carbon Abatement Strategy to reduce carbon emissions by 16% by 2020. This will help make Dubai one of the cities with the lowest carbon footprints worldwide. DEWA has developed clear goals backed by programmes for the next five years. DEWA considers innovation a critical element in shaping the future. It is a key component of its strategy and organisational structure. DEWA has incorporated innovation in its vision, mission, corporate values, and strategic map: allocating 40% of its goals to strategic innovation. This includes demand side management efficiency, smart city enabling, sustainable and diversified energy mix, diversified investments and finding efficient solutions from R&D.



Output by 2050



Diversifying Energy Sources by 2030

UAE leads international efforts

Al Tayer noted that what the UAE has achieved is a great source of pride. The UAE leads globally in clean and renewable energy. To support the Dubai Clean Energy Strategy 2050, DEWA is working to diversify the energy mix so clean energy will generate 7% of Dubai's total power output by 2020, 25% by 2030 and 75% by 2050. DEWA's strategy is shaping the future of energy and preparing plans to keep up with the latest trends in science and technology. Dubai is the only city in the Middle East and North Africa (MENA) to do this, with specific targets and deadlines for future energy up to 2050. The strategy consists of five main pillars: **Infrastructure, Legislation, Funding, Building skills and an environmentally-friendly energy mix.**

Infrastructure

This pillar includes the Mohammed bin Rashid Al Maktoum Solar Park, the largest single site in the world with a planned capacity of 5,000MW by 2030: reducing 6.5 million tonnes of carbon emissions a year, with an investment of AED 50 billion.

It will include an innovation centre. The R&D centre focuses on renewable energy, solar power, and smart grids and water networks. The park also includes water production using solar energy, indoor and outdoor laboratories, a 400kV substation,

educational facilities, and a training centre. The infrastructure pillar also includes a new free zone, Dubai Green Zone, to attract R&D centres and clean energy start-ups.

Legislation

The second pillar focuses on establishing a legislative structure supporting clean energy policies through Shams Dubai, to support the Dubai Clean Energy Strategy.

Funding

This pillar includes the AED 100 billion Dubai Green Fund to finance investment in R&D on clean energy.

Developing skills

The fourth pillar develops employees via global training on clean energy, in cooperation with international organisations and institutes, international companies and R&D centres.

Environmentally-friendly energy mix

The fifth pillar will create an environmentally-friendly energy mix with solar energy generating 25%, nuclear power 7%, clean coal 7%, and gas 61% by 2030. The mix will gradually increase the employment of clean energy sources to 75% by 2050.

The Mohammed bin Rashid Al Maktoum Solar Park

The Mohammed bin Rashid Al Maktoum Solar Park is the first of its kind in the region due to its capacity. It is the first of several promising projects to use renewable energy to generate electricity. Since the announcement of the solar park, the project has attracted huge interest from the business and energy sectors, reflecting the trust and interest from investors in large projects by Dubai Government. This has been encouraged by favourable current regulations and legislation in Dubai that permit private sector partnerships in power-production projects in the Emirate.

Key features of the Mohammed bin Rashid Al Maktoum Solar Park:

- **Operations:** The park increases the percentage of renewable and clean energy in the energy mix.
- **Innovation:** The park enhances a culture of innovation in renewable energy, as well as renewable energy practices in the region.
- **Research & Development:** The park will contribute to developing an empowering environment. The R&D centre will conduct research in renewable energy, across a number of DEWA's ongoing projects, in cooperation with international universities and institutions. This will contribute to developing an environment which attracts the best people who are capable of building a competitive knowledge-based economy.
- **The business sector:** The park will create future job opportunities for citizens and residents in Dubai.

The Solar Park projects:

■ The 13MW first phase of the solar park became operational in October 2013, at a cost of AED 124 million. This included the establishment of a 13MW photovoltaic plant and a 33kV substation, which has been connected to DEWA's grid.

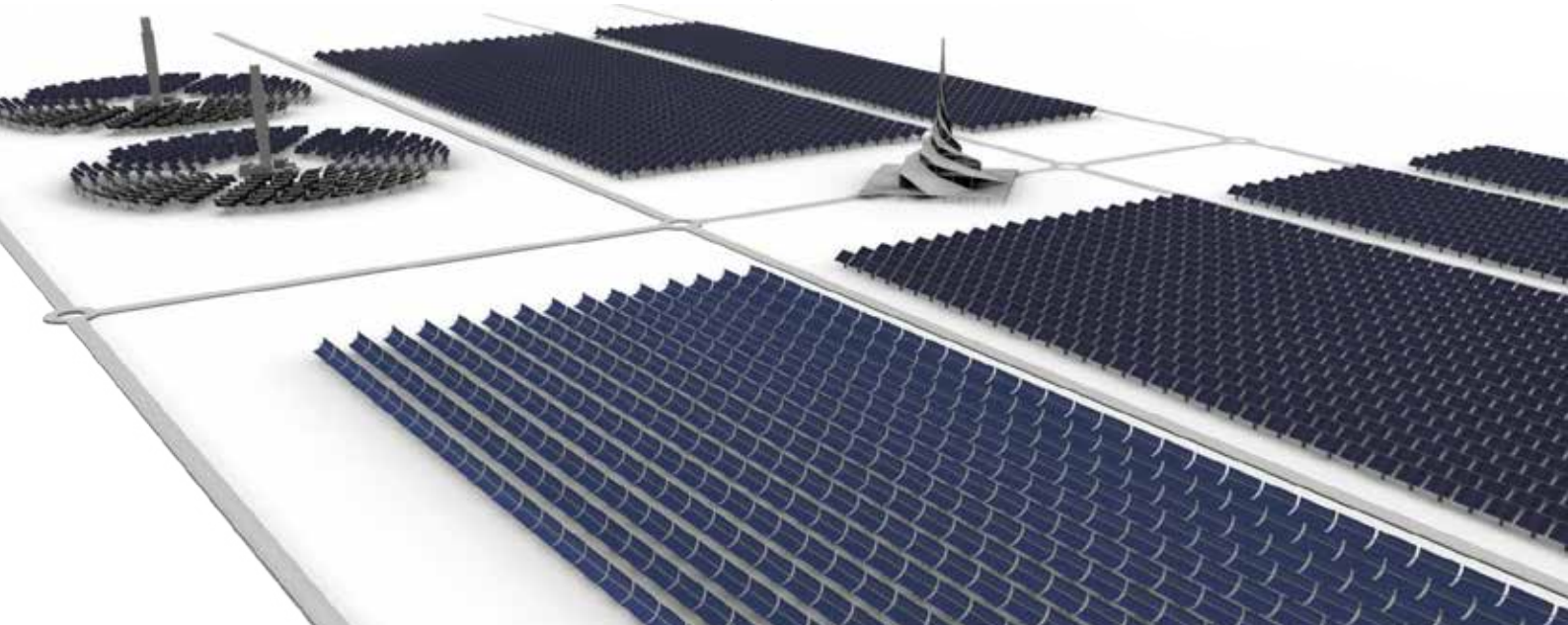
■ HH Sheikh Mohammed bin Rashid Al Maktoum inaugurated the 200MW second phase of the solar park on 28 November 2015. The second phase of the park has been developed based on the Independent Power Producer (IPP) model, and will be

operational by April 2017. DEWA has set a world record by obtaining the lowest price globally for the second phase, at USD 5.6 cents per kilowatt hour (kW/h) for the cost of photovoltaic energy.

■ In June 2016, DEWA announced the selection of the Masdar-led consortium as the best bidder to develop the 800MW third phase of the Mohammed bin Rashid Al Maktoum Solar Park. DEWA set another world record with the lowest recorded bid at the opening of the envelope being USD 2.99 cents per

kW/h for the third phase of the park, which will be operational by 2020.

■ DEWA intends to build the largest Concentrated Solar Power (CSP) project in the world, based on the IPP model. DEWA has released a tender for leading international CSP consultants to submit their proposals for advisory services for the 200MW first project of the CSP plant. It will be operational by April 2021. DEWA will generate 1,000MW using this technology by 2030.





Innovation Centre

DEWA is developing an interactive innovation centre, equipped with the latest technologies in clean and renewable energy, to enhance national skills, support business competitiveness, and encourage social awareness about renewable and sustainable energy. The centre's design features five floors, at a height of 90 metres, that will be complete by 2017.

The R&D Centre

The R&D centre was launched in 2014. It is currently under construction and will be completed by 2020. The R&D centre will focus on four key operations:

Producing electricity using solar energy: Research, conducted in cooperation with international organisations, will focus on studying photovoltaic panels, and limiting the impact of dust, to maintain their performance. It will also test their long-term capability and develop criteria and specifications that suit the local environment.

Integration of Smart Grids: DEWA will conduct research to develop models, and smart grid technologies and systems, in addition to monitoring energy consumption. It will also research the effect that new technologies have on the grids, from renewable energy sources, to storage techniques and electric vehicle infrastructure, and research 3D printing, drone operation and maintenance.

Energy Efficiency: Demand Side Management is a key factor to enhance energy efficiency and ensure its environmental and economic sustainability in terms of savings, improving operations, and enhancing the efficiency of solar energy. DEWA cooperates with partners and educational institutions all over the world, to invest in innovation and creativity, and work to develop the next generation's capabilities of using solar energy through initiatives such as the Solar Decathlon Middle East. This competition will encourage university teams to present their latest innovations to develop solar houses of the future. Dubai will host two rounds of the Solar Decathlon, which will be held for the first time in the MENA Area. Dubai will host the first decathlon in 2018 and again in 2020 to coincide with World Expo 2020 in Dubai. Competition prizes will make a total of AED 10 million.

Water: The R&D centre will develop sustainable solutions to produce water using solar energy, including desalination and purification. DEWA aims to develop technology to produce drinking water, by collecting humidity from the air. DEWA works in cooperation with the UAE Water Aid Foundation (Suqia) to produce clean water and to help people suffering from water shortage in drought-affected areas around the world.

Infrastructure:

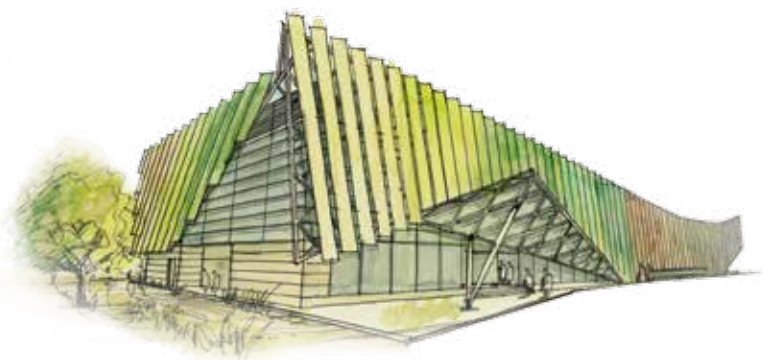
The R&D centre includes indoor laboratories, to study and test the reliability of systems. The outdoor laboratories will conduct field tests of techniques and tools.

Indoor laboratories include a drone lab, which makes use of 3D-printing technology. The 4 main labs include Electronics Laboratory, Software Laboratory, Mechanical Laboratory, and Prototype Laboratory. The outdoor area is for field tests.

DEWA will make use of 3D printers in the drone lab to produce models, study technology, and study the ability to integrate these technologies, to enhance smart grids. DEWA will also study the potential of using 3D printing technology to develop spare parts, and improve the efficiency of drones in maintenance and operations. DEWA also conducts research on potential future applications for this technology in cooperation with research centres and universities around the world to support DEWA's innovation and creativity strategy.

The Electronics Laboratory will conduct electrical design and repair services for drones. It will develop and provide DEWA with innovative products, research, and educational solutions for 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, and Open and Big Data.



IPP model

DEWA adopts the IPP (Independent Power Producer) model as a successful global mechanism to develop the park's projects. This model creates a competitive work environment, by establishing the means to provide the private sector with the resources required to invest in and develop major projects. The IPP model is efficient when completing infrastructural projects, combining the specifications of the public sector, and developing an environment to facilitate wise governance. This ensures the efficient management of resources, by using private sector investments to reduce the burden on the public sector, while making use of financial resources in other development projects that aid international economic growth. According to the numbers issued by the Global Green Growth Institute (GGGI) about UAE, GGGI noted that raising the annual investment to 2.4% of the GDP, to spread technology and enhance green efficiency in all economic activities, will increase economic growth by about 4-4.5% by 2030. This creating 160,000 new jobs, ensuring green growth and resources to limit effects on the environment.

Triple-Bottom Line

The Solar Park implements the triple-bottom line (TBL) related to sustainability in DEWA's strategic map. These include the three key dimensions of Sustainability: economic, environmental, and social. DEWA's long-term priorities include.

- **Environment:** The Solar Park will contribute to enhancing the efficiency of using the natural resources and reducing the carbon footprint.

- **Social:** The Solar Park supports DEWA's commitment to governance, work ethics, and Corporate Social Responsibility (CSR). It will also provide 1,100 green job opportunities to citizens and residents by 2020.

- **Economic:** The Solar Park will play a role in improving the efficiency of costs and outcomes. It will attract investments, while supporting economic sustainable growth in Dubai and diversifying the local supply chain.

DEWA is the first organisation in the region to use GRI, to develop sustainability reports focused on the electricity sector. In 2014, DEWA was also among the first 15 organisations in the UAE to issue a report using the GRI-G4 Guidelines, and is one of only 55 international service organisations in the electricity sector that issue reports on sustainability in accordance with these standards.



Feature Story



Increasing awareness on energy and water conservation for generations to come

Energy and water are key factors in our lives: major elements for quality of life, development and well-being. It is vital to conserve electricity and water as they are national assets. Everyone must preserve these resources for future generations, as they are blessings that must be conserved.

The wise leadership of the UAE has said we must prepare to bid farewell to the last drop of oil. This is based on a vision that recognises the significance of renewable energy in achieving balance between development and sustainability. This balance will help preserve the rights of future generations to live in a clean, healthy, and safe environment. Different public and private organisations work to achieve this vision and consolidate sustainability to ensure a brighter and happier future. This will be happen through projects and initiatives to increase the our use of clean energy.

DEWA attaches great importance to the rational use of energy in its efforts to achieve the objectives of Dubai Clean Energy Strategy 2050 launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai aimed at establishing a sustainable model of energy conservation that can be exported to the whole world. Our goal is to become the city with the lowest carbon footprint in the world by 2050; supporting the Dubai Integrated Energy Strategy to reduce energy demand by 30% by 2030.

DEWA is conducting various awareness campaigns to achieve its development objectives and strategic plans for enhancing environmental sustainability in Dubai.

This supports the directives of HH Sheikh Mohammed bin Rashid Al Maktoum to achieve the sustainable and comprehensive development of the Emirate. DEWA's awareness campaigns also support the Dubai Plan 2021 goal to transform Dubai into a smart, integrated, and connected city that uses its resources sustainably and is capable of providing all the elements necessary for a clean, healthy and sustainable environment.

'Let's Make this Summer Green'

DEWA has launched an awareness campaign under the theme 'Let's Make this Summer Green' via social media as well as other audiovisual media channels to promote the rational use of electricity and water during the summer months. The campaign ran from June to August. DEWA's Conservation Team has also organised lectures and field visits to government organisations and departments, private companies, malls, and union centres to raise community awareness on the importance of the rational use of resources as temperatures rise and the holiday season approaches.

Other activities and workshops have been organised by DEWA in collaboration with the General Authority of Islamic Affairs & Endowment, the Dubai International Holy Quran Award, KidZania, and the Department of Tourism and Commerce Marketing's Modhesh. The latter encourages children to interact with Hayat and Noor, characters that represent electricity and water, to use resources efficiently. Under the umbrella of the 'Let's Make This Summer Green' campaign, DEWA has launched several other related awareness campaigns.

Peak Load Reduction Campaign

One of these campaigns is the Peak Load Reduction campaign to encourage customers to cut down on energy use during the peak load period of 12-5pm in the summer.

The campaign also encourages people to reduce their use of electrical appliances that consume large amounts of energy, such as washing machines, hair dryers, kettles, and electric furnaces. These appliances should be used outside of peak load hours to reduce pressure on the power grid. DEWA strives to familiarise customers with methods that contribute to reducing the load on the power grid, such as using their appliances during non-peak-load hours.

Air-conditioning accounts for about 60% of electricity used. Raising the temperature of the air-conditioning system even slightly enables consumers to lower their electricity bills and increase the overall reliability and efficiency of the system.

DEWA urges its customers to follow certain guidelines to rationalise their consumption of water and electricity. These include using energy-saving light bulbs and efficient home appliances, setting the air conditioning to 24 degrees Celsius, and refraining from using appliances that consume large amounts of electricity during peak load hours. DEWA encourages the public to follow these tips to reduce pressure on the electricity network. The guidelines also include tips for fixing water leaks and rationally using water.

Tips before Travelling Campaign

DEWA has launched its annual Tips before Travelling campaign for the fourth year in a row. The campaign includes a number of tips and guidelines for customers to follow before going on summer holidays. It also helps conserve electricity and water while maintaining the households of customers. These tips help to protect natural resources and reduce costs. DEWA's Tips before Traveling campaign encourages members of the community to reduce energy and water use in their homes while out of the country for extended periods. Tips include turning off lights and unplugging unnecessary electrical appliances such as water heaters and air conditioners which consume significant amounts of energy.

To reduce water use, DEWA encourages all its customers to ensure that there are no leaks within their homes by checking all taps and internal wiring in their bathrooms and kitchens. This can make considerable savings as leaks can waste over 32,000 gallons of water per year. DEWA also advises customers to ensure they turn off all taps before leaving the house.

One Drop Makes A Difference

This campaign promotes to residents in Dubai the importance of saving water by adopting environmentally-friendly practices to ensure the sustainability of water, for generations to come.

Feature Story



'Engineers of the Future' Summer Camp

DEWA organises several activities and initiatives for children to prepare them for their future careers. This complements DEWA's efforts to achieve the vision of our wise leadership to foster a culture of innovation and establish a knowledge-based economy. The summer camp prepares the next generation of engineers, technicians, and professionals to meet future demands and manage ongoing developments.

DEWA has successfully concluded its first Summer Camp held under the theme 'Engineers of the Future.' The camp was intended for children between the ages of 12-15 and took place from 7-18 August 2016 as part of the 'Reading is Positive Energy' exhibition organised by DEWA in cooperation with the Mohammed bin Rashid Al Maktoum Foundation (MBRF) at Gate 2 of Zabeel Park. The summer camp encouraged innovation and creativity among children, while providing an educational

platform for them to develop their skills in engineering, electricity, mechanics, science and math.

It also featured specialised training programmes that enabled children to develop their communication and teamwork skills.

Daily activities and competitions were organised to prepare the young participants for their future careers while motivating them to learn more about science and technology.

Best Consumer Award

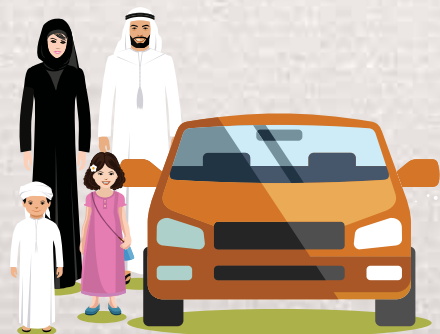
DEWA is now accepting registrations for the 12th Best Consumer Award which encourages residential customers to use energy sensibly and raises awareness on the importance of adopting environmentally-friendly practices. The Award reflects DEWA's efforts to encourage customers to reduce their daily use of electricity and water, and supports its strategy

to lessen energy demand to preserve and sustain natural resources. This year, the Best Consumer Award has two categories: Villas and Apartments. To qualify for the award, customers have to reduce their electricity and water use by at least 15% from 1 January to 31 December 2016, compared to the same period in the previous year.

Best Consumer Award 2016

The Best Consumer Award encourages customers and households to adopt best practices in conservation and how to protect the environment; rewarding those making sustainability a way of life. DEWA hopes that this initiative makes a positive impact that reflects on the lifestyle of the people and the community. DEWA wants a society that aspires to do better.

Last day for registration, 31 December 2016.



The award winners will receive these cash prizes!

First Place

15.000

AED

Second Place

10.000

AED

Third Place

5.000

AED



CONSERVATION AWARD

FOR A BETTER TOMORROW
2017-2016

Conservation Award - For A Better Tomorrow

DEWA has instituted the Conservation Award - For A Better Tomorrow in partnership with the Knowledge and Human Development Authority (KHDA). The Award is a high-value accolade for educational institutions and teaching establishments in Dubai in honour of their adoption of best practices in electricity and

water consumption and usage. The award programme also highlights the achievements of individuals such as students, staff and faculty members and the facility management team and administration of the participating institutions. Now in its 12th year, the Award is an integral part of DEWA's strategic initiative to combat global warming and climate change in partnership with the KHDA.

This is the 10th Conservation Award organised in cooperation with the KHDA and Dubai Educational Zone, and has helped achieve significant results year after year. DEWA has previously honoured 162 educational institutions and communicated the message of sustainability to over 273,000 students. Since the inception of the Award, participating educational institutions, students and faculty members have helped save 125 gigawatt hours of electricity and 1.024 billion imperial gallons of water. This has contributed to a

nearly 67,000-tonnes reduction in carbon dioxide emissions, with financial savings worth AED 90 million.

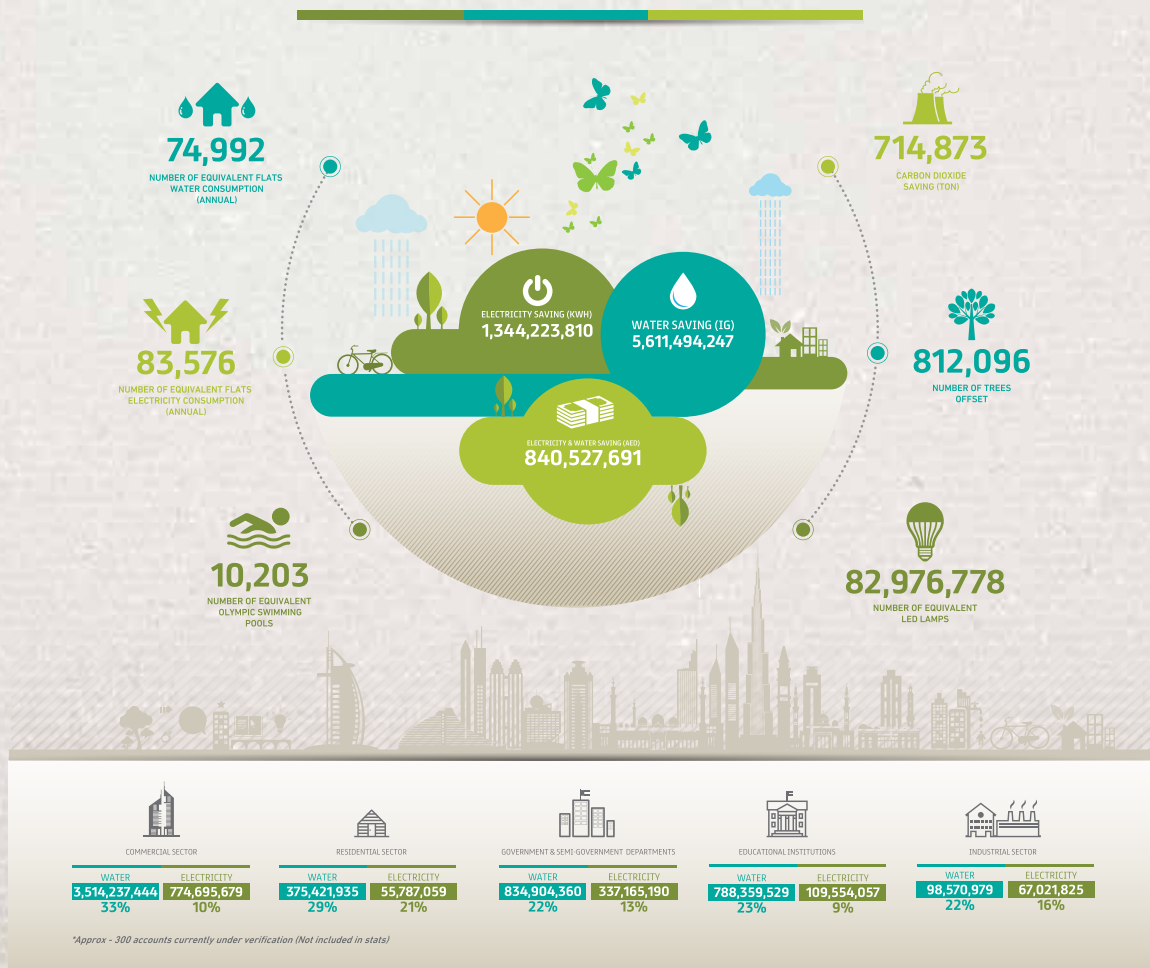
The award contributed to significant savings in 2015, with Facilities Management making a 7% cut in electricity use and a 20% drop in water use. The Home Consumer segment posted a 10% cut in electricity use and a 15% drop in water use.

Total electricity savings were 12 million kW, while 102 million gallons of water were conserved. This cut carbon dioxide emissions by nearly 5,500 tonnes, saving of AED 10 million.

The winners included 18 educational institutions – including nurseries, kindergartens, primary and secondary schools, universities, colleges, special-needs centres and adult education centres.

The six best conservation teams from these categories, and three winners of the Home Consumers category were also recognised.

ACCUMULATED ELECTRICITY & WATER SAVINGS 2009 - 2015



Environment & Climate Change Ambassadors raise awareness about sustainability and environmental responsibility

There is a clear link between the health of the Amazon and the health of the planet. The rain forests, which contain 90 to 140 billion metric tons of carbon, help stabilise local and global climate. Deforestation may emit significant amounts of carbon, which could have catastrophic consequences globally. The UAE was one of the first countries to support the global response to climate change and one of the first nations to endorse the extension of the Kyoto protocol in 2005 to limit greenhouse gases in industrial countries. It was the first Arab nation to sign the Copenhagen Accord at COP15 to limit emissions.

In adherence with the long-term national Green Economy for Sustainable Development initiative, launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and

Ruler of Dubai, to enhance cooperation with the international community to tackle climate change, this reflects our commitment towards adopting the best sustainable practices and renewable energy projects.

DEWA sends employees around the world annually, as part of its Climate Change Champions programme. During the initial year of the programme, DEWA sent 5 employees to Antarctica to participate in the Leadership on the Edge Programme, which is organised by the 2041 International Antarctic Expedition to promote sustainability among youth and to encourage them to make to the right decisions in the preservation of natural resources. DEWA sent some employees on a special expedition to the Amazon Rainforest in Peru in May 2016. The expedition was planned based on the success of DEWA's last

expedition to Antarctica to highlight the effects of global warming, raise awareness about preserving Antarctica and stopping drilling and mining there by the time the international protection protocol expires in 2041.

Peru was the destination of choice because of the clearly-visible effects of climate change within the Amazonian rainforest. The expedition studied the effects of climate change on biodiversity, ecosystems and the inhabitants of the Amazon. Peru was chosen because of the clearly-visible effects of climate change in the Amazonian rainforest. The 12-day expedition focused on the desert coast, the cloud forests of the Andes, and the lowland rainforest. Once returning, the staff became Climate Change Champions and talked about the expedition, with the public, and employees.



A full-page background image of a lush tropical rainforest. Tall, slender trees with dense green foliage rise into the background. The foreground is filled with various types of ferns and other tropical plants, creating a rich, textured scene. Sunlight filters through the canopy, creating dappled light effects.

DEWA's preparations to support its ambassadors and to ensure the success of its expedition

DEWA is committed to meeting all needs and requirements to preserve our safety and health of its employees during their expedition to the Amazon Rainforest, including required medical vaccines. The ambassadors met Carlos Tavera, Consul General of Peru in the UAE, as part of preparations for our trip to Peru. Tavera taught them 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.

Climate Change Ambassadors

The importance of expeditions to improve the skills of climate change champions

The ambassadors noted that the expedition reflects the priority DEWA's gives to sustainability, based on knowledge, innovation, and sustainable green growth. The expedition also reflects DEWA's commitment towards developing employees and expanding their knowledge. The visit to Peru was a great chance to observe the real impact on nature caused by our modern lifestyle that we all contribute towards, allowing ambassadors to develop recommendations to raise awareness in regard to natural resources and sustainability. This will aid the authorities in establishing regulations to minimise the effect on nature. It was also a chance to come up with brilliant and innovative solutions for the current technological, economic and environmental energy challenges we all face such as climate change.



AHMED AL MARZOUQI

I wanted to observe the impact that humans have on the Amazon, and show our commitment towards preserving the rainforest, while recommending means of achieving this. The rate of deforestation has increased to greenhouse gases. These recommendations will not only be limited to the Amazon, but can be applied throughout all of the world's forests.

Visiting the Amazon is important because it is an incredible opportunity to observe the impact humans cause on the environment, something we all play a part in. I am now able to offer my thoughts and recommendations in regard to increasing awareness about sustainability."

"Visiting the Amazon is important because it is an incredible opportunity to observe the impact humans cause on the environment, something we all play a part in. I am now able to offer my thoughts and recommendations in regard to increasing awareness about sustainability."



DALIA RAOOF

Dalia Maarouf says that the expedition helped her to gain a broader and more detailed understanding of the predominant causes for deforestation in the Amazon, its relationship to

climate change, human health, wildlife, ecosystems, and agriculture, and the steps we can take together to minimise and prevent this threat from ultimately destroying our planet. Moreover, she hoped to learn more about the effects that deforestation in the Amazon (and the resulting effect on climate change) would have on the UAE environment and community. Dalia realised that climate change is not selective, and targets communities worldwide. Armed with new knowledge on the subject matter and eye-witness experience of the events, I would empower my DEWA colleagues to be committed to confronting and managing climate change.

"Every action we take in this world has a direct or indirect impact on our Earth, and we have unknowingly (until now) been contributing to

the decay of our home planet since the rise of the industrial revolution. Going to the Amazon and becoming a DEWA Climate Change Champion has allowed me to broaden my foundational knowledge and views about the negative impacts of climate change today."



MEERA AL RASASI

"Through this expedition, I am able to channel my personal experience and share it with others in my community, advocating fighting against climate change on a much more personal level, I feel this has bigger impact than reading numbers and graphs on a page."





HAMAD JASSIM RAJAB

Hamad Jassim Rajab noted that he joined his colleagues in the expedition to Peru to raise awareness, together with his colleagues, about the actual problems that face the beautiful Amazon rainforests. "This has helped me find a common ground with society, to help in conservation and development programmes. I see this in a direct link with our vision at DEWA, in regards to sustainability. After being exposed to the complete picture, I shall serve as a DEWA ambassador for climate change and help in raising the community awareness about the issue through local and international workshops and seminars. It would be an enormous honour for me to play even a small part in saving our planet and help DEWA to achieve its vision to become a sustainable innovative world-class utility.

"We, the energy leaders of the immediate future, must come up with brilliant and innovative solutions for the current technological, economic and environmental energy challenges we all face such as the climate change. I am a staunch believer that one must contribute to society in ways outside the offices and labs. Getting the chance to live the moment and being exposed to the diversity of living creatures in the Amazon has significantly helped me understand the complete picture, and the vital role that we have to save our planet."



Rajesh Sreekumar noted that the experiences gained from this expedition have reformed me as a climate change ambassador, capable

of spreading the message of climate change and sustainability throughout the community. This reflects DEWA's understanding that no amount of technological advancement can replace the impact of a concerned human being sharing his personal experiences with everyone.

The Amazon/Antarctica Experience



HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, launched last June the Amazon/Antarctica Experience. The event was held at DEWA's head office, and allowed us, as well as the public, to learn about DEWA's expedition to Peru in 2016, and DEWA's expedition to Antarctica in 2015, to raise awareness about climate change and protecting the environment. The event was organised by DEWA's Sustainability and Climate Change department. DEWA employees enjoyed an exciting journey through the rainforest, and through Antarctica, which was re-created

within a large container connected to a dome. This raised awareness about the importance of protecting the environment and our natural resources for generations to come. The audience learned from these experiences, and the skills acquired from the visit to Ushuaia, Argentina. The audience were also able to experience the visit to Puerto Maldonado, in the Madre de Dios region of south-eastern Peru. Considered the most biologically diverse place on the planet, the region is a microcosm of the Amazon. The audience also learned about



RAJESH SREEKUMAR

"This expedition inspired me to become a true global citizen, enhancing my understanding of global climatic concerns. This is to engage an educational and generalist audience interestingly in an effective manner to drive the message of sustainability and the efforts of DEWA in that direction. I hope to inspire future generations by sharing my personal experiences of the Amazon with them."

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'eja people. The audience also learned ways to protect the forest, and restoring damaged areas of the rainforest, allowing the mitigation of climate change. The Champions also highlighted tropical forests, and their role in climate change.

DEWA first government organisation in Dubai to establish a 24/7 Cyber Defence Centre

DEWA is the first government organisation in Dubai to establish a 24/7 cyber defence centre, in adherence with the vision of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to make Dubai the smartest city in the world. DEWA's cyber defence centre was established to predict potential threats, ensure preventive measures are in place to protect data by monitoring DEWA's services and technical assets round the clock, handling incidents with care, and minimising risks.

"DEWA adopts strategic plans to enhance the performance of services, at the highest standards of accountability. The cyber defence centre is a major step towards ensuring information technology and reflects DEWA's ongoing commitment to adopt the best solutions and technologies, ensuring the safety, credibility, and accountability of services." said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.



... and launches 3rd phase of SAP



DEWA has begun implementing the third phase of the SAP-Business Planning and Consolidation (BPC) module, for planning and budgeting processes. BPC allows online budgetary requests across DEWA divisions, for Capex (Capital Expenditure) fund requirements, and Opex (Operational Expenditure) fund

requirements, along with approvals. The first phase of the programme was launched in 2009, with services focused on the commercial operation of customer services. This phase enhanced DEWA's ability to provide world-class services such as customer relationship management, invoicing, customer

service and support, electronic services, DEWA's electronic gate, and many more. The second phase was launched in 2012 and applied to major projects. Examples include Darahim for finance and accounts, Mawad for procurement and stores, Barq for new connections and handling complaints, Kawader for human resources, and Hawkamah for governance, risks, and compliance. In 2014, DEWA launched the third phase, which was sustainability. This phase included four projects related to corporate asset management for Generation (P & W) division (sustainability of production), Transmission Power division (sustainability of transmission), Water & Civil division (sustainability of water and civil), (Business Support) division (sustainability of business) and Finance division (sustainability of budget).

DEWA wins 3 Golden Globe Tigers Awards in Sustainability Leadership



DEWA has won three Golden Globe Tigers Awards in Sustainability Leadership. The awards are for Best Renewable Resources - Energy, Best Renewable Resources - Green Building, and Best Renewable Resources - Sustainable Transport, for the Green Charger initiative. DEWA received the awards during a special ceremony in Malaysia. The awards underline DEWA's intensive efforts to protect natural resources, and achieve sustainable development across all areas. HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, was proud of DEWA's achievements.

.. & wins Golden Shield Award and Certificate of Excellence from Arab Organisation for SR



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 (PVRO) seawater-desalination plant.

DEWA won the award for its technological innovation and development of its mobile PVRO plant desalinate and purify seawater and treat water from other sources, to produce potable water. The plant makes 7.7 cubic metres per day; meeting the needs of 513 people per day, according to the World Health Organisation (WHO). The plant is designed in a way that makes it easy to move and use.

wins International Star for Leadership in Quality Award for outstanding excellence and quality



DEWA has won the International Star for Leadership in Quality in the Gold Category from Business Initiative Directions (BID) for outstanding excellence and quality, in accordance with the QC100 criteria, for economic growth, leadership, technical development, and innovation. The Award was received by Marwan Al Zaabi, Vice President of Corporate Excellence at DEWA, on behalf of HE Saeed Mohammed Al Tayer, during the 20th International Star for Leadership in Quality Award ceremony held in Paris, France. Organisations, companies, businessmen, experts, academics, specialists in quality and excellence, and diplomats from around the world attended the event.

DEWA receives ISO 10004:2012 certificate for customer satisfaction



DEWA has successfully enhanced its track record by once again receiving the ISO 10004:2012 certification, for defining and implementing processes to monitor and measure customer satisfaction. HE Saeed Mohammed Al

Tayer, MD & CEO of DEWA, received the certificate from representatives of the international evaluating organisations. This certification enhances ongoing improvements to make customers happy, while exceeding their expectations.

All DEWA's initiatives are based on mutual interaction with our stakeholders. We listen carefully to their feedback, ideas and comments, and translate such ideas into services and initiatives meeting their needs and exceeding their expectations.

Al Tayer heads delegation to Spain

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, headed a high-level delegation from DEWA in an official visit to Spain, to enhance mutual relationships and exchange best experiences. The delegation gained insight into the achievements of Spanish companies, the best international practices in sustainable energy, the diversification of energy resources.

The visit aimed to build greater cooperation on the latest technologies, producing electricity via the use of solar energy through photovoltaic panels. The two sides also discussed Concentrated Solar Power (CSP).

The delegation included Nasser Lootah, Executive Vice President of Generation at DEWA, Waleed Salman, Executive Vice President of Strategy & Business Development at DEWA, Ahmed Abdullah, Senior Manager of External Communications at DEWA, Dr. Pedro Banda, Director Research & Development at DEWA, and Nebojsa Simic, Specialist of Inauguration of Production at DEWA. Al Tayer and the delegation visited the Abengoa Solucar complex in Seville, and the Gemasolar CSP Plant project being built by Torresol Energy in Seville, with a productive capacity of 19.9 megawatts (MW).

Al Tayer and the delegation were received by Hisham bin Faisal Alhegelen, General Manager of Abengoa Solar – SA, Javier Pariente, CEO of Abeinsa Business Development, and Antonio Gonzalez Casas, CEO of Abengoa Solar Espana SA. The Gemasolar CSP plant is the first commercial-scale CSP plant in the world. The electricity is generated through a central tower receiver that is also capable of storing heat.

The project provides electricity to about 25,000 homes in Andalusia, Spain. It also reduces carbon dioxide emissions by about 30,000 tonnes yearly.



DEWA honours second phase winners of the DEWA2021 Street Art competition



HE Saeed Mohammed Al Tayer, MD & CEO of Dubai Electricity and Water Authority (DEWA), honoured the winners of the 2nd phase of DEWA2021 Street Art competition, in the presence of Waleed Salman, Executive Vice President of Strategy and Business Development, along with other DEWA managers and employees. The winning team included 3 innovative female employees who created a design to symbolise one of the 5 strategic pillars of DEWA's Strategic Plan 2021, which is Excellence in Operation, and Smart Services. The team includes Wadha Al Saberi from the Distribution Power Division, Sheikha Obeid Hasan from the Strategy and Business Development Division, and Rawda Khouri, from Business Support and Human Resources Division.

DEWA implements 99 as part of Afkari initiative



DEWA has implemented 99 ideas submitted by its staff as part of the Afkari (Arabic for My Ideas) internal programme. Since the beginning of this year, staff submitted a total of 2,317 ideas through Afkari, which encourages innovation and creativity among DEWA's employees. Ideas submitted by DEWA staff include embedding Geographic Information Systems (GIS) in 132 kilovolt (kV) cables, forming a team to tend to the Information Technology (IT) needs of staff with disabilities, launching the Hayakom (Arabic for welcome) initiative for DEWA's added-value services to its customers, the Happiness Inspiration initiative to promote positive energy among staff, and raising internal awareness on sign language to achieve the happiness of people with special needs.

.. & organises third batch of training sessions for students of the Carbon Ambassadors Programme



DEWA organised the third batch of training sessions for 75 students of the Carbon Ambassadors Programme. The training sessions were conducted by Etihad Energy Service Company (ESCO), to involve the youth in achieving sustainable development objectives. The training sessions were held at DEWA's Sustainable Building in Al Quoz, and featured presentations and discussions regarding concepts, Energy Performance Contracting (EPC), and Super-ESCO. The training sessions also discussed project development, implementation, and ESCO's approach, with a focus on Monitoring and Verification (M&V), risks, and Dubai's approach in regard to ESCO's and Super-ESCO's. The sessions also included discussions on sustainability assessment in buildings using the LEED rating system.

DSCE joins UN's BEA partnership to double rate of building energy efficiency by 2030



Dubai Supreme Council of Energy has joined the Building Efficiency Accelerator (BEA) partnership, launched by the United Nations (UN), to double the rate of energy efficiency by 2030. Building efficiency policies can result in 25-50% reductions in energy demand from both new and existing buildings, saving money and reducing pollution.

Dubai to purchase new government electric and hybrid vehicles



10% of all cars to be ordered in the next few years by selected Dubai government bodies maintaining huge transportation fleets will be electric and hybrid vehicles, as per the new Dubai Green Mobility Initiative Committee. Reporting to the Dubai Supreme Council of Energy, a Dubai Green Mobility Initiative Committee was formed with an Executive and a Technical Committee to meet the targets to reduce carbon emissions and greenhouse gases in Dubai within the next four years.

DEWA receives ADWEA delegation



HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, received a delegation headed by HE Abdullah Al Musleh Al Ahbabi, Chairman of Abu Dhabi Water and Electricity Authority (ADWEA), at DEWA's head office in Dubai. This is part of a series of ongoing visits to consolidate cooperation between government organisations in the UAE to identify international best practices.

Dubai Supreme Council of Energy's 42nd meeting lists savings and results of Demand Side Management Strategy for 2015 and previous five years



HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy, chaired the 42nd meeting at its HQ in Dubai. HE Saeed Mohammed Al Tayer, Vice Chairman, HE Ahmed Buti Al Muhairbi, Secretary General, Saif Humaid Al Falasi, CEO of Emirates National Oil Company Ltd (ENOC), Abdullah Abdul Kareem, DG of the Department of Oil Affairs, Khalid Mohammed Sharif, Director of Food Safety at Dubai

Municipality, Waleed Salman, Vice Chairman of the Dubai Nuclear Energy Committee, Nasser Abu Shehab, CEO of the Strategy & Corporate Governance Sector at the RTA, and Frederick Chemin, GM of Dubai Petroleum took part. Participants presented the savings generated and the leading role the council to achieve this. They discussed the plan up to 2030 to continue the reduction of electricity and water use in Dubai.

Al Tayer inaugurates second Global Solar Leaders Summit



HE Saeed Mohammed Al Tayer, MD & CEO of DEWA inaugurated the second Global Solar Leader's Summit, which took place at Dubai World Trade Centre on 19 September 2016. The Summit highlighted the latest techniques in solar energy, and was attended by HE Dr Matar Al Neyadi, Undersecretary of the UAE Ministry of Energy, Waleed

Salman, Executive Vice President of Strategy & Business Development at DEWA, Marwan Bin Haider, Executive Vice President of Innovation and the Future at DEWA, Khawla Al Mehairi, Vice President of Marketing and Corporate Communications at DEWA, and 300 leaders and decision makers in renewable energy from around the world.

DEWA participate at Photovoltaica 2016 in Morocco



DEWA participated in the 2nd International Solar Energy Exhibition and Conference (Photovoltaica), organised under the patronage of HM Mohammed VI, King of Morocco from 7-9 September. Photovoltaica is organised by the Ministry of Energy, Mining, Water, and the Environment, with the Energy Investment Company, and the Research Institute for Solar Energy and New Energies.

DEWA awards Advisory Service Contract for 200MW CSP Power Plant at Mohammed bin Rashid Al Maktoum Solar Park

DEWA has awarded the contract for Independent Power Producer (IPP) Advisory Services for the 200MW Concentrated Solar Power (CSP) Plant to a consortium led by KPMG Lower Gulf Limited (Financial), alongside Mott MacDonald (Technical) and Ashurt (Legal). This is part of DEWA's efforts to make significant and steady progress in increasing the percentage of renewable and clean energy in the energy mix, and support the Dubai Green Energy Strategy 2050, launched by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to make Dubai a global centre of clean energy and green economy. Accordingly, DEWA released a tender on 26 May 2016 for leading international CSP consultants to submit their proposals for advisory services for the 200MW first project of the CSP plant. It will be operational by April 2021. DEWA will generate 1,000MW using this technology by 2030.

DEWA gives priority to people with disabilities



DEWA gives priority to people with special needs by launching initiatives to enhance its services for them. DEWA adopts a clear strategy based on the best international standards, to achieve its Corporate Social Responsibility, and to further integrate people with disabilities in to the community. DEWA is committed to employing people with special needs, by

placing them in positions suited to their disabilities, in adherence with DEWA's criteria for employment.

DEWA launched the Ash'ir initiative to aid people with hearing impairments. The initiative includes instant messaging, visual chat, and sign language features to help people with special needs directly communicate with DEWA's call centre.

The service is available via DEWA's smart app. The Omniyati initiative was also launched by DEWA to fulfil the wishes of employees with special needs. DEWA has also implemented a valet-parking service across all of its branches, a wheel chair service, and the Maraheeb initiative.

DEWA has designed its Customer Happiness Centres to be accessible to the disabled, by implementing road monitoring systems for people with special needs, as well as a specialised team to deal with people with visual and hearing impairments.

DEWA has provided customised services for the visually impaired with braille, in addition to a booklet on how to send complaints electronically.

DEWA has also implemented easier ways for people with special needs to pay their bills, and has provided tips on how to cut down on electricity and water.

DEWA launches annual peak load reduction campaign

DEWA has launched its annual Peak Load campaign, as part of the Let's Make this Summer Green initiative, to raise awareness about adopting a more sustainable lifestyle and rationalising electricity and water use to conserve natural resources, protecting the environment, and reducing Dubai's carbon footprint. The campaign encourages consumers to cut down on energy use during the peak load period of 12-5pm in the summer.

The campaign also encourages people to reduce their use of electrical appliances that use large amounts of energy, such as washing machines, hair dryers, kettles, and electric furnaces. These appliances should be used outside of peak load hours to reduce pressure on the power grid.



MD & CEO of DEWA visits Mohammed bin Rashid Al Maktoum Solar Park



The Mohammed bin Rashid Al Maktoum Solar Park

The Mohammed bin Rashid Al Maktoum Solar Park is operated and managed by DEWA and will be the largest single-site solar park in the world. The 13MW first phase became operational in October 2013, while the 200MW second phase will be operational in April 2017. It will produce 1,000MW by 2020 and 5,000MW by 2030. When completed, the project will achieve a reduction of approximately 6.5 million tonnes of carbon emissions annually.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, visited the Mohammed bin Rashid Solar Park, in Seih Al-Dahl, Dubai, to follow-up on the implementation of its projects, which support the Dubai Clean Energy Strategy 2050.

Al Tayer followed up on the progress of the second phase of the Mohammed bin Rashid Al Maktoum

Solar Park, which holds a capacity of 200 megawatts (MW), and will be operational by April 2017. Al Tayer also visited the water desalination unit at the Mohammed bin Rashid Al Maktoum Solar Park to check its progress. The desalination plant is powered by a photovoltaic array, and uses reverse osmosis technology to produce 50 cubic metres of drinking water a day.

Al Tayer visited the Innovation and R&D centres, which includes a centre dedicated for photovoltaic technologies, and another one for CSP technologies.

Al Tayer was briefed about the latest developments on the main AED 275 million 400/132kV substation, which has a conversion capacity of 1,515 megavolt amperes (MVA).

DEWA awards consultancy contract for 4th phase H-Station at Aweer



In July 2016, DEWA awarded a contract for international advisory services to develop the fourth phase of the H-Station at Aweer, worth AED 22.2 million. The consultants will test, supply, and install three gas turbines with a total capacity of 700 megawatts (MW). The first turbine will be operational by 1 January 2020, the second in March 2020, and the third in April 2020.

The power station is one of DEWA's most important projects, to help meet

the growing demand for electricity. The station is equipped with the latest control systems and technologies to reduce emissions. The turbines will be completely fuelled with natural gas. The H-Station at Aweer has a current total capacity of 1,974MW, consisting of 607MW for the first phase, 421MW for the second phase, and 946MW for the third phase. Once the 700MW fourth phase is complete, the station will have a total capacity of 2,674MW.

... & awards international advisory services contract for **reverse osmosis desalination plant**

DEWA has awarded an international company with an advisory services contract to develop a new plant to desalinate seawater using reverse osmosis at the Jebel Ali Power Station (JAPS).

DEWA is working to retrofit existing plants with photovoltaic solar panels. This will reduce carbon emissions in the future. The plants use multi-stage flash distillation (MSF) technology, and need to be connected to a central solar plant, so this includes the Mohammed bin Rashid Al Maktoum solar park. In adherence with its strategy, DEWA has chosen to use reverse osmosis technology, as they use about 90% less power than MSF technology.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA said "In Dubai our production capacity is 470 million imperial gallons per day (MIGD), 25 MIGD is produced using reverse osmosis (RO) technology. In Dubai, most of the plants use MSF technology, and only 6% use RO. MSF desalination is powered by the waste heat and is therefore fuel-free. This means that its carbon footprint is zero."

DEWA awards construction contract for 400 kV substation at **Hassyan Clean Coal Power Plant**

DEWA has announced the installation, and launching of the main 400 kilovolt (kV) substation, in addition to a number of other projects, worth a total cost of AED197 million, at the Hassyan Clean Coal Power Plant.

DEWA works to achieve the fifth pillar of the Dubai Clean Energy Strategy 2050, which focuses on creating an environmentally-friendly energy mix, with 25% coming from solar energy, 7% from nuclear power, 7% from clean coal, and 61% from gas by 2030, to make Dubai a global centre for clean energy

and green economy. The project also aims to develop the 400 kV electricity transmission networks, by connecting the substation with current electricity networks.

The Hassyan clean coal power plant is based on the IPP model, and will generate 2,400 megawatts (MW). The project has a planned commercial operation date of March 2023. This is also the first project of its kind in the region.



Activities



We are committed to fulfilling the directives of the leadership, to achieve the happiness of the community.

- HE Saeed Al Tayer MD & CEO of DEWA -

Dubai Electricity and Water Authority (DEWA) has measured the happiness of children who participated in the Reading is Positive Energy exhibition at Zabeel Park, Dubai. This supports the strategic objectives of the UAE, and the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to provide happiness for all segments of society. The directive ensures that all government policies, programmes, and services contribute to building a positive and happy community, and that the government should take priority in creating conditions capable of facilitating happiness for individuals, families, and employees.

The exhibition aims to instil a culture of reading, encourage members of society, and also features different cultural corners. These include the Reading Exhibition corner, Reading Positive Energy Forum, Children's Knowledge World, Smart Reading Corner, Reading Sensory Wall, Emirati Majlis, and a cultural café. The Children's Knowledge World Corner features story-telling sessions that involve children and mothers telling stories and learning from each other. The Reading Sensory Wall helps students to write their own stories using their sight, touch, and hearing. The

DEWA is the first government organisation in the UAE to measure the happiness of children



Smart Reading Corner provides the latest smart technologies and devices that help readers and motivates people to read. At the 'Today's Children Read for Yesterday's Children' programme, children read short stories to young adults.

DEWA is among the first government organisations to implement the Happiness Index initiative, which was launched by HH Sheikh Mohammed bin Rashid Al Maktoum. DEWA has also launched a number of initiatives to enhance happiness among stakeholders,

including restructuring the Employee Relations department and renaming it the Employee Happiness department. DEWA has adopted a strategy to achieve the happiness of its employees. This includes defined strategic objectives and indices, to ensure the implementation of a planned framework. In January 2016, DEWA launched the 'Employee Happiness Pulse,' which is a new tool that adheres to the directives of DEWA's top management, to instantly measure the happiness of its staff.



DEWA Customer Service become Customer Happiness



HE Saeed Mohammed Al Tayar, MD & CEO of Dubai Electricity and Water Authority (DEWA), has declared that, "DEWA has changed the name of its Customer Relations division to the Customer Happiness division, also changing the name of its Customer Relations department to Customer Happiness department. The names of DEWA's Customer Service Centres have been changed to Happiness Centres, managers and directors of customer services have now become Happiness Ambassadors, and the front desk Stars of Service employees have now become Stars of Happiness."

"DEWA was the first government organisation to implement the Happiness Meter, in support of the Happiness Meter initiative, launched by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE, and Ruler of Dubai. In February 2015, DEWA adopted the use of smart devices to measure the public's level of satisfaction with its services. DEWA has developed procedures to analyse, and coordinate with the results of the Happiness Meter, which are instant and ongoing. This system was later adopted by all of DEWA's customer service centres.

DEWA has also installed smart screens to enable management to monitor the happiness of customers and adopt immediate improvement procedures," added Al Tayar.

"The preliminary results of the Happiness Meter were excellent and support DEWA's vision and the ambition of its management and staff. The Happiness Meter exceeded 98% in the first few days of its launch. According to the final results issued by Dubai Smart Government, DEWA's Happiness Meter registered a result of 98% for 2015," concluded Al Tayar.

... & innovative services make customers happy

DEWA provides world-class government services and adopts the best international practices, to make people as happy as possible to support the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, so that all government policies, programmes, and services will contribute to building a positive and happy community, and that the government should take priority in creating conditions capable of facilitating happiness for individuals, families, and employees. This also supports the UAE Vision 2021 to promote sustainable development and the welfare of citizens and residents.

"To implement the directives of HH Sheikh Mohammed bin Rashid Al Maktoum, we strive to improve all government services and become

leaders in our sectors. HH Sheikh Mohammed bin Rashid Al Maktoum once said, 'We always seek to be number one. In the UAE and Dubai, we are number one in terms of investment, security, quality of stable life, economic and social progress and infrastructure,'" said HE Saeed Mohammed Al Tayar, MD & CEO of DEWA.

Al Namoos Service

DEWA's Al Namoos service is tailor-made to provide consultants and contractors with electricity connections of up to 150 kilowatts (kW) within 10 days. DEWA has upgraded its procedures for getting electricity. These procedures have been simplified from 3 to 2 steps, reducing the time to complete them from 35 to 10 days. The first step now only takes 8 days, and includes the application for electricity connections through low-voltage cables,

with the first monthly bill due after the electricity is connected.

DEWA strives to meet customer needs by working on innovative ways to elevate its service levels according to the highest standards of efficiency and reliability.

Easier bill payments

DEWA continuously strives to facilitate bill settlements and save the time and effort of its customers. DEWA has made provisions for its customers to pay their bills by various means such as the DEWA website (ePay), mobile devices (mPay), DEWA Customer Service Centres, DEWA's Drive-Thru Service at Al-Wasl and Umm Al Ramool Customer Service Centres, Etisalat public payment machines, at Petrol Stations (ENOC/EPPCO), Emirates Post Office branches, direct debit, ATM machines, teller counters, and phone banking.



Khawla Al Mehairi

Chairperson of DEWA's Women's Committee

Emirati women are active contributors to excellence and development

HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai has described women as “partners in development, generation makers, mothers of martyrs, and the pride of the nation.” The words of His Highness summarise the status of women in the UAE whose experience in empowerment and the post-empowerment phase have become a role model at all levels. Emirati Women are appreciated all over the world, and top regional and international indices. They have proved their success and excellence globally thanks to the vision of the leadership who believe in the capabilities of women, trust and encourage them, and provide them with a motivating environment that allows them to unleash their full potential. This vision has become the beacon that guides government and private organisations in the UAE in their quest to support working women.

We are proud that DEWA is currently one of the leading government organisations in the UAE to empower women both professionally and socially. DEWA is the largest government organisation to employ women in technical positions within the energy sector in Dubai. DEWA employs 1,785 female staff in its operations, 601 work in engineering and other technical positions. 78% of DEWA's female workforce comprise Emirati Nationals. 50 out of 67 of our community programmes are managed by female staff. 60% of the employees who lead the environmental awareness and conservation programmes and community outreach programmes are women.

With support from DEWA's top management, DEWA's Women Committee, which was established in 2010, adopts a comprehensive organisational approach that explores the different aspects that matter to women and translates these into plans and programmes that develop women's personal and life skills, while providing a positive and motivating work environment, enabling them to balance their professional and family lives. This contributes to the empowerment of society through women. These efforts contributed to achieving 81% satisfaction among female employees, compared to 79% among their male counterparts. DEWA's female staff enjoy a secure, stable environment, which allows them to grow their skills and abilities and motivates their creativity and innovation. DEWA strives to make creativity and innovation a daily practice and an organizational culture that encourages a positive competition.

DEWA organises Second Emirati Women's Forum

To celebrate the Emirati Women's Day declared by Her Highness Sheikha Fatima bint Mubarak (Mother of the Nation)

DEWA has organised the 2nd Emirati Women's Forum, which was attended by HE Dr Thani bin Ahmed Al Zeyoudi, Minister of Climate Change and Environment, HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, and a number of government and female leaders in the UAE. Many of DEWA's female staff and staff from government and private organisations also attended the forum. In his speech at the forum, the Minister discussed women and the environment. Dr. Rafia Ghubash, Founder of the Women's Museum, talked about Emirati Women in the past and present. HE Hessa Buhumaid, Assistant Director-General for Government Services in the Prime Minister's Office, talked about women and excellence. Maryam Al Shamsi, Senior Space Science Engineer, talked about Emirati Women in engineering. Khawla Al Mehairi, Vice President of Marketing and Corporate Communications of DEWA and Chairperson of DEWA's Women's Committee, gave a speech about DEWA's efforts in women's empowerment.

"Women's empowerment in the UAE began with the establishment of the union, with unlimited support from the Founding Father, the late Sheikh Zayed bin Sultan Al Nahyan who was a strong supporter of women."

"Today, we are witnessing the fruit borne by the hard work of the wise leadership. UAE women now constitute 66% of the public sector's workforce, 30% of which are in senior posts. Emirati women have become major contributors to sustainable development, and occupy the highest positions in the sovereign, executive, and legislative authorities, as well as their social, local and international activities," said Al Tayer.

"For over four decades, the 'Mother of

the Nation,' HH Sheikha Fatima bint Mubarak, Mother of the Nation, has played a major role in empowering Emirati women. Dedicating this day each year is a significant milestone in the journey of Emirati women, and declaring 2016 as the 'Year of Women and Innovation,' is another important step for women's empowerment, which was started by the late Sheikh Zayed bin Sultan Al Nahyan," said Al Mehairi. DEWA today is one of the leading government organisations to empower women both professionally and socially. DEWA is the largest government organisation to employ women in technical positions within the energy sector in Dubai. With support from DEWA's top management, DEWA's Women Committee was established in 2010, and adopts a comprehensive approach that explores the different aspects that matter to women. It translates these into

plans and programmes that develop women's personal and life skills, while providing a positive and motivating work environment, enabling them to balance their professional and family lives. This has a positive effect, not only on DEWA, but will also contribute to the empowerment of the community. One of our biggest priorities is to create a working environment capable of enabling the empowerment of society through women.

There are 266 female employees in managerial positions in DEWA. Female staff were given over 25,000 training opportunities in the past three years in addition to 125 scholarships. Until this year, 163 female fresh graduates trained in DEWA. Out of this number, 100 are graduates in engineering and other specialised areas. DEWA has supported 45 female employees through its annual mass wedding, and 35 female staff for Hajj.



Activities



In 2015 and 2016, 60 Emirati female students and staff took part in the Carbon Ambassadors Programme, which DEWA organises in cooperation with UNDP. Over 7,500 volunteering hours were contributed by DEWA's female staff out of 12,000 volunteering hours. This is over 50% of the total volunteering hours. 50 out of 67 of DEWA's community programmes are managed by female employees. 60% of the employees who lead the environmental awareness and conservation programmes and community outreach programmes are women. DEWA is one of the first government organisations to establish child care centres to support working mothers. Today, DEWA has the largest

number of nurseries in comparison with other government organisations in Dubai.

DEWA's nurseries can accommodate up to 175 children. To enhance the participation of Emirati women in sports and support the Emirate's efforts to promote women sport, DEWA has organised many sports events for its female staff in cooperation with Dubai Government organisations. DEWA has established various women's sports teams that have achieved remarkable results despite them participating for the first time. These efforts contributed to achieving 81% satisfaction rate among female employees, compared to 79% among their male counterpart.

At the forum, Al Tayer honoured the partners of DEWA Women's Committee, Dubai Women Establishment, Dubai Women's Association, and the Media Office of the Government of Dubai. He also honoured DEWA's sports team, and the outgoing and new members of the Women's Committee.

The forum featured a video about the achievements of the Women's Committee and DEWA's efforts in women empowerment. DEWA's female staff expressed their appreciation of the Women's Committee work and the support extended by Al Tayer. They also thanked the Women's Committee's for organising the Emirati Women's forum for the second year in a row.



Dubai is a global model for energy efficiency, renewable energy, sustainability, creativity and innovation

Dubai to host the Solar Decathlon in 2018 and again in 2020

DEWA works to transform Dubai into a global model for energy efficiency, renewable energy, sustainability, creativity and innovation, and encouraging investment opportunities in the renewable energy sector. DEWA cooperates with different local and international private and government organisations, to achieve the Dubai Clean Energy Strategy 2050.



In adherence with the words of HH Sheikh Mohammed bin Rashid Al Maktoum, who once observed, "Every investment in the development of clean energy sources is at the same time an investment to protect the environment for future generations," Dubai will host the Solar Decathlon in 2018 and 2020. The decathlon was organised by the Dubai Supreme Council of Energy, DEWA, and the US Department of Energy, in cooperation with universities from around the world. The first Solar Decathlon will be held in 2018, and the second in 2020 to coincide with the World Expo 2020, in Dubai, whose theme 'Connecting Minds, Creating the Future' fits with this distinguished international competition. DEWA and the Supreme Council have carefully selected the participating teams. Competition prizes total AED 10 million.

"The UAE, under the directives of our wise leadership, has taken an early start to bid farewell to the last drop of oil. The Decathlon will be a unique opportunity for university students to gain important experience, implement the theories they learn, and demonstrate their skills and capabilities in innovation, design, and achieve a sustainable lifestyle that ensures continuity of these projects locally, and regionally. The competition will also position Dubai as a global

model for energy efficiency, renewable energy, sustainability, creativity and innovation, and encouraging investment opportunities in the renewable energy sector," said HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy and MD & CEO of DEWA.

"The UAE's participation and hosting of this competition for the first time in the region is a great chance for the UAE's University students to acquire the skills needed to pursue careers in sustainability, and renewable energy sources," added Al Tayer.

Dubai is a meeting point for innovators

During the Solar Decathlon Middle East, universities will meet to design, build, and operate energy self-sufficient houses. Teams will compete to adapt their designs to combat the seasonal heat, dust and high humidity experienced by the region. The participants have to design, build, and operate sustainable mock-ups of solar-powered houses, which are cost-effective and energy-efficient, while preserving the environment and taking into account the region's climate.

Several teams from different local and international universities, including the winning teams of 2014 and 2015, will compete to fully-design operational and energy-efficient solar houses, and build

them to contribute to environmental preservation, away from traditional methods of construction and design. Qualifiers will be announced in October and the winning team will be decided based on cost-efficiency, unique design value, ability to preserve energy, and the overall efficiency of their house designs.

Preparations ahead of the decathlon

The Supreme Council invited international university teams who wish to participate in the Solar Decathlon Middle East to register on the competition's website before June this year. The selected teams will be announced in October.

DEWA is organising this competition in connection with the Prime Minister's Office and the Museum of the Future, the Ministry of Energy, Dubai Police, Dubai Municipality, and the Roads and Transport Authority. The Decathlon is a unique opportunity for university students to gain important experience, implement the theories they learn, and demonstrate their skills and capabilities in innovation, design, and achieve a sustainable lifestyle that ensures continuity of these projects locally, and regionally.

Workshops were also organised for the Deans and Chancellors of engineering faculties, and GCC-based universities. 20 teams will take part. The competition, which will take place for the first time in the Middle East and Africa after its success in the US, Europe, China, Latin America and the Caribbean. University teams will have to design, build and operate solar-powered houses that are cost-effective and energy-efficient, while taking into account the region's climate.

About the Competition:

The United States of America was the first to host the university Solar Decathlon in 2002 and then it was decided to organise it every two years in the United States. The Solar Decathlon was held in Irvine, California in 2015. Since 2010, the US Department of Energy has helped countries that want to host the competition as it supported the Solar Decathlon Europe 2010–2012, (Madrid, Spain), Solar Decathlon China 2013 (Datong), and Solar Decathlon Europe 2014 (Versailles, France).



The UAE Water Aid Foundation is our gift to the humanity

The UAE Water Aid Foundation (Suqia) is a humanitarian initiative reflecting how the wise leadership of the UAE is committed to supporting the humanitarian efforts all over the world. The late Sheikh Zayed bin Sultan Al Nahyan was a figure of benevolence to the world, as are his sons, who are always keen to tend to the needs of the less fortunate.

In June 2014, HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, launched the UAE Water Aid Foundation (Suqia) to provide clean water to five million people worldwide. Suqia managed to raise AED 180 million in 18 days, to provide clean drinking water to 7 million people around the world, in cooperation with the Emirates Red Crescent Authority. In March 2015, HH Sheikh Mohammed bin Rashid Al Maktoum issued a law establishing Suqia as non-profit organisation, to enhance the sustainability of the initiative in cooperation with DEWA.

Suqia's R&D projects

Include reverse osmosis of seawater by a photovoltaic desalination plant, and

water purification using solar technology with a capacity of 7.7 cubic meters per day. Suqia uses solar energy to desalinate seawater at the Mohammed bin Rashid Al Maktoum Solar Park, which is capable of storing electricity at 50 cubic metres per day.

The Foundation is supporting sustainable development for all mankind by creating and supporting different initiatives and humanitarian aid campaigns, in line with its commitment to enhance the UAE's international position, and to improve the living conditions of poor and disaster-stricken areas, as well as support international efforts to provide clean drinking water, as defined by His Highness Sheikh Mohammed bin Rashid Al Maktoum.

Mohammed bin Rashid Al Maktoum Global Water Award

HH Sheikh Mohammed bin Rashid Al Maktoum launched the Mohammed bin Rashid Al Maktoum Global Water Award. The initiative has allocated USD \$1 million to find sustainable solutions to water shortages internationally, particularly by using solar energy for desalination and

purification. Suqia manages the award under the umbrella of the Mohammed bin Rashid Al Maktoum Global Initiatives. The Mohammed bin Rashid Al Maktoum Global Water Award comprises three categories:

- **Innovative Projects Award** (Small and Large projects)
- **Innovative Research & Development Award** (National and International institutions)
- **Innovative Youth Award.**

The award is given to innovative projects and organisations that find sustainable solutions to the issue of water scarcity, using solar energy to purify and desalinate water. The Innovative Projects category is for organisations that succeed in innovating distinguished projects to produce, desalinate, or purify water using solar power. This category consists of two sub categories:

- **The Small Projects category** is for projects by for-profit or non-profit companies, and government or non-government organisations. Projects must have a capital expenditure of up to USD 10 million.

- **The Large Projects category** is for projects by for-profit or non-profit companies, and government or non-government organisations. Project must have a capital expenditure exceeding USD 10 million.

- **Innovative Research & Development category** must submit innovative technologies or a prototypes for using solar energy to produce, desalinate, purify, or effectively manage water resources. This has two sub-categories:

- **The National Institutions category** is for educational or non-profit institutions and research centres in the UAE.

- **The Innovative Youth Award** must present innovative technological solutions to address water scarcity exclusively using solar energy to produce safe drinking water.



DEWA launches Ideal Home Initiative to encourage a culture that conserves resources

DEWA has launched the Ideal Home initiative, in cooperation with Dubai Police, Dubai Municipality, Dubai Health Authority (DHA), the Community Development Authority in Dubai (CDA), Dubai Smart Government, Dubai Corporation for Ambulance Services, and the General Directorate of Civil Defence.

The initiative aims to enhance sustainability and support the process of sustainable development in the Emirate, through the rationalisation of electricity, water, and natural resources, and encourage the community to adopt a rational lifestyle, ensuring the sustainability of these resources for

generations to come. This is one of the ways DEWA is enhancing government work and achieving the happiness of society as a whole.

The initiative, which concluded in September 2016, recognises the household that does the most to achieve the highest standards of public health and safety, environmental protection, and raises awareness within the community about the best practices for an ideal home environment.

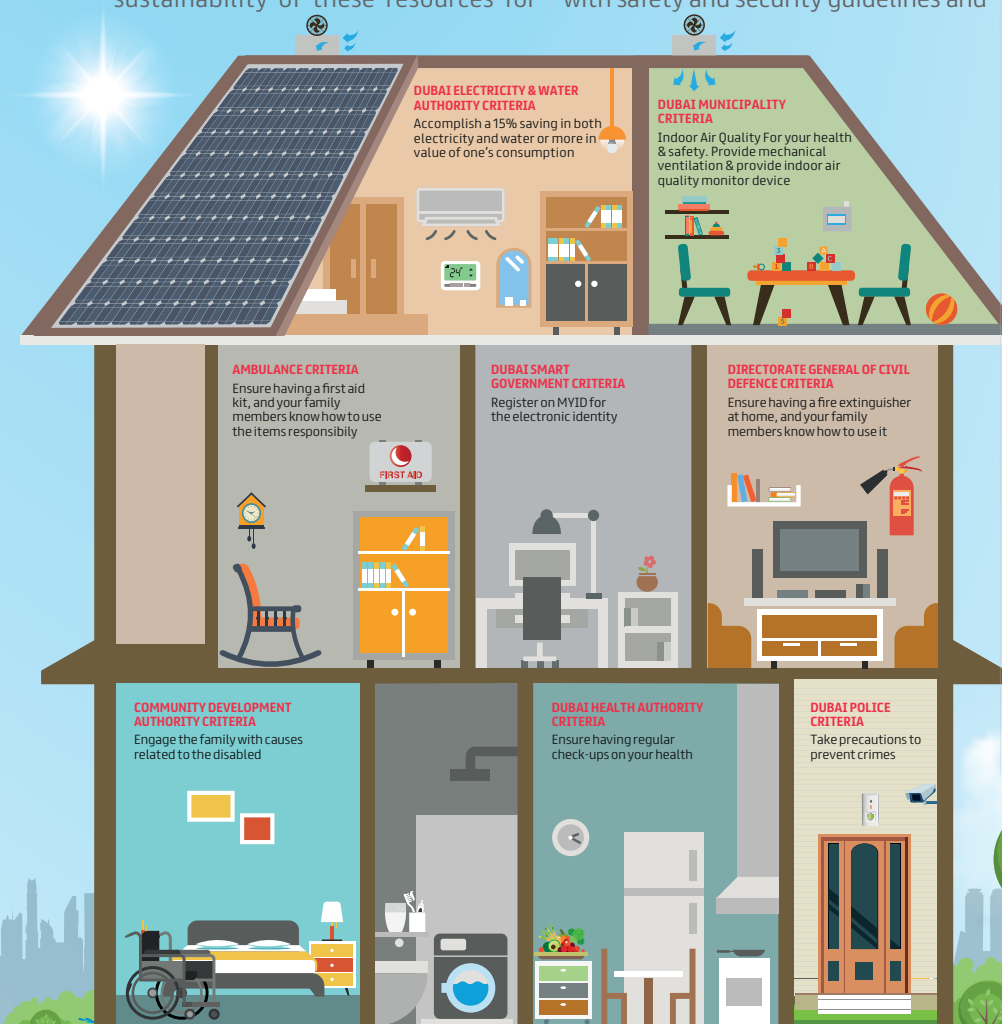
DEWA seeks to unify all relevant initiatives by Dubai government departments to consolidate a culture that conserves resources, and complies with safety and security guidelines and

the relevant laws and other factors that build an ideal community.

DEWA focuses on a number of factors to determine the winner of the competition. These include the individual use of electricity and water and family use based on monthly bills, efforts made to set air conditioning to 24 degrees Celsius, the use of solar energy in houses, the use of modern economical irrigation techniques, water tank cleanliness, the use of energy-saving light bulbs and environmentally-friendly appliances, and the family's awareness of the best ways to save electricity and water. This year, DEWA supported the Ideal Home initiative by giving candidates from The Best Consumer Award the chance to win the Ideal Home initiative.

Participation in the first phase of the initiative is confined to inhabitants of homes in areas which will be determined shortly, on condition that the family is living in the current property for at least one year. Also, the head of the household must be registered with Dubai Smart Government's initiative MYID, thus making it easier to link the data of participants.

DEWA is working to implement the Demand Side Management strategy in its projects. The strategy aims to reduce energy demand by 30% by 2030, and reduce carbon emissions to 16% by 2020. DEWA plays a major role in promoting a culture of rational consumption in Dubai, and takes priority in organising community campaigns to make a positive change in how we use electricity and water.



Partners



Smart Office App enhances work experience for DEWA employees



DEWA's services are not only to simplify procedures for customers, but also to assure the happiness and comfort for its staff by adopting the latest smart corporate solutions and applications. These help to provide integrated services, increase efficiency, streamline procedures, and meet work requirements. These efforts contribute to making Dubai the most business friendly city and a preferred investment destination. DEWA's efforts support the vision of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE, and Ruler of Dubai, to build a smart government that offers its services anytime, anywhere,

using connected integrated systems that improve the quality of life in Dubai. DEWA launched the Corporate Smart App in 2012 to serve its staff. The app features services that assist them with their tasks. DEWA constantly updates the app with services that suit staff needs and help them adapt to changes in work procedures

The Smart Office app includes many features that enhance the employees' overall experience, and efficiency with daily tasks. While making use of the new app, employees can finish various internal approval procedures regarding purchases, price comparisons, and electronic training orders, assuring

non-stop development of ongoing projects.

Through the application, employees can also sign in and out using GPS, and receive task lists related to smart meters, from any work location. The application allocates jobs to staff according to their location and updates them on work progress. Furthermore, DEWA provides other internal applications such as the meter reading application, which allows field employees to view the smart meter readings, and activate or disconnect water and electricity services in a smart, connected, and integrated way.

9

Learn from mistakes

"Failure is not failing to the ground; it is remaining there once you have fallen and the greatest failure is when you decide not to stand again," - HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai. Most success stories prove that people who achieved remarkable success face failure several times. One of the famous stories is the one about Thomas Edison, who tried more than 99 times to invent the light bulb. He did not call these attempts failure but unsuccessful attempts. Edison said: "I found 1000000 ways to invent a battery and tried 99 times to invent light bulb."

7

Integrity

Integrity is of paramount importance for those seeking to find and sustain long-term success. True success comes when you are a person of your word, when you have a pure conscience and when you have not cheated others on your way to the top. Dishonesty has a tendency to sneak back up on you, causing far more problems than the risk was worth taking in the first place.

5

Determination

You have the vision and you take action to write it down. You may even embellish that vision with passion and be quite disciplined in your approach. However, without the will to endure, you may not get very far. Life and work can be hard and even cruel. Remember, the race is not for the swift but rather those who persevere. Rather than allowing doubt to seep in and poison the process, you owe it to yourself to remain confident in your vision and your methodologies to get you there. Sure, you can adapt as needed along the way, but always know that success will ultimately be yours.

3

Passion

You may have the vision. You may write it down. You may have shared it with others, but without passion, that vision will likely wither. Passion for what you seek to accomplish should be almost palpable to the extent that others can see and feel your drive. The key is to match your vision with something you can be truly passionate about. Something that will keep you engaged every moment of every work day to bring you one step closer to the measure of success that you personally desire.

Vision

1

Every successful person at some point in their lives had a vision for what "could be," and set out in relentless pursuit of their dream. From Thomas Edison to Steve Jobs and countless success stories in between, visionaries are filled with a passion and purpose that drives them every day. Those who are short-sighted and unmindful of future consequences of their efforts, both the good and the bad, are more likely to fail than those who are thoughtful and perceptive in their approach. "In Today's fast-paced world, if you are not leading, you will be left behind. If you fall behind, it is likely that someone else capable, less creative and less prepared than you will take your place," - HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai.



Article :9 ways to achieve success

Humility

8

Humility, like patience, hard work and integrity, is a virtue. So, when you finally reach your destination of success, when your vision becomes a reality, do not forget your humble beginnings and all those who helped you to get to the top of the hill. Extend an attitude of gratitude and thankfulness. There is no such a thing as a self-made millionaire. People get there because others helped them get there.

If you have a vision, passion, take action, are determined and disciplined; if you get a coach or mentor; get in the right environment; and are honest and humble you will be well positioned to achieve your dream ... whatever that may be.

Support

6

No one is an island and there's strength in numbers. A mastermind group, coach or mentor is an excellent way to get motivated. Meeting regularly can be a great boost to your morale and provide new perspectives on your approach. The Internet makes it extraordinarily easy to find a coach or mentor and join a mastermind group that can help propel your vision to new heights and facilitate invaluable networking opportunities.

Discipline

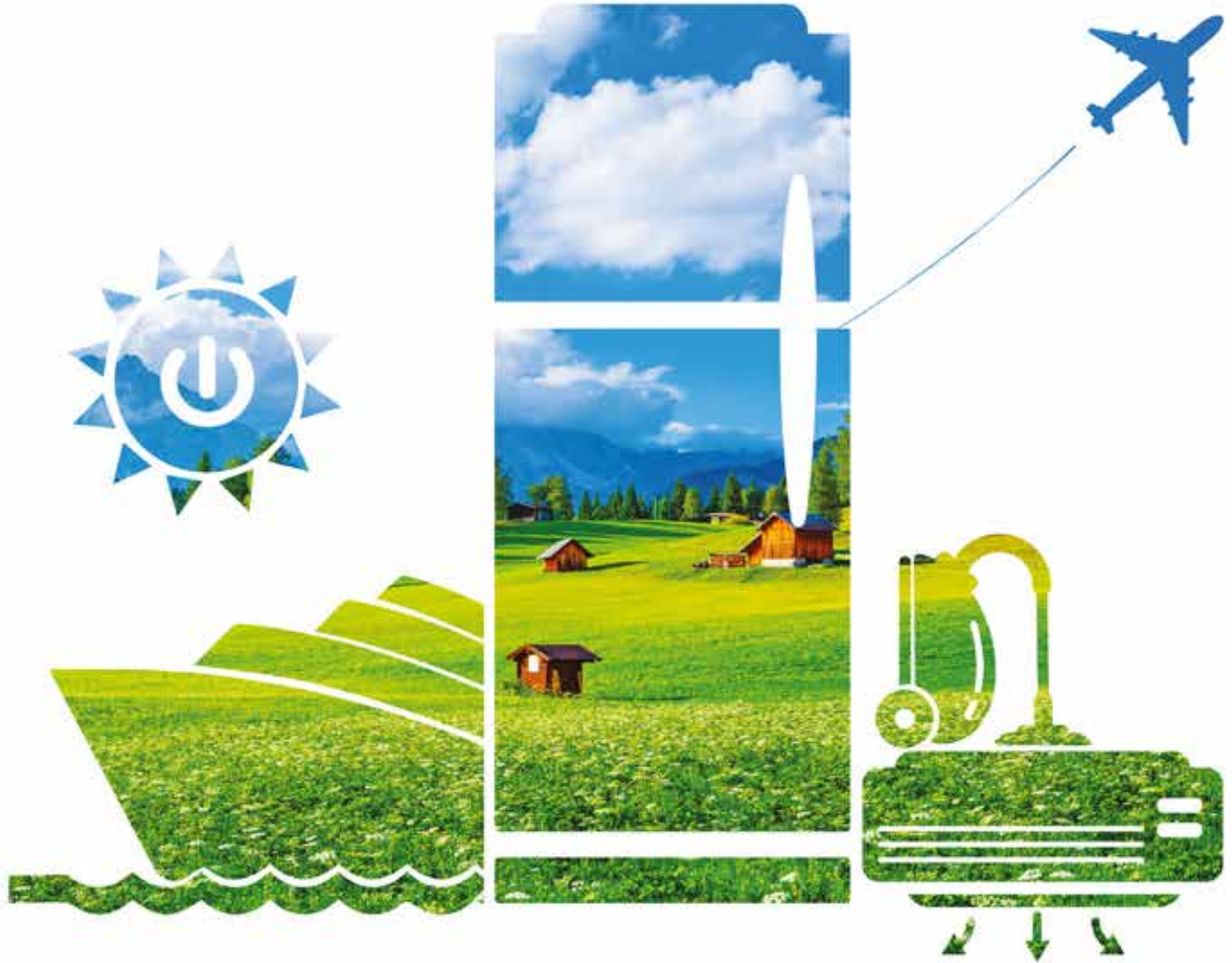
4

Many have vision and passion, but lack the self-discipline required to stay the course. The pain of living a life of discipline is less than the pain of regret for what could have been. Those who are self-disciplined motivate themselves to continue with their action steps and persevere amid adversity, asserting sheer willpower over their more base desires and instincts to give up or turn attentions to something more enjoyable in the moment. This requisite self-control will channel emotions, behavior, and desires toward obtaining the reward of success and, as importantly, avoiding the punishment of failure.

Action

2

Have a vision or a goal? The first step is to write it down along with related objectives and action steps. Now you've taken the initiative, which is the critical first step to achieving success. Post your vision statement in your bedroom, bathroom, and office. Share it with others, and be sure to follow your action steps. By taking these minor steps, you make yourself accountable and become the master of your destiny. Take quantum action and you will surely have a breakthrough. Or, find contentment with the status quo and, well, remain there.



LET'S MAKE THIS SUMMER GREEN

A change in electricity and water consumption habits can change our environment. Let's take action and make Dubai green.

Unplug appliances before travelling.

لنجعل هذا الصيف أخضر

لنساهم في إحداث الفرق هذا الصيف عبر تبني سلوكيات متعلقة باستهلاك الكهرباء والمياه. يبدأ بيد لنجعل دبي مدينة خضراء.

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HH Sheikh Mohammed bin Rashid Al Maktoum: Solar Impulse 2 opens new horizons for renewable energy

HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, noted that the Solar Impulse 2 solar powered aircraft, returned safely to Abu Dhabi after its 40,000-kilometer (km) journey around the world, without using a single drop of fuel.

HH Sheikh Mohammed bin Rashid Al Maktoum added that the return of the Solar Impulse 2 signifies new horizons for the application of renewable energy across a number of different fields.

HH Sheikh Mohammed bin Rashid Al Maktoum wrote on his official Twitter account: "Abu Dhabi, capital of the UAE and home to the International



Renewable Energy Agency IRENA, stands as a global pioneer in renewable energy." The 17-stage journey covered over

42,000km, taking in four continents, three seas and two oceans.

Chilean Metro to Run Mostly on Solar Power

Chile has put framework in place to operate the Metro de Santiago purely on solar energy, the Metro de Santiago is a public transportation system in Santiago,

Chile. The power will be generated from the El Pelicano Solar Project, which aims to generate 100 megawatts (MW). Construction of the solar plant will begin this year, with operation scheduled for the end of 2017. Up to 60% of the metro's energy demands will be covered by solar energy, 18% of energy demands will be wind energy. The metro will serve 2.5 million passengers every day.



Solar and wind electricity costs to drop by up to 59%



Sun and wind are currently considered the cheapest sources of energy, and with the right regulatory and policy frameworks in place, costs are poised to decrease even further by as much as 59%, according to a report released by IRENA. Since 2009, prices for solar photovoltaic modules and wind turbines have dropped roughly 80% and 30%-40% respectively.

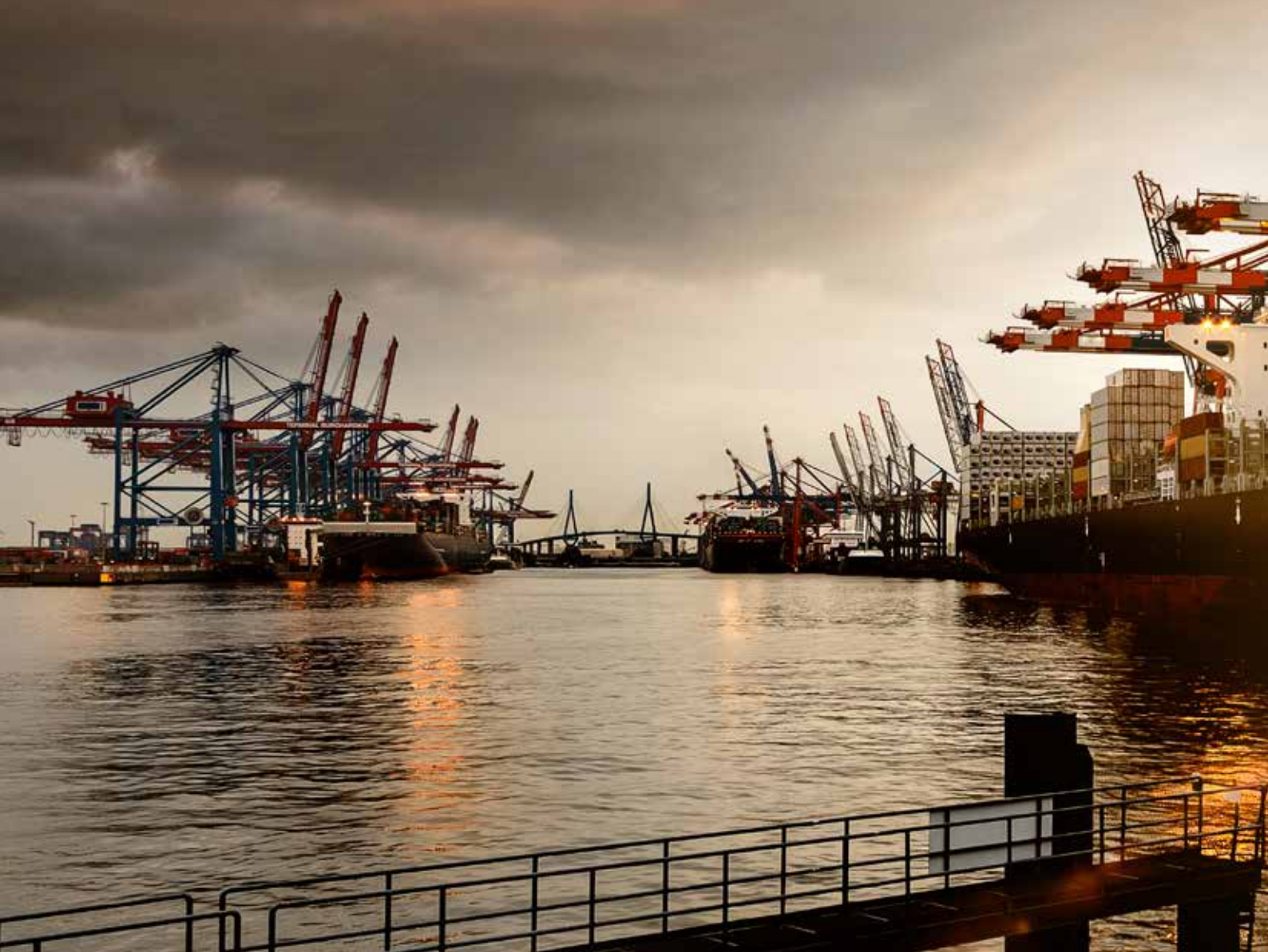
The report noted that the average cost of power generated by solar technology or PV, offshore wind, and onshore wind could drop by 59%, 35%, and 26% respectively, compared to figures 2015. Electricity produced through Concentrated Solar Power (CSP) could also drop by as much as 43%, depending on the technology used.

Promising Advanced Concepts in Renewable Energy



Toptenz compiled a list featuring a number of projects that produce clean and renewable energy including Self-Sustaining Villages, Waste Powered Fuel Cells, Lithium Ion Battery/Solar Panel Grids, Solar Panel Maintenance Drones, Artificial Photosynthesis, Nanotech Solar Windows, Quantum Smart Grids, Hydrogen Producing Algae, Nuclear Molten-Salt Reactors, and space-based Solar Power.

'Green' Hamburg combines environmental sustainability and economic development



The city of Hamburg was named the European Green Capital of 2011, a title which is given to cities that have shown excellence in protecting the environment. The recognition reflects its ambitious goals for climate change, water supply and transportation. Hamburg has a population of about 1.8 million and includes the largest port in Germany. It also has more than 500 industrial companies, so how has it managed to become eco-friendly? How does it combine environmental

sustainability and economic development?

The city faces huge challenges in protecting the environment, as it is a regional industrial area that has the third largest port in Europe. It has found it necessary to link its economy with its environment.

In line with environmental standards and categories that focus mainly on protecting the environment and green spaces in the city, transportation, sewage, waste management and

future programmes, Hamburg – according to the award committee – “provided during the past years a great performance and achieved numerous excellent environmental standards” and “the city has very ambitious plans which are considered as additional improvements.”

Hamburg competed against other cities in carbon dioxide emissions from each individual living in the city and in other domains such as quality of water and air and recycling techniques. It won the



award due mainly to the efforts of its environmental activists and different concerned organisations.

Hamburg has been able to cut down its carbon dioxide emissions by 15% since 1990. Its climate strategy aims to reduce emissions by 40% from 1990 to 2020 and by 80% by 2050. The strategy includes hundreds of procedures and practices and an annual budget of EUR 25 million. Inner-city development initiatives such as the HafenCity project and "Leap across the Elbe" enable

residents to live and work in the city centre, thereby reducing commuting levels and environmental problems caused by traffic or urban sprawl.

The city has also set high environmental standards in public transportation, raising the number of its commuters from 535 million in 2003 to 638 million in 2008. About 99% of its population enjoy access to bus and train stations that are only 300 metres far from where they live. As for other environmental ambitions and development goals,

Hamburg aims to boost bicycling's share among transport modes from 12% in 2008 to 18%. Work continues on increasing the number of bicycles and supporting stations across the city.

Drinking water is also of high quality and is consumed lower per person. Losses in water distribution and transmittal are very low, with water pipes losing around 4% and the national average at 7%. For waste water recycling, sewage water treatment stations produce some of the cleanest water that pours in Elbe. Hamburg is known for its forests and green spaces which make up 16.7% of its land.

The city has a unique style in protecting the climate and the environment. Its sustainable dance floor, for example, invites visitors to dance in order to generate energy.

Hamburg's extraordinary vision has made it a distinctive international hub for renewable energy. Today it is regarded as a centre for wind energy in Germany and internationally. The majority of wind turbine manufacturers already have a presence in Hamburg which hosts their headquarters and branches complete with their own marketing departments or R&D centres. These include Nordex, PowerWind, REpower Systems, Siemens, Vestas, General Electric and AREVA Multibrid.

Nordex, a leading wind turbine manufacturer, has established a new facility in the port, while HAMBURG ENERGIE aims to provide electricity for residents through climate-neutral methods that do not involve nuclear energy.

Hamburg hosts other major sectors including light and solar energy, hydrogen, fuel cell hybrid technology, and energy-efficient construction projects, reflecting the city's extensive R&D capabilities.

Through Erneuerbare Energien Hamburg, the city strives to enhance its competitive position and efficiency in renewable energy. This will be achieved through strong support for further development of the renewable energy sector.



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