



AL

NASDAR









Challenges and obstacles are not the end of the road, but a pathway to new and creative solutions

HH Sheikh Mohammed bin Rashid Al Maktoum

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

Our Vision

A globally leading sustainable innovative corporation.

Our Mission

We are committed and aligned to Dubai's 8 Principles and 50-Year Charter supporting the UAE's directions through the delivery of global leading services and innovative energy solutions enriching lives and ensuring the happiness of our stakeholders in a sustainable manner.

Our Values

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

Our Motto

For generations to come.





MD & CEO MESSAGE

HE SAEED MOHAMMED AL TAYER MD & CEO OF DEWA

Starting the year '2020: Towards the next 50' with a pioneering project

In March 2020, His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, inaugurated DEWA's Research and Development (R&D) Centre at the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world. This pioneering project, along with other significant projects implemented by DEWA, indicates our confidence and unwavering determination, guided by the vision of our wise leadership, to make the UAE an active and influential part of the international academic and research community, and a pioneering hub for the Fourth Industrial Revolution. This is done by including innovation in all our strategies and initiatives to enhance the UAE's competitiveness.

The R&D Centre supports DEWA's efforts to localise knowledge and expertise in its areas of work. Around 70% of the Centre's researchers are Emiratis. The team consists of 37 male and female researchers; over half of them are PhD and MSc holders. They have published over 40 papers in international scientific conferences and journals. This is a result of our scholarship programme, which DEWA has been providing for more than 20 years to Emirati students willing to do postgraduate studies at prestigious universities and institutions, locally and globally. We now have a specialised team of Emirati men and women in energy, water, and the Fourth Industrial Revolution applications including Artificial Intelligence (AI); 3D Printing; Unmanned Aerial Vehicles (UAVs) among others. Our teams work on redefining the concept of utilities and making Dubai the first city in the world to use AI to provide electricity and water services.

Thanks to the dedication of our teams, DEWA contributes to the UAE's reputation with achievements that make it one of the world's most distinguished utilities; providing electricity and water services according to the highest standards of efficiency, reliability, availability, and sustainability to over 900,000 happy customers. DEWA ranked first in Dubai Government's customer happiness in 2019 with 90.1%. One of our most prominent achievements in 2019 was that the UAE, represented by DEWA, maintained its first global ranking for the third consecutive year for Getting Electricity in the World Bank's Doing Business Report 2020. The report measures the ease of doing business in 190 economies around the world. DEWA's results surpass top European and American companies. In 2019, the losses in electricity transmission and distribution networks decreased to 3.2% compared to 6-7% in Europe and the US. The water network losses also reduced from 42% in 1988 to 6.6% in 2019, compared to 15% in North America. DEWA also achieved the lowest customer minutes lost (CML) worldwide at 1.86 CML, compared to 15 minutes in electricity companies in the European Union.

We will continue implementing leading projects in renewable and clean energy, and related research and development that will propel Dubai into the future and enhance its position as an incubator for creativity and innovation to be at the forefront of cities that anticipates and shapes the future. We will work to make this year '2020: Towards the next 50' the starting point for the UAE towards more progress, growth and prosperity, to be the world's leading country by its centennial in 2071.

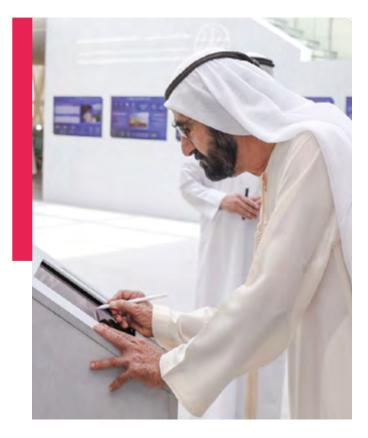
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COVER STORY

Mohammed bin Rashid inaugurates DEWA's R&D Centre at Solar Park

HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, has inaugurated Dubai Electricity and Water Authority's (DEWA's) Research and Development (R&D) Centre at the Mohammed bin Rashid Al Maktoum Solar Park.

HH Sheikh Mohammed bin Rashid Al Maktoum visited the sections and labs of the R&D Centre, which covers 4,400 square metres. It is one of the key projects at the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world based on the Independent Power Producer (IPP) model.

The R&D Centre contributes to building and localising knowledge and expertise. Around 70% of the Centre's staff are Emiratis. The Centre's areas of work include solar power; the integration of smart grids; energy efficiency, and water, in addition to Fourth Industrial Revolution applications such as '3-D Printing and Additive Manufacturing' as one of the innovative solutions to produce spare parts for electricity generation, transmission, and distribution divisions.

HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy; HH Sheikh Ahmed bin Mohammed bin Rashid Al Maktoum, Chairman of the Dubai Media Council; and HE Sultan Al Jaber, Minister of State, attended the event. HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, and senior officials from both the

public and private sectors were also present.

DEWA's R&D Centre is the only centre in the UAE that focuses on renewable energy, smart grid technologies and energy efficiency. It has the largest and most comprehensive solar testing and certification facility in the UAE. It operates the longest continuous testing of photovoltaic panels in the UAE in desert climate conditions.

HH Sheikh Mohammed was briefed by HE Saeed Mohammed Al Tayer about the R&D Centre's areas of work. The centre has various internal labs and outdoor labs to study the performance and reliability of PV panels. Key internal labs include the Electrical Characterisation Lab, the Mechanical Characterisation Lab, the Materials Characterisation Lab, the Solar Simulator Lab, and the Accelerated Aging Lab. The outdoor labs include testing different solar panel technologies and performance, as well as a safe zone for drone testing.

HH Sheikh Mohammed bin Rashid Al Maktoum also met a number of the R&D Centre's researchers and experts. The Centre has 37 male and female researchers, 20 of whom (54%) are PhD and MSc holders. The team has published over 40 papers in international conferences and magazines. The R&D Centre was granted one patent, with five more under process.

"The wise leadership attaches great importance to research and development.

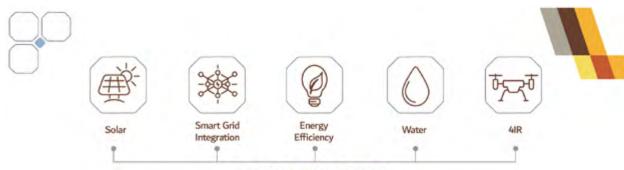
At DEWA, we work in line with the vision and directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, who once observed, "We are seeking to make the UAE an efficient and influential part of the international academic and research community." We are committed to anticipating and shaping the future of energy and water. We include innovation in all our strategies and initiatives, to support the UAE Strategy for the Fourth Industrial Revolution, which aims to strengthen the UAE's position as a global hub for the Fourth Industrial Revolution and to increase its contribution to the national economy by means of advancing innovation and future technologies; the National Artificial Intelligence Strategy 2031, to develop an integrated system that employs Al in vital areas of the UAE, as well as the Dubai Clean Energy Strategy 2050, which aims to generate 75% of Dubai's total power output from clean energy sources by 2050," said Al Tayer.

The R&D Centre received a Platinum Rating for green buildings from Leadership in Energy and Environmental Design (LEED) by the US Green Building Council. The Centre has PV panels installed on its roof and car parking as well as Building Integrated Photovoltaic (BIPV) in its walls. The building reduces energy consumption by over 25% and saves more than 50% water. The percentage of recycled materials is more than 30%.





COVER STORY



RESEARCH AREAS







MOST LOVED PHOTO



Together, we create hope and life



MAIN STORY



MBR Global Water Award

Extensive recognition for high performance and innovative ideas at the second Mohammed bin Rashid Al Maktoum Clobal Water Award

The second Mohammed bin Rashid Global Water Award (MBR Global Water Award) witnessed a great response from research organisations, individuals, and innovators from around the world. The second cycle was widely recognised for the high level of performance and ideas submitted. HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, praised the 10 winners from 8 countries who participated in the humanitarian challenge of water purification using solar power.

HH Sheikh Ahmed bin Mohammed bin Rashid Al Maktoum, Chairman of the Dubai Media Council and Chairman of the Mohammed bin Rashid Al Maktoum Knowledge Foundation, awarded the winners at the award ceremony. The MBR Global Water Award was launched by HH Sheikh Mohammed bin Rashid

Al Maktoum, to encourage research institutions, individuals, and innovators from around the world to develop sustainable and innovative solutions to water scarcity that use solar power.

HH Sheikh Ahmed bin
Mohammed bin Rashid
Al Maktoum said that the
UAE is a major contributor
to vital humanitarian and
development causes through
initiatives that extend
assistance to developing
societies across the world to
resolve challenges hindering
their progress.

HH Sheikh Hamdan bin Zayed Al Nahyan, Ruler's Representative in Al Dhafra Region and Chairman of the **Emirates Red Crescent (ERC)**, said the Award highlights the growing role of the **UAE** and its wise leadership in helping the needy, and adopting innovative and sustainable solutions to overcome humanitarian and developmental challenges. These include water scarcity, which adversely affects several communities.





HE Mohammed Abdullah Al Gergawi

HE Suhail bin Mohammed Faraj Faris Al Mazrouei

HH Sheikh Hamdan bin Zayed Al Nahyan

HE Mohammed Abdullah Al Gergawi, Minister of Cabinet Affairs and the Future, and Secretary-General of the Mohammed bin Rashid Al Maktoum Global Initiatives (MBRGI), said the MBR Global Water Award is one of the most important initiatives under MBRGI, because it addresses the issue of water scarcity. This is one of the world's most pressing issues, and by supporting institutions and innovators to invent sustainable solutions, clean and safe drinking water can be made more readily available, especially in poorer nations.

"Water is life. It is closely linked to several development areas on earth. These include health, economy, environment, and society. The MBR Global Water Award underlines the leading role of the UAE in supporting sustainable development, especially providing fresh water to the world and finding solutions using renewable energy. The Award aims to find sustainable and innovative solutions to water scarcity around the world using solar power. This is in accordance with the UAE Vision 2021 and efforts to make sustainable technologies and innovation part of resolving the global water crisis," said HE Suhail bin Mohammed Faraj Faris Al Mazrouei, Minister of Energy and Industry.

"Water is the cornerstone of economic, social, and environmental development. Potable water is an important element to achieve the UN Sustainable Development Goals 2030. Goal number six is to 'Ensure availability and sustainable management of water and sanitation for all.' According to the United Nations World Water Development Report 2019, three out of 10 people around the world do not have access to safe drinking water. At least 2

billion people use contaminated drinking water. One in four primary schools have no drinking water, and over 700 children under five years of age die every day from diseases linked to unsafe water and poor sanitation. This is where the MBR Global Water Award plays a key role. The award bears the name of one of the most prominent pioneers of charitable work in the world, who has created a legacy of serving mankind. The Award is another significant milestone in the UAE's generous humanitarian efforts and supports international efforts to provide drinking water to the needy by encouraging research institutions, individuals, and innovators from around the world to develop sustainable and innovative solutions to water scarcity that use solar power. The UAE Water Aid Foundation (Sugia) under the umbrella of the MBRGI oversees the Award," said HE Saeed Mohammed Al Tayer, Chairman of the Board of Trustees at Sugia UAE.

Al Tayer praised the collaboration between Emirates Red Crescent and the Mohammed bin Rashid Al Maktoum Humanitarian and Charity Establishment for supporting Suqia in implementing sustainable water projects in 36 countries around the world, to provide drinking water for over 9 million people.

Categories

In the Innovative Projects Award for Small Projects, GivePower Foundation from the USA came first for its BLU Drop Solar Water Farm. Boreal Light from Germany was second with its WaterKiosk project. International Business Ventures from the UAE, in partnership with Zero Mass Water from

the USA, came third with its Platinum Heritage (PH) Source Oasis project.

Khalifa University from the UAE won the Innovative Research & Development Award in the National Institutions category for low-cost desalination, using a distiller coupled with gravity solar heat project.

In the International Institutions category, Liquinex Group from Singapore came first for its compact water purification system. Plasma Waters from the Republic of Chile came second for their Innovation with Purpose project. Project Maji from the Republic of Ghana came third for their Solar Kiosks project.

The Innovative Individual Award for Youth was awarded jointly to Jan Radel from Germany for his drinking water for Malambo project; and Muhammad Wakil Shahzad for his 24/7 solar desalination project. Dr. Mahmoud Shatat from Palestine won the award in the Distinguished Researcher category, for an innovative and affordable solar water desalination unit.

MAIN STORY





- National Institutions

FIRST PLACE Khalifa University

Khalifa University developed a Low-Cost Desalination Using Distiller Coupled with Gravity Solar Heater. The project utilises a distiller coupled with a solar heater to produce purified water through evaporation and condensation of saltwater. A gravity solar heater heats water using passive heat exchange and circulates heated water to the distiller using natural convection without a mechanical pump. The system uses locally available and affordable materials and removes 100% of E-coli, total coliform, and 99% of metals, inorganics, COD, TDS and salinity.

Dr. Arif Sultan Al Hammadi, Executive Vice President of Khalifa University said: "We are delighted and honoured to see researchers at Khalifa University achieve the first place in Mohammed bin Rashid Al Maktoum Global Water Awards. The importance of such a high-profile competition stems from the fact that it encourages students and researchers to conduct innovative research in a vital field such as water. Acting as a hub of

water and energy research in the region and worldwide, Khalifa University enjoys a proven record of research achievements in this field and aims to find solutions to achieve the maximum possible utilisation of resources and water and thus contribute to achieving progress and development for societies all over the world. We would like to thank Suqia for creating the perfect opportunity for local institutions to highlight the level of innovation they have, as well as, its support for research in the field of water both inside and outside the UAE."

"I feel proud, grateful and happy to receive this award. My lifelong ambition is to help people in need. Since I am an environmental engineer, I am achieving my ambition to create engineering solutions to help people. For that reason, I wanted to participate in this award and it gave me the opportunity to implement low-cost treatment systems. Being recognised for my design encourages me to invest more and further my research. Now I have all the courage to continue my research to find better solutions to help the people, and bring safe water to them," said Dr. Banu Yildiz, Assistant Professor from Khalifa University and 1st Place Winner, Innovative Research and Development Award - National Institutions.



Innovative Projects Award

Small Projects

FIRST PLACE

GivePower

The GivePower Foundation in the US developed the 'Blu Drop Solar Water Farm' which is a solar-powered desalination unit that fits into a container, and has been installed in Kingua, Kenya. The unit production capacity is 37,000 litres per day of clean water. It requires 4 watt-hours per litre of water. The unit runs on 50 kW of solar power and 6 solar inverters, and stores 120 kWh in 9 Tesla Powerwalls. Tesla storage batteries allow non-stop operations. It can provide access to clean water for up to 20 years.

SECOND PLACE

BorealLight GmBH

BorealLight in Germany developed the 'Water Kiosk' project to provide affordable outdoor solar water desalination systems for off-grid communities. It uses modified

Reverse Osmosis technology and allows remote monitoring and management over all electrical and mechanical parts. It produces water at a record-breaking low cost and provides 4 types of water quality for drinking, irrigation, fish farms and sanitation.

"It's a great pleasure to have international recognition for what we started a few years ago. We are glad to work with those who have the same vision of life. That's the greatest benefit. We will use this award to go to new places. I encourage everyone who wants to apply that it's absolutely worth it," said Hamed Beheshti, 2nd place winner of Innovative Projects Awards - Small Projects.

THIRD PLACE

IBV (UAE) and Zero Mass Water (USA)

IBV in partnership with the US-based Zero Mass Water developed called PH Source Oasis. The project focuses on extracting water from the air to mineralize, ozonize and deliver clean drinking water using solar energy. The project uses hydro-panels to create drinking water from sunlight and

air, even with lower levels of solar energy. The project was implemented in Platinum Heritage in Dubai, with 100 hydro-panels installed with a production capacity of 150,000 L/Annum (at 40% relative humidity and 30°C).

"I am humbled by the recognition received from Sugia for our efforts to provide sustainable and renewable water solutions while maintaining a balance between technology and nature. Being from Chennai a city facing acute drinking water shortages, I can empathize with the struggle of millions of people around the world who suffer from the lack of clean drinking water which is the most basic human necessity. Today we have the knowledge and technology to resolve the global water crises by extracting clean water from air using solar power. We thank Sugia for recognising our effort and encouraging us with the Award. We intend to utilize the award by providing long-term water independence to the most underprivileged people," said Samiullah Khan from IBV.

The Innovative R&D Award International Institutions

FIRST PLACE Liquinex



Liquinex developed a Compact Water Purification System, which can be powered by a car battery or solar power packs to provide

potable water as per WHO standards. The project provides an electric-driven system that allows including a UV steriliser that further enhances its efficacy in removing bacteria and viruses. It also runs on a very low 12V power requirement. The project was implemented in disaster areas in Laos, Kerala (India), Sulawesi (Indonesia) and in a rural school in Padang (Indonesia). The system provides high-quality drinking water to 1,700 people at the rate of 3 litres per person per day per suitcase, with a production capacity of 500 L/hr clean water production.

"We hope that through this win, it would open doors to further bilateral cooperation between Singapore and the UAE in the water sector that benefits all humanity. The MBR Water Award serves as an inspiration and encouragement to individuals and companies to share their expertise and innovation to serve others in the community, and we are proud to support it," said Low Pit Chen, Consul- General of the Republic of Singapore in Dubai.

SECOND PLACE AIC Technologies



AlC Technologies in Chile developed 'Innovation with Purpose', a project which uses Plasma Water Sanitation

System (PWSS) to treat water through the process of converting a liquid stream into a non-thermal plasma. The project has an efficacy of removing nearly 1 billion cholera bacteria per 100 mL to zero in 15 milliseconds. The project was implemented at Tiltil community, Chile. Another project is in progress to deploy 7 PWSS units in Nairobi. Non-thermal plasma is an emerging technology effective for drinking water production. The water production capacity is 5,000 litres/day. It currently uses grid-connected conventional electricity.

"I feel honoured and proud to win this award. It was a dream a couple of years ago and now it's becoming a reality. We have in our hands a technology that cannot just make money, but also save lives. The UAE and Dubai are providing, through this award, a platform for people from around the world to employ technology for people who really need it. This award and recognition will give our technology much exposure and help us promote it," said Alfredo Zolezzi, 2nd place winner, Innovative Research and Development Award - International Institutions.

THIRD PLACE

Project Maji

The non-profit organisation Project Maji in Ghana developed the 'Project Maji Solar Kiosk', which uses solar kiosks on wells, using energy from solar panels, including water pumping and remote monitoring of the system. Since there are no batteries, this ensures maintenance requirements are minimal. Pumping is controlled using advanced electronics with sensors placed in the tank and the borehole. It currently serves 50,000 beneficiaries through 50 sites, with initial sites providing 10,000 litres per day. IP65 solar panels are used to power high-efficiency pumps, coupled with a controller that runs at varying time intervals to ensure water pumping occurs even during the night and low sunlight conditions.

MAIN STORY

Innovative Individual Award

Youth

JOINTLY Jan Radel



Jan Radel from Germany developed 'Drinking Water for Malambo' project - a solarpowered water plant consisting of two cisterns

with a total capacity of 100,000 litres, along with purification using ultrafiltration membranes. Gravity driven ultrafiltration used for water purification is achieved by solar energy - to pump rainwater up to the 5-6 metre tower to obtain enough pressure. It reduces the need for a backwash tank and pump by applying a side-by-side operation of two gravity-driven filtration membranes.

"It's a great honour to win this award. My colleague told me about it and when I looked up the website, I saw that my project in Tanzania perfectly matches all the requirements. We have been doing that for the past 9 years. I will use the prize to invest in another plant in Tanzania. Over the past 6 years, we have been developing our design and our concept and we are about to inaugurate another plant in February," said Radel.

JOINTLY **Dr. Muhammad Wakil Shahzad**



Dr. Muhammad Wakil Shahzad developed the '24/7 Solar Desalination' project, which is a hybrid desalination cycle that

combines the adsorption (AD) cycle with conventional multi-effect distillation (MED) system to overcome the operational limitations of MED. Hybrid MEDAD cycle water production is 2-3 times higher than conventional MED. The technology uses solar energy or wasted thermal energy. Two industrial pilot-scale projects implemented (NUS Singapore and KAUST KSA). Solar energy to operate solar thermal collectors. (KSA project is completely solar-powered).

HE Ghulam Dastgir, Ambassador of Pakistan to the UAE said the Award is important as it finds sustainable and innovative solutions to water scarcity and pollution around the world. "It is an honour for Pakistan. You can see talent from different countries competing in this award. I appreciate the efforts made by the UAE government to encourage talent from all over the world to come up with innovative ideas for water issues. The UAE and Pakistan are already collaborating in a number of projects which include social, education, health, social areas and this is also a very important aspect of the economy, to provide drinking water to the people. Pakistan also has a challenge because it is a big country and providing drinking water to all its citizens is a big task. These innovative ideas will inspire our young generation."

Dr. Shahzad expressed his happiness said that it has been one of his dream awards. "The UAE government is taking the lead to solve this world problem and it's amazing to see many different technologies and ideas. I was attending a conference in the UAE when I first heard about the award. I was very excited to see this great idea and I tried my best and I feel lucky to win. I encourage people who want to apply, to bring their ideas and team up with people working on this noble cause that will solve global water scarcity," said Dr. Shahzad.

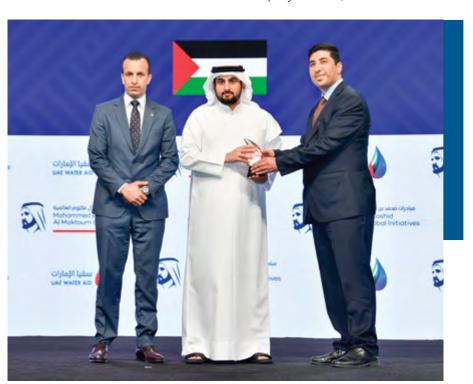
Innovative Individual Award Distinguished Researcher

FIRST PLACE

Dr. Mahmoud Shatat

Dr. Mahmoud Shatat from Palestine developed an affordable low-cost household solar (thermal) water desalination system to convert sea or contaminated water into freshwater. The storage tank is fully insulated with foam material to reduce heat loss and to keep the system running during the night utilising the heat stored from solar energy during the day. Unlike reverse osmosis-based systems, it is suitable for use with highly concentrated saltwater. The system operates at low pressure and relatively low temperatures, enabling the units to be manufactured from inexpensive plastics instead of metal.

"It's definitely a great feeling to win this award. I would like to dedicate this to my family, Palestine and the Arab world. I encourage all researchers around the world, especially in Arab countries, because we suffer from water scarcity, to develop innovative solutions and technologies in this area. I call on Arab researchers to apply for this generous initiative by HH Sheikh Mohammed bin Rashid Al Maktoum. I have been working on water desalination for the last 18 years and I will use the grant to further develop my research," said Dr. Shatat.











Join the Shams Dubai initiative and be part of our efforts to make Dubai the smartest and most sustainable city of the future. Install solar panels today to lower your home's and Dubai's overall carbon footprint and increase the value of your property.







2 Contact a registered consultant or contractor



Install photovoltaic panels on your rooftop



Start reaping the benefits

Use the SHAMS DUBAI CALCULATOR to estimate the potential electricity production from photovoltaic solar panels For more information please visit: www.dewa.gov.ae/shamsdubai







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

MAIN ACTIVITIES



HH Sheikh Mohammed bin Rashid Al Maktoum visits DEWA stand at WFES 2020



HH Sheikh Mohammed bin Rashid. Al Maktoum. Vice President and Prime Minister of the UAE and Ruler of Dubai, has visited the Dubai Electricity and Water Authority (DEWA) stand at the exhibition for the World Future Energy Summit (WFES) 2020 in Abu Dhabi. His Highness was accompanied by HH Lt Gen Sheikh Saif bin Zayed Al Nahyan, Deputy Prime Minister and Minister of the Interior: HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy and President of the Dubai Civil Aviation Authority: HE Dr Sultan Ahmed Al Jaber, Minister of State and CEO of Abu Dhabi Future Energy Company (Masdar); HE Mohammed Ibrahim Al Shaibani, Director General of His Highness the Ruler's Court in Dubai, and other senior officials.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, briefed HH Sheikh Mohammed bin Rashid Al Maktoum about DEWA's clean and renewable energy initiatives and the latest developments of the Mohammed bin

Rashid Al Maktoum Solar Park. The solar park is the largest single-site solar project in the world based on the Independent Power Producer (IPP) model with a total planned capacity of 5,000 megawatts (MW) by 2030 with a total investment of AED 50 billion. Upon its completion, the solar park will save approximately 6.5 million tonnes of carbon emissions annually. The solar park supports the Dubai Clean Energy Strategy 2050 to transform Dubai into a global hub for clean energy and green economy, and provide 75% of Dubai's total power output from clean energy by 2050.

HH Sheikh Mohammed bin Rashid Al Maktoum also reviewed a model for the Green Hydrogen project to produce hydrogen using solar power. DEWA is implementing the project in cooperation with Expo 2020 Dubai and Siemens at the Mohammed bin Rashid Al Maktoum Solar Park in Dubai. This pilot project, which is the first of its kind in the Middle East and North Africa, supports DEWA's research and development of

energy storage as well as sustainability, which is one of the key themes of Expo 2020 Dubai. The project shows DEWA's support for one of the most sustainable World Expos in history in line with DEWA's role as Expo 2020's Official Sustainable Energy Partner. This pioneering project will contribute to developing the green economy concept in the UAE and explore the potential for green hydrogen technology. The hydrogen produced at the facility will be stored and deployed for different uses.

HH Sheikh Mohammed bin Rashid Al Maktoum also viewed a model of DEWA's new headquarters, called Al Shera'a (Arabic for sail), which is being built in Jadaf. It will be the tallest, largest, and smartest government Zero Energy Building in the world. Total energy used in the building during a year will be equal to or less than the energy produced on site during that year. Al Sheraa's built-up area is over 2 million square feet. The building will have 15 floors, a basement and 4 floors of car parking. The building can house

over 5,000 people. Facilities will include a 500-seat auditorium, training halls, a creativity centre, an exhibition hall, a nursery for the children of female employees, and a gym, among others. The building will have over 20,000 square metres of photovoltaic solar panels rated to over 4,000 kilowatts. There will be 1,000 square metres of Building Integrated Photovoltaics. The building will generate over 6,500 megawatt hours (MWh) a year of renewable energy. The building is intended to use 50% less water than regular buildings. DEWA's new headquarters will be directly linked to Jadaf metro station. This will encourage the use of public transport, to reduce traffic and the carbon footprint. It will use the latest technologies including the Internet of Things, Big Data and Open Data, AI, and the latest smartbuilding management technologies.

DEWA is participating in the 13th World Future Energy Summit 2020,



as its Efficiency Partner. It is one of the key events during the Abu Dhabi Sustainability Week, held from 13 to 16 January 2020 in Abu Dhabi and hosted by Abu Dhabi Future Energy Company (Masdar). DEWA's stand is in the Energy Hall (5130 in Hall 5) at the Abu Dhabi National Exhibition Centre. During the summit, DEWA is exhibiting its key projects and innovative initiatives in clean and renewable energy and sustainability, as well as projects by its Innovation and the Future division. Dubai Supreme Council of Energy; DEWA's partners and subsidiaries will also be present at the stand.

DEWA presents its clean and renewable energy projects at WFES 2020



Dubai Electricity and Water Authority (DEWA) has presented its key projects and initiatives on sustainability and clean energy during its participation in the 13th World Future Energy Summit (WFES) 2020 in Abu Dhabi. DEWA is the Efficiency Partner of WFES:one of the key events of Abu Dhabi Sustainability Week.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, said that DEWA will always support the sustainable

development of the UAE. This will make '2020: Towards the next 50,' the starting point for the UAE furthering its overall progress, growth and prosperity.

A large number of local and international officials visited DEWA's stand including HH Sheikh Abdullah bin Zayed Al Nahyan, Minister of Foreign Affairs and International Cooperation; HE Suhail bin Mohammed Faraj Faris Al Mazrouei, Minister of Energy and Industry; Frank Bainimarama, Prime

Minister of Fiji; Ólafur Grímsson, former President of Iceland and Chairman of the Zayed Sustainability Prize Jury; Masagos Zulkifli, Minister for Environment and Water Resources in Singapore; and Sheikh Khalid bin Ahmed Al Hamed, an Emirati business pioneer,.

DEWA also presented the Paperless Environment initiative, which it launched to support the Dubai Paperless Strategy. This initiative eliminated 17 million pieces of paper by the end of 2019. DEWA's Smart Office app enables employees to complete tasks with ease and efficiency. A total of 24 million transactions were made on DEWA's Smart Office app in 2019.

Visitors to DEWA's stand also learned about the 2nd Solar Decathlon Middle East (SDME), the largest and most competitive competition among universities worldwide. It involves young people in the sustainable development process, and encourages them to innovate. It gives them the opportunity to unleash their creativity by developing innovative solutions that support global efforts to address the impact of climate change.

MAIN ACTIVITIES

DEWA shapes future of the coming 50 years at 9th Innovation and the Future Conference

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA inaugurated the 9th Annual Innovation and the Future Conference, which DEWA organised under the theme 'Shaping the Future of the Next 50 Years'. Emirati Astronauts Hazzaa AlMansoori and Sultan AlNeyadi; Henrick von Scheel, the Originator of Industry 4.0; Chris Huff, Chief Strategy Officer, Kofax; and Arnold Gutmann, Senior Executive Partner, Gartner, took part in the conference. A number of innovators discussed topics related to shaping the future of the next 50 years, the Fourth Industrial Revolution, and top technology trends for the future, among other topics.

The 'Inspirational Session' was delivered by Emirati astronauts Hazzaa AlMansoori and Sultan AlNeyadi who spoke about the Zayed's ambitious mission to space. The second session titled 'Navigating the accelerated rate of change with Al and automation' was delivered by Chris Huff, Chief Strategy Officer of Kofax. The third session titled 'Industry 4.0: Shaping the Future of the Next 50 Years' was delivered by Henrik von Scheel, originator of Industry 4.0. The fourth session titled 'Top Technology Trends for the Future'



was delivered by Arnold Gutmann, Senior Executive Partner at Gartner.

At the conference, 20 Emirati youth were honoured as part of the Ambassadors of Innovation - Leaders of the Future

Programme, which DEWA organised in cooperation with Watani Al Emarat Foundation. The programme supports the UAE's efforts to empower young people through creativity and innovation, as well as volunteer work among DEWA's employees.

DEWA displays some of its projects and innovative stakeholder projects at 'Innovation Week'



Dubai Electricity and Water Authority (DEWA) displayed some of its innovative projects during Innovation Week. This is part of its participation in the UAE Innovation Month, announced by HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, under the theme 'UAE Innovates – Towards the Next 50.' DEWA organised several workshops, lectures, panel discussions and exhibitions from its divisions, startups, and associations.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, praised the large turnout at Innovation Week. He highlighted the quality of the innovative projects presented at the event and their alignment with the Fourth Industrial Revolution technologies. These include



Artificial Intelligence (AI); Internet of Things (IoT); and Blockchain among others. This promotes innovation in the UAE and achieves the wise leadership's vision to anticipate and shape the future.

VARIOUS ACTIVITIES FOR CHILDREN AND STUDENTS

DEWA organised various activities for students from public and private schools in Dubai. These included a tour of the three locations including the Innovation Tent; Innovation Park; and Innovation Festival at DEWA's head office. A kid's area with interactive games, face painting and awareness on information and data security was also organised. DEWA's awareness and conservation

team organised workshops on robots, traditional methods of searching for water, competitions on conservation and other lectures on being innovative and developing apps successfully. Some 300 students participated, representing eight public and private schools.

The Innovation Tent also hosted workshops to introduce students to the Fourth Industrial Revolution technologies. These include AI, IoT and Blockchain among others. This is part of DEWA's efforts to instil an innovation culture among the youth.

SIGNIFICANT PARTICIPATION OF PEOPLE OF DETERMINATION

DEWA allocated a large area to show

and sell art and craft products and innovative products by its Employees of Determination, and members of Senses Centre.

Haifa Al Haddad, a POD employee at DEWA, gave a presentation on the seven secrets of smart education. The presentation tackled self-motivation, organised studying, and increasing concentration, among other pillars.

DEWA organised a workshop for its POD employees to introduce its 'People of Determination Legal Advisor' initiative, which provides legal consultation for them in collaboration with Absher Office.

WORKSHOPS FOR EMPLOYEES

DEWA organised various workshops by experts and specialists to highlight the future of the economy, jobs, and disruptive technologies. These workshops included Blockchain for Utilities, and Robotic Process Automation to increase productivity, save time, money, and effort, while aligning with the Dubai Paperless Strategy.

PROJECTS OF UAE INNOVATORS SOCIETY

The UAE Innovators Society showcased several projects, including solar grills, which are environmentally friendly, and rust-resistant grills that produce solar power on-site without using coal or other substances. The association also displayed its Solar Power Tent, which generates solar power on-site.



FEATURE STORY



DEWA Academy opens new prospects for Emirati youth

Dubai Electricity and Water Authority (DEWA) Academy has proved its success and importance in preparing UAE Nationals for work in the energy sector. It has also proved its success in Emiratising senior positions across DEWA's engineering and technical divisions and creating quality jobs that benefit the citizens and the nation. This demonstrates DEWA as a socially responsible government organisation. DEWA Academy invests in the next generation of Emiratis to prepare them for vocational and technical jobs, by providing them with the necessary skills and knowledge according to the highest international standards of vocational training.

HE Saeed Mohammed Al Tayer, MD & CEO of DEWA, said that DEWA strives to create a quality shift in vocational and technical education in the UAE through DEWA Academy. This is in accordance with the vision of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, that education ensures the continuity of development in the UAE and

provides a basis for achieving ambitions in all walks of life. DEWA spares no effort in supporting the vocational and technical education in the UAE as well as promoting innovation among the next generation, to achieve the wise leadership's vision to support the knowledge-and-innovation-based economy.

The Academy has 12 classrooms, 3 computer labs, and 12 technical workshops for electrical and mechanical engineering. It also includes halls equipped with state-of-the-art tools and technologies, computer labs and a multimedia learning centre. Its curriculum covers 3 specialisations: electrical engineering, mechanical engineering, equipment maintenance, and operational engineering. After completing the study, students receive a certificate from the Knowledge and Human Development Authority in Dubai (KHDA) equivalent to the Technical Secondary School Certificate in the UAE. They also receive a diploma from the Business and Technology Education Council (Pearson BTEC) in the UK. Over 1 million students in over 72 countries

register for the programme every year. Over 27 million students around the world graduate from this programme.

After graduation, DEWA distributes the students within its divisions according to the needs of each division. Students receive a generous monthly stipend during their three-year study. DEWA Academy currently has 178 students and 292 Emirati graduates.

INNOVATIVE PROJECTS RECEIVE AWARDS AND SUPPORT SUSTAINABLE DEVELOPMENT

DEWA Academy projects in the 8th Learning Skills Development initiative came first and second in the 'From idea to innovation' category. The initiative is supported by HH Sheikha Rawda bint Ahmad bin Juma Al Maktoum, wife of HH Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, Minister of Finance and President of DEWA. This in recognition of its 'Smart Bridge Alarm System' and 'Super Power Workshop Trolley' projects.

DEWA Academy students also won

second place in the Shams Dubai Solar Rollers competition, organised by DEWA and the US based Solar Rollers, for their Solar Vehicle project.

SMART BRIDGE ALARM SYSTEM

The team who developed the Smart Bridge Alarm System includes Omar Zuhair Anohi; Fahim Yousef Al Amiri; Saeed Mohammed Al Malla; and Sultan Ali Al Suwaidi. The students developed a smart system that uses sensors to monitor traffic on bridges and send alerts for drivers when needed.

"I studied electric engineering at DEWA Academy, and I am currently studying electrical engineering at the Higher Colleges of Technology in Dubai. The project idea was developed for our graduation project at DEWA Academy. It protects vehicle owners from accidents caused by blurred vision. Implementing the project locally is easy and simple. It's a feasible project, mainly because it reduces the number of road accidents and prevents financial losses and casualties," said Anohi, who has joined the electrical maintenance department of E station at DEWA's Jebel Ali Power Plant and Desalination Complex.

"The project came first the 8th Learning Skills Development initiative. This is a result of DEWA Academy's support, especially its financial aid, by providing technical workshops according to the highest international standards, mentoring from distinguished professors, and support from DEWA's officials. We hope the project will be adopted soon in the UAE or at DEWA," he added.

'SUPER POWER WORKSHOP TROLLEY'

DEWA Academy's team of Saeed Ahmed Al Malla; Abdullah Al Haniamy;



Abdul Rahman Mohammed Al Malla; and Khalifa Mohammed Al Malla has won the second place at the 8th Learning Skills Development initiative for its project Super Power Workshop Trolley. The trolley has solar cells and a rechargeable battery, which lasts for 2.5 hours, to transport 200 kilograms of materials in one go. The trolley's speed is 25 km/hr.

"The project idea was developed after visiting DEWA's Jebel Ali station during our study at the Academy. We realised the problem of transporting materials between workshops on site. We saw that workers use trolleys similar to the ones used for shopping, so we thought of innovating an electric vehicle," said Saeed Ahmed Al Malla, a student at the Higher Colleges of Technologies in Dubai who works at DEWA's L station in Jebel Ali.

Al Malla thanked his professors at DEWA Academy and all the staff for providing the required materials for the project. He also praised the support of DEWA Academy's staff and administration during their study. He noted that this phase was an important and inspiring milestone in his life, which has strengthened his skills, built his career and his social life.

SOLAR VEHICLE

The second-place team at the Shams Dubai Solar Rollers competition included DEWA Academy students: Sagheer Ali Al Awami Al Mansoori, Hamdan Areef Moussa Al Bluoshi, and Saeed Eissa Hatem. They presented an electric solar vehicle.

"Our project aligns with DEWA's strategy and efforts to enhance green and sustainable mobility in Dubai. DEWA Academy has played a substantial role in mentoring and motivating us to generate innovative ideas and gain technical and scientific skills. This in addition to gaining personal skills such as time management, planning, innovation, and team work. This is under the supervision of DEWA's engineers, trainers, and accredited experts in electrical and mechanical engineering, as well as maintenance and operation. We use all the skills and experiences we have gained at DEWA Academy to support innovation and shaping the future in Dubai and at DEWA in particular," said Sagheer Ali Al Awami Al Mansoori, who currently works in the Power Distribution at DEWA and studies mechatronics engineering at the Higher Colleges of Technology Dubai.

You can join the programme by registering on DEWA's Website – Educational Scholarships at www.dewa.gov.ae



DEWA ACADEMY



178
Students

292 Emirati graduates





12
Classrooms

5 Computer Labs





12

Technical Workshops for Electrical and Mechanical Engineering



Halls equipped with state-of-the-art tools and technologies, and a multimedia learning centre



Health & Safety Instructions

How to wash your hands?

Wash your hands often with water and soap.

Duration of the entire procedure: 40-60 seconds



Wet hands with water



Apply enough soap to cover all hand surfaces



Rub hands palm to palm



Right palm over left dorsun with interlaced fingers and vice versa



Palm to palm with fingers interlaced



Backs of fingers to opposing palms with fingers interlocked



Rotational rubbing of left thumb clasped in right palm and vice versa



Rotational rubbing, backwards and forwards with clasped fingers of right hand in left nalm and vice versa



Rinse hands with water



Dry hands thoroughly with a single use towel



Use towel to turn off faucet



Your hands are now safe

How to rub your hands?

When you are not able to wash your hands with water and soap, rub it with Alcohol based steriliser

Ouration of the entire procedure: 20-30 seconds



Apply a palmful of the product in a cupped hand, covering all surfaces



Rub hands palm to palm



Right palm over left dorsum with interlaced fingers and vice versa



Palm to palm with fingers



Backs of fingers to opposing palms with fingers interlocked



Rotational rubbing of left thumb clasped in right palm and vice versa



Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa



Once dry, your hands are safe.





NEWS - ACHIEVEMENTS

DEWA receives the world's lowest water levelised tariff of 0.306 USD per cubic metre for its Hassyan Sea Water Reverse Osmosis

DEWA received the world's lowest water levelised tariff of 0.306 USD per cubic metre for its 120 Million Gallons Per Day (MIGD) Hassyan Sea Water Reverse Osmosis (SWRO) Plant. The project is DEWA's first Independent Water Producer (IWP) model project.

DEWA has adopted the IWP procurement model for the Hassyan desalination plant following the success of the Independent Power Producer (IPP) model at the Mohammed bin Rashid Al Maktoum Solar Park projects. The Project will be commissioned in August 2023. The plant will use the latest and most efficient and reliable technologies to support DEWA's water network to ensure sustainable water supply.

DEWA has started the evaluation of the bids received and aims to select the Preferred Bidder during Q2 of 2020. DEWA issued an Expression of Interest (EOI) on 10 June 2019 followed by issuing the Request for Qualification (RFQ) to 34 interested bidders. Following

a rigorous qualification process, DEWA prequalified 9 international bidders to whom the Request for Proposal (RFP) was issued on 13 October 2019.



Dubai marks a new world record by reducing losses in its electricity transmission and distribution networks to 3.2%



Dubai Electricity and Water Authority (DEWA) has created a new world record by reducing losses in its electricity transmission and distribution networks to 3.2% in Dubai, compared to 6-7% recorded in Europe and the USA. The new achievement shows how Dubai Government organisations are surpassing their global counterparts.

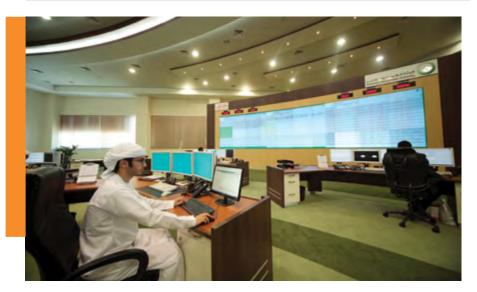
DEWA has achieved world-class results and set new global standards, breaking world records in energy and water performance indicators, including energy efficiency indicators and electricity cost per kilowatt-hour.

DEWA increased production efficiency by 31.40% between 2006 and 2019,

using state-of-the-art technologies and adopting technological innovations. It has also achieved the highest standards in global competitiveness indicators, which includes raising the fuel efficiency of the generation units to about 90%, competing with the highest international benchmarks. In addition, the availability and reliability of the generation units reached 100%, exceeding global rates of 91%. DEWA achieved a new world record in electricity Customer Minutes Lost (CML) per year. DEWA recorded 1.86 minutes, in Dubai, compared to around 15 minutes recorded by leading electricity companies in the European Union. This is a new addition to DEWA's record of international achievements in electricity and water services.

DEWA uses the latest technologies in generation, transmission, distribution, and control of electricity and water networks. This has contributed to several successes and achievements, making it one of the best utilities in the world.

Dubai sets a new global record in performance indicators in the energy sector with 1.86 Customer Minutes Lost (CML) of electricity per year



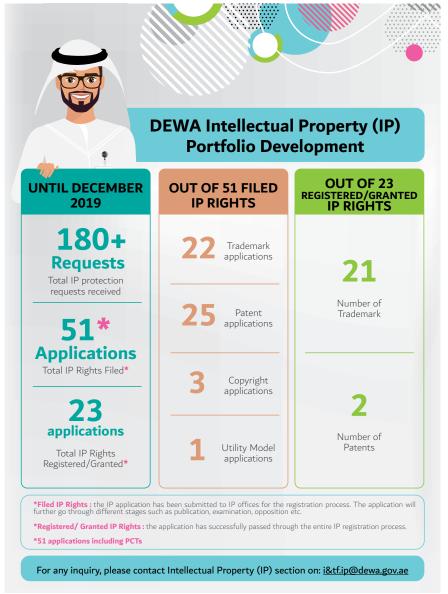
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DEWA's results surpass major European and American utilities in several indicators. In 2019, losses from electricity transmission and distribution networks were 3.2% compared to 6-7% in Europe and the USA. Water networks were also reduced to 6.6%, compared to around 15% in North America.



DEWA receives the highest score worldwide of 99.7% in the International Customer Experience Standard (ICXS2019)

DEWA has achieved the highest score of 99.7% in the latest International Customer Experience standard (ICXS2019) for 2020 provided by the International Customer Experience Institute. A specialised team from the British Standards Institute (BSI) audited five of DEWA's Happiness Centres, which obtained 99.7%, which is the highest score worldwide. This certificate is an international standard to evaluate the customer service experience in large organisations, who can use the findings to manage and improve their services.



NEWS - ACTIVITIES

DEWA organises 5th Suppliers Cricket Tournament



DEWA organised the fifth Suppliers Cricket Tournament 2019. This is in accordance with the Dubai Plan 2021 to make Dubai a home for educated, cultured, and healthy individuals. The tournament was held in Al Qouz, Dubai with the participation of 17 institutional teams. Sun Power team came first.

"We are keen to promote positive energy and motivate our stakeholders to participate in a competitive sports environment to promote mutual cooperation, strengthen the spirit of determination, challenge, fair competition, positivity and the desire to win amongst our suppliers. Such events promote cooperation and common interests. This is part of DEWA's efforts to enhance communication with its partners and stakeholders and its strategy to consolidate the concept of long-term partnerships," said Dr Yousef Al Akraf, Executive Vice President of Business Support and Human Resources at DEWA.



DEWA organises a hiking trip at Hatta



NEWS - AWARDS

DEWA wins 3 trophies at Asian Power Awards

DEWA has won 3 trophies at the 15th Asian Power Awards in three categories, at a ceremony held in Kuala Lumpur, Malaysia. This new achievement underscores DEWA's excellence and leadership in the global energy sector.

DEWA has won Smart Grid Project of the Year for its work on the Dewa Smart Grid Station, which uses a variety of smart grid technologies to generate power through renewable sources, such as solar, and wind power to maximise energy efficiency through real-time monitoring of control systems, especially during peak load, to transform and control load, and water conservation.

It also won Environmental Upgrade of the Year for the DEWA Substation Sustainable Initiative associated with green energy projects, and Transmission & Distribution Project of the Year for the Distribution Substation Automation.



DEWA becomes first utility in the Middle East to receive ISO:20400:2017

for Sustainable Procurement and Supply Chains

DEWA has received the ISO:20400:2017 for Sustainable Procurement and Supply Chains, becoming the first utility in the Middle East to receive this certificate.

DEWA received the certificate after a thorough audit by INTERTEK on

DEWA's Sustainable Procurement practices. ISO 20400:2017 is the world's first international standard for sustainable procurement and aims to help organisations develop and implement sustainable purchasing practices and deliver sustainable outcomes through their supply chains.





DEWA's Customer Care Centre receives ISO18295-2017

certification for Customer

Contact Centres

DEWA's Customer Care Centre has received ISO18295–2017 certification for Customer Contact Centre Management. This is in recognition to its important role in improving work concepts and mechanisms, and making a quality shift in the services provided to customers around the clock. This adds to DEWA's record of successes and shows its continuing efforts to develop best practices in call centres. This enables DEWA to improve its operations, enrich the customers' experiences, and make them happy.

DEWA is the first utility

in the Middle East to receive the NFPA 101



DEWA has received the National Fire Protection Association Life Safety Code (NFPA 101) from the international safety organisation UL. This new achievement underlines its regional leadership in occupational and environmental safety. DEWA is the first utility in the Middle East to receive this global recognition. DEWA received the NFPA 101 after a comprehensive audit by UL of DEWA's

warehouses, to ensure all buildings and equipment align with the safety and fire protection standards.

NEWS - MoUs

DEWA was the Strategic Sustainability Partner of Global Women's Forum Dubai 2020



DEWA was the Strategic | Sustainability Partner of Global Women's Forum Dubai 2020 (GWFD 2020), which was held under the patronage of His Highness Sheikh Mohammed bin Rashid Al Maktoum,

Vice President and Prime Minister of the United Arab Emirates, and Ruler of Dubai. The Forum took place in Madinat Jumeirah on 16 -17 February 2020, under the theme "The Power of Influence". This partnership is a part of a Memorandum of Understanding (MoU) signed by both parties and is an extension to DEWA's continuous support for Global Women's Forum Dubai since its inaugural edition in 2016.

Suqia signs MoU with Dubai Cares

The UAE Water Aid Foundation (Suqia) and Dubai Cares, both under the umbrella of Mohammed bin Rashid Al Maktoum Global Initiatives, have signed a Memorandum of Understanding (MoU) to share knowledge and build capacities in support of developing countries facing water scarcity.

As part of this partnership, Suqia will support Dubai Cares' Water, Sanitation, and Hygiene (WASH) program in two of Madagascar's largest cities: Antananarivo and Mahajanga. The AED 3,800,000 (USD 1,035,000) programme is set to benefit 14,250 children and 33,750 community members. This intervention also aims to construct and rehabilitate wash facilities in schools and health centres, and ensure availability of services across 21 primary and 9 secondary schools. In addition, this programme provides clean water for day to day consumption to meet children's needs at schools and the surrounding neighbourhoods.

The MoU was signed by HE. Dr. Tariq Al Gurg, Chief Executive Officer and Member of the Board of Directors at Dubai Cares and Mohammed Al Shamsi, Acting Executive Director-UAE Water Aid Foundation (Suqia) during a ceremony held at Dubai Cares' office.









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

MD & CEO receives
Singapore's
Ambassador to the
UAE in a farewell visit





And welcomes Consul General of Belarus And welcomes Chairman
of The Chinese Silk Road
Fund





And receives the Consul General of Japan

Delegation from Saudi Arabia's Marafiq learns about DEWA's experience



INTERNATIONAL WOMEN'S DAY



DEWA unleashes our potential and expands our development prospects: DEWA's female leaders

The UAE has achieved considerable progress in enhancing women's participation in different areas of life since the foundation of the Union. The wise leadership of the UAE follows the footsteps of the late Founding Father Sheikh Zayed bin Sultan Al Nahyan, who believed that the development of our society is achieved

by empowering women, encouraging their participation and enabling them to perform their roles to the fullest. Dubai Electricity and Water Authority (DEWA) plays a pivotal role in empowering and enabling women while building their capabilities. This is by providing a positive and stimulating work environment that

supports working women and helps them balance their professional and social lives. It also grants them the full confidence to harness their scientific and practical potential to achieve success and excellence, and actively participate in development efforts, building the homeland, and in preparing future generations.





We aim to increase female participation in innovation and energy

"DEWA is one of the most appealing places to work for women. The top management works on increasing women's participation in all sectors, including its operations and generation. It also focuses on engaging women in the decision-making process, and in anticipating and shaping the future. DEWA is committed to supporting women's roles and increase their participation in energy, innovation and creativity. DEWA plays a pivotal role in women's empowerment through a motivational work environment, that has a positive impact on DEWA, and society as a whole," said Khawla Al Mehairi, Executive Vice President of Strategy and Government Communications at DEWA.

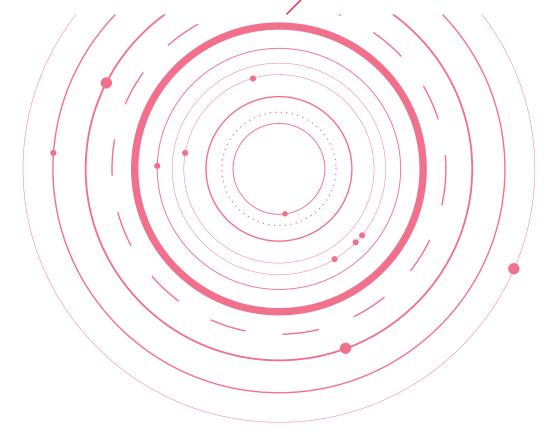
"DEWA has 1,933 employees, including 646 in the engineering and technical sector. This makes DEWA one of the largest government organisations in Dubai to employ women in technical positions within the energy sector. 80% of DEWA's female workforce are UAE nationals. This number increases to 87% in the engineering sector. Our Emirati employees represent a bright future for Dubai and the UAE. This makes them role models for effective national work and in building a strong and cohesive society that is capable of keeping pace with changes. Our female employees do a lot of voluntary work, inside the UAE and abroad. In 2019, DEWA's female employees spent 13,300 volunteering hours in 40 different humanitarian and social initiatives. They also participated in several conservation programmes and awareness projects, especially ones that target women," Al Mehairi added.



DEWA follows the footsteps of the wise leadership

Amal Koshak, Vice President of Marketing and Corporate Communications at DEWA, affirmed that its female employees have managed to make a difference and prove that women are critical and influential partners in development. "Early on, DEWA realised the importance of providing all capabilities to empower its female employees to make a sustainable and positive change. It is one of the leading government organisations in Dubai for engaging women in the decision-making process. This makes DEWA a role model for public and private organisations inside and outside the UAE. Statistics show that women represent 32% of employees in renewable energy, compared to 22% in conventional energy sectors such as oil and gas. DEWA spares no effort in providing opportunities and overcoming challenges to enhance gender equality as part of the global transformation of the energy sector. DEWA is also committed to building on previous achievements by Emirati women as key partners in the sustainable development process and of DEWA's renowned global position," she said.

INTERNATIONAL WOMEN'S DAY



Attracting talents and inspiring female calibres

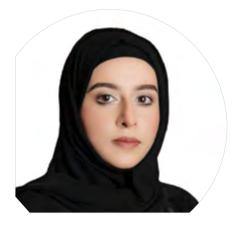
"We exert maximum efforts at the Human Resources department to attract female talents who can contribute effectively to DEWA's success story. DEWA's female employees represent 40 nationalities capable of teamwork. This is a source of motivation and inspiration. which enhances the harmony, cohesion and friendly relations among all employees. DEWA is committed to achieving the wise leadership vision to support and encourage Emirati women and provide them with all the necessary tools to succeed and take top positions. as well as establishing gender equality as a priority in the UAE," said Maryam Al-Mutaiwei, Vice President of Human Resources at DEWA.

Significant milestones of success and excellence

Engineer Laila Al Ahli, VP - Operational Technology Security at DEWA highlighted that all DEWA's female employees receive care and attention and work in a developed, safe, and stable environment that strengthens their skills and capabilities. It also inspires them to create and innovate. "DEWA's experience in empowering society through women is a role model for the UAE's experience in this area. The role of Emirati women at DEWA is witnessing constant development. Their effective and positive contribution in decision making and adaptation to change continues to evolve. The support of the wise leadership and DEWA's top management as well as our employees' efforts, persistence and commitment to the ethics and values of our ancestors, have helped Emirati woman lead and perform their tasks efficiently with merit. They are the source of motivation, inspiration, and examples of dedication, diligence, tolerance and acceptance of others," said Al Ahli.

Effective participation in leading the energy and water sectors

"DEWA attaches special importance to women's employment in the engineering and technical sectors, and the Emiratisation of those specialisations, as well as preparing generations of UAE nationals who can keep pace with DEWA's needs and expansion plans. We are deeply grateful and happy with DEWA's keenness to provide their employees with technical and engineering skills according to the highest international standards. It also trains and qualifies them theoretically and practically through pioneering training programmes in research and development; shaping the future; keeping pace with the Fourth Industrial Revolution; and using disruptive technologies. This enables them to participate in leading the energy and water sectors effectively," said Engineer Haifa Busamra, VP Transmission Commissioning, Transmission Power at DEWA.







Supportive and motivating work environment

"DEWA provides a supportive environment for women empowerment and leadership, making full use of their innovative and creative potential. This positively reflects on their professional and social lives and has a significant impact on society as a whole. In line with DEWA's top management directives, the Women's Committee attaches great importance to supporting its female staff and encouraging them to succeed, prove their capabilities, and promote their role in DEWA's achievements in different areas. Throughout the vear, the committee organises various motivational and awareness lectures on maintaining a balance between work and personal life, successful education for children, and health awareness. The committee provides multiple sports activities, supervised by certified trainers, for the female employees. It also organises educational visits to key and modern landmarks in Dubai, in addition to developing the personal abilities of female employees, through art and craft workshops. The committee organises several events that consolidate the national identity and contributes to empowering women and enhancing their role in society," said Fatima Mohammed Al Jokar, Chairperson of DEWA Women's Committee

Providing career stability

Fatima Deemas, Senior Manager of Internal Communications at DEWA, said that DEWA's leadership supports and empowers women across all domains. This paved the way for them to occupy key positions and has increased the number of female employee in the field, reflecting a bright image about women in DEWA, which has, in a short period, succeeded in bridging the gender gap. DEWA provides equal opportunities and privileges for women and men in the workplace, while enabling female staff to achieve a balance between their personal and professional lives, ensuring their happiness.

Continuous training and development

Fatima Al Marzooqi, Senior Manager of Learning and Development at DEWA, praised DEWA's role and strategy to ensure continuous training and development to all its female staff. "DEWA encourages its employees to take part in training courses and provides them with opportunities to continue education and receive prestigious certificates inside and outside the UAE. DEWA ensures that women empowerment starts by enhancing their capabilities and advancing their performance to the highest levels," said Al Marzooqi.



PERSONALITY



SAMI AL REYAMI

Editor in Chief at Emarat Al Youm

"Energy is the main pillar of developing any nation and the media plays an important role in raising public awareness about responsible consumption" says AI Reyami

1. HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai; and HH Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces, have announced the UAE Nation Brand Logo. What is the role of the media to achieve the goals of this logo and convey its message?

"There is no doubt that the UAE Nation Brand Logo is not just a formal event related to creating a new design that reflects the renaissance of our state, but also it represents the desire of the wise leadership in inspiring future generations, and the pledge that the state's current development and prosperity in all areas pave the road for bigger, broader, more important, and sustainable steps. We have learned from our leaders that relying on current achievements and not building on them, means the beginning of the decline,

which is not in our country's dictionary.

Therefore, the UAE Nation Brand Logo establishes a more prosperous future, in which the state will be ranked first in all vital fields. This is in accordance with the fifty-year strategy. 2020 will be the year of preparation for the next fifty-year strategy. His Highness Sheikh Mohammed bin Rashid Al Maktoum. Vice President and Prime Minister of the UAE and Ruler of Dubai, outlined the goals of the next 50 years by saying, "We announce today next year, the year of preparation for UAE's 50th anniversary... We will develop our plans, projects and thinking. 50 years ago, our founding fathers designed our lives today. So, we want next year to design the future of generations to come in the next fifty

From the careful understanding of His Highness' words, we concluded that the

role of media will be pivotal throughout, as follows:

First: The media should adopt an advanced approach that sincerely and professionally reflects the economic, social and cultural achievements.

Second: The media should not give in to the current challenges, imposed by digital platforms and social media. The media must be effective to regain its ground in the society, as it's the cornerstone of any development.

Third: The media should develop its working mechanisms, to make interaction and participation with members of society an essential part of its work. The media should not be satisfied with the conventional role of broadcasting from only one side.

Fourth: The media should keep pace

with the state's renaissance, by investing in the latest technology and harnessing it to serve all relevant parties.

2. The media has always been a strong partner in economic, social, and environmental sustainable development. What are your organisations' efforts in this?

"Since its launch in 2005, Emarat Al Youm has worked to keep pace with the UAE's dream, and especially Dubai's dream, the inspiring and unique city in terms of its development and renaissance in a race against time to lead the world in everything.

The establishment of Emarat Al Youm was not an ordinary event in the press and media in the UAE and the region, because it has been unique, since it was first published on September 19, 2005, heralding a new approach in journalism. Besides the layout of what is known internationally as tabloids newspapers, Emarat Al Youm has been recognised by readers from this day on, who felt that it voices their issues, dreams and aspirations for the future.

Like any beginning of any exceptional project that deviates from the mainstream, Emarat Al Youm faced many challenges. However, it endured and received great support from the wise leadership's vision that is proactive and knows where to place its bets. 15 years later, the picture has completely changed, and Emarat Al Youm has become recognised, respected and followed by everyone, especially after ensuring its commitment to accuracy, balance and objectivity.

Through its 15-year career, Emarat Al Youm has been present in many local issues (economic, social, cultural, and sports). It has become an essential source of information, not only for its readers, but also for relevant Arab and international agencies and media. Many of the issues it raised had a wide impact and influenced some policies, laws and decisions.

In parallel to its editorial mission, which is based on professionalism, the newspaper adopted a humanitarian mission that is no less unique and distinct. It allocates a section on humanitarianism as well as concerns, crises and issues of a personal nature, to extend a helping hand to those who need it. This helps them overcome problems, some of which are very complicated, helps them to cope with stress, provides information on illnesses

and helps the unemployed find work.

Emarat Al Youm managed to be significantly present in digital journalism and social media platforms, as a result of its excellence. This follows the vision of boldly keeping pace with the latest developments, and investing the new, broad world of technology."

3. Media outlets are an important platform for organisations, especially businesses. What kind of support do you provide to deliver the messages of those organisations to the public? "Emarat Al Youm was one of the main supporters of businesses in the UAE, by focusing on important paths, such as firstly highlighting the legislations and laws that advance all sectors, especially the real estate sector. The newspaper has highlighted many relevant issues to this. Secondly, Emarat Al Youm attaches great importance to the corporate social responsibility in business. It has published many stories and investigations to unveil the failure of many companies to commit to their social responsibility. This contributed later to adopting legislations that regulate social responsibility.

Thirdly, Emarat Al Youm pays great attention to the young, and supports their initiatives and investments in SMEs. It also supported youth who have launched their own projects, by highlighting and promoting them in dozens of stories. This is in cooperation with many institutions, including the Dubai SME."

4. How can organisations, especially those in energy, engage society segments in implementing its strategies and achieve their sustainability goals?

"Energy is one of the vital issues that is directly linked to citizens and residents' lives. This file has become an essential pillar in the development of any country. If the energy sector is organised, advanced, and sustainable, it positively affects all other economic sectors, and vice versa.

The media plays an important role in educating the public on the importance of rationalising consumption, to preserve the energy, the local and global environment from pollution resulting from energy generation. It also highlights the importance of renewable energy, as the future alternative to fossil fuels.

The level of awareness on energy,

environmental pollution, and the resulting climate change worldwide still cannot meet the level of environmental risk, despite how important this is. Therefore, it is the responsibility of energy companies, which spend huge sums of money to achieve this goal, to intensify their awareness efforts, and build their relationships with the media, to deliver educational messages directly, smoothly and simply."

5. We would like to know the latest developments in conventional media outlets amid the domination of digital media and social media platforms?

"There is no doubt that digital media gave wide access to what is now called social media, a term that reflects both positive and negative aspects. The positive is that the public can easily express its views, through social networks. However, these platforms have become a source of rumours and fake news that is a source of concern for society. It mainly affects the confidence of citizens towards the country, their peers, and sometimes themselves. This is because rumours usually cause concerns.

Unfortunately, fake news is spreading at a much faster rate than real news, and this is what led to Facebook to announce that it has allocated millions of dollars to fight fake news through users' accounts.

Everyone should participate in fighting fake news and its spread among members of society. Journalists play a bigger role of revealing the truth and presenting it to the public. This type of news, which usually intimidates and exaggerates stories, spread quickly.

I expect that the future will support the conventional media of old institutions that have existed for many years. Those institutions follow strict professional and ethical standards, and are supported by professional journalists, certainly after recipients have become more aware of the news flow and wide spread of rumours over the past years.

At Emarat Al Youm, we have gained credibility, which made the newspaper the primary source of correct information for a wide range of readers. Therefore, I am optimistic about the future of journalism and the future of the real media. The public will realise one day that real information can only be obtained through well-established institutions that have credible reputations."

TIPS AND TRICKS

7 TIPS FOR WATER CONSERVATION

when using domestic appliances





Dishwashers

- Only run your dishwasher when it is full to make the most use of water, energy and detergents.
- When purchasing a new appliance, look for one offering several different cycles including Eco cycle. This will allow you to select more energy and water-efficient cycles when heavy-duty cleaning is not required.
- When purchasing a new dishwasher consider purchasing one with a high ESMA energy efficiency rating (5 or 4 stars).

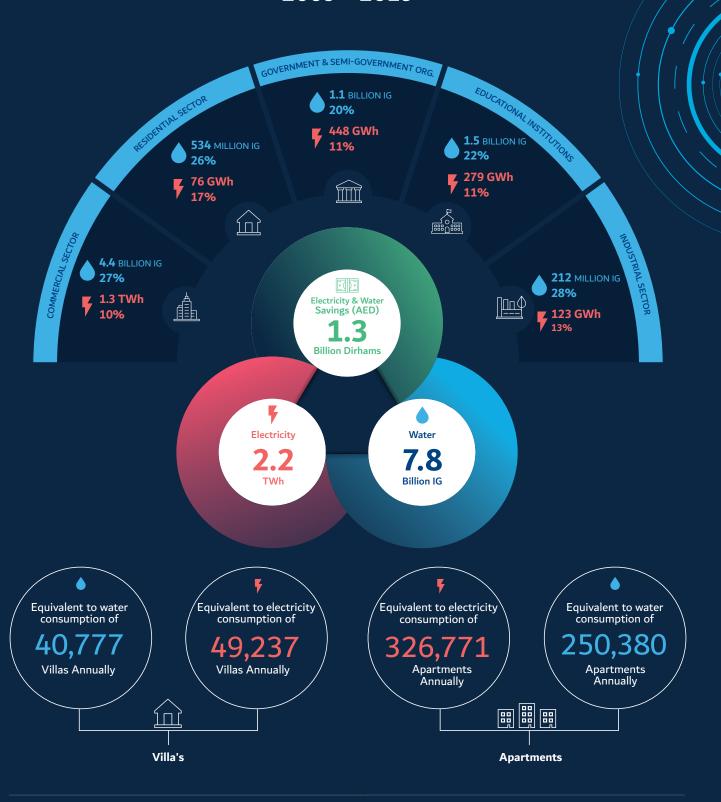
Washing Machines

- Wait until you have a full load of laundry before running the machine to save both water and energy. If you can't wait for a full load, use the right water level to match the size of the load.
- When purchasing a new washing machine, consider purchasing one with a high ESMA energy efficiency rating (5 or 4 stars), to save energy.
- Reducing the temperature at which your washing machine operates is an easy way to save electricity. You don't always need to wash your clothes on higher temperature settings.
- Dryers use a lot of electricity. Take advantage of the sunshine and hang your clothes outside to dry. This also helps you reduce your consumption of electricity.

40

Cumulative savings for targeted categories through conservation programmes

2009 - 2019



















INSPIRATION



RASHID BIN HUMAIDAN

EVP of Distribution (Power)



The Division has contributed effectively in the UAE, represented by DEWA, maintaining its first global ranking for the third consecutive year, with scores of 100% in all Getting Electricity indicators of the World Bank Doing Business Report 2020. The report measures the ease of doing business in 190 economies around the world. DEWA has also achieved a new world record in electricity Customer Minutes Lost (CML) per year, recording 1.86 minutes, in Dubai, compared to around 15 minutes recorded by leading electricity companies in the European Union. The Division played a pivotal role in this as well.

2. What are the plans and strategies adopted by the Distribution to improve competencies?

The Division adopts plans and strategies that align with the Human Resources plans at DEWA to improve competencies. This is through several training programmes to the Division's employees, that are tailored to their needs, and improve their capabilities, such as: Graduate studies scholarship programmes (inside and outside the UAE); Participating in training programmes and conferences (inside and outside the UAE); Smart learning programmes; Knowledge exchange programmes; and Future Leaders programme.

3. What are the activities that target employees to strengthen their skills?

Besides DEWA's training and development programmes, the Division provides an internal specialised training programme (technical) in managing distribution operations for new employees, to strengthen their skills. Employees can learn more about those programmes through the Smart Office App. The Division developed Edha'at event to showcase the success stories of projects and initiatives we implemented. This spreads the knowledge and experiences. During the Health and Safety Week, and the Innovation Week, the Division attracted expert speakers from the public and private sector to share experiences and best practices.

4. How do you motivate your team to do their best and achieve the desired results?

The Division constantly strives to provide a positive, happy, and motivating work





environment for employees, through adopting various programmes, and activities across DEWA. These include: Tejori Al Saada; internal awards across DEWA; regularly awarding employees across the sector for different areas (internal awards, sports achievements, participating in different events,.. etc.); the participation of the Division's leaders in different event to encourage and motivate employees; holding workshops and motivating courses for the Distribution employees; forming internal happiness teams across departments to organise employees happiness events (social gatherings for employees, El Meer Al Ramadani, Iftar,.. etc.).

5. Do you think this is the best way that can be adopted by other departments as well?

Yes, it has proved success in achieving the desired results.

6. Human resources are the main asset of developing any department. What are the employees' contributions in this area?

The Division consists of many employees of outstanding talents who proved competency in all areas. They are key members in several main teams. The Division is also one of the best departments at DEWA in terms of number of suggestions, and the number of proposed and implemented development ideas. This helped the Division receive several internal and external awards across the Government of Dubai (Dubai Government Excellence Program). These include AL Namoos team who presented innovative ideas

to develop getting electricity and thus helped DEWA maintain its first global ranking for the third consecutive year. The awards also included winning the Smart Grid Project at Asia Power Awards; winning eight awards at Ideas America; seven awards at Ideas UK; and one award at Ideas Germany.

7. DEWA considers Innovation and the Future the main supporter in its excellence. What are the most

important partnerships in this area?

The Division partnered with Dubai Municipality in construction license, which enhanced the customers experience and their happiness. We also partnered with the Roads and Transport Authority (RTA) for the immediate issuance of No Objection Certificates (NOC) to access services.

8. How does the positive and constructive cooperation with other departments enhance the achievements and successes of DEWA. Which sectors do you regularly deal with? How do you work together to enhance the work mechanism?

The Division works closely and regularly with other DEWA departments to develop its services through implementing and updating agreements on the level of service between them. These includes cooperation in energy transmission to facilitate getting NOCs for infrastructure; collaboration with the Energy and Water Planning for the transmission of power stations from 33/11 kilovolt to 132/11 kilovolt: collaborating with the Innovation and the Future Division to automate several services and operations to improve the work mechanism and achieve the Smart Dubai initiative.





MEET YOUR COLLEAGUES

FOCUS ON OUR FACILITIES



DR. AAESHA ABDULLA Alnuaimi

Dr. Aaesha Abdulla Alnuaimi joined DEWA in 2017 as a Senior Researcher – Solar Energy Research at its R&D Centre. DEWA has opened new prospects for professional excellence for Dr. Alnuaimi enabling her to take leading positions. She currently works as the Director of the Solar Innovation Centre.

Dr. Alnuaimi has about 8 years of professional experience in the solar energy field. She led research projects related to solar technologies development and validation in desert harsh conditions. In her current role, she directs efforts to foster clean technology innovation to promote sustainable energy future in Dubai and beyond and contribute to building a competitive, knowledge-based economy in the UAE. Alnuaimi received her PhD and master's degree in microsystem engineering with honours from the Masdar Institute of Science and Technology in collaboration with Massachusetts Institute of Technology (MIT). Alnuaimi is considered the first Emirati specialised in the field of nanotechnology for solar energy applications and she is the first Emirati to fabricate crystalline silicon solar cells made in UAE.

Alnuaimi gained international experience by attending trainings and internships abroad. She completed an internship in Dresden, Germany as process engineer at Global Foundries, and another internship as a

research engineer at the Technical Universität Dresden. She also received training at Bilkent University, Ankara on manufacturing of solar cells and joined Stanford University, USA as a visiting scholar.

I hroughout her career, Dr.Aaesha has received extensive recognition for her work in the form of awards and honours such as Woman in Solar Energy Award 2019 from the Middle East Solar Industry Association; the Sheikh Rashid Award for scientific outstanding, the UAE Awards for the Advancement of Post-Graduate Education in the energy field; Young Emirati Researcher Prize from the National Research Foundation; and the Distinguished Specialised Employee Award at DEWA.

Alnuaimi has co-authored more than 30 conference proceedings and scientific journal papers in ranked journals and international conferences. She is part of the Mohammed bin Rashid Academy of Scientists - a consortium of the UAE's top researchers in the fields of sciences, engineering and medicine. She is now enrolled in the public sector innovation diploma at the Mohammed bin Rashid Centre for Government Innovation and Impactful Leadership program at the Mohammed bin Rashid Centre for Leadership. Alnuaimi is also a volunteer in several academic areas in the field of solar energy and physics.





NOORA AL EMADI

YOUSUF AL MATROUSHI

Noora Al Emadi joined Dubai Electricity and Water Authority (DEWA) in April 2012. She worked at Water & Civil division for a year, then moved to the Marketing & Corporate Communication as a Senior Executive for Events. In recognition to her outstanding performance and efforts to develop her skills, she has been promoted to Assistant Manager, and currently works as Acting Manager — Corporate Affairs, Hospitality & Protocol.

Al Emadi started her career in 2009 at the Engineer's Office of His Highness Sheikh Mohammed bin Rashid Al Maktoum. She worked there for 4 years as Local Affairs Executive, and was responsible for Emiratisation.

Al Emadi studied at the Higher Colleges of Technology in Dubai and received a High Diploma in Travel, Tourism, and Events Management. She also received a bachelor's degree in Business Management with an 'Excellent with honours' grade.

In a bid to give back to the nation, Al Emadi believes in the importance of volunteering. She started volunteering in 2010 with several programmes, including the Community Development Authority (CDA)'s programme 'Dubai Volunteering Program,' and Takatof - a national programme to encourage and support youth to volunteer and be productive with their spare time. Al Emadi is currently part of the 'Nashama UAE Volunteers,' launched in 2009. Through this programme, Al Emadi organised social events and Ramadan events; field visits to hospitals; and senior citizens. This is in addition to organising the 'Through Their Eyes' initiative, which recognises workers from different segments and highlight their role in the society.

Yousuf Abdullah Al Matroushi joined DEWA right after graduation. He started his career with DEWA as an assistant engineer and shift in charge at Low Voltage Network Maintenance section of the Distribution Power division. His professional excellence and self-development resulted in his promotion to an electric engineer.

Al Matroushi participated in DEWA's programmes and initiatives, such as Climate Change Ambassadors Programme in 2017 - 2018, launched by DEWA in accordance with its strategy to enhance environmental awareness, protection of natural resources, and reducing carbon footprint. The programme started by sending climate change ambassadors on a scouting trip to Tanzania to know more about the impact and consequences of climate change. The trip was organised in partnership with National Geographic.

Al Matroushi has several achievements since joining DEWA. He received prizes and certificates from DEWA and the government. This includes the second place in the shortlist of Dubai Government Excellence Program (DGEP) awards for the "New Employee." He also won the best employee in Distribution maintenance department in 2016, and the Best Shifts in charge in LVNM section in 2016 and 2018.

Al Matrooshi graduated with a diploma in electric engineering from the Higher College of Technology. His study focused on solutions and technologies in clean energy sources. He stood out in mathematical modelling, achieving the highest grades. This encouraged him to plan to continue his academic career by obtaining a Bachelor's and Master's degree.

MEET YOUR COLLEAGUES

NEW JOINERS



ENGINEER AISHA Fahed al Hosani

Aisha Fahed Al Hosani joined DEWA in January 2020 as a Senior Technician at the Power Transmission Division. She holds a bachelor's degree in applied sciences of electrical engineering technology in 2018 from the Higher Colleges of Technology - Sharjah. She had a one-month internship in 2018 in the engineering and development administration at Sharjah airport. She worked at 6 different sections including electricity, projects, and facilities management.

Al Hosani participated in 16 training and volunteering programmes for 9 years. These programmes included Advanced First Aid at Work, Microsoft Office Specialist, Creative

thinking and excellence development, and Developing work and behavioural skills. She also successfully participated in volunteering activities with Umm Al Quwain Police, and Umm Al Quwain Charity Association. The activities included the "Safe Summer" initiative.

Al Hosani had an early passion towards innovation. She designed her first innovation during her undergraduate studies. It was a system to protect against Sudden Infant Death Syndrome (SIDS). The innovation reduces the risk of SIDS especially in the first month after birth. It measures and analyses the bio signals of babies in real-time through a mobile device (smart app or tablet).





GHARIB SALEH

OMAR ALBAKER

Gharib Saleh joined DEWA in January 2020 as a Manager of NOC & Permits at the Generation (Energy and Water) division. His professional experience over 20 years has enabled him to hold this senior position at DEWA.

Saleh studied at the Higher Colleges of Technology in Dubai. He joined the college in 2000 and received several certificates. These include Certificate in Construction Technology; a diploma in Construction Engineering; a high diploma in Civil Engineering; and a bachelor's degree in Engineering Management in 2014.

Saleh previously worked at other government organisations. He started his career in 2000 as a Buildings Inspector at Dubai Municipality. Later, he was promoted to Head of Buildings Maintenance and Public Facilities Section. Between 2005 and 2013, Saleh worked as an engineer at the Structural Inspection Section of the Ports Customs and Free Zone Corporation (Trakhees). In 2008, he was promoted to Manager at that Section. Just before joining DEWA, Saleh worked as Manager of Infrastructure at the Emirates Central Cooling Systems Corporation (EMPOWER).

Omar Al Baker currently works as Senior Manager Assurance and Remediation at the Innovation and the Future division. Albaker has more than 15 years of experience in information security and networks.

He joined DEWA in 2020 after spending 15 years at Etisalat. He excelled through his work at Etisalat as a Senior Engineer – Security Audit, to Manager of Security Assessment. He contributed to providing a high level of security at Etisalat by managing and conducting more than 300 hacking tests and security audit projects in different technologies, such as Information Technology, Cloud Computing, and the Internet of Things (IoT).

Al Baker holds a bachelor's degree in Computer Engineering in 2004 with Excellent with first honor degree' from the Etisalat College (now the Khalifa University of Science and Technology). He also holds an 'Accredited Incidents Handler' certification, which is part of the GIAC certificates from SANS Institute.

He achieved the Certified Information Systems Security Professional (CISSP) in 2007. Al Baker's academic ambitions did not stop here. He also earned a Masters of Business Management with Merit in 2014 from the University of Strathclyde in Dubai.

AROUND THE WORLD



American companies adopt green energy

Google and Amazon, among many other giant American companies, currently focus on enhancing their presence in the European Union. This is through keeping pace with EU ambitious climate plans and use of green energy in their projects. The EU encourages more investors to take this step, in order to reduce greenhouse gas emissions as well as energy costs in the whole region.

Alphabet, the holding company of Google and other companies, is among the most prominent investors. Last year, Alphabet bought enough wind and solar power energy to power its European data centres. This energy is enough to supply half million homes in Europe every year.

Amazon works on launching several projects in Europe using clean energy only. These include supporting the first wind farm in Ireland that works without financial aid. The projects also included supporting a group of renewable energy projects in Spain, Sweden, and the UK. Meanwhile, Alcoa, McDonald's, Facebook, and Microsoft have also adopted clean energy as a main source of energy in their Europe branches.

Since 2007, more than half of the renewable energy long-term contracts in the EU have been signed with American companies. Those contracts saved up to 10% and ensured stable and competitive prices for the new

energy sources. These new contracts redirect European energy companies, which have been supplied from coal, gas, and nuclear energy plants, towards cleaner and safer green energy sources. The growing American investments come with the EU efforts to reduce greenhouse gas emissions to 0%. This will partially reduce carbon emissions as well as other harmful emissions, and eventually counter global warming. This is achieved by increasing the renewable energy share to 32% by 2030.

Achieving the EU's ambitious plans will cost about EUR 260 billion (USD 289 billion) annually over the next decade, according to officials.

"We need a huge increase in renewable energy investments," said the European Commissioner for Energy Kadri Simson. She also called on allocating a mix of public and private funds to push forward Europe's shift to clean energy.

Energy buyers say there is another geographical challenge for spreading green energy, and that is connecting electricity, which depends on clean energy sources from one part in Europe to another. The European energy plans must overcome the differences in the border markets, which are still divided geographically. However, some have already started supporting clean energy producers,

by reducing the volume of electricity deals that depend on traditional energy sources for companies. "All those organisations are committed to the European government plans to use 100% of power output from renewable energy," said Sam Kimmins, Head of RE100 at The Climate Group. It is a group of more than 200 multinational companies, including Apple, Google, Mars and Citigroup.

In the US where companies say regional markets are more integrated, buyers have signed contracts with companies to buy about 30,000 megawatts of wind and solar energy since 2006, compared to only 8,263 megawatts in Europe, according to data from clean energy research firm Bloomberg NEF.

Google, the world's largest buyer of renewable energy, signed the first renewable energy contract in 2010 in the US, with help of the EU. The company also got all its clean energy needs globally in 2017 and 2018. Facebook is looking forward to repeating Google's climate achievement this year, and Amazon said it will use 100% renewable energy by 2030. Bloomberg NEF said US companies pledge to use up to 53% of their energy, via wind and solar projects backed by companies in the EU. Consequently, their investments will boost demand and ensure expansion of green energy within Europe and gradually eliminate the European government subsidies for renewable energy projects.

PARTNER FOCUS



Dubai launches rapid response service for senior citizens

Dubai will provide full support and care for senior citizens and residents amid the ongoing COVID-19 situation.

The initiative entitled 'Secure Together' was launched by Dubai Police in cooperation with the Community Development Authority (CDA), and aims to provide "services including medical aid, disinfection and sanitation" to the elderly in their homes.

The community-centred service offers rapid response to requests for assistance from the elderly across Dubai.

The new service will prioritise requests from seniors to Dubai Police's command and control centre for essential support and services including medical aid, disinfection and sanitation services at their residences.

Lt General Abdullah Al Merri, Commanderin-Chief of Dubai Police and Commissioner General of the Citizen Services Pillar of Dubai Council, said the country's leadership places the highest priority on meeting the vital needs of senior citizens, both nationals and expatriates.

"The initiative seeks to respond to their urgent requirements in this critical period during which we have an even greater responsibility to take care of this vulnerable segment of society. Serving the community and working constantly to ensure the safety and wellbeing of people are some of Dubai Police's key duties. We will spare no effort to fulfill these responsibilities," he said.

An updated database of places of residence of the elderly has been developed to help

authorities respond rapidly to urgent requests and emergencies, and provide them with social support and care.

Meanwhile, Ahmad Julfar, Director General of the Community Development Authority in Dubai, said the service is part of integrated efforts being made under government directives to curb the spread of the COVID-19 pandemic and protect the most vulnerable segments.

He called on all members of the community to commit themselves to protecting themselves and their loved ones against the risks of infection.

Dubai Police and CDA invited senior citizens and residents to register for the service by visiting the Dubai Police website https://www.dubaipolice.gov.ae

PARTNER FOCUS

DHA develops the first solar-powered mobile blood bank in the UAE



Dubai Health Authority (DHA) announced that its engineering department will develop the first solar-powered mobile blood bank in the UAE. This is in line with the UAE's directives and Dubai's strategy to shift to clean energy.

The Engineering Department of DHA said that it had initiated the project, within the plans of smart development and transformation in all services. This is to eliminate the many negatives of using diesel for buses and blood transfusion devices. It also said that all devices of the new blood transit bus were replaced to work with solar energy, ensuring reduced noise, vibration, environmental pollution. Traditional buses expose employees to hazards during their work. All devices on the new bus have become noiseless, including ACs.

The development of the solar-powered bus is done in cooperation with the Department of Laboratories and Genetics at DHA. This supports DHA's strategy to support innovation and environmental safety. The Dubai Blood Donation Centre collected more than a quarter a million blood units within

five years. This is a result of using modern technologies that increased the number of blood units collected and thus, achieved global credits and achievements.

The Centre has succeeded in collecting 53,150 blood units in 2019, 51,953 units in 2018, compared to 50,601 units in 2017, in addition to 49,223 units in 2016, and 48,296 units in 2015.

"Dubai Blood Donation Centre has achieved several accomplishments locally and globally. chiefly the first place in the UAE with international accreditation from the American Blood Banks Association (AABB) in 2012. It has also won Unifants International Award in June 2019, for the "Be the first to donate blood" campaign. The Centre won the Silver Stevie Award in 2019, for the best smart app in the public sector 'My Blood', as well as the use of smart technologies and applications to facilitate the blood donation process. My Blood was also nominated for the Hamdan Bin Mohammed Smart Government Award in 2017, among eight other government initiatives, said Dr. Mai Raouf, Head of Dubai Blood Donation Centre.

The UAE is the first Arab country to operate a peaceful nuclear power plant

The UAE has achieved a new historic success that enhances it advanced position and renowned reputation among the developed world, economically, technologically and socially. It has started operating the first peaceful nuclear power station. The Federal Authority for Nuclear Regulation (FANR), the regulatory body responsible for the nuclear sector in the UAE, has issued a license for operating the first unit of Emirates Nuclear Energy Corporation (ENEC)'s Barakah nuclear power plant. ENEC is responsible for operating the plant located in the Al Dhafra region of Abu Dhabi.

HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai; HH Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces, confirmed that the UAE has reached a new milestone as the first Arab country to start operating a peaceful nuclear power plant. Those achievements are made by Emiratis, and that a new development phase will witness issuing a license to operate the first Barakah stations for peaceful nuclear energy.

The UAE is building four units in Barakah nuclear energy plant and the completion rate of the project has reached 93%. The first station's construction operations have been completed, while the completion rate of the second station has reached 95%, the third station 92%, and the fourth station 83%. The stations will contribute to producing electricity that covers 25% of the UAE's needs and reduce approximately 21 million tonnes of carbon emissions annually.

In its 2008 nuclear energy policy, the UAE made it clear that its nuclear programme is peaceful to meet its energy needs. It has signed several international agreements, such as the Additional Protocol, which ensures a peaceful programme.

The life span of nuclear plants is more than 80 years, and they can then be dismantled, stored, or resold. As for fuel-related nuclear reactors, they are stored in a first stage known as water storage between 5 and 10 years, then dry storage for 20 years. The UAE radioactive waste management policy is underway.