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UAE To Present 'National Dialogue On Climate Ambition' At COP27

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Chairman's Message

The world is coming together once again, to reaffirm its commitment to the global climate agenda as the 27th UN Climate Change Conference (COP 27) gets underway this month at Sharm El-Sheikh in Egypt.

Egypt's hosting of COP 27 marks the return of the conference to the MENA region, a vulnerable area on the planet impacted by an unrelenting rise in global temperatures.

At COP 27, a higher ambition on mitigation, adaptation, climate finance, and commitments to reducing global greenhouse gas emissions is necessary to convert pledges and promises into practical outcomes that will deliver sustainable and inclusive economic growth and ensure a smooth transition to net zero.

As hosts of COP 28 next year, the UAE's leadership in global climate action is going to be critical. The UAE is demonstrating success stories with its initiatives and investments that are creating diversified economic growth and fostering future-critical industries and knowledge and providing increased opportunities for all.



**Prof. Mohammed
bin Fahad**
Executive Editor

The UAE has long placed climate action at the centre of its economic growth and diversification strategy and consistently boosted foreign direct investment into renewable energy and other climate-related projects in both emerging and developing markets. The UAE's Net Zero by 2050 Strategic Initiative, a low-carbon, high-growth economic model, is today guiding the nation on its path to sustainable development for the next 50 years.

In the quest to find a greater balance in our collective climate response, fairness and equitability should be prioritized and all sectors must be engaged in the decarbonisation drive. The developing world, and the Middle East in particular, must be part of the transformative solutions to one of the world's greatest challenges as we chart out a comprehensive roadmap for sustainable development.

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SUMMIT: RAK Energy Summit shapes global conversation on climate change and the future of energy sustainability

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GREEN CITY

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CLIMATE CHANGE: United Nations calls for more investment to help nations adapt to an increasingly unstable environment



Upcoming events

UN Climate Change Conference

Date: November 7- 18

Location: Sharm El-Sheikh, Egypt

Science has established beyond doubt that the window for climate action is closing rapidly. Egypt hosts the 27th session of the Conference of the Parties to the UNFCCC (COP27) with a view to building on previous successes and paving the way for future ambition.

A golden opportunity for all stakeholders to rise to the occasion and tackle effectively the global challenge of climate change facilitated by Egypt on the African continent.

Egypt assumes the Presidency of COP 27 with a clear recognition of the gravity of the global climate challenge and appreciation of the value of multilateral, collective and concerted action as the only means to address this truly global threat.

Towards a net positive textile industry by 2050

Date: November 8

Webinar

Fashion can, and must, take a leadership role in leading and accelerating the transition to circularity. The Global Fashion Agenda (GFA) and UNEP are coming together to unveil a new initiative designed to converge industry efforts and provide a clear route of travel. The event will explore the measures needed to meet the 1.5 degree pathway and progress towards a net positive fashion industry by 2050.

Unmanaged waste: The hidden cause of climate change

Date: November 11

Location: Sharm El-Sheikh, Egypt

Fashion can, and must, take a leadership role in leading and accelerating the transition to circularity. The Global Fashion Agenda (GFA) and UNEP are coming together to unveil a new initiative designed to converge industry efforts and provide a clear route of travel. The event will explore the measures needed to meet the 1.5 degree pathway and progress towards a net positive fashion industry by 2050.

UAE To Present 'National Dialogue On Climate Ambition' At COP27

As part of the UAE delegation to COP27 in Egypt, the Ministry of Climate Change and Environment (MOCCAE) will unveil new initiatives that are enhancing the country's efforts to protect the planet and face the challenge of climate change, including carbon reduction in all sectors, enhancing the participation of the private sector, expanding reliance on nature-based solutions

7-18 NOV 2022
SHARM AL-SHEIKH
COP 27



NDCA is a platform to define
and raise sectoral climate
ambition and advance all-
inclusive participation in the
UAE Net-Zero by 2050
Strategic Initiative

internationally to reduce greenhouse gas emissions, and developing and expanding the climate research and development system.

Issa Al Hashemi, Assistant Undersecretary for the Sustainable Communities Sector at the Ministry of Climate Change and Environment said that the 'National Dialogue on Climate Ambition' is one of the most important experiences that will be presented in cooperation with international organisations as an effective model for strengthening the partnership of the whole society in climate action, through which the Ministry aimed to support the country's future directions in reducing carbon and greenhouse gas emissions with an integrated sectorial partnership.

In May 2022, the Ministry of Climate Change and Environment launched the 'National Dialogue on

The 'National Dialogue on Climate Ambition' is an effective model for strengthening the partnership of the whole society in climate action



Climate Ambition' initiative, which aims to enhance the private sector's participation in climate action and reach the highest rates of carbon reduction and removal.

The initiative includes holding monthly meetings to discuss the needs and priorities of each sector separately as well as future directions to achieve net zero, with the participation of decision makers and stakeholders, and led by concerned government agencies, to ensure participatory design.

Al Hashemi said that the Ministry's strategy focuses on enhancing the participation of all national sectors in reducing greenhouse gas emissions rates, especially carbon dioxide, and raising the climate action ambition of these sectors. He pointed out that manufacturing, energy, transportation, cement industries and

finance are the leading sectors for cooperation and coordination to increase their participation and efforts in confronting the challenge of climate change.

He pointed out that as part of its work system, which includes approving a flexible legislative structure and launching specialised initiatives and programmes to promote climate action, the Ministry has launched the 'National Dialogue on Climate Ambition' series, which aim to hold direct meetings with representatives of relevant government and private organisations in various sectors to assess their position, exchange knowledge about requirements of raising ambition and enhancing participation in climate action efforts to ensure sustainable economic development.

He continued: "The initiative also aims to define



the sustainability and climate action expectations for each sector, the innovative technologies and solutions for accelerating work in each sector, and the main actors in each sector, especially private organisations."

He explained that under the initiative a monthly meeting will be held to discuss the needs and priorities of each sector separately as well as future directions to achieve net zero, with the participation of decision makers and stakeholders, and led by concerned government agencies, to ensure participatory design.

In October, the Ministry held the dialogue's fifth meeting with the aim of enhancing the participation of insurance sector organisations in climate action efforts.

The meeting highlighted best practices and

national efforts to enhance resilience to climate change by developing a wide range of insurance services and solutions that contribute to addressing these global risks.

The dialogue estimated major risks associated with climate change in the country with the aim of developing solutions for priority sectors affected by climate change, such as agriculture, transport and construction. These risks will be evaluated by a national team that includes the Ministry of Climate Change and Environment, the Central Bank of the United Arab Emirates and the Global Green Growth Institute (GGGI), in order to strengthen the national climate change adaptation plan.

As part of the National Dialogue on Climate Ambition initiative, the Ministry had launched the 'Climate Responsible Companies Pledge', in which

At COP 27, countries come together to take action towards achieving the world's collective climate goals as agreed under the Paris Agreement



the signatory organisations are committed to measure and report their greenhouse gas emissions in a transparent manner, drafting ambitious plans to reduce their carbon footprint, and sharing these plans with the relevant government agencies to achieve the highest levels of carbon reduction.

The signatories also pledged to manage climate change mitigation and adaptation as core values and principles in their business and operational models, as well as adopt an all-inclusive approach that engages the youth, women and vulnerable segments of society in drafting their net-zero plans.

In July, the third National Dialogue on Climate Ambition meeting targeted the financial sector and focused on the global, regional and local need for innovative financing programs that serve the goals of achieving net zero.

Last May, the Ministry invited more than 50 entities from the government and private sectors and advanced technology companies operating in the waste, cement, energy and advanced technology sectors, to participate in the first meeting of the dialogue.

The discussions came to the conclusion that the ability to reduce carbon depends on four proposed solutions or initiatives.

These include an initiative to reduce reliance on limestone in cement production and to use environment friendly alternatives, such as calcite, an initiative to enable the use of renewable energy in factories, and an initiative to use alternative fuels RDF and energy recovery systems, in addition to an initiative to promote the deployment of carbon capture, storage and reuse technologies.

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إحجز الآن

Mariam bint Mohammed Almheiri, Minister of Climate Change and Environment, conducted an official visit to Romania in October 2022, during which she met with Nicolae Ciucă, Prime Minister of Romania.

UAE, Romania Join Forces For Climate Action

Attending the meeting were Sorin Grindeanu, Vice Prime Minister and Minister of Transport and Infrastructure; Bogdan Aurescu, Minister of



Foreign Affairs; Virgil-Daniel Popescu, Minister of Energy; Petre Daea, Minister of Agriculture and Rural Development; and Barna Tanczos, Minister of Environment, Water and Forests.

During the meeting, the two sides discussed bilateral relations and ways to enhance them in various fields to achieve the common interests of the two countries and peoples. Two memoranda of understanding in the fields of food security and climate change mitigation were signed during the meeting.

Almheiri stressed the importance of UAE-Romania relations in all fields, praising the strength of the two countries' historical bilateral ties, as demonstrated by increasing cooperation in various fields of interest in recent years.

For his part, Ciucă expressed his pride at the

strong relations between the UAE and Romania, stressing his country's keenness to enhance cooperation with the UAE.

The visit is part of the UAE's efforts to follow up on the outcomes of the second UAE-Romania Joint Committee to enhance cooperation between the two countries.

Almheiri also visited DP World's projects in the Port of Constanța in Romania and met with various Romanian companies.



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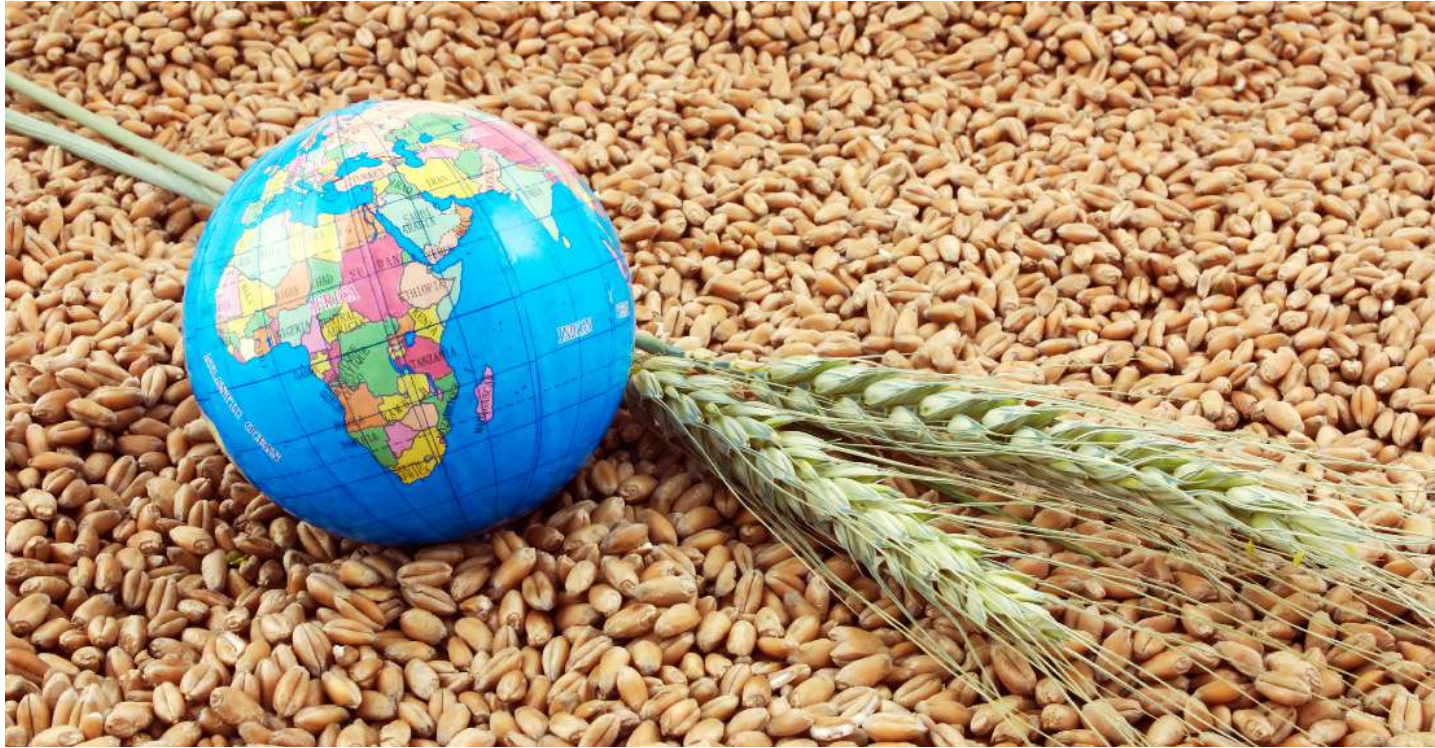
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UAE Tops MENA Region In Global Food Security Index 2022

The Ministry of Climate Change and Environment (MOCCA) revealed on 17 October, that the UAE has ranked first in the Middle East and North Africa (MENA) region on the Global Food Security Index (GFSI) 2022, issued by Economist Impact, compared to the third place in the region for the year 2021.

According to the index, the UAE ranked first out



The Ministry of Climate Change and Environment has revealed that the UAE ranked first in the Middle East and North Africa region on the Global Food Security Index 2022

of all MENA countries in the overall food security index and in the food availability indicator, second in food quality and safety, and fifth in food sustainability and adaptation as well as affordability.

Mariam bint Mohammed Almheiri, Minister of Climate Change and the Environment, said, "Strengthening food security is a strategic priority for the UAE. To achieve this objective, we have adopted an integrated approach that includes the implementation of national strategies and the creation of an enabling legislative and regulatory framework."

The comprehensive National Food Security Strategy 2051 aims to develop sustainable food systems by using modern technologies, supporting local production, building international partnerships to diversify food

Globally, the UAE ranked 23rd in the overall food security index, seventh in food availability, and 16th in food safety and quality



sources, and enacting laws and policies that improve nutrition and reduce food waste with the aim of ensuring food security under any circumstances.

The Minister noted that ensuring the availability of food and the continuity and flexibility of supply chains is one of the main pillars of the strategy. She explained that this involves boosting cooperation with other countries worldwide, diversifying food import sources, increasing foreign agricultural investment, and monitoring import markets to verify compliance with the highest international food safety standards.

Globally, the UAE ranked 23rd in the overall food security index, seventh in food availability, and 16th in food safety and quality.

In August 2021, MOCCA signed a Memorandum of Understanding with Emirates Development

Bank (EDB) to cooperate in identifying innovative financing solutions to support entrepreneurship in the agrifood industry based on the use of modern technologies and sustainable systems.

Food trade is one of the most important and dynamic sectors in the country that has witnessed a rapid recovery after the COVID-19 pandemic. The daily food import rate now exceeds 41,000 tons, a growth of 21 percent compared to the same period of the previous year.

The annual GFSI records and measures year-on-year changes in the structural factors that affect food security. The index considers several metrics, including food cost, availability, quality, and safety, as well as natural resources and resilience across 113 nations. It is based on 58 indicators that measure the drivers of food security in developing and developed countries.

Dubai Airports Awarded For 'Best Aviation Sustainability Programme'

Dubai Airports, the operator of Dubai International (DXB) and Dubai World Central (DWC) airports, has been awarded the Best Aviation Sustainability Programme (Environment pillar) at the Sheikh Mohammed bin Rashid Global Aviation Awards, for its ongoing efforts in helping to develop a more sustainable global aviation industry.



The award was presented at a prestigious ceremony held in Montreal, Canada, at the 41st General Assembly of the International Civil Aviation Organisation (ICAO) recently.

Some of the sustainable projects include the replacing of 150,000 conventional light fixtures across DXB's terminals and airfield with more efficient LED lights, introducing electric and hybrid ground service vehicles, and building a 15,000-panel solar array at DXB's Terminal 2, the largest at any airport in the Middle East.

Omar Binadai, Executive Vice President of Technology & Infrastructure at Dubai Airports, said, "We are delighted to be recognised as a positive force within the industry - one that is helping to support the global aviation community on its journey to a more sustainable future, and an organisation that is both fully aligned with, and

committed to, helping the UAE's wider efforts in achieving long-term climate action goals."

Established in 2016, the Sheikh Mohammed Bin Rashid Al Maktoum Global Aviation Award aims to shine a light on countries, businesses, and individuals around the world by recognising their contribution to the success of the aviation industry. This triennial award reflects UAE's commitment to promote aviation and support to ICAO's 'No Country Left Behind' initiative.

This year, the second edition of the Award was divided into three categories that represent a unique mix of aviation business, including outstanding resource contribution to ICAO programmes, best aviation sustainability programme, and aircraft cabin noise-research and development category.



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Dubai Future Forum Addresses Future Of Economies, Energy, Environment

The Dubai Future Forum welcomed 400 global experts to the Museum of the Future to discuss, research and anticipate groundbreaking transformations across society, space, economies and cities on October 11-12.

The forum touched on vital topics related to the future of government, economies, energy, the environment, space and society. The main

400 global experts led
discussions on research
and groundbreaking
transformations across
society, space, economies
and cities

themes being: Future of the World, What Does it Mean to be Human in the Future, Hedging Our Bets, and Mitigating Existential Risk Through Foresight Mitigating.

“The Dubai Future Forum has come at a crucial time in the UAE’s journey towards the future and Dubai’s aim to become a global hub for talent, technology, innovation and future design,” said Omar Al Olama, Minister of State for Artificial Intelligence. “In a rapidly changing world, Dubai and the UAE are leading a transformational shift. Not only keeping pace with the rapid global developments but working to anticipate them and turn them into opportunities for prosperity and human progress.”

The Dubai Future Forum boosted partnerships between the public and private sectors to build a better future by deploying artificial intelligence,



Forum sought to boost partnerships between public and private sectors to build a better future



blockchain, big data and quantum computing to drive economic growth and sustainable development. It explored new business models, predictive, personalised and autonomous solutions that turn humanity's challenges into chances to build smarter, sustainable, resilient communities.

Recommendations from the Dubai Future Forum will strengthen coordination toward exploring future opportunities and challenges, support innovative ideas, and shape a comprehensive adaptive future.

Khalfan Belhoul addressed the media, stating that the Dubai Future Forum embodies the mission of the Dubai Future Foundation, which is to anticipate challenges and opportunities shaping the future of humanity.

"Through this forum, the Dubai Future Foundation

will continue its work to anticipate and develop future opportunities through strategic partnerships with government entities, international institutions, enterprises and entrepreneurs," he said. "The Dubai Future Forum is the largest global gathering of future experts and hosts more than 400 international participants including experts, scientists, innovators, and specialists to exchange knowledge and create a global platform to build the future," added Belhoul.

The Dubai Future Forum hosted over 70 speakers and 45 global institutions such as the Organisation for Economic Co-operation and Development, the Future Today Institute, the Data Trusts Initiative, the Future of Humanity, the Social Design Institute, the Middle East Institute, EY, Khalifa University, and the Regulations Lab.

UAE Circular Economy Council Opens Lootah Biofuels Factory

The UAE Circular Economy Council inaugurated the Lootah Biofuels plant in Dubai Industrial City during its third meeting of 2022, chaired by Mariam bint Mohammed Almheiri, Minister of Climate Change and the Environment.

Leveraging agreements with public and private sector entities in the food and hospitality



The Lootah Biofuels plant in Dubai Industrial City is as an innovative model for converting cooking oil into biofuel for use in energy production

sectors, the Lootah Biofuels factory collects used cooking oil, treats it, and converts it into biodiesel using the latest international technologies at a competitive price compared to regular diesel.

The launch of the new plant and the consequent increase in biodiesel production capacity by 100 tonnes per day will help the UAE achieve its goal of obtaining five percent of transportation fuel from food waste and non-renewable resources. This project is a model of efficient integrated waste management and will fast-track the nationwide transition to a circular economy.

Following the inauguration, Almheiri said, "The transition to a circular economy contributes to driving sustainable economic development in line with the UAE's vision, which ensures continued growth while protecting the

This project is a model of efficient integrated waste management and will contribute to fast-tracking the nationwide transition to a circular economy



environment and preserving natural resources, in addition to supporting the efforts to reduce emissions and to achieve net zero.”

She added, “Innovative solutions play a key role in accelerating the shift. The Lootah Biofuels plant represents a remarkable model of practical application of circularity principles, and a prime example of active participation of the private sector in achieving the UAE’s goal of developing a circular economy.”

For his part, Abdullah bin Touq Al Marri said that the Lootah Biofuels factory serves as an innovative model of converting cooking oil into biofuel for use in energy production and enhances endeavours to shift towards more sustainable energy and create new economic opportunities that advance the country’s transition to a more flexible and diversified economic model based on

knowledge and innovation, and support the UN Sustainable Development Goals (SDGs).

Dr. Al Zeyoudi stressed that continued efforts to implement the UAE Circular Economy Policy 2021-2031 will consolidate the country’s position as a global economic hub and a preferred destination for foreign investors looking for rewarding prospects in existing future economy sectors that are based on knowledge and innovation and take into account sustainability and conservation of natural resources.

He added that the programmes and projects executed under the umbrella of the UAE Circular Economy Policy strengthen the country’s investment environment and create new opportunities related to the circular economy. They expand the infrastructure of this promising sector, and provide incentives to the private



sector to shift to clean industrial production methods using artificial intelligence (AI) and Fourth Industrial Revolution (4IR) solutions in a manner that consolidates the UAE's position among emerging circular economies regionally and globally.

He also highlighted the importance of the launch of the Lootah Biofuels plant in Dubai Industrial City as a result of cooperation between the public and private sectors for achieving national goals.

Al Olama noted: "Adopting a new economic model in the country will create new exceptional opportunities by stimulating innovation, increasing competitiveness, and driving growth, which enhances quality of life for the current and future generations."

Yousif Saeed Lootah, Chairman of Lootah

Biofuels, expressed his appreciation to the wise UAE leadership for the great attention it pays to promoting the transition to a circular economy, which constitutes an important part of sustainable development.

He said, "The circular economy drives the adoption of efficient and responsible production and consumption patterns, and provides ample opportunities for growth and prosperity for companies that uphold sustainable values and practices, such as Lootah Biofuels."

Lootah added that the UAE government's support for leading projects motivates and empowers young people to achieve their aspirations and contribute to the national agenda in innovative ways. He also highlighted the company's keenness to participate in building youth capacities by providing training opportunities.

Lootah Biofuels was founded in 2010 in Dubai to address the growing demand for alternative fuels in the region



Local and Global Efforts

Following a presentation on the progress of current circular economy projects and emerging project data in the UAE, Anis Nassar of the World Economic Forum (WEF) briefed the Council members on the latest developments in the Scale360° initiative, which brings together global partners to scale up the use of 4IR technologies with the aim of accelerating the adoption of circular economy principles.

The meeting included an overview of BEE'AH's efforts to implement the circular economy model in its operations, and its re.life market, an advanced digital business-to-business platform for buying and selling of recovered commodities through a simple and transparent process that contributes to shaping the future of the recyclables trade in the UAE.

During the meeting, MOCCA signed a memorandum of understanding (MoU) with Union Cement to partially use alternative fuels produced by the Emirates RDF municipal solid waste (MSW) treatment plant in Umm Al Quwain. The move is part of the Ministry's efforts to boost the participation of the private sector in reducing greenhouse gas emissions, implementing circular economy principles, and developing an integrated waste management system.



Dubai Dialogue 2022 Examines Benefits Of Sustainability In Supply Chains

Businesses in the UAE and abroad are reaping big benefits of embedding sustainability into their supply chains, industry experts said during Dubai Dialogue 2022, which was organised by Dubai Chamber of Commerce' Centre for Responsible Business.

The annual conference held under the theme "Embedding Sustainability across the Supply



By embedding sustainability into supply chains, companies were able to reduce costs, boost efficiency, foster innovation and generate a stronger return on investment

Chain", was joined by over 150 participants representing various economic sectors in the UAE. Presentations and discussions highlighted the role of advanced technologies designed to make supply chain processes more efficient and environment friendly.

Panels explored different strategies that businesses can integrate into their supply chain operations that can create long-term value for stakeholders and a positive social impact, as well as enhance their environmental, social and governance (ESG) values and reputation.

Speakers and panellists included Hassan Al Hashemi, VP-International Relations, Dubai Chambers; Dr. John E. Katsos, Associate Professor of Business Law, Ethics, and Social Responsibility, American University of Sharjah; Albert Kraak, COO, DP World Logistics; Ayman

Advanced technologies make supply chain processes more efficient and environment friendly



Kabbara, Managing Director, Scan Global Logistics UAE; Sherif Hafez, Supply Director, Middle East and Africa, MARS; Kenneth Nymann-Buus, supply chain and procurement expert.

“Recent studies are making a strong business case for embedding sustainability into supply chains and the benefits of doing this are far reaching. By following this approach, companies were able to reduce costs, boost efficiency, foster innovation and generate a stronger return on investment,” said Al Hashemi.

“The Dubai Dialogue conference once again proved to be an ideal platform to host thought-provoking conversations that addressed key sustainability-related issues impacting businesses in the UAE and abroad and outlined practical and actionable steps companies can take to reduce their environmental impact and

create a positive example that will inspire others to follow in their footsteps,” he noted.

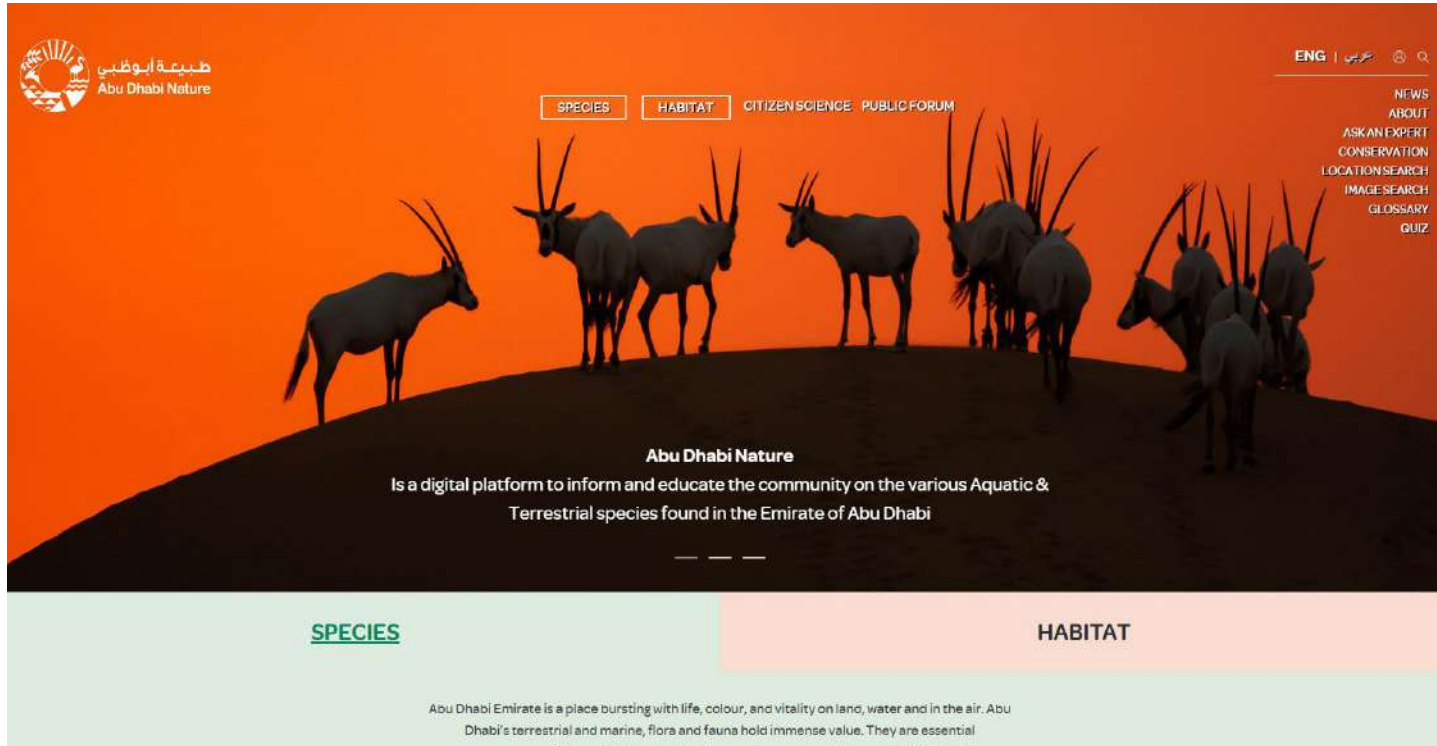
Moderated by Kamel Mellahi, Senior Manager, Centre for Responsible Business, Dubai Chamber of Commerce, panel discussions highlighted the need for business leaders to go beyond compliance and aim for best global practices and standards. They stressed the importance of focusing on stakeholder engagement, collaboration, transparency, data analysis and reporting in shaping sustainable supply chain systems.

Members on the panel also stressed the importance of fostering public-private sector partnerships and cooperation to align the efforts of industry stakeholders and maximise the impact of sustainability-focused initiatives, strategies and practices.

New App To Track Sightings Of New Species Launched In UAE

The Environment Agency - Abu Dhabi (EAD) launched a new smartphone app and website on October 11, 2022, designed to help people learn more about Abu Dhabi's wildlife and report sightings to the authority. The App was launched during GITEX.

The Abu Dhabi Nature species App is a free tool to educate adults and children on over 4,000



New smartphone app and website is designed to help people learn more about Abu Dhabi's wildlife and report sightings authorities

species of animals and plants found in the emirate. One of the App's key features - 'Citizen Science' - enables registered users to submit photographs or videos of any species they spot in the wild. Using the exact GPS location of the observation, the EAD's team of experts will review each submission and add any new species or habitats to their database.

People can also search the App's extensive database and learn more about over 4,000 species of birds, mammals, reptiles, fish, plants and habitats that EAD has already identified. The database combines videos, audio, images and information such as brief descriptions of each species, their size, colour, habitat, and taxonomic classification.

Based on EAD's previous observations, users can also search for locations within Abu Dhabi

The Abu Dhabi Nature species App is a free tool to educate adults and children on over 4,000 species of animals and plants found in the emirate



where they will be able to spot the species that are likely to be found. People will also be able to 'Ask an expert' questions about the environment.

Other key features include the latest news section keeping users up to date with the news from EAD; a public forum; quizzes for testing knowledge on species and habitats; and conservation information about the protected areas and eco-tourism sites in Abu Dhabi. The App is for adults and families with children and students to provide research information.

The App is part of EAD's commitment to helping raise environmental awareness by informing and connecting with the public and using technology for preservation activities to help protect biodiversity and preserve the quality of life.

Ahmed Baharoon, Executive Director,

Environmental Information, Science & Outreach Management, said, "The launch of Abu Dhabi Nature species App is a significant milestone in EAD's efforts to promote environmental awareness and educate the public on the diverse species present in Abu Dhabi. We have selected GITEX as the launch platform because it is a significant hub for digital technology, which is what this App represents."

"Anyone with a smartphone can contribute to conserving and documenting Abu Dhabi's unique biodiversity. It's also a great way to educate children and youth about the nature around us and encourage a love of the environment at a young age. With our 'Public Forum' feature, this App will also be an essential tool for us to connect with the community and share our wealth of knowledge about the environment," he added.

No 'Credible Pathway' To Avoid Climate Disaster, UNEP Warns

National pledges to reduce harmful emissions offer little hope of avoiding climate disaster, UN climate experts said, in an urgent appeal for a radical transformation of the energy sector, before it's too late.

There's "no credible pathway to 1.5°C in place", the UN Environment Programme (UNEP) insisted in a new report, despite legally binding promises

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CLIMATE ACTION



Current pledges for action by 2030, if delivered in full, would mean a rise in global heating of about 2.5C and catastrophic extreme weather around the world

made at the 2015 Paris Climate Conference to prevent average temperatures rising by more than 1.5°C above pre-industrial levels.

"This report tells us in cold scientific terms what nature has been telling us all year, through deadly floods, storms and raging fires: we have to stop filling our atmosphere with greenhouse gases, and stop doing it fast," said Inger Andersen, Executive Director of UNEP.

Despite Nationally Determined Contributions (NDC) promises made by governments in favour of reducing their carbon footprint, pledges made since 2021 will lead to cuts of less than one per cent of projected 2030 greenhouse gas emissions, according to UNEP. This is the equivalent of just 0.5 gigatonnes of CO₂, UNEP calculated, adding that only a 45 per cent emissions reduction will limit global warming to 1.5°C.

Failure to reduce carbon emissions means the only way to limit the worst impacts of the climate crisis is a “rapid transformation of societies”



As it stands today, latest data indicates that the world is on track for a temperature rise of between 2.4°C and 2.6°C by the end of this century. “In the best-case scenario, full implementation of unconditional NDCs and additional net-zero emissions commitments point to only a 1.8°C increase, so there is hope. However, this scenario is not currently credible based on the discrepancy between current emissions, short-term NDC targets and long-term net-zero targets,” UNEP said.

For the situation to improve, a “large-scale, rapid” and fossil fuel-free shake-up is needed of our “electricity supply, industry, transport and buildings sectors, and the food and financial systems” to cut emissions by 45 per cent to limit global warming to 1.5°C, and by 30 per cent to keep average temperature rise to 2°C, the UN agency explained.

And although the transformation towards net-zero greenhouse gas emissions is underway in electricity supply, industry, transportation and buildings, it needs to move “much faster”, the report concludes.

It found that electricity supply transformation had made most progress in some countries, amid dramatically reduced renewable electricity prices. Rapid and lasting emissions cuts are needed in food production industries too, as this accounts for about a third of greenhouse gases, UNEP continued.

It noted that action in four areas - protection of natural ecosystems, dietary changes, improvements in farm food production and decarbonization of food supply chains - would reduce food system emissions by 2050 to around a third of current levels.

WFES 2023 To Provide Crucial Sustainability Blueprint As COP28 Looms

The organisers of the 15th World Future Energy Summit – the leading business event for future energy and sustainability being held in Abu Dhabi next January – have reiterated the event’s unique capacity to provide practical solutions both for global leaders and the international energy industry, as it aims to accelerate the ongoing transition toward cleaner energy sources.



2023 edition of World Future
Energy Summit to provide
practical solutions to advance
the transition toward cleaner
energy sources

The World Future Energy Summit 2023 will run at the Abu Dhabi National Exhibition Centre from January 16-18. It is the centrepiece of Abu Dhabi Sustainability Week, a global initiative championed by the UAE and Masdar to accelerate sustainable development and advance economic, social, and environmental progress.

The exhibition has enrolled an impressive mix of government entities, including the UAE Ministry of Energy and Infrastructure, the GCC Interconnection Authority, and the Mohamed bin Zayed University of Artificial Intelligence.

“This event has evolved just as the energy sector and our economies are transitioning,” said His Excellency Suhail Mohamed Al Mazrouei, Minister of Energy and Infrastructure. “It has now morphed into the Middle East’s most important industry gathering, of which clean

WFES will explore the technology and innovation needed to accelerate development of clean energy and sustainable projects



energy and infrastructure are key components.”

He added: “This newly transitioned event profile is in the right place at the right time, underlining a much-needed shift towards reaching our clean energy goals, as well as achieving sustainable governance and adopting consumption and production of natural energy methods that ensure the quality of life for current and future generations. This is a forum to progress that policy and engage with others who wish to partner our advancements and share important, mutually beneficial knowledge.”

As the Arab World prepares to host COP27 in Egypt this year and COP28 in the UAE next year, the WFES organisers, RX Middle East, along with key partner Masdar, believe the MENA region’s heightened sustainability focus will fuel expansion of the much-anticipated event.

“WFES 2023 will bring together global energy leaders and policymakers to explore the technology and innovation needed to accelerate development of clean energy and sustainable projects,” said Mohamed Jameel Al Ramahi, Chief Executive Officer of Masdar. “By connecting exhibitors with decision-makers, the event plays a critical role in bridging strategy with action during Abu Dhabi Sustainability Week.”

With three months to go until the Summit, there has been a strong international response from country pavilions from Japan, Germany, China, Korea, France, India, and Switzerland. The national displays will place a spotlight on SMEs from around the world, all working towards ground-breaking solutions.

“World Future Energy Summit 2023, with six exhibitions and five forums, will serve as a



powerhouse of commercial collaboration and knowledge exchange, across key sustainability sectors and with international support,” said Leen Alsebai, Head of World Future Energy Summit, and General Manager of RX Middle East.

“In addition to the focus on energy, water, eco-waste, solar, smart cities, climate and the environment, we will see the launch of a dedicated Hydrogen Innovation Hub. This will bring together key technologies enabling the production, transport, storage, and use of green hydrogen, and provide a dedicated space to showcase potential for regional projects. The 2023 edition will also feature a dedicated innovation zone showcasing start-ups and technologies focused on climate change solutions.”

Major players from the private sector, including Jinko Solar, ENGIE, Longi, Huawei Technologies,

the Japanese Business Alliance for Smart Energy Worldwide, and HT Italia, are set to take part.

Echoing the sentiment on clean energy transition and net zero goals, Ian Harfield, ENGIE’s Managing Director, added: “We are excited to once again be a part of WFES 2023 and leverage our international experience, and innovations to add value to regional energy transition projects.”

He added: “As a long-standing supporter, this is a must-attend industry event for us and we will not only be showcasing our latest innovations and investments in renewables and low carbon-distributed energy infrastructures, but actively partner with government and private institutions, who can help us achieve our commitment to decarbonise and achieve our group objective of becoming Net Zero Carbon by 2045.”

Abu Dhabi Launches 'Pile It Up' Challenge In Schools For Plastic-free Environment

As part of its vision of a single-use plastic-free Abu Dhabi, the Environment Agency – Abu Dhabi (EAD) has launched a dynamic challenge for Abu Dhabi schools to encourage a culture of recycling for single-use plastic bottles.

Themed 'Pile it Up', EAD will challenge schools in Abu Dhabi against each other to collect and

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return single-use plastic water bottles for a two-month period, with all collected waste to be sent for recycling.

EAD is collaborating closely with Emirates Schools Establishment for the success of the 'Pile it Up' challenge. Running until November 22, participating schools could see their winning performance during the challenge rewarded with a grand prize of AED 12,000.

In total, there are cash prizes for seven winners, and schools winning cash prizes need to allocate the funds towards sustainable environmental projects at school.

The winners are selected based on the highest number of bottles collected, and most importantly recycled. The top seven schools will be featured on EAD social media channels, and all schools will receive certificates.

Ahmed Baharoon, Executive Director of Environment Information, Science Outreach Management Division at EAD, said, "The younger generation today is increasingly eco-conscious and can play an influential role in encouraging their peers and families to get real on efforts to safeguard the environment. We want to harness their concern, show them that we mean business and get their support for our Mission to Zero movement against single-use products."

"We prepared the schools for the challenge by launching a dedicated awareness campaign guiding the students about EAD's Single-Use Plastic Policy. The crux is in the students striving to recycle as many bottles, not just collect them. By providing an incentive of cash prizes for several winners, students will feel appreciated and recognised for their hard work," he added.

The New Maserati GranTurismo Returns For A New Generation

One of the brand's icons is back: Maserati presents the new GranTurismo, marking a new chapter in a story that began 75 years ago with the Maserati A6 1500.

The GranTurismo coupé combines the high performance typical of a sports car with comfort suitable for long distances, in both the version with a powerful internal combustion engine and



The GranTurismo offers the characteristic Maserati sound as well as cutting-edge technical solutions, superb performance, comfort and elegance

with the most innovative 100% electric solutions. It represents a benchmark, embodying the concept of "The Others Just Travel". This model is taking the House of the Trident forward into the future: it is the first car in the brand's history to adopt a 100% electric powertrain.

From an aesthetic point of view, the GranTurismo design represents an ideal balance between beauty and functionality, without ostentation. With undeniably unique and immediately recognisable lines: a pure shape suitable to cover best-in-class mechanics, emphasising the purity of its forms and its refined design cues.

The classic proportions of the brand's cars have been maintained, with the long bonnet and the central body intersected by the four fenders. Conversely, the roof line drops dynamically to emphasise the curve of the pillar that features

The new GranTurismo will be the first model in Maserati history to adopt 100% electric solutions



offers superb performance, made possible by the three powerful 300-kW permanent magnet motors.

The battery has a nominal capacity of 92.5 kWh and a discharge capacity of 560 kW, to continuously transmit around 760 hp to the wheels. The specific set-up and innovative layout of the battery result in the containment of vehicle height to 1353 mm, without compromising its sporty nature. The shape of the battery pack, known as 'T-bone', forms part of Maserati's "zero compromise" approach and avoids placing the battery modules under the seats, mainly moving them around the central tunnel and therefore considerably lowering the car's H-point.

In terms of technical architecture, the new model is the result of an innovative project that makes extensive use of lightweight materials such as aluminium and magnesium, together with high-performance steel. Such a multi-material approach required new manufacturing processes to be created, resulting in best-in-class weight levels.

the iconic Trident logo.

Developed at the Maserati Innovation Lab and produced at the Mirafiori manufacturing hub in Turin, the GranTurismo is 100% made in Italy and epitomises "Italian luxury performance", a concept typical of all Maserati models.

The new coupé is equipped with the revolutionary V6 Nettuno engine, available in two versions: the Modena, with the 490-hp 3.0-litre V6 Nettuno Twin Turbo; the high-performance Trofeo version is based on the same engine, upgraded to a maximum power of 550 hp.

Alternatively, the GranTurismo Folgore adopts a 100% electric battery-based powertrain. The Folgore system is based on 800-volt technology and has been developed with cutting-edge technical solutions derived from Formula E. It





This approach is paired with new Atlantis High electrical/electronic architecture, based on canFD messages sent at speeds of up to 2 ms. The system also comes with advanced level 5 cyber-security and flash-over-the-air features. The fulcrum is the Vehicle Domain Control Module (VDCM) master controller, a 100% Maserati project consisting of the software that provides 360° control of all the most important car systems, for the best driving experience in all conditions.

In the interior, the Maserati GranTurismo's modern cabin is equipped with Innovative systems, including the Maserati Intelligent Assistant (MIA) Multimedia system, the latest infotainment, a comfort display that brings together the main functions in an integrated touchscreen interface, a digital clock and the Heads-up Display (available as an option).

The GranTurismo also offers an "all-round sound experience", guaranteed by the iconic signature sound of the Maserati engine, even in the electric version thanks to innovative work by engineers at the Maserati Innovation Lab. The sound experience is completed by the immersive Sonus faber 3D sound system. Designed and made by Italian craftsmen in sound, the audio system offers two levels of customisation, giving it up to 19 speakers and 3D sound with an output of up to 1,195 W, for depth of field and truly unique roundness of sound.

At launch, the GranTurismo is also available in the PrimaSerie 75th Anniversary Launch Edition, a limited series featuring exclusive content and dedicated to its recent 75th anniversary.

Sportiness, luxury and comfort: by focusing on customer requests from the earliest stages of

Maserati's electric line-up to be completed by 2025 and entire Maserati range to be Full-Electric by 2030



development onwards, the new GranTurismo is enabling Maserati to solve the impossible equation of combining sports performance with comfort suitable for long distances, both with powerful internal combustion engines and with the most innovative 100% electric solutions. It represents a benchmark in the segment.

Maserati produces a complete range of unique cars, immediately recognisable for their extraordinary personality. Thanks to their style, technology and innately exclusive character, they delight the most discerning, demanding tastes and have always been a benchmark for the global automotive industry.

The sporty New GranTurismo models – available with both high-performance petrol engines and a 100% battery electric powertrain – take the House of the Trident forward into the future: the

first car in the electric range, the Maserati Folgore. By 2025, all Maserati models will come in a full-electric version, and the entire Maserati range will run on electricity alone by 2030.



RAK Energy Summit Concludes With Focus On Future Of Sustainable Energy

The RAK Energy Summit concluded on October 5, 2022, at Al Hamra International Exhibition and Conference Centre in Ras Al Khaimah after two days of dialogue that explored ways to shape the global conversation on climate change and the future of energy sustainability.

The summit was held under the patronage of H.H. Sheikh Saud bin Saqr Al Qasimi, Supreme



RAK Energy Summit saw participation of UAE Ministry of Climate Change and Environment, IRENA, UN Industrial Development Organization

Council Member and Ruler of Ras Al Khaimah, and witnessed the participation of the UAE Ministry of Climate Change and Environment, International Renewable Energy Agency (IRENA), and the United Nations Industrial Development Organisation, and included panel discussions and debates about the future of energy sustainability and renewable energy, shedding light on local and international efforts to curb climate change and shape a better future.

A highlight of the first day was the presentation of the UAE Energy Management Leadership Awards for 2022 by the Ministry of Energy and Infrastructure. Ras Al Khaimah Municipality was awarded first place, while ADNOC Onshore and ADNOC Offshore were awarded second and third places respectively.

The award is based on an assessment conducted

Experts at RAK Energy Summit explored ways to shape the global conversation on climate change and the future of energy sustainability



by the Ministry of Energy and Infrastructure and the Clean Energy Ministerial (CEM) and recognises implementation of best practices in energy management.

H.H. Sheikh Saud bin Saqr Al Qasimi, Supreme Council Member and Ruler of Ras Al Khaimah, Sheikh Saud attended the first day of the summit, which featured the recorded speech of Francesco La Camera, Director-General of the International Renewable Energy Agency (IRENA), where he affirmed the importance of the energy sector's sustainability.

Sheikh Saud stressed that Ras al Khaimah plays a crucial role in the UAE's efforts to provide safe and reliable energy services to everyone. Investing in energy sustainability, especially in clean energy, is an investment for the future and will ensure the success of the sustainable

development process, he added.

"Our vision is to support the local and global efforts to find innovative and practical solutions based on energy technologies, to address the major challenges facing the sector," he said, affirming that sustainability is being prioritised by the emirate, which has adopted a clear strategic vision to increase local reliance on renewable energy.

The hosting of the summit aligns with the emirate's future approach and efforts to support the country's related vision, he added, stating, "We believe in our capacity for progress in local and international climate action efforts, and we can play a larger role in creating a pioneering model of energy and water management."

At the end of his speech, Sheikh Saud stressed



that the efforts to advance the energy sector and ensure a sustainable future for everyone will not cease.

For his part, Sharif Al Olama, Undersecretary for Energy and Petroleum Affairs, said in a speech delivered on behalf of Suhail bin Mohammed Al Mazrouei, Minister of Energy and Infrastructure, "The UAE is one of the leading countries in developing the clean energy sector, and a pioneer of modern methods to enhance the efficiency of the energy sector.

"Hosting COP 28 represents an important and defining moment in the UAE's climate diplomacy, by organising a comprehensive and exceptional conference that can fully mobilise for international climate action," he added.

Meanwhile, Munther Mohammed bin Shekar,

Director General of Ras Al Khaimah Municipality, the host of the Summit, stated, "We envision a Ras Al Khaimah where suppliers of efficient products and services find consumers looking to benefit from energy efficiency, where our youth develops and executes innovative solutions and where society is aware of its sustainability responsibilities."

Held under the theme of "Creating and contributing to the energy efficiency and renewable energy goals of the future", the summit supports the RAK Energy Efficiency and Renewables Strategy 2040, the UAE's Net Zero by 2050 strategic initiative and the country's preparations for both the UN COP 27 and the UN COP 28, to be held in the UAE next year.

RAK Energy Efficiency and Renewables Strategy targets 30 percent electricity savings, 20 percent

Experts at RAK Energy Summit explored ways to shape the global conversation on climate change and the future of energy sustainability



water savings and 20 percent renewable energy in the generation mix by 2040.

The second day of the RAK Energy Summit was held in the presence of Sheikha Amneh bint Saud Al Qasimi, Chairman of Ras Al Khaimah's Investment and Development Office, with a list of speakers including Sharif Al Olama, Under-Secretary for Energy and Petroleum Affairs, UAE Ministry of Energy and Infrastructure, and Munther Mohammed bin Shekar Al Zaabi, Director-General of Ras Al Khaimah Municipality.

Mariam bint Mohammed Almheiri, Minister of Climate Change and the Environment, in her speech on the second day of the summit, said, "The Summit underlines the necessity and urgency to reduce the carbon footprint of the energy sector – one of the largest emitters of greenhouse gases in the country."

Almheiri continued, "The Summit is a platform for us to exchange expertise in advancing the clean energy transition in the UAE, and to make progress towards our national goals, embodied in the UAE Net Zero by 2050 strategic initiative.

"Through the initiative, we aim to engage all sectors and segments of the community in the effort to reduce and even eliminate carbon, and ensure sustainable economic development."

She then commended the role that the RAK Energy Summit plays as one of the leading platforms that bring together high-ranking officials, experts and decision-makers in the energy field to exchange knowledge and expertise, and work together to find innovative solutions that support climate efforts and help shape a better sustainable future.

DEWA's Jebel Ali Plant Enters Guinness World Records For Second Time

Dubai Electricity and Water Authority (DEWA) has marked another breakthrough by achieving the Guinness World Records title for the second time for owning and managing the Largest Single-Site Water Desalination Facility in the World with production capacity of 490 million Imperial Gallons of water per Day, which is equivalent to 2,227,587 Cubic Metres per Day.



DEWA is awarded the Guinness World Records title for the second time for the largest single-site water desalination facility in the world – the Jebel Ali Power Plant and Water Desalination Complex

This is the second world record for Jebel Ali Power Generation & Water Production Complex. In 2021, the Complex was confirmed by Guinness World Records as the Largest Single-site Natural Gas Power Generation Facility in the World. The Complex has a power generation capacity of 9,547MW.

"In line with the vision and directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President, Prime Minister and Ruler of Dubai, we are working to provide state-of-art and integrated infrastructure for electricity and water to provide our services according to the highest standards of availability, reliability, efficiency, and quality," said Saeed Mohammed Al Tayer, MD & CEO of DEWA.

"We also work to achieve the various ambitious development plans to keep pace with the growing

DEWA currently has 43 Multi-Stage Flash (MSF) water desalination units with a total production capacity of 427 MIGD of water



demand for electricity and water services and Dubai's ambitious urban and economic plans. We carry on the journey of excellence in all fields and at all levels and move steadily towards preparing for the next fifty years and building a sustainable future," he added.

Al Tayer received the certificate from representatives of the Guinness World Records during the 24th Water, Energy, Technology and Environment Exhibition (WETEX) and Dubai Solar Show 2022, which was organised by DEWA.

Al Tayer explained that DEWA adopts three pillars to sustain water production by using clean solar energy to desalinate seawater using reverse osmosis technology, which consumes less energy than MSF plants and Aquifer Storage and Recovery (ASR) project through which, excess desalinated water production is stored in

underground basins, retrieved and pumped back into the water network as needed.

This innovative holistic model preserves the environment and represents a sustainable economic solution. It also underlines Dubai's ability to anticipate and shape the future. When completed by 2025, this project will allow 6,000 million imperial gallons of water to be stored and retrieved when needed, making it the largest emergency potable water storage in the world.

This technology will provide a strategic reserve that will supply the Emirate with more than 50 million imperial gallons of water per day for 90 days in emergencies, while ensuring the safety of the stored water.

Nasser Lootah, Executive Vice President of Generation Division in DEWA, said the entry into



Guinness Books of World Records celebrates DEWA's achievements during past decades in progressively building the largest desalination facility and also recognises the technical capability and tremendous efforts of our team that manages such large industrial complex.

DEWA currently has 43 Multi-Stage Flash (MSF) water desalination units with a total production capacity of 427 MIGD of water at the D-, E-, G-, K-, L, and M Stations. It also has 2 SWRO plants with a production capacity of 63 MIGD. DEWA's total production capacity of desalinated water is 490 MIGD at the Jebel Ali Power Plant and Desalination Complex.

"We are proud of this new global recognition, which is added to DEWA's record of prestigious global achievements. We adopt pioneering excellence, creativity and innovation in our daily

operations to consolidate DEWA's position as one of the best utilities in all areas worldwide and embark on more advanced phases of excellence and leadership," said Waleed bin Salman, Executive Vice President of Business Development and Excellence at DEWA.

DEWA aims to increase its SWRO production capacity to 303 MIGD by 2030; reaching 42 percent instead of its current share of 13 percent.

The desalinated water production capacity will reach 730 MIGD in 2030. SWRO desalination plants require less energy than MSF plants. One of DEWA's latest projects using this technology is at the Jebel Ali K-Station, which has a production capacity of 40 MIGD and investments worth AED 897 million.

Sharjah Ruler Inspects Progress Of 'Hanging Gardens' Project

H.H. Dr. Sheikh Sultan bin Muhammad Al Qasimi, Supreme Council Member and Ruler of Sharjah, inspected, on October 20, 2022, the progress of work in the “Hanging Gardens” project in the city of Kalba.

His Highness was briefed on the plans for the remaining stages in the implementation of the project, which extends over an area of one and a

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half million square feet, listening to the progress of work and the most important completed and remaining stages.

His Highness was also briefed on the plans for the expansion and development of Al Hefaiyah Mountain Conservation Centre, which includes the establishment of a special area for the endangered Arabian tahr animal, in addition to the implementation of a cafeteria and a visitor area that enables everyone to watch and enjoy the scenery and animals in the area.

His Highness directed the preparation of the land allocated for the animals within the Al Hefaiyah Mountain Conservation Centre and its implementation according to the best standards.

The event witnessed the presence of Hana Saif Abdullah Al Suwaidi, Chairperson of Environment and Protected Areas Authority, Engineer Ali

Saeed bin Shaheen Al Suwaidi, Chairman of Department of Public Works, Engineer Salah bin Butti Al Muhairi, Chairman of the Initiatives Implementation Authority, and a number of officials.



The World's Most Sustainable City: Canberra, Australia

Canberra, the capital city of Australia was crowned the world's most sustainable city in 2021 by UK comparison company Uswitch.

Cities were assessed on a range of sustainability measures including energy, transport infrastructure, affordability, pollution, air quality, carbon dioxide emissions and the



Recently awarded the most sustainable city in the world, Canberra leads the way in sustainable development

percentage of green space in the area. The report said Canberra fared highly in the rankings due to its reliance on renewable energy and its large amounts of green space. Canberra is also the first city in mainland Australia to have achieved a 100% renewable energy supply and have attracted more than \$2 billion in investment into sustainable energy.

Green Transportation

An incredible 88.6% of Canberra's transport infrastructure is green, with a vast network of public transport options meaning you can get almost anywhere without a car. The city also runs a ride-sharing service, encouraging people to travel as groups and cut back on solo driving.

The Canberra light rail network, also known as Canberra Metro, is a light rail system that serves the city. On 17 May 2016, the government of the

Canberra is the first city in mainland Australia to have achieved a 100% renewable energy supply



sustainability benefits through facilitating increased cycling, walking, and other public transport use. The efficient use of resources in the design, construction and operation of the project further highlights the Canberra Light Rail Project's promotion of sustainability outcomes.

Energy

Sustainable energy has experienced a big push in recent years, as governments across the world look to cut down their carbon emissions. Canberra is Asia Pacific's most progressive territory in moving towards a low-carbon economy. The capital city is powered by 100% renewable electricity, generated by wind and photovoltaic power.

There's strong collaboration in Canberra across tertiary education and research, industry and the government. That collaboration is driving innovation, research and development,

Australian Capital Territory (ACT) entered into an Agreement with a consortium called Canberra Metro Pty Ltd (Canberra Metro) for the design, construction and financing of this light rail. The ACT's vision is that the Canberra Light Rail Project will ultimately link all areas of Canberra thereby boosting sustainable development through improved transport options, settlement patterns and employment opportunities.

The Canberra Light Rail Project is integral to supporting the ACT carbon reduction goals both in the near and long term future. With key objectives of the project centred on achieving carbon neutrality, the Project at its core seeks to deliver sustainability outcomes in line with the ACT's Climate Change Strategy.

In addition to the carbon emission centric focus, the Project also seeks to gain inherent





employment and sustainable economic growth. Canberra has started one of the world's largest rollouts of home battery storage for rooftop solar and as a result, had the world's largest virtual power plant in 2019. Also, more than 39,000 homes and businesses in the city have solar panels.

Examples of active programs in the city include: home rooftop solar and battery storage, smart energy grids, virtual power plants, electric vehicle incentives and trials, hydrogen technologies across transport and domestic gas networks.

Green Spaces

Canberra is regarded as one of the world's best examples of urban planning for connected greenspace. Its polycentric design enables the preservation of connected natural habitats and provides high accessibility to nature for the

residents. Preserving green corridors for wildlife habitat connectivity and biodiversity, including manifold ecosystem services, is a major challenge for sustainable urban development.

Canberra is cited as a world-best example of urban spatial planning for connected greenspace. Canberra's green space per capita is 353m². For comparison, Sydney's is about 81m², and Melbourne's, 116m².

Canberra is a planned city from the start. With five urban centres, Canberra is a forerunner of a polycentric structure. Its main city centre is surrounded by four satellite centres, each with its own residential area with services for everyday needs. This not only preserves a connected natural habitat, but also gives accessibility to nature for Canberra residents.

Canberra has been able to grow as a city without

An incredible 88.6% of Canberra's transport infrastructure is green



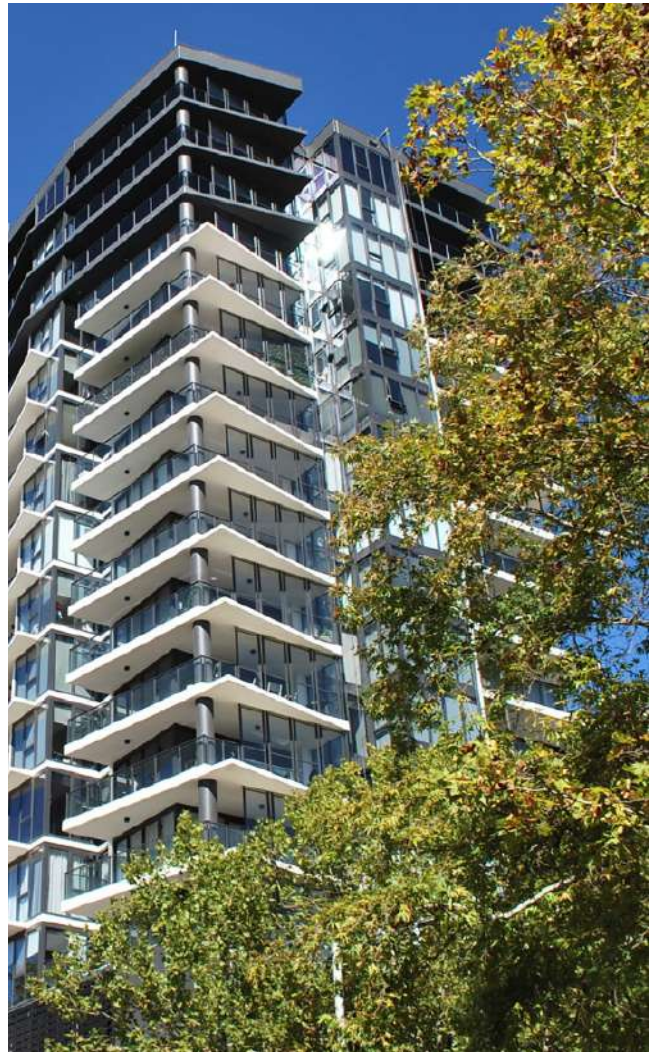
overwhelming the original spatial plan created by US architects Marion Mahony Griffin and Walter Burley Griffin in the early 20th century. Sprawl has been prevented thus far by only allowing new home building once a site has been connected for utilities like water and sanitation. Thus, utilities are a form of leverage to control land development.

Carbon Emissions

Since the capital city has moved to 100 percent renewable electricity, they have seen a 40 percent decrease in emission levels across their operations.

Canberra is also aiming for net zero emissions from ACT Government operations by 2040. The Zero Emissions Government Framework sets actions such as:

- making government buildings and facilities all-electric and climate-wise



- transitioning car fleet to zero emissions vehicles
- transitioning bus fleet to zero emissions buses
- co-locating government staff in centralised offices and supporting flexible work arrangements

Interest free loans are also available to government agencies through the Zero Emissions Government Fund, which are paid back through energy savings at no net cost to agencies.

WFP Calls For Action On World Food Day

Mariam bint Mohammed Almheiri, Minister of Climate Change and the Environment, said that the crises and challenges facing our world today puts the health and lives of millions of people at stake without distinguishing between developed and developing countries.

“What we are witnessing is an accelerating aggravation of the consequences of climate



The United Nations World Food Programme calls upon everyone to join forces to avoid another year of record hunger on World Food Day

change, conflict and unrest in many regions, which has directly affected the availability of food and the resilience and continuity of supply chains, threatening everyone with the impact of food insecurity,” she added.

This came during a media meeting held by the Ministry of Climate Change and the Environment, in cooperation with the United Nations World Food Programme (WFP), at the Ritz-Carlton Dubai, to mark the World Food Day that falls on 16th of October of each year.

The speech of the Minister Almheiri was delivered on her behalf by Essa Al Hashmi, Assistant Undersecretary for the Sustainable Communities Sector at the Ministry of Climate Change and the Environment.

“This situation calls for all of us to join forces

The global food crisis has pushed the number of hungry people around the world from 282 million to 345 million in just the first months of 2022



and fast-track our efforts to enhance food security and availability through initiatives and programs that take into account the requirements of environmental and climate action at the same time,” Minister Almheiri said.

She noted that on a local level, the UAE has adopted the National Food Security Strategy that aims to strengthen the country’s food security. Globally, in addition to helping many countries address hunger and food scarcity, it launched the Agriculture Innovation Mission for Climate (AIM for Climate) in partnership with the US, which aims to raise investments worth US\$8 billion in sustainable and climate-smart agrifood systems based on modern technologies.

David Beasley, WFP Executive Director, said, “We are facing an unprecedented global food crisis and all signs suggest we have not yet seen the

worst. For the last three years hunger numbers have repeatedly hit new peaks. Let me be clear: things can and will get worse unless there is a large scale and coordinated effort to address the root causes of this crisis. We cannot have another year of record hunger”

The global food crisis is a confluence of competing crises – caused by climate shocks, conflict, and economic pressures – that has pushed the number of hungry people around the world from 282 million to 345 million in just the first months of 2022. WFP scaled up food assistance targets to reach a record 153 million people in 2022, and by mid-year we had already delivered assistance to 111.2 million people.

The world is at risk of yet another year of record hunger as the global food crisis continues to drive yet more people into worsening levels of acute



food insecurity, warns WFP in call for urgent action to address the root causes of today's crisis.

WFP and humanitarian partners are holding back famine in five countries – Afghanistan, Ethiopia, Somalia, South Sudan and Yemen. Too often it is conflict that drives the most vulnerable into catastrophic hunger, with communications disrupted, humanitarian access restricted, and communities displaced.

The conflict in Ukraine has also disrupted global trade pushing up transport costs and lead times while leaving farmers lacking access to the agricultural inputs they need. The knock-on effect on upcoming harvests will reverberate around the world.

Climate shocks are increasing in frequency and

intensity, leaving those affected no time to recover between disasters.

The Middle East and North Africa (MENA) region in particular is one of the worst-hit by the climate crisis as it is highly susceptible to climate shocks and stressors such as prolonged heatwaves, drought, wildfires, flooding, erratic rainfall, and landslides.

The MENA region is also warming at twice the global average exacerbating pressure on resources in the food systems cycle affecting approximately 40 million people in the region.

Mageed Yahia, WFP Representative to the GCC said, “We are working closely with our strategic partners in the GCC, who thanks to their support we managed to avert famine in Yemen and continues to provide lifesaving assistance.”

Climate shocks are increasing in frequency and intensity, leaving those affected no time to recover between disasters



Anticipatory action must be at the core of the humanitarian response to protect the most vulnerable from these shocks – and a core part of the agenda at the 27th Conference of the Parties (COP27) next month in Egypt.

Meanwhile, governments' ability to respond is constrained by their own economic woes – currency depreciation, inflation, debt distress – as the threat of global recession also mounts. This will see an increasing number of people unable to afford food and needing humanitarian support to meet their basic needs.

The World Food Programme's operational plan for 2022 is the agency's most ambitious ever. It prioritises action to prevent millions of people from dying of hunger while working to stabilise – and where possible build – resilient national food systems and supply chains.

With the cost of delivering assistance rising and lead times increasing, WFP continues to diversify its supplier base, including boosting local and regional procurement: so far in 2022, 47 percent of the food WFP has purchased is from countries where we operate – a value of US\$1.2 billion.

WFP has also expanded the use of cash-based transfers to deliver food assistance in the most efficient and cost-effective way in the face of these rising costs. Cash transfers now represent 35 percent of our emergency food assistance.

WFP has also secured US\$655 million in contributions and service provision agreements from international financial institutions to support national social protection systems. Similar efforts are underway to expand innovative climate financing partnerships.

UN Details Ways To Cope With Climate Crisis

From devastating floods in Pakistan, to wildfires in Siberia, the effects of the climate emergency are being felt across the world, and the United Nations (UN) is calling for more investment now, to help nations to adapt to an increasingly unstable environment.

All nations need to make major cuts to fossil fuel emissions and transition to a low-carbon



The United Nations is calling for more investment to help nations adapt to an increasingly unstable environment

economy, if we are to have any chance of achieving the aim of reducing global temperatures to 1.5 degrees above pre-industrial levels, said the UN report.

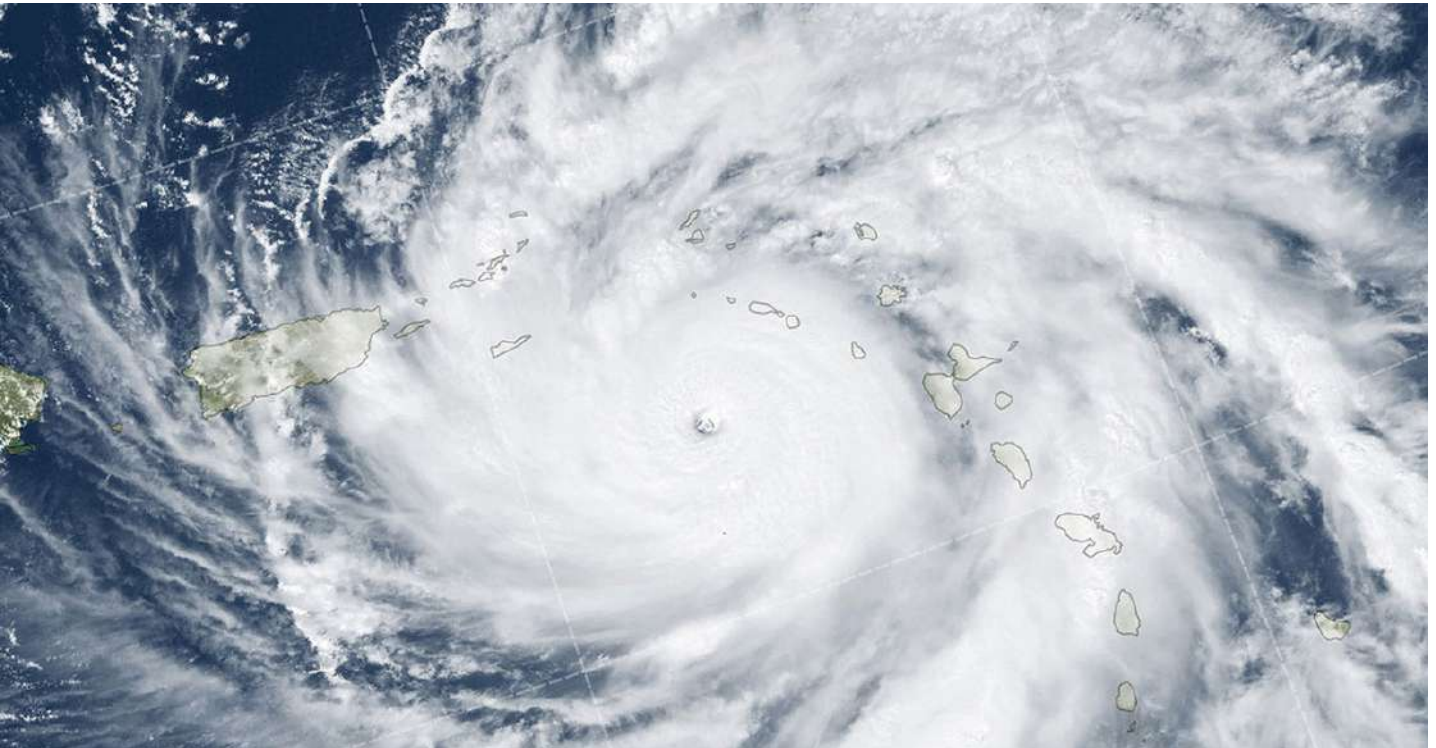
This continues to be the message from the UN but with so many countries suffering as a result of more frequent extreme weather events that are threatening food security and global stability, more urgent measures need to be taken, to help countries to adapt to an increasingly hostile planet.

The report went on to detail five tried and tested ways that can enable nations to become more resilient, in the face of climate change.

Early warning systems

Research shows that a 24-hour warning of an oncoming heatwave or storm can reduce the

In cities, restoring urban forests cools the air and reduces heat waves



subsequent damage by 30 percent. Early warning systems that provide climate forecasts are one of the most cost-effective adaptation measures, yielding around nine dollars of total benefits for every dollar invested.

With timely warnings, people can take early action by blocking up doors with sandbags to anticipate floods, stockpiling resources or, in some extreme cases, evacuating from their homes. In Bangladesh, for example, even as climate change becomes more severe, the number of deaths from cyclones has fallen by 100-fold over the past 40 years, due mainly to improved early warnings.

But today, one-third of the global population is still not adequately covered by early warning systems. And while efforts have focused mainly on storms, floods and droughts, other hazards

like heat waves and wildfires will need to be better integrated as they become more common and intense.

Earlier this year, the UN Secretary-General tasked the World Meteorological Organisation to lead the development of an action plan to ensure every person in the world is covered by early warnings within the next five years.

Ecosystem Restoration

The UN Decade on Ecosystem Restoration launched by the UN Environment Programme (UNEP) and partners in 2021 triggered a global movement to restore the world's ecosystems. This global restoration effort will not only absorb carbon but also increase 'ecosystem services' to defend the world from its most devastating impacts. In cities, restoring urban forests cools the air and reduces heat waves. On a normal sunny



day, a single tree provides a cooling effect equivalent to two domestic air conditioners running for 24 hours.

On coasts, mangrove forests provide natural sea defenses from storm surges by reducing the height and strength of the sea waves. Moreover, protecting mangroves is 1,000 times less expensive per kilometre than building seawalls.

In high altitudes, re-greening mountain slopes protects communities from climate-induced landslides and avalanches.

For example, on Anjouan Island in Comoros, deforestation was drying up the ground and turning forests into deserts. With support from UNEP, a project has set out to plant 1.4 million trees over four years to hold back erosion and retain water and nutrients in the soil.

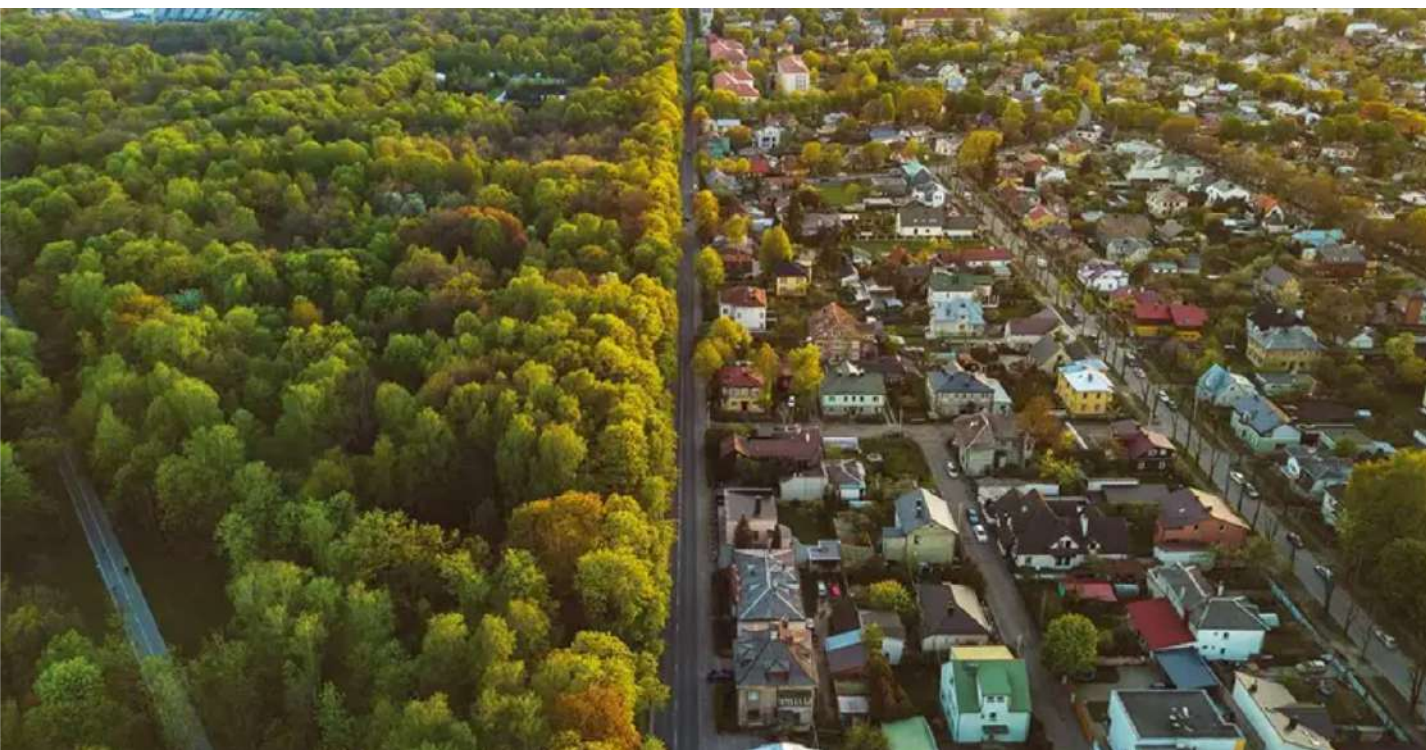
Climate-resilient infrastructure

Climate-resilient infrastructure refers to assets and systems such as roads, bridges, and power lines that can withstand shocks from extreme climate impacts. Infrastructure is responsible for 88 percent of the forecasted costs of adapting to climate change.

A World Bank report finds that climate-resilient infrastructure investments in low and middle-income countries could produce roughly USD 4.2 trillion in total benefits, around four dollars for each dollar invested. The reasoning is simple. More resilient infrastructure assets pay for themselves as their life-cycle is extended and their services are more reliable.

Tools for encouraging investments in climate-resilient infrastructure include regulatory standards like building codes, spatial planning

A World Bank report finds that climate-resilient infrastructure investments in low and middle-income countries could produce roughly USD 4.2 trillion in total benefits



frameworks such as vulnerability maps, and strong communication to increase awareness of climate risks, projections and uncertainties.

Water supplies and security

The story of climate change is, in many ways, a story about water, whether it is floods, droughts or rising sea levels. By 2030, one-in-two people are expected to face severe water shortages. Investing in more efficient irrigation will be crucial, as agriculture accounts for 70 percent of all global freshwater withdrawals. In urban centres, roughly 100-120 billion cubic metres of water could be saved by 2030 by reducing leaks.

Governments are being encouraged to develop holistic water management plans, known as Integrated Water Resource Management, that take into account the entire water cycle: from source to distribution, treatment, reuse and

return to the environment.

Research shows that investments in rainwater harvesting systems need to be sustained to make them more widely available. In Bagamoyo town, Tanzania, for instance, rising sea levels and drought from declining rainfall were causing wells to dry up and become salty. With no other options, children from the local Kingani School had to drink salt water, leading to headaches, ulcers, and low school attendance.

With support from UNEP, the government began constructing a rainwater harvesting system involving rooftop guttering and a series of large tanks for storing water. Diseases soon began to fall, and the children returned to school.

Long-term planning

Climate adaptation solutions are more effective



if integrated into long-term strategies and policies. National Adaptation Plans are a crucial governance mechanism for countries to plan for the future and strategically prioritise adaptation needs.

A key part of these plans is to examine climate scenarios decades into the future and combine these with vulnerability assessments for different sectors. These can assist in planning and guiding government decisions on investment, regulatory and fiscal framework changes and raising public awareness.

Around 70 countries have developed a National Adaptation Plan and this number is growing rapidly. UNEP is currently supporting 20 Member States in developing their plans, which can also be used to improve adaptation elements in Nationally Determined Contributions - a central part of the Paris Agreement.

'Protecting biodiversity an important environmental challenge'

Egypt's Minister of Environment Yasmine Fouad stressed that protecting migratory birds and biodiversity is one of the global and regional environmental challenges that Egypt is keen to address during the UN Conference of Parties on Climate Change (COP27).

This came during her speech at the opening of the regional conference organised by Birdlife International in cooperation with the Migratory Soaring Birds Project of the Ministry of Environment under the title "Safe Flyways: Conference on Energy and Birds" from 8th to 10th October, 2022.

The conference aimed to document relations and mutual understanding between the energy sector and nature conservation organisations along the African-Eurasian migration path in order to strengthen the relationship, understanding, and partnership between nature conservation, especially birds and energy infrastructure along the migration path.

Fouad invited attendees to the climate conference and called on them to create global momentum on the importance of protecting the environment and biological diversity from the effects of climate change during the COP27 in Egypt and the COP28 in the United Arab Emirates.

EDB Reiterates Commitment To UAE Food Security

Emirates Development Bank (EDB), a key financial engine for economic development and industrial advancement of the UAE, reiterated its commitment to UAE food security and self-reliance as a platinum partner of the Future Food Forum 2022.

Under this year's theme of 'Transforming the Future of Food and Beverage Manufacturing', the

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Future Food Forum 2022 was held on October 5 - 6, 2022, and brought together leading representatives from the UAE and international F&B industry to address the region's challenges and opportunities.

Ahmed Mohamed Al Naqbi, Chief Executive Officer of EDB, said, "The UAE's food security forms the basis for the long-term health and well-being of its population. The UAE's National Food Security 2051 will be realised through the strategic collaboration between the private and public sector that can support the nation in leveraging its advanced technology capabilities for innovative food manufacturing solutions.

"EDB engages in meaningful partnerships with local free-zones and entities such as the Ministry of Climate Change and Environment and Food Tech Valley to ensure that the businesses within

the sector receive financing and guidance to support their mission of enhancing the UAE's food security and agricultural competences."

EDB underlined the favourable financing terms it offers start-ups, SMEs, and large corporates domiciled in the UAE and engaged in activities with high developmental impact on UAE food security and manufacturing capabilities.

Potential clients visiting EDB's booth were introduced to EDB's proprietary developmental impact scorecard, with which the Bank makes lending decisions based on a company's potential contribution to the economic development and in-country value, as well as EDB's unique patient debt approach to providing flexibly priced loans with longer tenors and favourable terms.

GEYENR RAOCBN
RUOESECSR
GREEREYN
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SIESSMONI

Answers: 1) Greenery 2) Wildlife 3) Energy 4) Renewable
5) Resources 6) Carbon 7) Emissions 8) Sustain

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FREETRADE

CLIMATE

REUSE

CYCLING

ENERGY

VEGANISM

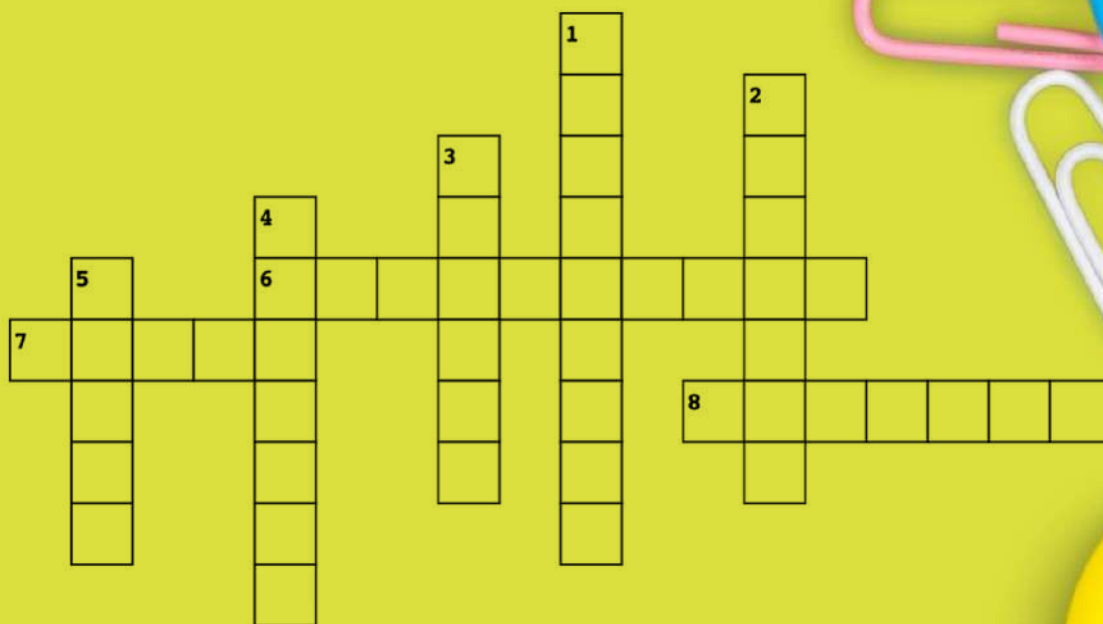
PLASTICS

TURTLES

ECONOMIC

RECYCLE

Crossword Puzzle



Across

- 6. Relating to the environment
- 7. Animals of a region
- 8. Study of living organisms

Down

- 1. Urgent crisis
- 2. Produced without artificial chemicals
- 3. Course of action proposed in politics
- 4. Meteorological report
- 5. Such as neon, hydrogen

Answers: 1) Emergency 2) Organic 3) Policy 4) Weather
5) Gases 6) Ecological 7) Fauna 8) Biology

WORD OF THE DAY:

PUBLIC TRANSPORT



Public transport is the transport of passengers. Passengers don't need their own cars or other vehicles. Most public transport lets many people travel at the same time. Ships have carried passengers since prehistoric times. Early public transport by land became important in some places in western Europe in the early 19th century. Around 1826 horsedrawn omnibuses operated in Nantes, France. Omnibuses were carts with seats for passengers to sit. About the same time, railroads began carrying passengers between towns in England. Ferries (public boats) also became bigger and more numerous then.

The main types of public transport are buses, trolleybuses, trams and trains.

One factor that is consistently ignored, yet contributes more to greenhouse emissions, is personal transportation, driving personal cars to be precise. Those living in highly populated cities feel the impacts of emissions by vehicles. And with technology traveling at lung-bursting speed coupled with rapidly expanding middle class, car ownership is projected to skyrocket.

To ease crowded roads, governments have worked to improve public transportation. To fight pollution, scientists are developing vehicles that run on different types of fuel.

Facts about Public Transportation

- Urban congestion is one of the greatest challenges of developed nations. For instance, Australian cities incur a cumulative annual cost of \$12.9 billion due to traffic congestion. If transport systems are not modernized in the near future, this cost could go up to \$20 billion. The solution to this nightmare lies in the expansion of public transportation. For instance, a single railway can get rid of 1000 cars from the roads.

- Approximately for every dollar invested in public transportation, economic returns generated are \$4, and for every \$1 billion in investments in the sector, 50,000 jobs are generated and supported.
- Public transportation also offers an immediate alternative for individuals seeking to reduce their energy use and carbon footprints. This action far exceeds the benefits of other energy-saving household activities, such as using energy-efficient light bulbs or adjusting thermostats.
- Public transport ensures citizens are at their best healthwise by encouraging them to walk to bus and railway stations, at the same time alleviating the stress that comes with driving a car on congested roads. Research learns that every hour spent driving a car increases the possibility of obesity by more than 6%.

International Day For Preventing The Exploitation Of The Environment In War And Armed Conflict – November 6

On 5 November 2001, the UN General Assembly declared 6 November of each year as the International Day for Preventing the Exploitation of the Environment in War and Armed Conflict.

Though humanity has always counted its war casualties in terms of dead and wounded soldiers and civilians, destroyed cities and livelihoods, the environment has often remained the unpublicized victim of war. Water wells have been polluted, crops torched, forests cut down, soils poisoned, and animals killed to gain military advantage.

Furthermore, the United Nations Environment Programme (UNEP) has found that over the last 60 years, at least 40 percent of all internal conflicts have been linked to the exploitation of natural resources, whether high-value resources such as timber, diamonds, gold and oil, or scarce resources such as fertile land and water. Conflicts involving natural resources have also been found to be twice as likely to relapse.

The United Nations attaches great importance to ensuring that action on the environment is part of conflict prevention, peacekeeping and peacebuilding strategies, because there can be no durable peace if the natural resources that sustain livelihoods and ecosystems are destroyed.

International Jaguar Day – November 29

International Jaguar Day was created to raise awareness about the increasing threats facing the jaguar and the critical conservation efforts ensuring its survival from Mexico to Argentina.

Observed annually on November 29, International Jaguar Day celebrates the Americas' largest wild cat as an umbrella species for biodiversity conservation and an icon for sustainable development and the centuries-old cultural heritage of Central and South America.

International Jaguar Day also represent the collective voice of jaguar range countries, in collaboration with national and international partners, to draw attention to the need to conserve jaguar corridors and their habitats as part of broader efforts to achieve the United Nation's Sustainable Development Goals.

In March 2018 representatives from 14 range

countries gathered in New York at United Nations' Headquarters for the Jaguar 2030 Forum. This Forum resulted in the creation of the Jaguar 2030 Statement which outlined a wide range of internationally collaborative jaguar conservation initiatives, including the proposal to create an International Jaguar Day. Many range countries are also observing National Jaguar Day celebrations including Brazil, which has recognized the jaguar as its symbol for biodiversity.

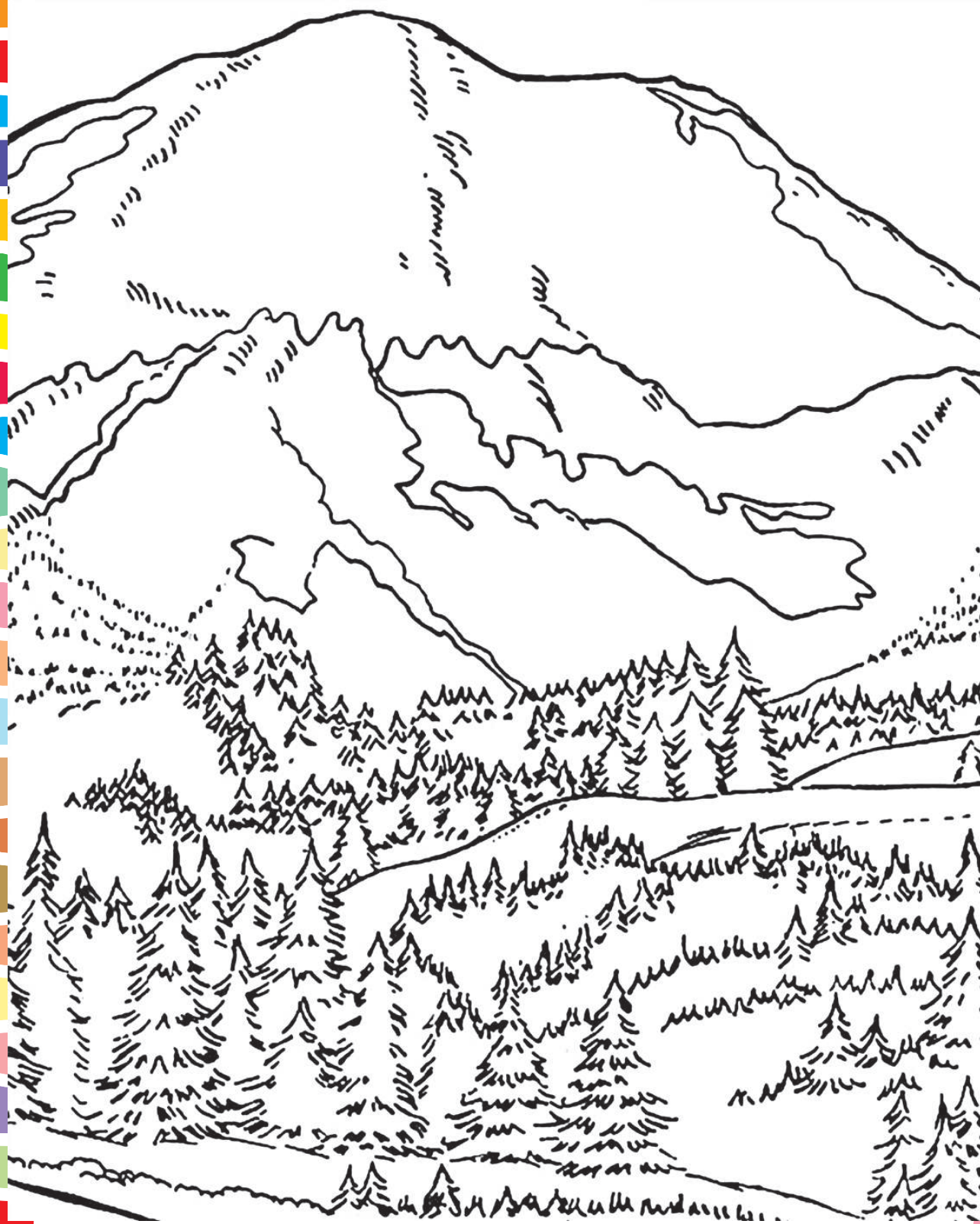


What can you do to help?

Things to Do...

- ☒ Use both sides of paper
- ☒ Reuse plastic bags
- ☒ Use metal straws!
- ☒ Volunteer for a clean-up drive
- ☒ Use public transport!

COLOUR ME!



New Solar Plant To Power Khazna Data Centres Facility In Masdar City

Emerge, a joint venture between Masdar and EDF, and Khazna Data Centres, the largest network of hyperscale data centres in the Middle East and North Africa region, have signed an agreement to develop a ground-mounted solar photovoltaic (PV) plant to power Khazna's new data centre in Masdar City.

The plant, which has obtained Abu Dhabi's

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Department of Energy Solar Photovoltaic (PV) self-regulating generation license, will have an installed capacity of 7-megawatt peak (MWp) and will provide electricity to the Khazna Abu Dhabi 6 (AUH 6) facility which is currently under construction in Masdar City, Abu Dhabi's flagship sustainable urban development. Emerge will provide a full turnkey solution for the project, including finance, design, procurement, construction, operations, and maintenance, for 25 years.

Hassan Alnaqbi, CEO of Khazna, said, "To successfully meet the growing reliance on data and the rise of IoT, data centres have had to rapidly expand their infrastructure. As a result, data centres have inevitably become some of the world's main consumers of energy. As such, we are designing and constructing today's data centres with sustainability at top of mind in addition to

implementing environmental solutions to help mitigate the effects of climate change."

Michel Abi Saab, General Manager, Emerge, said, "This agreement with Khazna Data Centres advances Abu Dhabi's commitment to sustainability and high-tech industry, and extends Emerge's range of offerings. By providing and managing a reliable source of clean energy, Emerge will enable Khazna to focus on providing high-quality data centre services to its clients within Masdar City and beyond."

The solar PV plant will take the company's Abu Dhabi portfolio, in operation and in delivery, to over 25 MWp. Emerge announced in July that it had signed an agreement to deploy rooftop solar systems at the SeaWorld Abu Dhabi theme park currently under construction on Yas Island.

IMPORTANCE OF WATER

The Zayed International Foundation for the Environment held an interesting webinar recently to discuss the importance of water for human civilization. My role was to cover basic concepts and draw attention to the challenging questions on this topic.

The integrated management and conservation of water resources have been part of discussions for a very long time but the outcomes have not been very satisfactory. We continue to waste water while drinking, cleaning, cooling, and during irrigation and industrial production, and even in entertainment, tourism and sports!

So, is this then a Consciousness Problem?!!

Most countries cite lack of governance and ill-management for overexploitation and



Dr. Eisa M. Abdellatif
Chief Technical Advisor
Zayed International
Foundation for the
Environment

pollution of water resources. Today, a serious water pollution concern is that of plastic and microplastics. Micro and nano plastics are now found in rivers, lakes, oceans and even in drinking water, posing a serious challenge to human health.

Most solutions focus on hardware and software but ignore what I call the 'Humanware'. We can easily install an advanced water conservation system but we fail to convince people to use it properly due to lack of awareness and training.

We are all aware of the three components necessary to make our resources sustainable - Economic, Social and Environmental. But how much attention do we pay to partnerships and participation of the community to solve these challenges?

For new and effective solutions, we must go back and review the basic concepts and learn from old traditions/social values that have been instrumental in preserving water. Natural resources supply us with all needs from nature. Water is both a renewable and nonrenewable resource.

Today, water security is a highly challenging issue in our region due to the scarcity of freshwater resources. The financially and environmentally expensive desalination process is not always the solution. Our food security depends first on water security, and on sustainable agricultural production and sustainable fisheries resources.

We must bear in mind that: Where there is a will, there is a way. We have to focus on human beings. After all, Man is both the goal and means of development.

Education and mass media thus become vital tools in communication to achieve sustainable solutions.



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- حماية الزجاج الأمامي

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فقط **2,599** درهم



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