



MAY
2022
ISSUE 207

Society & Environment

creating green communities for a better tomorrow

A monthly publication issued by Zayed International Foundation for the Environment



08

Sheikh Khalifa bin Zayed Al Nahyan
(1948 – 2022)



24

Sheikh Mohamed bin Zayed
elected President of the UAE

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
يَا أَيُّهَا الْمُسْلِمُونَ إِنَّهُ كَانَ وَعْدٌ لَكُمْ مِنْ رَبِّكُمْ وَإِنْ كُنْتُمْ لَا تَعْلَمُونَ
يَا أَيُّهَا الْمُسْلِمُونَ إِنَّهُ كَانَ وَعْدٌ لَكُمْ مِنْ رَبِّكُمْ وَإِنْ كُنْتُمْ لَا تَعْلَمُونَ



With our belief in God's will and with deep sorrow & sadness
We offer our sincere condolences to

The wise leadership of the UAE

And the Emirati people & to Arab and Muslim nations around the world

On the passing of
Sheikh Khalifa bin Zayed Al Nahyan

May he rest in eternal peace

"Verily to God we belong and verily to him we shall return"

إِنَّا لِلَّهِ وَإِنَّا إِلَيْهِ رَاجِعُونَ



MAH

GOLD AND JEWELLERY L.L.C
PRECIOUS METAL TRADING

ام اي اتش للذهب والمجوهرات ش.م.م
MAH GOLD AND JEWELLERY L.L.C



Sheikh Khalifa bin Zayed Al Nahyan

President of the United Arab Emirates and Ruler of Abu Dhabi
(1948 – 2022)



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
يَا أَيُّهَا الْمُسْلِمُونَ إِنَّهُ كَانَ فِيكُمْ أَنْبِيَاءٌ مِنْكُمْ يَأْتِيكُمْ بِالْبَيِّنَاتِ لِقَاءِ رَبِّكُمْ إِنَّكُمْ كُنْتُمْ قَدْ خَلَقْتُمْ فِيكُمْ أَنْبِيَاءً مِنْكُمْ يَأْتِيكُمْ بِالْبَيِّنَاتِ لِقَاءِ رَبِّكُمْ



With our belief in God's will and with deep sorrow & sadness

We offer our sincere condolences to

The wise leadership of the UAE

And the Emirati people & to Arab and Muslim nations around the world

On the passing of

Sheikh Khalifa bin Zayed Al Nahyan

May he rest in eternal peace

“Verily to God we belong and verily to him we shall return”

إِنَّا لِلَّهِ وَإِنَّا إِلَيْهِ رَاجِعُونَ



MANOJ
REINSURANCE BROKERS

Chairman's Message

The late UAE President Sheikh Khalifa bin Zayed Al Nahyan was a visionary leader and pioneer who leaves behind an extraordinarily rich legacy that has shaped the destiny of this nation, and the affairs of the entire Arab world.

Since assuming the presidency in 2004, Sheikh Khalifa led major projects and initiatives that have transformed the UAE politically, socially, and economically, and guided the nation on its path of economic diversification, in line with the vision of Sheikh Zayed bin Sultan Al Nahyan, the UAE's Founding Father.

Sheikh Khalifa's vision for the future also encompassed the environment. A keen conservationist, under his leadership, the UAE created the Ministry of Climate Change and Environment, thus entrenching its position as an environmental leader in the region. Under his guidance, special attention was given to the development of the energy sector. From building one of the largest concentrated solar thermal power plants in the world to the successful delivery of the Arab region's first



**Prof. Mohammed
bin Fahad**
Executive Editor

multi-unit nuclear plant, the UAE has taken on a pioneering lead as a regional hub for renewable and clean energy under his leadership.

It is with a heavy heart that we bid farewell to a national icon and a towering leader who played a crucial role in bringing the UAE into the 21st century. Sheikh Khalifa's illustrious legacy will certainly be cherished forever.

Today, we are grateful to have His Highness Sheikh Mohamed bin Zayed Al Nahyan as the new President of the UAE, who has championed the emirate to be a beacon of stability and tolerance as the nation enters a new era of growth. Under Sheikh Mohamed's leadership, the UAE will continue to unlock its full potential and forge ahead with full confidence to new paths of glory.

Contents

6

WHAT'S INSIDE



06

COVER STORY

UAE President Sheikh Khalifa bin Zayed Al Nahyan passes away

16

IN MEMORIAM

UAE enhances regional and international stature of the country under Sheikh Khalifa's leadership



24

UAE NEWS: Sheikh Mohamed bin Zayed Al Nahyan elected President of the UAE

28

ENERGY

Construction of UAE's first waste-to-energy plant in Sharjah is complete and systems testing has started

32



CONFERENCE: Future power and water demand to be explored at World Utilities Congress

36

REPORT

Renewables take lion's share of global power additions at 9.1 percent in 2021: IRENA



38

ACHIEVEMENT

DEWA records -300fold increase in power capacity since 1970

GREEN HYDROGEN

Masdar signs two MoUs to develop 4 GW-capacity green hydrogen plants In Egypt by 2030



42

PUBLISHED BY



Executive Director

Prof. Mohammed Bin Fahad

Advisors

Dr. Hamdan K. Al Shaer

Dr. Eisa M. Abdellatif

Marketing

marketing@zayedprize.org.ae

Editor

Sangeetha K

editor@zayedprize.org.ae

mail@zayedprize.org.ae

Design Director

Nash - Intoto Marketing

Communications

editor@zayedprize.org.ae

48



SOLAR POWER: dnata invests in rooftop solar power plant to reduce electricity-related carbon emissions by 20 percent at Changi Airport

56

NATURAL RESOURCE

Sand is the world's second most exploited resource and must be wisely managed, says UN

65



AWARD: David Attenborough receives the UN's most distinguished environment award



Upcoming events

Enabling Sustainable Lifestyles in a Climate Emergency

Date: May 9

Webinar

The webinar offers insights on what forces shape our lifestyles as well as what enabling and supporting policies - such as choice editing - can help governments and businesses kick start the transition to sustainable lifestyles.

This event will delve into how we can change how we consume and explore how sustainable living can enable circularity. Policy makers will recount how and why some policy strategies have been successfully (or less successfully) implemented.

Integration of Digital Technologies in Disaster Preparedness

Date: May 16 - 27

Location: Kerala, India

As the huge potential of modern technologies is still underexploited in disaster management and disaster risk reduction, the goal of this workshop is to raise awareness and build capacity for the employment of technologies that can facilitate effective preparation and response mechanisms to reduce the risks that emerge from natural disasters.

In this context, UNEP is partnering with the Kerala University of Digital Sciences, Innovation and Technology and the University of Southampton, UK to address the lack of understanding and absence of requisite skills that hinder the broad application of digital technologies in combating disasters.

Twenty-Second Global Meeting of the Regional Seas Programme

Date: May 25 - 28

Location: Mahe, Seychelles

The objectives of the 22nd annual meeting is to launch the new Regional Seas Strategic Directions (RSSD) 2022 - 2025 and kickstart its implementation. RSSD 2022-2025 aims to more effectively mainstream the conservation and sustainable use of oceans into policies and programmes, harmonize methodologies for tracking progress, and foster an integrated response to combat the ecological, climate, pollution, and health crisis for achieving long-term health of the ocean, as well as the people who rely on the ocean for subsistence or otherwise.

UAE President Sheikh Khalifa Passes Away



Sheikh Khalifa bin Zayed Al Nahyan
President of the United Arab Emirates
and Ruler of Abu Dhabi
1948 - 2022

His Highness Sheikh Khalifa bin Zayed Al Nahyan, UAE President and Ruler of Abu Dhabi, passed away on Friday, May 13, at the age of 73.

A statement issued by the Ministry of Presidential Affairs announced the death of Sheikh Khalifa. "The Ministry of Presidential Affairs mourns the death of the nation's President His Highness Sheikh Khalifa bin Zayed Al Nahyan," the statement read.

The Ministry has also declared an official mourning period for the late UAE President with the flag flown at half-mast for 40 days.

Sheikh Khalifa bin Zayed Al Nahyan, who marshalled the oil wealth of the United Arab Emirates to develop the Persian Gulf nation into an economic powerhouse was the second



President of the UAE and the 16th Ruler of the Emirate of Abu Dhabi. He assumed the federal constitutional authority as President of the UAE and became a Ruler of the emirate of Abu Dhabi on the 3rd of November 2004, succeeding his late father Sheikh Zayed bin Sultan Al Nahyan who passed away on the 2nd of November 2004.

Early Life

Sheikh Khalifa was born in 1948 in the eastern region of the emirate of Abu Dhabi and received his primary education in the city of Al Ain, which was the administrative hub for the region. He is the eldest son of the late Sheikh Zayed bin Sultan Al Nahyan and his mother is Sheikha Hissa bint Mohammed bin Khalifa bin Zayed Al Nahyan.

Sheikh Khalifa belongs to the tribe of Bani Yas, which is considered to be the mother tribe for most of the Arab tribes that settled in what is

known today as the UAE. This tribe led an alliance of the Arab tribes, which is historically known as 'Bani Yas Alliance'.

He followed his late father Sheikh Zayed bin Sultan Al Nahyan in all the stages of his life. He was first appointed as the Ruler's Representative and Chief of Courts in the Eastern Region on 18th of September 1966. This position was of a great significance in his life. While Sheikh Khalifa was staying in city of Al Ain, he received the opportunity to remain in contact with UAE citizens on a daily basis, and became aware of their needs, aspirations and hopes.

Modernising defence units

He was appointed as Crown Prince of the emirate of Abu Dhabi on the 1st of February 1969 and head of defence department. While in this position, Sheikh Khalifa assumed the leadership



of defence force in the emirate and played a key role in its development, turning it from a small force into a multifunction unit armed with the most modern equipment.

On the 1st of May 1971, Sheikh Khalifa took up the position of 'President of the first local Cabinet for the emirate of Abu Dhabi' and assumed the portfolios of defence and finance in the Cabinet.

Following the declaration of the federal state, in addition to his local responsibilities, he occupied the post of 'Vice President of the Cabinet of the Federal Government', which was formed in December of 1973.

In February of 1974, and following the annulment of the local Cabinet, Sheikh Khalifa became the first President of the Executive Council that replaced the Cabinet of the emirate.

Steering development projects

During his tenure as President of the Executive Council, Sheikh Khalifa supervised and followed up on development projects across all parts of the emirate of Abu Dhabi. His Highness gave considerable attention to the modernisation of infrastructure projects as well as development of various services.

He also strived to build a modern administrative apparatus, and fully integrated legislative regulations, identifying them as fundamental to the social and economic development process.

In addition to his responsibilities as President of the Executive Council, he was in charge of the establishment of the Abu Dhabi Investment Authority in 1976. This authority supervises the management of financial investments of the



emirate as part of a strategic vision for the development of the financial resources and conservation of a stable source of income for generations to come.

One of the major development initiatives of profound social impact made by Sheikh Khalifa was the establishment of social services and commercial buildings department, commonly known as 'Sheikh Khalifa Committee'. Activities of the department contributed to the development of construction activities in the emirate of Abu Dhabi.

He also assumed the position of Deputy Supreme Commander of UAE Armed Forces, during which he gave special attention to the development of the armed forces.

Under Sheikh Khalifa, the armed forces achieved

a great leap in the adoption of modern technologies and advanced training methods.

In a significant contribution, Sheikh Khalifa formulated a military creed, based on the supreme policy of the state that adopts a moderate approach, non-intervention in other's affairs and respect of mutual interests.

He spared no effort in drafting a defence policy that maintains independence, sovereignty and interests of the state. This policy has enabled the UAE Armed Forces to achieve an advanced position that has gained the respect of the entire world.

A journey of prosperity and stability

On November 4, 2004, Sheikh Khalifa assumed power and, up until his passing, helped the country, whose track record of achievements



spans nearly 35 years, progress from the foundation phase to the empowerment stage.

Over this short period, the UAE has topped international competitiveness indexes and has become the second-largest economy in the Arab region, despite its small area and population.

Moreover, the UAE is the first Arab and Islamic nation to reach the planet Mars and one among few countries with significant achievements in the space sector. The UAE's achievements under Sheikh Khalifa's leadership are reflected on the lives of its people and business community, making it the dream destination of anyone seeking success, stability, and wellbeing.

After assuming power, the late Sheikh Khalifa launched the first strategic plan of the UAE Government to achieve balanced and sustainable

development and ensure the wellbeing of the residents of the UAE.

Among his many qualities, what the late President Sheikh Khalifa bin Zayed is certain to be remembered for is his openness to new ideas and for stewarding the UAE through a defining chapter in its history – one in which its population more than doubled, and its cities became global metropolitan centres.

Not only did he guide the nation, but Sheikh Khalifa also helped steer the Gulf to prosperity and stability during the turbulent years of the global financial crisis. He also oversaw unprecedented changes that has made the UAE what it is today, a success story of unrivalled pace and scope of development.



بسم الله الرحمن الرحيم
يَا أَيُّهَا النَّفْسُ الْمُطْمَئِنَّةُ ارْجِعِي إِلَىٰ رَبِّكِ رَاضِيَةً مَّرْضِيَّةً فَادْخُلِي فِي عِبَادِي وَادْخُلِي جَنَّاتِي

بقلوب مؤمنة بقضاء الله وقدره وبمزيد من الحزن والأسى
نتقدم بخالص العزاء وصادق المواساة إلى
القيادة الرشيدة
وشعب دولة الإمارات العربية المتحدة وإلى الأمتين العربية والإسلامية والعالم أجمع

في وفاة المغفور له بإذن الله تعالى
الشيخ خليفة بن زايد آل نهيان
"طيب الله ثراه"

سائلين المولى عز وجل ان يتغمده بواسع رحمته
ويسكنه فسيح جناته ويلهمنا الصبر والسلوان



حديد الإمارات
emirates steel



Sheikh Mohammed mourns death of Sheikh Khalifa Bin Zayed

14

COVER STORY



His Highness Sheikh Mohammed Bin Rashid Al Maktoum, Vice President and Prime Minister of UAE and Ruler of Dubai, has mourned the death of the leader of the nation, President His Highness Sheikh Khalifa Bin Zayed Al Nahyan, who passed away on May 13.

In a tweet on his official Twitter account, Sheikh Mohammed said, "With great sadness, we mourn the death of our leader and President, Sheikh Khalifa Bin Zayed Al Nahyan. I pray to Allah Almighty to grant him peace in Paradise."

"Sheikh Khalifa was a dedicated leader who served and loved his people, a love they reciprocated, and we ask Allah Almighty to grant us solace and patience."

His Highness Sheikh Mohammed bin Rashid Al Maktoum also paid a special tribute to Sheikh

Khalifa bin Zayed Al Nahyan in a poem titled 'In the Eternal Paradise'.

In the poem, Sheikh Mohammed condoles with the people of the UAE, as well as the rest of the world, over the loss of Sheikh Khalifa, who he describes as his mentor. He also prays to Allah Almighty to bless the late leader of the nation.

The Dubai Ruler's poem concludes with a message of support for HH Sheikh Mohamed bin Zayed Al Nahyan, the new President of the UAE.

"He is a true carrier of the legacy of (Sheikh Khalifa). May God grant him patience and lighten up his path," His Highness Sheikh Mohammed wrote. "We pledge our allegiance and support to him with love and honesty because obeying the ruler is a duty."

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

يَا أَيَّتُهَا النَّفْسُ الْمُطْمَئِنَّةُ ارْجِعِي إِلَىٰ رَبِّكِ رَاضِيَةً مَّرْضِيَّةً فَادْخُلِي فِي عِبَادِي وَادْخُلِي جَنَّاتِي

بقلوب مؤمنة بقضاء الله وقدره وبمزيد من الحزن والأسى
نتقدم بخالص العزاء وصادق المواساة إلى

القيادة الرشيدة

وشعب دولة الإمارات العربية المتحدة
وإلى الأمتين العربية والإسلامية والعالم أجمع
في وفاة المغفور له بإذن الله تعالى

الشيخ خليفة بن زايد آل نهيان
"طيب الله ثراه"

سائلين المولى عز وجل ان يتغمده بواسع رحمته
ويسكنه فسيح جناته ويلهمنا الصبر والسلوان

إِنَّا لِلَّهِ وَإِنَّا إِلَيْهِ رَاجِعُونَ

UAE expands economic reach, enhances regional and international stature of the country under Sheikh Khalifa's leadership

16

COVER STORY



**Sheikh Khalifa bin Zayed Al Nahyan
oversaw vast economic growth
and built his country's diplomatic
relations with about 200 countries
around the world**

Under the rule of the late Sheikh Khalifa Bin Zayed Al Nahyan, the UAE has bolstered its position and proactive role on the regional and international scene, forging robust relations with the outer world on the basis of mutual respect and unwavering commitment to resolving global disputes through diplomacy.

The prudent leadership of the late Sheikh Khalifa contributed to advancing the stature of the UAE as a regional cornerstone for achieving security and stability and promoting peaceful coexistence.

The late president had his thoughtful vision for the Arab Gulf as a strategic region whose security and stability are fundamental to the security and stability of the world.

Under his leadership, the UAE continued its

The late Sheikh Khalifa was keen on following in the footsteps of the UAE's Founding Fathers, consolidating bridges of cooperation with all Arab nations across all fronts



significant role in deepening ties of cooperation between GCC states and their peoples, and effectively contributed to the sustainable development drives adopted by the region.

In so doing, the late Sheikh Khalifa was keen on following in the footsteps of the UAE's Founding Fathers, consolidating bridges of cooperation with all Arab nations across all fronts. During the past years, in which many Arab countries faced major challenges, the UAE contributed to maintaining Arab security, providing all possible means of support for defending Arab causes.

During the global health crisis, triggered by the COVID-19 pandemic, the UAE has been unwaveringly standing by Arab nations in addressing the repercussions through the dispatch of medical supplies, food and other humanitarian aid and services.

Under late Sheikh Khalifa, the UAE forged strategic partnerships with emerging economic powers like China, India and South Korea, while continuing ties with powerhouses led by the United States and Russia. It also continued to strengthen cooperation relations with the European Union members, notably France, Britain, Germany and other influential international powers.

Thanks to his wise policy, the UAE has maintained constructive diplomatic relations with about 200 countries around the world, with the Emirates now hosting around 110 foreign embassies and 75 consulates on its soil.

Today, the UAE passport ranked on the list of the world's top 20 most powerful passports in the first quarter of 2022. The UAE passport was ranked 15th this year and 16th in 2021 with a



visa-free/visa-on-arrival score of 173. In 2020, the UAE passport was ranked 18th. UAE passport holders can now enter 175 destinations around the world visa-free.

Thanks to his leadership, the UAE established partnership ties with various international organisations and institutions and played a prominent role in enabling these entities to carry out their responsibilities, foremost of which is maintaining international security and stability, promoting the language of tolerance and dialogue among peoples, and strengthening response to emergency humanitarian situations.

Recently, the UAE won for the second time in its history a non-permanent seat in the UN Security Council for the period 2022-2023. In addition, UAE won membership on the UN Human Rights Council for the 2022-2024 term during elections

that took place among members of the United Nations General Assembly, continuing its efforts to promote and protect human rights on national, regional, and international levels. The United Arab Emirates has cooperation agreements with more than 28 international organisations of the United Nations, which carry out about 80 advisory and technical missions on the Emirati soil.

At the humanitarian level, the UAE under late Sheikh Khalifa forged ahead with providing foreign aid to various countries around the world with the aim of reducing poverty and helping countries and societies in need, as well as promoting peace, prosperity and stability, and stimulating economic growth in developing countries. Until mid-2021, the UAE provided more than AED320 billion in foreign aid to about 155 countries across the globe.



With our belief in God's will and with deep sorrow & sadness

We offer our sincere condolences to

The wise leadership of the UAE

And the Emirati people & to Arab and Muslim nations around the world

On the passing of

Sheikh Khalifa bin Zayed Al Nahyan

May he rest in eternal peace

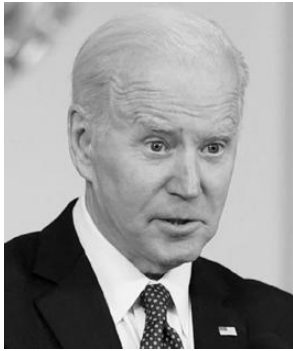
"Verily to God we belong and verily to him we shall return"



'His legacy will live on': World leaders pay tribute to Sheikh Khalifa bin Zayed Al Nahyan



Tributes poured in from across the world as regional and global leaders offered their condolences on the demise of Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE. Sheikh Khalifa passed away on May 13 and was laid to rest the same evening at the Al Bateen Cemetery in Abu Dhabi.



Joe Biden
President of the United States of America

'A great loss'

"Sheikh Khalifa was a true partner and friend of the United States throughout his decades-long tenure as President of the United Arab Emirates and Ruler of Abu Dhabi, and in his earlier role as Crown Prince of Abu Dhabi."

"On behalf of the American people, I offer my condolences to Sheikh Khalifa's family and all Emiratis as they mourn this great loss."

"We will honor his memory by continuing to strengthen the longstanding ties between the governments and people of the United States and the United Arab Emirates."



Queen Elizabeth II
United Kingdom

"I extend my profound condolences to the leadership, government and people of the United Arab Emirates on the passing of late His Highness Sheikh Khalifa Bin Zayed Al Nahyan."



António Guterres
UN Secretary-General

"I reiterate the commitment of the United Nations to its close cooperation with the United Arab Emirates, including on humanitarian issues and interfaith dialogue, as well as on regional and global peace, security and sustainable development."

Higher Committee of Human Fraternity (HCHF)

"Sheikh Khalifa departed after a journey full of giving, during which he planted goodness, compassion and peace for all of humanity following in the footsteps of his wise father, the late founding father of the UAE, Sheikh Zayed bin Sultan Al Nahyan."

"We appreciate the late President's tremendous efforts to promote values of coexistence, compassion and tolerance."



Prime Minister Lee Hsien Loong
Singapore

"His Highness Sheikh Khalifa dedicated his life in service of the people of Abu Dhabi as well as the UAE. His Highness played a key role in strengthening the unity of the federation and

improving the lives of his people."

"During His Highness' reign, relations between Singapore and the UAE were strengthened with the establishment of the Singapore Embassy in Abu Dhabi in 2007. His Highness' leadership laid a strong foundation for bilateral relations, which have since been elevated with the Singapore-UAE Comprehensive Partnership (SUCP) signed in 2019."

The French Ministry for Europe and Foreign Affairs

"France learned with great sadness of the death of His Highness Sheikh Khalifa bin Zayed Al Nahyan, may Allah Almighty have mercy on him, and extends its deepest condolences to the UAE leadership and people."

"With the death of Sheikh Khalifa bin Zayed Al Nahyan, the people of the Emirates lost a leader respected by all, and we commend his deep commitment to stability and peace in the region and the world."

Brazilian Ministry of Foreign Affairs

"Sheikh Khalifa bin Zayed was a statesman who played an active role in his country's impressive social and economic development in the recent decades. Under his leadership, relations between Brazil and the UAE have been developed and the two countries enjoy strategic partnership."

Greek Foreign Ministry

"Profoundly saddened by the passing of UAE President Sheikh Khalifa bin Zayed Al Nahyan. During his tenure, Greece-UAE relations have expanded exponentially."



Kamala Harris

US Vice President

"Under Sheikh Khalifa's leadership, the strong partnership between the United States and the UAE has enhanced the security and prosperity of the American and Emirati people, and we

are grateful for our work together across multiple administrations. The legacy of this partnership can be found in the deep bonds between our countries, which our Administration will continue to strengthen."



Park Jin

Foreign Minister of South Korea

"Under the leadership of President Khalifa, the UAE underwent dynamic development and took a leap to become a leading nation in the Middle East-African region, and

the deceased has been loved and respected by the country's people."



Ram Nath Kovind

President of India

"The Arab and Islamic nations have lost a wise leader who dedicated his life to serving his nation and contributed to achieving world peace."



Lieutenant General Abdel Fattah Abdelrahman al-Burhan

Abdelrahman al-Burhan

Sovereign Council Chairman of Sudan

"The Arab and Islamic nations have lost a wise leader who dedicated his life to serving his nation and contributed to achieving world peace."



Fumio Kishida

Prime Minister of Japan

"Since he visited Japan in his capacity as Crown Prince of Abu Dhabi at the Expo '70 in Osaka, 1970, he attached great importance to strengthening his country's relations with Japan, especially in the field of energy"



Karl Nehammer

Federal Chancellor and Prime Minister of the Republic of Austria

"Sheikh Khalifa has been a great leader, building bridges between the nations."



Ursula von der Leyen

President of the EU Commission

"Sheikh Khalifa devoted his life to his country, working for the welfare and future of the UAE. With him, the UAE became prosperous,

tolerant and open to the world. His legacy will live on."



Boris Johnson

Prime Minister of the United Kingdom

"Sheikh Khalifa has been a pillar in strengthening friendly relations and establishing cooperation between the two countries. I extend my condolences to the UAE

leadership, government and people."



Vladimir Putin

President of Russia

"Sheikh Khalifa has been a pillar in strengthening friendly relations and establishing cooperation between the two countries. I extend my condolences to the UAE leadership, government

and people."



Muhammadu Buhari

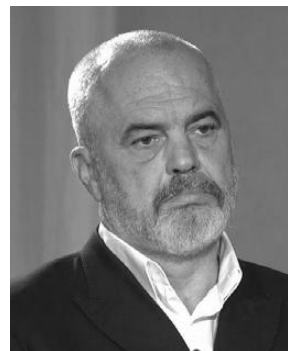
President of Nigeria

"The death of late UAE President Sheikh Khalifa Bin Zayed Al Nahyan has robbed the world of one of its visionaries and most remarkable leaders

of modern times."

"It's impossible to write about the social and economic transformation of the UAE without recognition of the significant and immeasurable contributions of the deceased to the progress of the country today."

"The late Khalifa Bin Zayed will have a prominent mention in the pantheon of great achievers who have used the wealth of their countries to transform the lives of the people."



Edi Rama

Prime Minister of Albania

"Deeply saddened by the passing of His Highness Sheikh Khalifa bin Zayed Al Nahyan. His Highness was a source of inspiration for peace and humanism. May his soul rest in peace."



Barham Salih

President of Iraq

"We received the passing of the President of UAE His Highness Sheikh Khalifa bin Zayed Al Nahyan with profound sadness and sorrow."

"He was known for his wisdom and generosity for the sake of his homeland and the Arab and Islamic nations."

Cyril Ramaphosa

President, South Africa

"He will be remembered for his tireless efforts in enhancing bilateral relations between democratic South Africa and the UAE and promoting the interests of the South African government and people."

Sheikh Mohamed bin Zayed elected President of the UAE



The UAE's Federal Supreme Council unanimously names His Highness Sheikh Mohamed bin Zayed as the third president of the UAE, following the death of his brother, Sheikh Khalifa

The Federal Supreme Council has unanimously elected His Highness Sheikh Mohamed bin Zayed Al Nahyan as President of the United Arab Emirates.

The meeting held at Al Mushrif Palace in Abu Dhabi, was chaired by His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai.

The meeting was attended by His Highness Sheikh Mohamed bin Zayed Al Nahyan; H.H. Dr. Sheikh Sultan bin Muhammad Al Qasimi, Supreme Council Member and Ruler of Sharjah; H.H. Sheikh Humaid bin Rashid Al Nuaimi, Supreme Council Member and Ruler of Ajman; H.H. Sheikh Hamad bin Mohammed Al Sharqi, Supreme Council Member and Ruler of Fujairah; H.H. Sheikh Saud bin Rashid Al Mu'alla, Supreme

Born on March 11th, 1961, Sheikh Mohamed is the third son of the late Sheikh Zayed bin Sultan Al Nahyan, from whom he learned the art of governance and leadership



Council Member and Ruler of Umm Al Qaiwain; and H.H. Sheikh Saud bin Saqr Al Qasimi, Supreme Council Member and Ruler of Ras Al Khaimah.

Their Highnesses, the Supreme Council Members and Rulers of the Emirates have reaffirmed their keenness to continue implementing the authentic values and principles laid down by the late Sheikh Khalifa, following on from the founding father, the late Sheikh Zayed bin Sultan Al Nahyan. These have consolidated the UAE's status at both regional and global levels.

The Federal Supreme Council expressed its full confidence that the people of the UAE will remain, as Sheikh Zayed and the founders believed, "a faithful guardian of the Union and its gains at all levels". Their Highnesses wished H.H. Sheikh Mohamed bin Zayed Al Nahyan success in serving his people and country.

Hailing Sheikh Mohamed bin Zayed as "the carrier of Sheikh Zayed's legacy, the founder of our centennial and the protector of our union," Sheikh Mohammed bin Rashid pledged allegiance to the successor. "Our country shall follow him towards the path of glory and prosperity."

Sheikh Mohamed bin Zayed expressed his appreciation for the precious trust placed in him by his brothers, Their Highnesses the Supreme Council Members and Rulers of the Emirates, praying to the Almighty to guide and help him to bear the responsibility of this great trust and to fulfil its tasks of serving his country and people.

Leading the nation on its illustrious journey

The new UAE President His Highness Sheikh Mohamed bin Zayed Al Nahyan is a leader of high calibre, who has made a difference at the local



level, and achieved remarkable milestones in terms of promoting peace and security regionally and globally, while spreading tolerance and peaceful coexistence between religions and societies, and setting an example to be emulated for humanitarian work.

Born on March 11th, 1961, Sheikh Mohamed is the third son of the late Sheikh Zayed bin Sultan Al Nahyan, from whom he learned the art of governance and leadership.

He was educated at schools in Al Ain and Abu Dhabi until the age of 18. In 1979, he joined the prestigious Royal Military Academy Sandhurst, where he trained in armour, helicopter flying, tactical flying and paratroops. After graduating in April 1979, he returned home to the UAE to join the Officers' Training Course in Sharjah. He has also held a number of roles in the UAE military.

Guided by the directives of the late Sheikh Zayed bin Sultan Al Nahyan and late Sheikh Khalifa bin Zayed Al Nahyan, H.H. Sheikh Mohamed bin Zayed helped develop the UAE Armed Forces in terms of strategic planning, training, organisational structure and promoting defense capabilities. Sheikh Mohamed's direct guidance and leadership led the UAE Armed Forces to become a leading institution that is widely admired by many international military organisations.

At the federal level, the insightful vision of His Highness and his wise leadership contributed to the renaissance of the modern UAE and the consolidation of its position as an ideal global destination at various levels. Sheikh Mohamed believes that investing in education is the most valuable investment for delivering the future of a nation. Therefore, he has always been determined to provide national educational institutions with



the latest state-of-the-art technology and know-how to keep pace with the rapid and multi-faceted changes taking place globally across all fronts.

Environmental protection has also received great care and attention from His Highness Sheikh Mohamed who has led significant conservation efforts to protect falcons and houbara bustards in the UAE and internationally.

In January 2008, His Highness announced that the Abu Dhabi Government would contribute US\$15 billion to Masdar, the global standard-setting alternative and renewable energy initiative based in Abu Dhabi and developer of the world's first carbon-neutral, zero-waste city.

After the UAE named 2019 as the "Year of Tolerance", HH Sheikh Mohamed received His Holiness Pope Francis, Head of the Catholic

Church, and His Eminence the Grand Imam Dr. Ahmed Al-Tayeb, Sheikh Al-Azhar Al-Sharif, and the global meeting in the capital Abu Dhabi resulted in the signing of the Human Fraternity Document to be a guide to promoting a culture of mutual respect and dialogue for peaceful coexistence and fraternity among human beings.

Just as HH Sheikh Mohamed bin Zayed Al Nahyan spared no effort to spread the values of tolerance, he has been dedicated to serving humanity at large, providing assistance to brotherly and friendly countries, by concluding agreements that carry the meanings of peace, coexistence and cooperation. He also directed the nation's humanitarian arm, Emirates Red Crescent, along with other charitable societies, to provide a helping hand to peoples afflicted by wars or the effects of disasters and crises.

Construction Of UAE's First Waste-To-Energy Plant Complete

Construction of the UAE's first waste-to-energy plant has been completed, with the project now entering the testing and commissioning phase.

The Sharjah Waste-to-Energy plant is the first project of Emirates Waste-to-Energy, a joint venture established by BEEAH Energy, the renewable energy business of BEEAH Group,



Construction at the waste-to-energy plant in Sharjah is complete and systems testing has started

and Masdar, one of the world's leading renewable energy companies.

Once tested, commissioned and operational, the plant will enable Sharjah to become the Middle East's first zero-waste city, turning unrecyclable waste into clean energy and increasing the current landfill diversion rate from 76 percent to 100 percent. It will also help reduce waste sent to landfill across the UAE, while contributing to the nation's clean energy resources.

At full operational capacity, the plant will help divert up to 300,000 tonnes of unrecyclable waste away from landfills each year while producing 30 MW of low-carbon electricity, enough to power 28,000 homes in Sharjah.

Khaled Al Huraimel, Group CEO of BEEAH Group, said, "Completion of construction is an important

The plant in Sharjah is central to fulfilling the emirate's vision of becoming the Middle East's first zero-waste city



milestone for our Emirates Waste to Energy venture as we continue to pioneer clean energy innovations in the UAE. We look forward to a successful testing and commissioning phase followed by achieving full operations, which will make Sharjah the Middle East's first zero-waste city. This will also be a landmark moment as we work towards a zero-waste, clean-energy future for the nation, the region and beyond."

Mohamed Jameel Al Ramahi, Masdar CEO, said, "Masdar is proud to be partnering with BEEAH, leveraging our more than a decade and a half of experience in the clean energy sector to help pioneer the UAE's first waste-to-energy power plant. With the project's construction phase now complete, we look forward to harnessing our knowledge in the growing waste-to-energy space to help tackle the global climate challenge through sustainable waste management enabled

by clean energy solutions."

Constructed by France-based industrial contractor CNIM, the plant covers an 80,000 sqm area and follows EU Best Available Techniques to align with the strictest environmental standards globally.

Within the plant, unrecyclable waste is fed into a boiler to produce high-pressure steam, turning electric turbine generators. Toxins and pollutants are filtered from the flue gas produced during the process. Bottom ash is collected to recover metals and ash material for use in construction and roadwork applications, while fly ash is collected and treated separately.

Adjacent to the waste-to-energy plant is an award-winning waste-management complex operated by BEEAH Recycling, BEEAH Group's recycling and material recovery business, which



has already helped achieve a 76 percent landfill waste diversion rate in the emirate of Sharjah. Unrecyclable waste from the complex will be transported to the waste-to-energy plant.

Speaking about the impact the plant will have on clean energy in the region, Al Huraimel said, "We are confident that with a successful testing and commissioning period, and once the plant is fully operational, we will also demonstrate how waste-to-energy is an essential innovation to sustaining the circular economy, tackling the challenge of unrecyclable waste, and serving as a more affordable, low-carbon alternative to traditional fossil fuels."

The 30 MW plant will displace almost 450,000 tonnes of CO₂ emissions a year and preserve the equivalent of 45 million m³ of natural gas.

BEEAH and Masdar have begun exploring

opportunities for the Emirates Waste to Energy company to open similar plants across the UAE and the wider region.

"We are aligned with the national and regional sustainability agendas and the United Nations Sustainable Development Goals (UNSDGs) across our businesses, ventures, and partnerships. Our goal is to realise a zero-waste, clean energy future, starting with the UAE, where we are driven by the Net Zero by 2050 strategic initiative. We believe more such waste-to-energy innovations will be critical in achieving this vision and pioneering a sustainable quality of life for all," the BEEAH Group CEO said.

Emirates Waste to Energy, BEEAH and Masdar are planning a ceremony to formally open the Sharjah Waste to Energy plant soon.

'UAE Committed To Achieving Development Goals, Improving People's Lives'

The UAE Government highlighted its commitment to achieving the sustainable development goals (SDG) and improving the lives of members of the community, as part of the country's approach to supporting global development efforts.

During its meeting, the National Committee on Sustainable Development Goals approved the

UAE NEWS



second edition of the UAE's National Voluntary Review Report, a special report that outlines achievements and progress in achieving sustainable development goals.

Reem bint Ibrahim Al Hashemi, Minister of State for International Cooperation and Chairperson of the Committee, highlighted the UAE's international partnerships aimed at helping less fortunate countries, and providing food and medical aid to eliminate hunger and poverty, and ensure adequate health services.

In his speech to the committee's members, Abdullah Nasser Lootah, Director-General of the Prime Minister's Office at the Ministry of Cabinet Affairs and Deputy Chairman of the Committee, said the UAE will continue launching initiatives aimed at helping communities complete the sustainable development goals.

Dr. Mirza Hassan, Executive Director and Dean of the Board of Executive Directors of the World Bank Group, said: "The UAE's efforts in the field of sustainability reflect its government's directives aimed at achieving the SDGs, through launching a range of relevant local and international initiatives."

Hanan Mansour Ahli, Acting Director of the Federal Centre for Competitiveness and Statistics, said the UAE has achieved significant successes in sustainable development, which has been recognised by major international organisations that monitor the country's performance in international competitiveness indexes. She added that the UAE was ranked first globally in 97 indexes relating to sustainable development goals, and among the top ten countries in 268 other indexes.

Future Power And Water Demand To Be Explored At World Utilities Congress

Held under the patronage of H.H. Sheikh Khaled bin Mohamed bin Zayed, Member of Abu Dhabi Executive Council and Chairman of Abu Dhabi Executive Office, the World Utilities Congress is set to take place at the Abu Dhabi National Exhibition Centre (ADNEC), from 9th to 11th May 2022.

The World Utilities Congress, hosted by TAQA,



Government officials, industry leaders and experts set to convene for World Utilities Congress from May 9 – 11 at Abu Dhabi National Exhibition Centre

offers an unrivalled opportunity for the global power and water industry to converge and discuss trends, and explore technologies and innovations influencing future power and water demand. The three-day exhibition and conference will also facilitate direct access to growth opportunities in the UAE and wider MENA region, as well as with the fast-growing economies of Asia.

The World Utilities Congress is set to convene over 10,000 trade professionals and 120 exhibiting companies with the aim of promoting proactive measures to digitalise power and water systems, control emissions, and attract long-term capital investments. The Congress will also bring together over 200 industry expert speakers, over 1000 conference delegates, and host more than 50 strategic and technical conference sessions.

Three-day exhibition and conference to facilitate direct access to growth opportunities in the UAE and wider MENA region, as well as with the fast-growing economies of Asia



The conference sessions are set to focus on the policies, strategies, and solutions necessary to navigate the energy transition, and future-focused digital technologies that will transform the utilities sector. As a response to the evolving market and current customer needs, the conference will explore key topics, including decarbonisation and energy transition; global industry dynamics; collaboration and strategic partnerships; customer-centric business models and digital transformation, and technological innovations.

The Strategic Conference will also feature two Ministerial Sessions, which aim to highlight the importance of policies, regulations and regional cooperation, and the urgent need for government leaders to build a solid foundation for a resilient and sustainable utilities sector.

Prominent speakers at these sessions include

Suhail bin Mohammed Al Mazrouei, Minister of Energy and Infrastructure; Belinda Balluku, Minister of Infrastructure and Energy, Albania; Dorskul Bekmurzaev, Minister of Energy, Kyrgyz Republic, and Daler Juma, Minister of Energy and Water Resources, Tajikistan.

The Technical Conference will cover the entire utilities value chain including power generation, transmission and distribution, water management, water sewage, district cooling, and customer engagement.

The World Utilities Congress 2022 will also feature the 'Nuclear Energy Leadership Forum', which will explore the deployment of safe, reliable nuclear energy generation, technological advancements in nuclear energy, and the latest in research and development of nuclear science and technology.

UAE Is Fast-Tracking Low-Carbon Economic Growth To Deliver New Jobs, New Industries

The UAE is fast-tracking low-carbon economic growth to deliver new jobs, new industries and new revenue streams, according to Dr. Sultan bin Ahmed Al Jaber, Minister of Industry and Advanced Technology and Special Envoy for Climate Change.

Speaking at the Middle East and North Africa Climate Week (MENACW 2022), Dr. Al Jaber

34

CLIMATE ACTION



Dr. Sultan bin Ahmed Al Jaber,
Minister of Industry and
Advanced Technology and
Special Envoy for Climate
Change, highlights UAE's
comprehensive, balanced and
proactive approach to climate
action and the energy
transition

explained that the UAE is adopting a comprehensive, balanced and proactive approach to climate action and the energy transition that delivers sustainable economic growth.

"As a young country, and a responsible energy leader, the UAE has always faced the future with a positive mindset, and addressed challenges head-on. This is why we stopped flaring 30 years before the World Bank asked the industry to do so," Dr. Al Jaber said.

"It's why we achieved 0.01 percent methane intensity 20 years before the global pledge asking for a gradual reduction. It's why we began to capture CO2 on an industrial scale before the UNFCCC (United Nations Framework Convention on Climate Change) called it an essential tool for de-carbonization. And it's why we became the

UAE is the first country in the region to commit to an economy wide reduction in emissions and the first to announce a Net Zero by 2050 Strategic Initiative



first hydrocarbon producer to power our operations with zero-carbon energy," he added.

He pointed out that the UAE was also the first country in the region to sign the Paris Agreement, the first to commit to an economy wide reduction in emissions and the first to announce a Net Zero by 2050 Strategic Initiative. The UAE has chosen to lead in these areas, because it views climate challenges "not just as problems to fix, but as opportunities to seize," according to Dr. Al Jaber.

While the world mobilises investments for a new energy economy and addresses the climate challenge, Dr. Al Jaber emphasised that recent events have "reminded us that we cannot simply switch off the current energy system."

"The push to divest from hydrocarbons has led to a supply crunch that is having the biggest impact on the most exposed. We need to keep investing

in low-cost, low-carbon energy that can provide the baseload power that the world relies on," said Dr. Al Jaber. He reiterated this message during his speech at the Atlantic Council Global Energy Forum held at Expo 2020 Dubai.

On climate finance, he said it can be an effective tool for climate action as he urged the international community to do more and fulfil the \$100 billion climate pledge made to developing nations over a decade ago.

"We have taken a partnership approach to projects in countries most exposed to climate risks, because local resilience builds global resilience. We have provided over \$1 billion in climate aid to more than 40 countries. And our experience tells us that once concessional finance is there, private finance will follow," he said.

Renewables Take Lion's Share of Global Power Additions in 2021

New data released by the International Renewable Energy Agency (IRENA) shows that renewable energy continued to grow and gain momentum despite recent global uncertainties.

By the end of 2021, global renewable generation capacity amounted to 3,064 Gigawatt (GW), increasing the stock of renewable power by 9.1



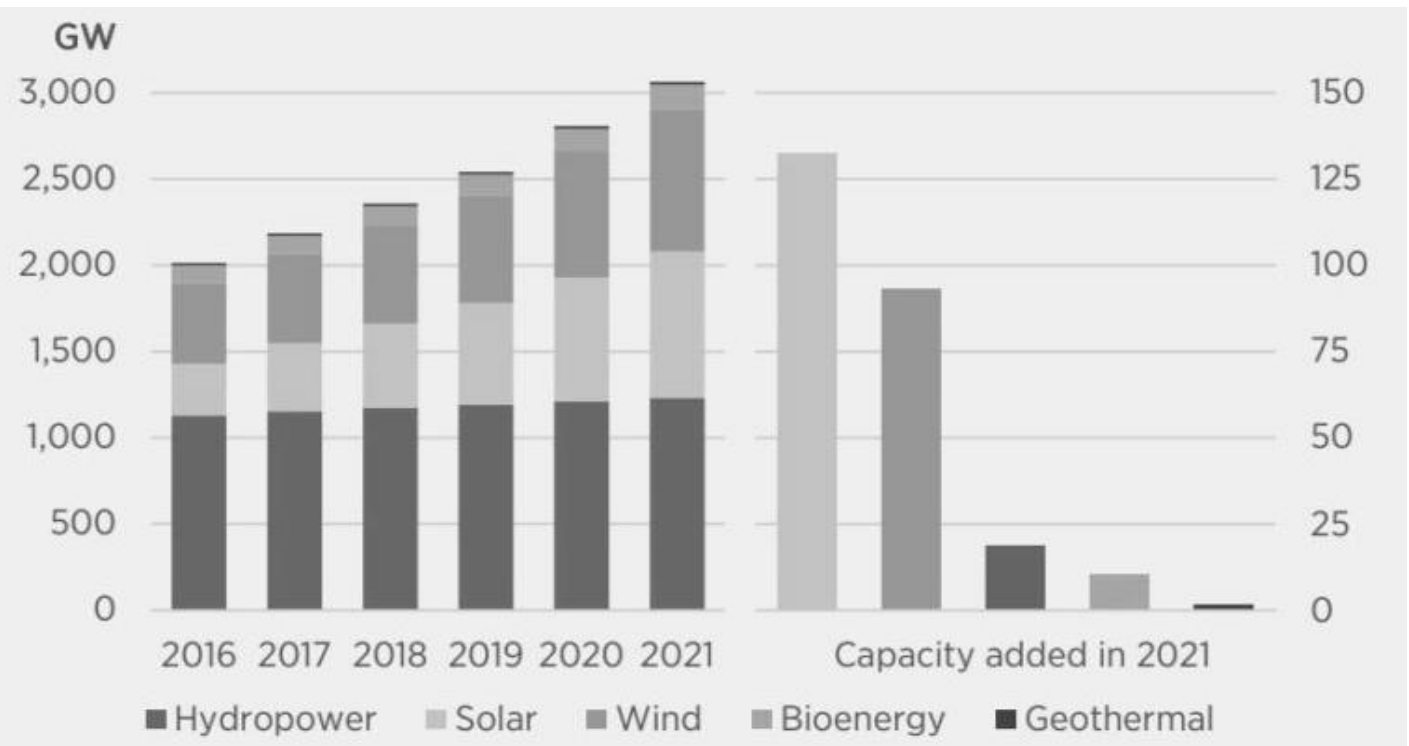
By end of 2021, global renewable generation capacity amounted to 3,064 GW, increasing stock of renewable power by 9.1 percent: IRENA

percent. Although hydropower accounted for the largest share of the global total renewable generation capacity with 1,230 GW, IRENA's Renewable Capacity Statistics 2022 shows that solar and wind continued to dominate new generating capacity. Together, both technologies contributed 88 percent to the share of all new renewable capacity in 2021.

"This continued progress is another testament of renewable energy's resilience. Its strong performance last year represents more opportunities for countries to reap renewables' multiple socio-economic benefits," says IRENA Director-General, Francesco La Camera.

To achieve climate goals, renewables must grow at a faster pace than energy demand. However, many countries have not reached this point yet, despite significantly increasing the use of

IRENA report finds renewables had 80% share of global power capacity expansion in 2021



renewables for electricity generation.

Sixty percent of the new capacity in 2021 was added in Asia, resulting in a total of 1.46 Terawatt (TW) of renewable capacity by 2021. China was the biggest contributor, adding 121 GW to the continent's new capacity. Europe and North America led by the USA took second and third places respectively, with the former adding 39 GW, and the latter 38 GW. Renewable energy capacity grew by 3.9 percent in Africa and 3.3 percent in Central America and the Caribbean. The slower pace of growth indicates the need for stronger international cooperation to optimise electricity markets and drive massive investments in those regions.

Highlights by technology

Hydropower: Growth in hydro increased steadily in 2021 with the commissioning of several large

projects delayed through 2021.

Wind energy: Wind expansion continued at a lower rate in 2021 compared to 2020 (+93 GW compared to +111 GW last year).

Solar energy: With an increase in new capacity in all major world regions in previous years, total global solar capacity has now outgrown wind energy capacity.

Bioenergy: Net capacity expansion increased from 9.1 GW in 2020 to +10.3 GW in 2021.

Geothermal energy: Geothermal capacity had an exceptional growth in 2021, with 1.6 GW added.

Off-grid electricity: Off-grid capacity grew by 466 MW in 2021 to reach 11.2 GW.

The power capacity of Dubai Electricity and Water Authority (DEWA) has marked a 300-fold increase from 43 megawatts (MW) in 1970 to 13,417 MW in 2021.

DEWA Records 300-Fold Increase In Power Capacity Since 1970

Its water production capacity increased from zero to 490 million imperial gallons per day (MIGD). Originally, there were no desalination stations as Dubai only had groundwater wells.

38

ACHIEVEMENT



Dubai Electricity and Water Authority (DEWA) has expanded its clean and renewable energy use and enhanced water security in the UAE over the years

Saeed Mohammed Al Tayer, MD and CEO of DEWA, said that DEWA considers the environment in all stages of its work. Over the years, it has increased its clean and renewable energy use, protected groundwater to ensure the sustainability of resources, and enhanced water security in the UAE and Dubai.

DEWA's total production capacity is now 13,417MW, including 1,527MW of renewable energy using photovoltaic solar panels from the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world using the Independent Power Producer (IPP) model, he said. The Solar Park will have a production capacity of 5,000MW by 2030.

Al Tayer added that the Hassyan Power Complex and the Jebel Ali Power Plant and Water Desalination Complex are key pillars for

DEWA's total production capacity is now 13,417MW, including 1,527MW of renewable energy using photovoltaic solar panels from the Mohammed bin Rashid Al Maktoum Solar Park



supplying Dubai with high-quality electricity and water services. DEWA's water production capacity is now 490 MIGD, including 63 million gallons using Reverse Osmosis, and aims to desalinate all water using a mix of clean energy, renewable energy, and waste heat by 2030.

DEWA uses the latest Fourth Industrial Revolution technologies and disruptive technologies to generate, transmit, and distribute electricity and water. Its results surpass major European and American utilities in several indicators.

In 2021, the electricity network losses in the Emirate was around 3.3% compared to 6-7% in Europe and the US. The water network loss was 5.3% compared to around 15% in North America. DEWA increased fuel efficiency in production units up to 90%, one of the best percentages worldwide. DEWA recorded the lowest Customer

Minutes Lost (CML) in the world at 1.43 CML in 2021, compared to about 15 minutes in leading utilities in the EU.

DEWA provides its services to Dubai residents, who make up to 3.5 million individuals and millions of visitors every year. The number of electricity accounts at DEWA was 1,061,476 accounts by the end of 2021, compared to 752,505 accounts by the end of 2016, an increase of 41%.

There were 960,032 water accounts by the end of 2021 compared to 666,006 accounts by the end of 2016, a 44% increase. There was a total of 2,021,508 electricity and water accounts by the end of 2021. DEWA has made major global achievements including raising fuel efficiency of the generation units to about 90%, which is one of the highest worldwide.

ENOC Group Wins Golden Peacock Award For Sustainability

ENOC Group, has been awarded the coveted Golden Peacock Award for Sustainability for the fifth consecutive year. Among 1000 global applicants, the Group was recognised for its commitment to improving sustainability standards.

Since 2014, ENOC Group has reduced its emission intensity by about 15 percent and



water intensity by about 20 percent in its manufacturing and retail facilities. Additionally, ENOC has also banned single use plastics across its operations to align with the UAE's vision of promoting an inclusive green economy.

The service stations in the energy sector can be sustainable, which the Group has demonstrated through the Service Station of the Future located at the Expo 2020 Dubai site. The innovatively designed Service Station uses multiple sources of energy, from solar to wind turbine as well as traditional hydrocarbon sources.

Saif Humaid Al Falasi, Group Chief Executive Officer of ENOC, said, "As a leading energy player, we understand the importance of incorporating sustainable practices into all of our operations. Our actions fall in line with the objectives of the UAE Government to make Dubai an environment-

friendly city with the least carbon footprint in the world by 2050."

ENOC has set a global, industry-wide benchmark with its sustainability initiatives including its Vapour Recovery System (VRS) at service stations across the UAE. The company also opened several compact fuel stations in Dubai, a new fuelling format offering customers accessible and convenient refuelling services. The compact fuelling station is fully sustainable and has been equipped with solar PV panels and several technologies that contribute to enhancing energy efficiency.

In 2016, ENOC launched the first service stations powered by Photo-Voltaic (PV) solar panels. Today, the Group operates more than 28 service stations in the UAE using solar energy.

DSCE Discusses Waste Management Strategy 2021-2041

H.H. Sheikh Ahmed bin Saeed Al Maktoum, Chairman of the Dubai Supreme Council of Energy chaired the 69th meeting held virtually. Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy, also took part.

The meeting was attended by Ahmed Buti Al Muhairbi, Secretary-General of the Dubai

UAE NEWS



Supreme Council of Energy, and board members Dawood Al Hajiri, Director-General of Dubai Municipality; Juan-Pablo Freile, General Manager of Dubai Petroleum; and representatives from Dubai Petroleum Establishment.

The meeting discussed several topics including the Dubai Integrated Waste Management Strategy 2021-2041 and the implementation phase of the Dubai Executive Council Resolution No. 6 of 2021 regulating the provision of district cooling services in Dubai. The meeting also discussed the conversion of the Hassyan Power Complex from clean coal to natural gas.

"In line with the vision of the Ruler of Dubai to increase the share of clean and renewable energy, the meeting reviewed plans and the road map for the Dubai Integrated Waste Management Strategy (2021-2041). The Strategy encourages

innovation in waste management, recycling, and turning it into energy. It aims to implement long-term projects by presenting practical solutions to environmental challenges," said Al Tayer.

"We also discussed the conversion of the Hassyan power complex from clean coal to natural gas to accelerate Dubai's transition into net-zero carbon emissions economy," Al Tayer added.

"The meeting discussed Dubai Municipality's waste-to-energy project. The waste-to-energy plant will have a great impact in treating organic waste and prevent its burial in traditional landfills. Dubai Municipality intends to achieve its Near-Zero-Waste-to-Landfill goal by 2041. Measures are currently being taken to recycle 50 percent of waste, which will reduce waste treatment and landfill operations," said Al Muhairbi.

Masdar To Develop 4 GW Capacity Green Hydrogen Plants In Egypt By 2030

Masdar, one of the world's leading renewable energy companies, and Hassan Allam Utilities, the investment and development arm of Hassan Allam Holding Group, has announced that they have signed two Memorandums of Understanding with leading Egyptian state-backed organizations to cooperate on the development of green hydrogen production plants in the Suez Canal Economic



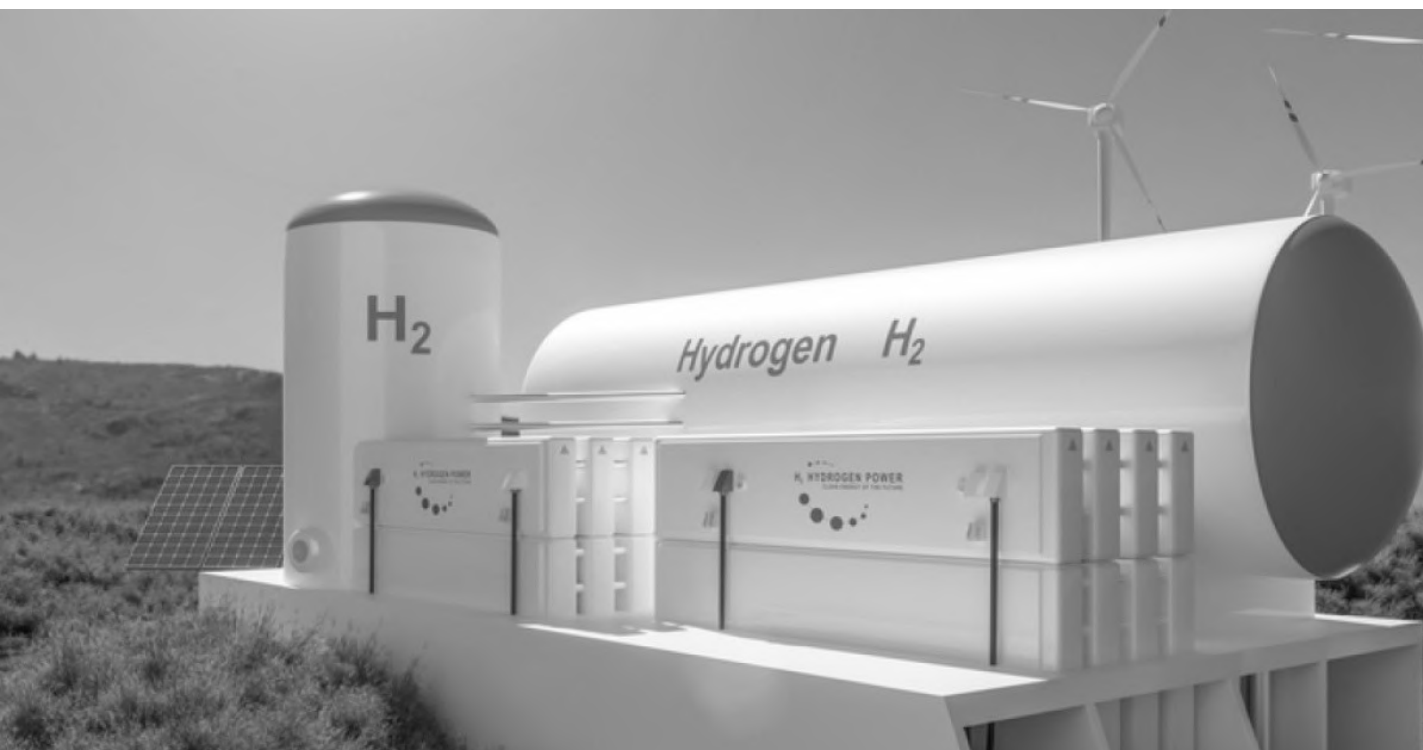
Two MoUs signed in partnership with Hassan Allam Utilities with state-backed organisations in Egypt

Zone and on the Mediterranean coast.

The Memorandums of Understanding were signed in the presence of Mostafa Kamal Madbouly, Prime Minister of the Arab Republic of Egypt, Dr Sultan bin Ahmed Al Jaber, UAE Minister of Industry and Advanced Technology, Special Envoy for Climate Change and Chairman of Masdar, Dr Mohamed Shaker El-Markabi, Minister of Electricity and Renewable Energy for Egypt, and Dr Hala El Said, Minister of Planning and Economic Development and Chairperson of The Sovereign Fund of Egypt.

Mostafa Kamal Madbouly, Prime Minister of Egypt, stressed that the state is working to encourage investment in green energy projects, due to Egypt's potential to become an important pivotal and regional hub in this vital sector, which is expected to transform the global energy

*The Masdar plants will be developed in the
Suez Canal Economic Zone and on the
Mediterranean coast*



system during the upcoming period.

Dr Sultan bin Ahmed Al Jaber, UAE Minister of Industry and Advanced Technology, UAE Special Envoy for Climate Change and Chairman of Masdar, said, "Today's partnership agreements to explore the development of green hydrogen production demonstrates the strength of the close relationship between the UAE and Egypt. These projects will build on the UAE's and Masdar's position as an early mover in the global hydrogen market and expand our capacity to deliver zero carbon energy solutions.

"As our two countries prepare to host the next two COPs, we look forward to working with our partners in Egypt to make practical advances in the energy transition that will provide significant benefits for the economy and the climate."

Dr. Mohamed Shaker El-Markabi, Minister of

Electricity and Renewable Energy in Egypt, confirmed that signing the two MoUs supports Egypt's vision of expanding renewable and clean energy projects. He added that the national strategy for the energy mix is currently under review to include green hydrogen, in preparation for its launch during the coming period.

Dr. Hala El Said, Minister of Planning and Economic Development and Chairperson of The Sovereign Fund of Egypt, stressed that Egypt has abundant solar and wind energy resources that would provide a suitable location for renewable energy projects at a competitive cost. Along with its proximity to global markets that are looking to import green hydrogen, this will allow significant growth for this sector in the future.

Ayman Soliman, Chief Executive Officer of The Sovereign Fund of Egypt, said, "Our green



hydrogen portfolio is growing, taking us another step closer to our target and promise of developing green energy flagship projects under the umbrella of the collaborative effort between Ministry of Electricity, the SCZONE and TSFE. We are excited to work again with Masdar and Hassan Allam. Our joint efforts have established a shared commitment to value creation through innovative sustainable projects. Through these strategic partnerships with world renowned strategic developers, we are transforming Egypt into a regional green energy hub."

Mohamed Jameel Al Ramahi, Chief Executive Officer of Masdar, said, "These agreements represent a vital step forward in the development of the green hydrogen economy for both the UAE and Egypt, and will play a significant role in our two nations' decarbonization efforts. By working with partners such as Hassan Allam Utilities, we

can help the green hydrogen market achieve its full potential over the coming years and play its part in supporting the global energy transition."

Amr Allam, Chief Executive Officer of Hassan Allam Holding, said, "Through this partnership with Masdar we are looking to harness the leading edge of technology to make a difference in Egypt by leveraging the country's abundant sources of green energy.

"In the first phase of the project, we aim to establish a green hydrogen manufacturing facility - operational by 2026, producing 100,000 tonnes of e-methanol annually for bunkering in the Suez Canal," he added. "The electrolyser facilities in the Suez Canal Economic Zone and on the Mediterranean could be extended to up to 4 GW by 2030 to produce 2.3 million tonnes of green ammonia for export as well as supply green

Masdar has invested in a portfolio of renewable energy assets with a combined value of more than US\$20 billion, and a total capacity of more than 15 GW



hydrogen for local industries."

Masdar and Hassan Allam Utilities see Egypt as a hub for green hydrogen production, targeting the bunkering market, export to Europe, and boosting local industry. Egypt enjoys abundant solar and wind resources that allow generation of renewable power at a highly competitive cost – a key enabler for green hydrogen production.

Egypt is also located within close proximity to markets where demand for green hydrogen is expected to grow the most, providing robust opportunity for export.

Driven by green hydrogen's export potential, its ability to attract large-scale foreign direct investment and opportunities to contribute to the Government's efforts to optimize generation costs and increase the share of renewables in the country's energy mix to 42 percent by 2030, the

Ministry of Electricity is currently revising its 2030 renewable energy strategy to include green hydrogen, and is developing a green hydrogen strategy, which is expected to be issued by October 2022.

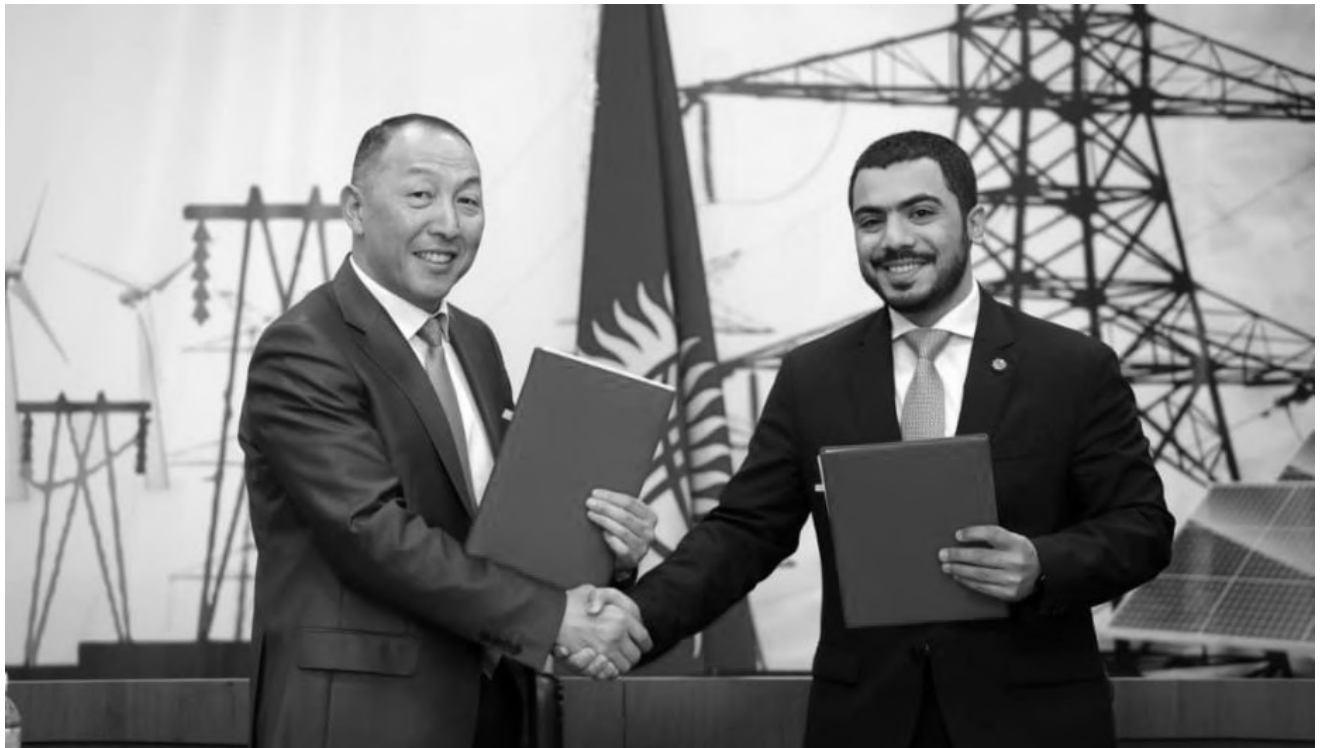
Active in more than 40 countries across the world, Masdar has invested in a portfolio of renewable energy assets with a combined value of more than US\$20 billion, and a total capacity of more than 15 GW.

In December, it was announced that Abu Dhabi National Energy Company PJSC (TAQA), Mubadala Investment Company and Abu Dhabi National Oil Company (ADNOC) will partner under the Masdar brand to create a truly global, clean-energy powerhouse intended to spearhead the drive to net-zero carbon by 2050 while cementing the UAE's leading role in green hydrogen.

UAE, Kyrgyzstan To Explore Renewable Energy Opportunities

Masdar, one of the world's leading renewable energy companies, has signed a Memorandum of Understanding (MoU) with the Kyrgyz Republic's Ministry of Energy to explore the development of renewable energy opportunities in the Central Asian nation and support Kyrgyzstan's clean-energy objectives.

Bekmurzaev Doskul Djumagulovich, Minister of



Energy of the Kyrgyz Republic and Abdulla Zayed, Head of Development and Investment, Central Asia and Russia, at Masdar, signed the MoU in Bishkek, the nation's capital.

Under it, Masdar will explore the development of investment in a range of renewable energy projects, including ground-mounted solar photovoltaic (PV), floating solar PV and hydropower projects, with a potential capacity of up to 1 gigawatt (GW).

"Masdar is ready to support Kyrgyzstan's efforts to diversify its energy sources, cut greenhouse gas emissions and deliver carbon-free development by 2050. Kyrgyzstan has abundant potential to develop a wider range of clean energy resources, which will deliver greater energy security and support better management of water resources," said Abdulla Zayed.

"Masdar has been a catalyst for energy transition in more than 40 countries around the world, and we look forward to leveraging our extensive experience in both ground-mounted PV and floating solar PV projects to drive sustainable development in Kyrgyzstan," he added.

Kyrgyzstan is targeting reducing greenhouse gas emissions by as much as 44 percent by 2030, and achieving carbon neutrality by 2050.

While the country already generates around 90 percent of its electricity from clean energy resources, this is almost exclusively from aging hydropower plants. By tapping the country's high irradiation levels, Kyrgyzstan could enhance energy security while also managing its water resource levels, which are being diminished by climate change.

Ban On Single-Use Plastic Bags In Abu Dhabi From June 2022

The Environment Agency – Abu Dhabi (EAD) has announced that its ban on the use of single-use plastic bags will be effective from June 2022, based on its integrated single-use plastic policy that was introduced in 2020.

EAD plans to gradually reduce the amount of single-use plastic products consumed across Abu Dhabi, and encourage the use of reusable



products. In this context, it is planning to implement measures to reduce demand for about 16 single-use plastic products that include cups, stirrers, lids and cutlery.

Additionally, EAD is also heading towards phasing out single-use styrofoam cups, plates and food containers by 2024.

Since the launch of the policy in March 2020, the Agency has coordinated extensively with its strategic partners concerned with implementing the policy, especially plastics producers and retailers, to ensure effective implementation, as new technical standards for multi-use bags have been set. In support of this drive, a large-scale awareness campaign will be carried out across the emirate to educate the public on the new procedures, helping to activate the ban on single-use plastic bags from June.

Dr. Shaikha Salem Al Dhaheri, Secretary-General of EAD, said, "We are encouraging Abu Dhabi citizens to use more multipurpose and re-usable materials to reduce their environmental footprint."

Under the single-use plastic policy, EAD has organised clean up events and awareness campaigns encouraging community members to play a role in protecting the environment while educating people on the damage done by single-use plastics and their impact on marine habitats.

The Agency has re-engineered its internal procedures to implement the policy and reduce the use of single-use plastics within its scope. Many restaurants are also launching initiatives to reduce the consumption of single-use plastics, and some major retailers are encouraging shoppers to use reusable shopping bags.

dnata, a leading global air and travel services provider, has installed a 3.5 megawatt-peak rooftop solar power system across its operations, including its cargo and catering facilities, at Changi Airport (SIN).

dnata Invests In Solar Energy At Changi Airport

This comes as part of its continuous efforts to invest in infrastructure and equipment to further improve resource efficiency globally.



Rooftop power plant to
reduce air services provider's
electricity-related carbon
emissions by 20 percent in
Singapore

The rooftop power plant comprises of over 6,500 individual solar panels and will generate more than 4,300 megawatt hours of green power a year, enabling dnata to reduce its electricity-related carbon emissions by 20 percent annually in Singapore.

David Barker, dnata's Divisional Senior Vice President for Airport Operations, said, "The inauguration of the solar power system in Singapore marks a significant milestone in our efforts to make dnata's operations even more sustainable and reduce our carbon footprint by 20 percent in the next two years globally."

In recent years, dnata has significantly invested in infrastructure, equipment and process improvement to further improve operational efficiency with a strategic objective of reducing its carbon footprint globally by 20 percent by

The rooftop power plant comprises of over 6,500 individual solar panels and will generate more than 4,300-megawatt-hours of green power a year



2024. dnata replaced and refurbished ground support equipment at airports to decrease engine emissions, and invested in facilities that incorporate the latest carbon reduction initiatives in design and operation.

In Singapore, dnata took initiatives to reduce food waste across its catering operations and replaced a number of its ground support equipment (GSE) and forklifts with hybrid or electric alternatives, while refurbishing selected GSE where appropriate to extend life cycles, reduce waste and update them to the latest safety and quality standards. Most recently, dnata has added 44 electric baggage tractors to its GSE fleet at Changi Airport.

Etihad Airways conducts intensive flight tests to reduce carbon emissions

Etihad Airways, the national carrier of the United

Arab Emirates, undertook a week of intensive research and testing on over 30 flights to test operational efficiencies, technology and procedures that will reduce carbon emissions, in an expansion of its ongoing sustainability flight testing programme.

The week-long programme held in April included over 20 commercial flights operating across Etihad's network to test contrail avoidance technologies, in partnership with SATAVIA, a UK-based green aerospace company.

The airline also operated up to 13 dedicated 'EcoFlights', testing a range of flight and engine optimisation initiatives. Each of these flight tests were conducted on Etihad's fleet of fuel-efficient A350 and 787 aircraft, spearheaded by the 'Etihad Greenliner', and Etihad's newest aircraft, the 'Sustainable 50'.

MOCCAЕ Hosts First Conference Of UAE Climate Change Research Network

On the sidelines of the MENA Climate Week, hosted by the UAE for the first time in the region, the Ministry of Climate Change and Environment (MOCCAЕ) organised the first conference of the UAE Climate Change Research Network (CCRN).

The event drew the participation of climate scientists, researchers, and academics, as well



Climate scientists,
researchers, and academics,
as well as representatives of
government and private
sector entities participate in
conference

as representatives of government and private sector entities related to the environment and climate action.

The gathering served as a platform for scientific and academic entities and researchers to enhance their cooperation in dealing with climate change challenges. The objectives of the conference involved raising awareness about the latest research on the impacts of climate change as well as regional and global climate action, boosting capacity-building, and fostering relations between Network members, strategic partners, and youth.

Aisha Al Abdooli, Acting Assistant Undersecretary for the Climate Change Sector at MOCCAЕ, said, "In recent years, the concept of mainstreaming climate-based projects and the pursuit of innovative and ambitious solutions

The gathering served as a platform for scientific and academic entities and researchers to enhance their cooperation in dealing with climate change challenges



has emerged as a strategic priority for the scientific community. This is further evident in the growing need for change, as reflected in the recent UN Intergovernmental Panel on Climate Change (IPCC) reports that highlight the critical nature of our climate situation. It has become increasingly clear that we need to take action immediately, and the best way forward would be to start at the top."

Al Abdooli noted that the conference aimed to enhance cooperation and interaction between climate researchers and other stakeholders.

It also enabled them to discuss the most important studies that enhance the understanding of climate change issues, causes, solutions, and adaptation measures, as well as scientific innovations that have the potential to help address the issue.

Over two days, the conference featured more than 20 specialised sessions. Themes on the first day included climate data and modeling, climate change and terrestrial, marine, and freshwater ecosystems, climate change and food and water security, and climate change and public health.

Meanwhile, the second day focused on climate change and infrastructure, in addition to a panel discussion on climate change and public health.

MOCCA launched CCRN in January 2021 with the aim of improving climate data collection, conducting research on the status of climate change in the Arabian Gulf region, raising public awareness about climate change in the UAE and its impacts on all sectors, and informing sectoral adaptation plans. The entity's work builds on three decades of climate action in the country.

Dubai Adopts Smart Grid Strategy To Keep Pace With Rapid Changes

Dubai Electricity and Water Authority (DEWA) is implementing its updated Smart Grid Strategy 2021-2035, which features a high standard of resilience and agility that keeps pace with development and rapid changes to ensure the continuity of the organisation's excellence and global leadership.

Saeed Mohammed Al Tayer, MD and CEO of



Dubai Electricity and Water Authority in the UAE launches smart grid strategy with investments of more than \$1.9 billion

DEWA, praised the team's efforts, which resulted in delivering the short-term goals of DEWA's Smart Grid Strategy.

A Smart Grid provides advanced features that include interoperability across the entire electricity and water network. DEWA aims to develop state-of-the-art infrastructure for managing facilities and services using disruptive technologies and Fourth Industrial Revolution applications.

Waleed bin Salman, Executive Vice President of Business Development and Excellence at DEWA, said that the Smart Grid Strategy includes six main themes: Foundational Capabilities; Grid Automation; Smart Energy Solutions and Green Mobility; Smart Water; Smart Grid Artificial Intelligence; and Innovative Value-Added Services.

A Smart Grid provides advanced features that include interoperability across the entire electricity and water network



The Smart Grid Strategy themes comprise 19 smart grid capabilities. These capabilities are aligned with DEWA's strategic objectives. These global pioneering capabilities have enabled the updated DEWA Smart Grid Strategy until 2035.

To achieve the short-term goals of its Smart Grid Strategy 2014-2035, DEWA replaced electricity and water meters with smart meters between 2015 and 2020. More than two million meters are automatically read, with consumption patterns provided to customers to help them effectively manage their electricity and water usage.

Between 2015 and 2017, DEWA fully automated its transmission network connected to the 400kV and 132 kV substations. In 2017, DEWA deployed its multi-application RF Mesh network across Dubai. Since then, it has expanded to provide communication to over 4,200 distribution substations.

Three water-interconnection projects increase UAE's water security

Dubai Electricity and Water Authority (DEWA) and Abu Dhabi Transmission and Despatch Company (TRANSCO), a subsidiary of Abu Dhabi National Energy Company (TAQA Group), will install three interconnections that can transfer 117 MIGD to different areas in Abu Dhabi and Dubai, supporting reliable water supplies to customers across the nation.

Saeed Mohammed Al Tayer, MD and CEO of DEWA, said that this partnership increases the reliability and efficiency of the water network to meet the UAE Water Security Strategy 2036 objective to ensure sustainable access to water during both normal and emergency conditions. It will also raise the efficiency and operational capacity of water networks in the UAE.

Dulscos Commissions First-In-Region Refuse Derived Fuel Plant

Dulscos, an integrated solutions provider and the Official Waste Management Partner of Expo 2020 Dubai, continues to drive environmental sustainability with the successful introduction of its Refuse Derived Fuel (RDF) plant, currently located within the Expo 2020 Dubai premises.

The waste-to-energy plant has the capacity to



process more than 70,000 tonnes of waste per annum – which is the equivalent of 7,000 garbage trucks diverted away from landfill.

The RDF plant has an innovative processing methodology that treats waste to produce a refuse derived fuel product. The plant is the first-of-its-kind in the region. The waste is pre-treated before being processed and the output product conveniently serves as a fuel feed to power the plant itself or is used by cement and other factories as an environmentally friendly and more sustainable alternative to natural gas.

The RDF Plant underpins the company's commitment to sustainability and supports its drive toward achieving a circular economy with an effective long-term solution for waste management in the region in line with the UAE's Circular Economy Policy 2021-2031.

David Stockton, CEO, of Dulscos, said, "The waste to fuel plant is an important addition to our collection of waste treatment facilities, as treating waste is an integral part of a sustainable waste management process."

"Our aim is always to find solutions to make the communities that we serve more efficient, productive and sustainable.

"We will continue to invest heavily in technology and innovation, as we remain committed to supporting the UAE's drive for sustainability and the country's mission to achieve a circular economy," Stockton added.

Factories and businesses across the UAE can now access the waste recycling services from Dulscos and contribute to a greener, more sustainable economy.

UAE's AMEA Power To Build Two Solar Power Projects In Morocco

The Moroccan Agency for Sustainable Energy (Masen) and the Ministry of Energy Transition and Sustainable Development have officially announced that the UAE-based AMEA Power has been awarded two solar power plant projects of 36MW each, following an international tender.

The solar projects were part of a large

UAE NEWS



international tender launched by Masen and the Ministry of Energy Transition and Sustainable Development in February 2021 to construct the first phase of the Noor PV II programme, a multi-site solar energy programme with a total capacity of 330MW.

AMEA Power was awarded two solar sites, located respectively in Taroudant, in the Souss-Massa region and in El Hajeb, in the Fès-Meknès region.

Following the announcement, AMEA Power's Chairman, Hussain Al Nowais, said, "Being awarded a total capacity of 72MW in Morocco is another great milestone for AMEA Power. Morocco is a significant market for us, as it has established itself as a regional leader in clean energy pushing forward large-scale renewable energy projects.

"The Noor PV II programme supports Morocco's target to increase its renewables share to 52 percent by 2030. We look forward to supporting the country in achieving its objective and diversifying its energy mix."

AMEA Power is currently producing about 2,000 megawatts (MW) of clean energy through solar and wind energy plants in 15 countries, while it plans to raise its output of clean energy to 5,000 MW within the next three years.



Sand Crisis Looms Amid Population Rise, Warns UN

All countries should be aware that their development is at stake unless they take better care of a common but precious resource, found on many of the world's beaches, and in our seas, the UN Environment Programme (UNEP) said in a new report launched recently.

50 billion tons: enough to build a wall 27 metres wide and 27 metres high around planet Earth.



As global sand use hits 50 billion tonnes a year, strategic recognition for sand and actions across sectors needed

This is the volume of sand and gravel used each year, making it the second most used resource worldwide after water. Given our dependency on it, sand must be recognised as a strategic resource and its extraction and use needs to be rethought, finds the new UNEP report.

Sand and Sustainability: 10 Strategic Recommendations to Avert a Crisis provides the necessary guidance gathered from world experts to switch to improved practices for the resource's extraction and management.

Extracting sand where it plays an active role, such as rivers, and coastal or marine ecosystems, can lead to erosion, salination of aquifers, loss of protection against storm surges and impacts on biodiversity, which pose a threat to livelihoods through, among other things, water supply, food production, fisheries, or to the tourism industry.

Sand is the world's second most exploited resource and must be wisely managed



According to the report's authors, sand must be recognised as a strategic resource, not only as a material for construction, but also for its multiple roles in the environment. They stress that governments, industries and consumers should price sand in a way that recognises its true social and environmental value.

For example, keeping sand on coasts may be the most cost-effective strategy for adapting to climate change due to how it protects against storm surges and impacts from sea level rise - such services should be factored into its value.

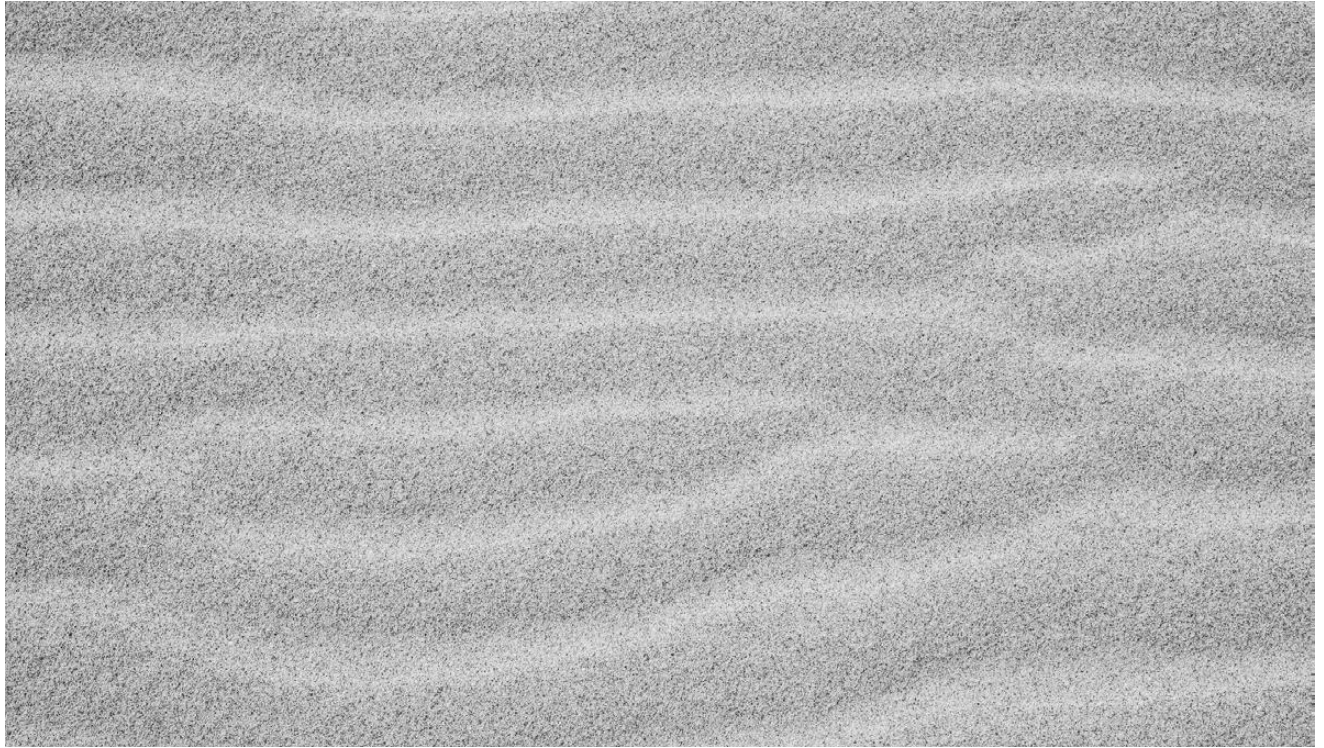
An international standard on how sand is extracted from the marine environment should also be developed, the report proposes. This could bring about dramatic improvements as most marine dredging is done through public tenders open to international companies.

Meanwhile, the report recommends that the extraction of sand from beaches be banned due to its importance for coastal resilience, the environment and the economy.

"To achieve sustainable development, we need to drastically change the way we produce, build and consume products, infrastructures and services. Our sand resources are not infinite, and we need to use them wisely. If we can get a grip on how to manage the most extracted solid material in the world, we can avert a crisis and move toward a circular economy," said Pascal Peduzzi, Director of GRID-Geneva at UNEP and overall programme coordinator for this report.

Infrastructure, homes, food and nature at stake

Sand is critical to economic development, needed to produce concrete and build vital infrastructure



ranging from homes and roads to hospitals. By providing habitats and breeding grounds for diverse flora and fauna, sand also plays a vital function in supporting biodiversity, including marine plants that act as carbon sinks or filter water.

The resource will be crucial to achieving the Sustainable Development Goals and tackling the triple planetary crisis of climate change, pollution and biodiversity loss. However, it is being used faster than it can be naturally replenished, so its responsible management is crucial.

A circular economy is within reach

The authors note that solutions exist for moving towards a circular economy for sand, including banning the landfilling of mineral waste and encouraging sand to be reused in public procurement contracts are among the policy

measures cited.

Crushed rock or recycled construction and demolition material, as well as 'ore-sand' from mine tailings are among the viable alternatives to sand that should also be incentivised, the report details.

They add that new institutional and legal structures are needed for sand to be more effectively governed and best practices shared and implemented. Sand resources must furthermore be mapped, monitored and reported on, the report recommends.

Meanwhile, all stakeholders must be involved in decisions related to the management of sand to allow for place-based approaches and avoid one-size-fits-all solutions, the paper stresses.

The Earth Is Facing A 'Triple Planetary Crisis': UN

The Earth is facing a 'triple planetary crisis': climate disruption, nature and biodiversity loss, and pollution and waste, the UN warns.

"This triple crisis is threatening the well-being and survival of millions of people around the world. The building blocks of happy, healthy lives – clean water, fresh air, a stable and predictable climate – are in disarray, putting the Sustainable

CLIMATE CHANGE



Development Goals in jeopardy," the UN Secretary-General said in a video message to mark International Mother Earth Day 2022 on April 22.

The good news is that there is still hope, António Guterres stressed, reminding us that 50 years ago, the world came together in Stockholm for the pivotal UN Conference on the Human Environment, which kickstarted a global movement.

"Since then, we have seen what is possible when we act as one. We have shrunk the ozone hole. We have expanded protections for wildlife and ecosystems. We have ended the use of leaded fuel, preventing millions of premature deaths. And just last month, we launched a landmark global effort to prevent and end plastic pollution."

"International Mother Earth Day is a chance to

reflect on how humanity has been treating our planet, and let's face it: we've been poor custodians. And while a steady stream of reports has painted a legitimately worrying picture of the current state of the planet, don't lose hope: there are more innovative ideas for serious climate action than ever and more and more people around the world are working together on solutions to help repair the damage that's been done to our fragile home."

The positive developments have not stopped there, the recently recognized right to a healthy environment is gaining traction and young people are more engaged than ever in the combat to take on our planetary threats, he added.

"We have proven that together, we can tackle monumental challenges," Guterres said.

NISTUSA

DORTGUH
VERCCCEI

SAERFMR

DSGEARN

MICATEL
IGONFODL
PTRETOC

Answers: 1) RECYCLE, 2) GARDENZ, 3) FLOODING, 4) DROUGHT, 5) FARMERS, 6) CLIMATE, 7) SUSTAIN, 8) PROTECT

Word
Search

E	E	L	B	A	N	I	A	T	S	U	S	R	M
G	R	E	E	N	E	R	Y	V	F	L	V	N	D
F	A	B	F	L	F	R	E	D	U	C	E	N	L
M	S	I	N	A	G	E	V	A	T	P	P	L	R
L	L	M	E	S	E	A	A	T	O	L	T	G	V
O	N	A	A	O	E	L	G	A	A	A	R	A	L
E	N	R	U	P	B	T	E	L	L	N	G	R	F
E	R	W	A	S	T	E	E	F	T	E	R	A	M
E	A	S	S	I	A	N	P	R	A	T	E	T	E
C	R	E	P	D	D	A	I	N	E	U	D	G	O
L	O	I	R	N	F	O	R	E	S	T	N	S	I
L	L	D	P	R	E	S	E	R	V	E	R	A	A
E	F	R	L	N	S	R	O	L	R	F	E	E	T
R	E	I	R	V	I	L	A	N	D	F	I	L	L

LANDFILL

DISPOSAL

PRESERVE

GREENERY

REDUCE

VEGANISH

FAUNA

WASTE

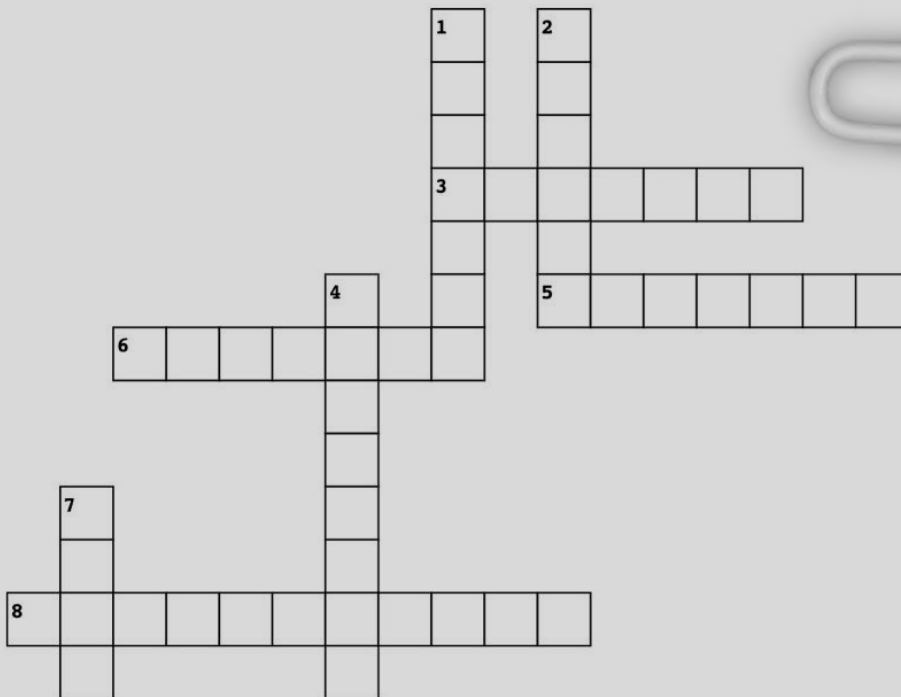
FOREST

PLANET

FLORA

SUSTAINABLE

Crossword Puzzle



Across

3. Rainy season
5. A circle dividing a sphere or other surface into two usually equal and symmetrical parts
6. Imparting heat
8. The somatic sensation of cold or heat

Down

1. Agriculture considered as an occupation or way of life
2. Become different
4. Disposing of garbage
7. A substance that can be consumed to produce energy

Answers: 1) Farming 2) Change 3) Monsoon 4) Disposal 5) Equator 6) Warming 7) Fuel 8) Temperature

WORD OF THE DAY:

FARMING

A farm is a piece of land used to grow crops and/or raise animals for produce. People who grow this produce are called “farmers”, and their work is called “farming”. Farms come in all shapes and sizes, with some being very large and others very small.

Intensive vs Organic Farming

Intensive farming (of both crops and animals) refers to farming which has higher levels of input so as to maximise on output. Conversely, organic farming keeps the environment at the forefront of production. Crops and animals are grown and raised without the use of synthetic fertilisers and pesticides for the former, and antibiotics for the latter.

Intensive Farming:

Both types of farming have their pros and cons. Whilst intensive farming is useful for generating mass produce to keep up with the growing population, the means of production are damaging to the environment, and, in some instances, health. In intensive farming, many chemicals are used in the supply chain, such as pesticides and synthetic fertilisers in the soil for crops and animal feed.

Animals reared in intensive farming environments (such as battery farms) live in cramped conditions, which can leave them disease-ridden. This means they are often given antibiotics, which then enter the food chain.

Organic Farming:

Organic farming avoids the use of chemicals in the supply chain as much as possible, and does not use any Genetic Modification (GM) (where the DNA of a living thing (plant or animal) is modified to introduce a desirable trait). However, organic farming is often more expensive, for both the farmer and the consumer, due to the extra diligence and care that is taken to uphold food sustainability.

That said, organic farming contributes to a greener planet, which is becoming ever more important in a world increasingly affected by climate change!



WORLD MIGRATORY BIRD DAY - MAY 14

World Migratory Bird Day (WMBD) is an annual awareness-raising campaign highlighting the need for the conservation of migratory birds and their habitats. It has a global outreach and is an effective tool to help raise global awareness of the threats faced by migratory birds, their ecological importance, and the need for international cooperation to conserve them.

Light pollution and its impact on migratory birds is the focus of WMBD 2022 and activities to mark the day will be held globally under the theme “Dim the Lights for Birds at Night”.

WORLD BEE DAY - MAY 20

The purpose of this international day is to acknowledge the role of bees and other pollinators for the ecosystem. This day provides an opportunity to promote actions that will protect and enhance pollinators and their habitats, improve their abundance and diversity, and support the sustainable development of beekeeping.

Pollinators allow many plants, including many food crops, to reproduce. A world without pollinators would equal a world without food diversity. They also serve as sentinels for

emergent environmental risks, signaling the health of local ecosystems. Pollination is therefore a keystone process, in both human managed and natural terrestrial ecosystems.

INTERNATIONAL DAY FOR BIOLOGICAL DIVERSITY - MAY 22

Under the theme, “Building a shared future for all life”, this year’s observance highlights that biodiversity is the answer to several sustainable development challenges. The slogan conveys the message that biodiversity is the foundation upon which we can build back better.

Biological diversity is often understood in terms of the wide variety of plants, animals and microorganisms, but it also includes genetic differences within each species — for example, between varieties of crops and breeds of livestock — and the variety of ecosystems (lakes, forest, deserts, agricultural landscapes) that host multiple kind of interactions among their members (humans, plants, animals). Biological diversity resources are the pillars upon which we build civilizations.

Facts about Biodiversity:

- Current negative trends in biodiversity and ecosystems will undermine progress towards %80 of the assessed targets of 8 Sustainable Development Goals.
- Three-quarters of the land-based environment and about %66 of the marine environment have been significantly altered by human actions.
- 1 million animal and plant species are now threatened with extinction.

WORLD TURTLE DAY - MAY 23

This day was created as a yearly observance to help people celebrate and protect turtles and tortoises and their disappearing habitats around the world. The annual event aims to educate people about the things that they can do to protect the habitats of turtle and tortoises.

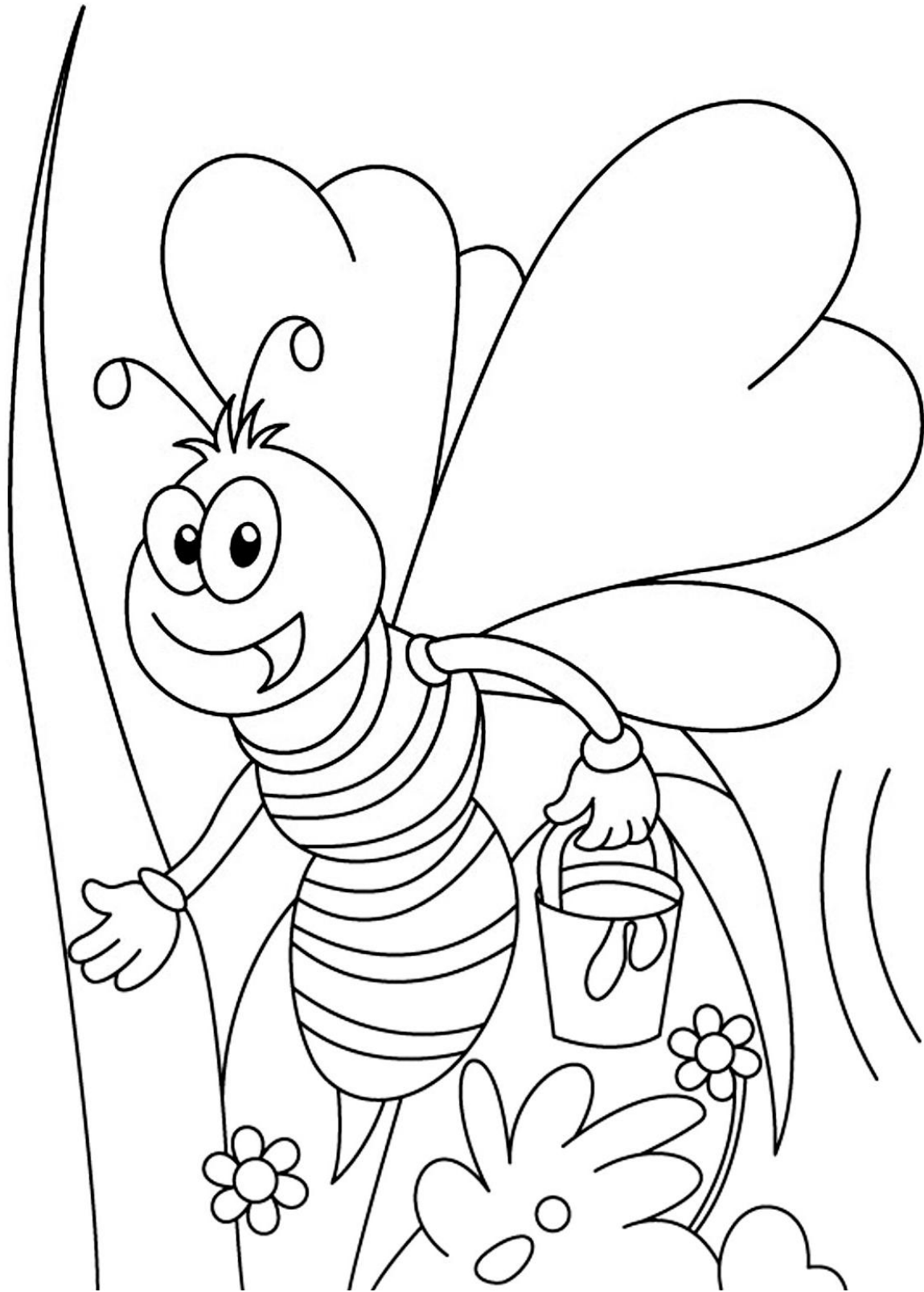


What can you do to help?

Things to Do...

- ☒ Reuse both sides of a sheet of paper _ _ _ _ _
- ☒ Carry a water bottle _ _ _ _ _
- ☒ Cycle around! _ _ _ _ _
- ☒ Use public transport _ _ _ _ _
- ☒ Do not waste food _ _ _ _ _

COLOUR ME!



David Attenborough Receives The UN's Most Distinguished Environment Award

Sir David Attenborough has been announced as the recipient of the Champions of the Earth Lifetime Achievement Award for his dedication to research, documentation, and advocacy for the protection of nature and its restoration.

"Sir David Attenborough has devoted his life to documenting the love story between humans

AWARD



and nature, and broadcasting it to the world. If we stand a chance of averting climate and biodiversity breakdowns and cleaning up polluted ecosystems, it's because millions of us fell in love with the planet that he showed us on television," said Inger Andersen, Executive Director of UN Environment Programme (UNEP). "Sir David's work will continue to inspire people of all ages to care for nature and to become the restoration generation."

Attenborough's career as a broadcaster, natural historian, author, and environmental advocate spans over seven decades. He is most famous for his work with the BBC's Natural History Unit, including documentaries such as *Life on Earth*, *the Living Planet*, *Our Planet* and *Our Blue Planet*. In addition, his advocacy to preserve and restore biodiversity, transition to renewable energy, mitigate climate change and promote plant-rich

diets contribute to the realization of many of the Sustainable Development Goals (SDGs).

"The world has to get together. These problems cannot be solved by one nation – no matter how big that single nation is. We know what the problems are and we know how to solve them. All we lack is unified action," Attenborough said upon receiving the Lifetime Achievement Award. "Fifty years ago, whales were on the very edge of extinction worldwide. Then people got together and now there are more whales in the sea than any living human being has ever seen. If we act together, we can solve these problems."

Previous laureates include environmental justice advocate Robert Bullard, environment and indigenous rights defender Joan Carling and plant biologist José Sarukhán Kermez.

In Memoriam

We join the UAE leaders and citizens in mourning the death of the late President Sheikh Khalifa bin Zayed Al Nahyan who passed away on Friday, May 13, 2022, leaving behind a rich environmental legacy that has inspired leaders in most Arab countries.

Sheikh Khalifa's initiative aimed at the development and spread of date palms in the UAE, Arab countries and around the world, has inspired researchers and agricultural developers to scale up their ambitious plans to expand date palm farming for both dates production and as green belts to fight desertification. This initiative follows in the footsteps of his father, the late Founding President,



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

Sheikh Zayed Bin Sultan Al Nahyan, who said: "Give me Agriculture and I will give you Civilization".

The number of researchers and growers who have won the Khalifa International Date Palm Award and Agricultural Innovation till date has encompassed 88 people from different countries of the world. The award has enhanced and encouraged agricultural innovation and research of date palm and the spread of this knowledge worldwide. Today, there is greater awareness about date palms as a tree that has a host of multiple uses, apart from being a staple food and medicinal item for desert populations. Dates palms are used as building material and in the making of mats, baskets, and ropes. Prioritising the date industry is a key legacy of the late UAE President.

Sheikh Khalifa was also a keen conservationist. In addition to the numerous environment-related projects undertaken during his leadership as President and the leaps made in the fields of clean energy, he also established a sanctuary for both terrestrial and marine wildlife in his private island of Abul-Abyad. The island is now a great sanctuary for migratory birds and marine mammals and houses a range of wild animals from different parts of the world.

May Allah honor him and grant him peace!

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

يَا أَيُّهَا النَّفْسُ الْمُنْتَهِيَّةُ بِمَا تَبَيَّنَ فِيكَ مِنْ رَبِّكَ وَرَبِّ الْعَالَمِينَ
يَا أَيُّهَا النَّفْسُ الْمُنْتَهِيَّةُ بِمَا تَبَيَّنَ فِيكَ مِنْ رَبِّكَ وَرَبِّ الْعَالَمِينَ



With our belief in God's will and with deep sorrow & sadness

We offer our sincere condolences to

The wise leadership of the UAE

And the Emirati people & to Arab and Muslim nations around the world

On the passing of

Sheikh Khalifa bin Zayed Al Nahyan

May he rest in eternal peace

"Verily to God we belong and verily to him we shall return"

إِنَّا لِلَّهِ وَإِنَّا إِلَيْهِ رَاجِعُونَ



ABUMOUSA
MOTORS FZCO

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

يَا أَيُّهَا النَّفْسُ الْمُنْتَهَى بِكَ صَبْرٌ وَجَاهِدٌ وَعَبَادَةٌ وَاجْتِهَادٌ
يَا أَيُّهَا النَّفْسُ الْمُنْتَهَى بِكَ صَبْرٌ وَجَاهِدٌ وَعَبَادَةٌ وَاجْتِهَادٌ



With our belief in God's will and with deep sorrow & sadness
We offer our sincere condolences to

The wise leadership of the UAE

And the Emirati people & to Arab and Muslim nation around the world

On the passing of
Sheikh Khalifa bin Zayed Al Nahyan

May he rest in eternal peace

“Verily to God we belong and verily to him we shall return”

إِنَّا لِلَّهِ وَإِنَّا إِلَيْهِ رَاجِعُونَ