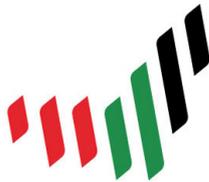




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DEWA & WGEO organise the 8th World Green Economy Summit on 28 & 29 September



الإمارات
THE EMIRATES



The Dubai International Financial Centre (DIFC) announced the launch of the first Global Family Business and Private Wealth Centre (Centre) in the region and worldwide.

DIFC is the first financial centre in the world to create a unique offering at a time when an estimated AED3.67 trillion (\$1 trillion) in assets will be transferred to the next generation in the Middle East during the next decade. [Read more on Page 5.](#)



Under the patronage of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, Dubai Electricity and Water Authority (DEWA) and the World Green Economy Organization (WGEO) are organising the 8th World Green Economy Summit (WGES) on 28 and 29 September 2022 at the Dubai World Trade Centre. The WGES will be held in conjunction with the 24th Water, Energy, Technology and Environment Exhibition (WETEX) and Dubai Solar Show (DSS), organised by DEWA from 27 to 29 September 2022.

The WGES annually attracts several local and international VIPs, including heads of state and government leaders, in addition to a large number of international speakers, officials, representatives of government institutions, media representatives, experts and academics.

HE Saeed Mohammed Al Tayer, Vice Chairman of the Dubai Supreme Council of Energy, MD & CEO of DEWA and

Chairman of the World Green Economy Summit, noted that the WGES represents the UAE and Dubai's efforts to strengthen regional and international cooperation, achieve climate neutrality and accelerate the transition to a green economy. This aims to ensure economic growth, and sustainability of natural and environmental resources.

This WGES aims to create an effective change and find out the means to fulfill the climate change commitment, in line with the outcomes of the 26th Conference of the Parties (COP26). It also paves the way to the 27th Conference of the Parties (COP27) in Egypt and the 28th Conference of the Parties (COP28) that the UAE will host at Expo City Dubai in 2023. WGES reflects the UAE's effective and influential role in achieving sustainable, low-carbon economic growth and ensuring a better future for humanity.

"The WGES is a global platform that aims to promote partnerships, exchange experiences between decision-makers and



➤ support collaboration among regional and international organisations from the public and private sectors. It provides a platform for experts and academics to discuss the latest plans and policies, shed lights on the progress that the climate neutral initiatives have achieved, promote dialogue to implement the national defined contributions of climate action, enhance the collaboration between government and private organisations to achieve the major KPIs. WGES is one of the most important initiatives of the

UAE in general and Dubai in particular, to support the international community efforts towards sustainable green growth that meets current and future needs,” added Al Tayer.

The 7th WGES was held at the Expo 2020 Dubai, under the theme ‘Galvanising Action for a Sustainable Recovery’. WGES comprised high-level panel sessions and seminars on developing innovative sustainable solutions and promoting innovation to support sustainable development.

This is through four main pillars: Youth; Innovation and Smart Technology; Green Economy Policies; and Green Finance. The Dubai Declaration 2021 underlined that the climate crisis constitutes an urgent global threat whose effects extend beyond the environmental agenda to include economic, social and environmental challenges.

<https://mediaoffice.ae/en/news/2022/July/27-06/DEWA-and-WGEO-organise>

DEWA’S R&D Centre invest in AI & machine learning to improve efficiency, reduce costs and carbon emissions

Dubai Electricity and Water Authority (DEWA)’s R&D Centre employs Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DL) to promote DEWA’s efforts to enrich the experience of customers, employees, and stakeholders. This also aims to reduce costs and carbon emissions in addition to promoting energy efficiency, smart grid integration and improving the performance of photovoltaic solar panels.

“At DEWA, we work in accordance with the directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to use AI to improve services and achieve the UAE Artificial Intelligence Strategy 2031, and enhance the UAE and Dubai’s position as a global hub for the Fourth Industrial Revolution technologies and disruptive technologies. DEWA started its AI journey in 2017 with a road map for AI applications. We launched several services and initiatives that use AI to add value to the customer, employee and stakeholder experience. DEWA is one of the first government organisations in Dubai to use self-assessment tools to ensure it is using the most critical AI applications ethically with corrective measures as needed,” said HE Saeed Mohammed Al Tayer, MD & CEO of DEWA.

Al Tayer noted that the R&D Centre at the Mohammed bin Rashid Al Maktoum Solar Park supports innovation in all production and operational areas, becoming a global platform to enhance the operations and services of DEWA’s divisions.

Energy Efficiency

The R&D Centre employs AI, ML, and DL to analyse load consumption, and

develop expansion plans for DEWA to raise energy efficiency and improve demand-side management. The application of AI in big-data analytics for building performance gives rise to improved benchmarking tools, to validate energy project simulations, and leads to a better understanding of energy usage. It also enables the quantification of cooling loads in Dubai buildings and identifies how these impact DEWA’s peak power demand.

The use of AI on smart meter data through ML & DL models helps to identify the various electrical appliances in use, detect faulty devices and forecast peak load periods and profiles. These technologies allow improved energy storage and load distribution management, while indicating opportunities for energy retrofits in buildings. It also increases the efficiency of energy generation reserve, reduces carbon dioxide emissions and saves 20% on costs.

Smart Grid Integration

The Centre uses smart meter data with machine learning to provide insights into the LV networks. It uses sensor measurements and Internet of Things (IoT), historic asset load, inspection and maintenance data to diagnose critical assets and predict faults, and estimate the Remaining Useful Life (RUL). Moreover, it detects potential interruption for medium volt cables; uses the AI-based interruption data record to predict the tripping of protection relays, and the set-points on the high voltage network to remove congestion. It deploys fault detection and predictive maintenance solutions to improve key DEWA metrics like the Customer Minutes Lost (CML) and the System Average Interruption Duration Index (SAIDI).

Solar Resources and Forecasting programme

The programme develops multiple models for evaluating solar resources, the amount of solar radiation and the expected production capacity of solar energy systems, based on AI and ML, and neural networks of all kinds such as Recurrent Neural Network (RNN), Long short-term memory (LSTM) networks, XGBoost, and UNET.

Solar forecasting research group

Deep Learning and neural networks are applied to detect clouds and fog from sky cameras and satellite images by means of a multiResnet network which improves the popular UNET model for computer vision, and reduce costs, and carbon emissions by increasing the generation of solar power.

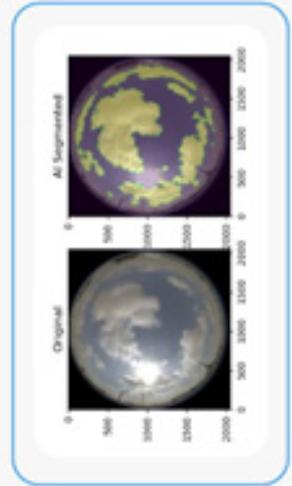
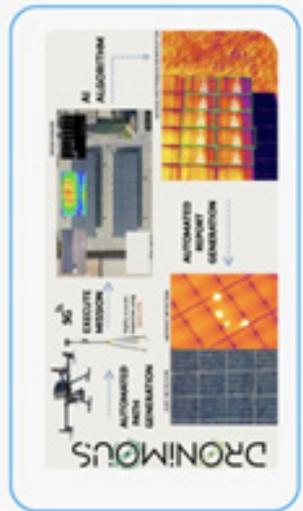
Solar cell programme

The Centre uses AI in conjunction with material science - termed ‘materials informatics’, to develop environmentally compatible lead-free materials for high-efficiency novel economic solar cells.

Improving the performance of photovoltaic solar panels

The Centre uses deep learning to detect soiling and dust spots on photovoltaic panels and enhance the thermal images captured by Unmanned Aerial Vehicle (UAV) and Real-Time Kinetic Energy systems. The Centre published several research papers in international scientific conferences on ‘Autonomous PV panel detection using a drone,’ and ‘Enhanced PV Panel Detection Using Drones Equipped with RTK’.

<https://mediaoffice.ae/en/news/2022/August/08-08/Dubai-Electricity-and-Water-Authority>



Dubai Future Forum to set course for humanity at the Museum of the Future in October.



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DUBAI FUTURE FORUM

10 - 12 OCTOBER 2022
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Dubai Future Foundation will host the world's largest gathering of futurists in Dubai this year in a bid to anticipate what the future of humanity might look like across key areas – from the climate crisis to the continuous progress of artificial intelligence.

Between 10-12 October, 400 of the world's leading futurists, experts and innovators will convene at the Museum of the Future for the inaugural Dubai Future Forum where they will discuss, debate and predict the future trajectory of the world.

The first edition of the Dubai Future Forum will host 30 sessions, including panel discussions and live debates on topics that include advances in artificial intelligence (AI) sentience, bridging the digital divide, the readiness of hydrogen to take over the energy mantle from oil and gas, interplanetary colonisation, and a future climate scenario where the 2°C global warming threshold is breached.

His Excellency Khalfan Belhouli, CEO of Dubai Future Foundation said: "The Dubai Future Forum represents a significant levelling-up of our efforts to foresee the future. The global platform in Dubai will host futurists and the world's brightest minds to anticipate the opportunities and challenges set to shape our societies. It will explore how we can harness emerging technologies and deploy Fourth Industrial Revolution tools to transform challenges into opportunities."

He added: "Human knowledge is growing, and technological advancement is accelerating at a rapid rate. Consequently, we are no longer witnesses to change, we are the drivers of change. We need to be ready to deploy skills and technologies to serve society and enhance quality of life for all."

Four key themes

By convening more than with 45 organisations, the Forum's sessions will focus on four main themes, which include: the Future of our World, Mitigating Existential Risk, What Does it Mean to be Human, and Hedging our Bets through Foresight.

Each theme will explore how humanity and technology can come together to overcome some of the most urgent crises facing the world right now, from the climate crisis to rising energy prices and ongoing vulnerabilities in global public healthcare infrastructure.

Abdulaziz AlJaziri, Deputy CEO and Chief Operations Officer of Dubai Future Foundation, said: "As various existential threats mount, Dubai Future Forum's discussions will focus on transforming these challenges into opportunities. The forum will address topics such as climate change, hydrogen fuel, AI, skills gaps, and space colonisation head on."

"The forum will inspire an alternative outlook on future sectors that will impact

our economies, governments, and daily lives. We can achieve giant leaps in the future, but only by applying foresight and future-planning. That is where the Dubai Future Forum will bring tremendous value in helping to shape the future of humanity."

Sessions running under the 'Future of Our World' theme will explore the most significant transformations facing individuals, societies and governments, and what they mean for our future 20, 30 and 40 years from now. Through these sessions panelists will be invited to discuss space migration and the potential for humans to become an interplanetary civilization, the growing digital divide between the connected, unconnected and under-connected, and whether it may be possible soon to inhabit a truly digital reality.

When the focus shifts to 'Mitigating Existential Risk', sessions will seek to answer the question: how do we develop meaningful and impactful foresight practices? The sessions will dive into how foresight as a discipline and practice is evolving, and how it can help us address the opportunities and risks facing us.

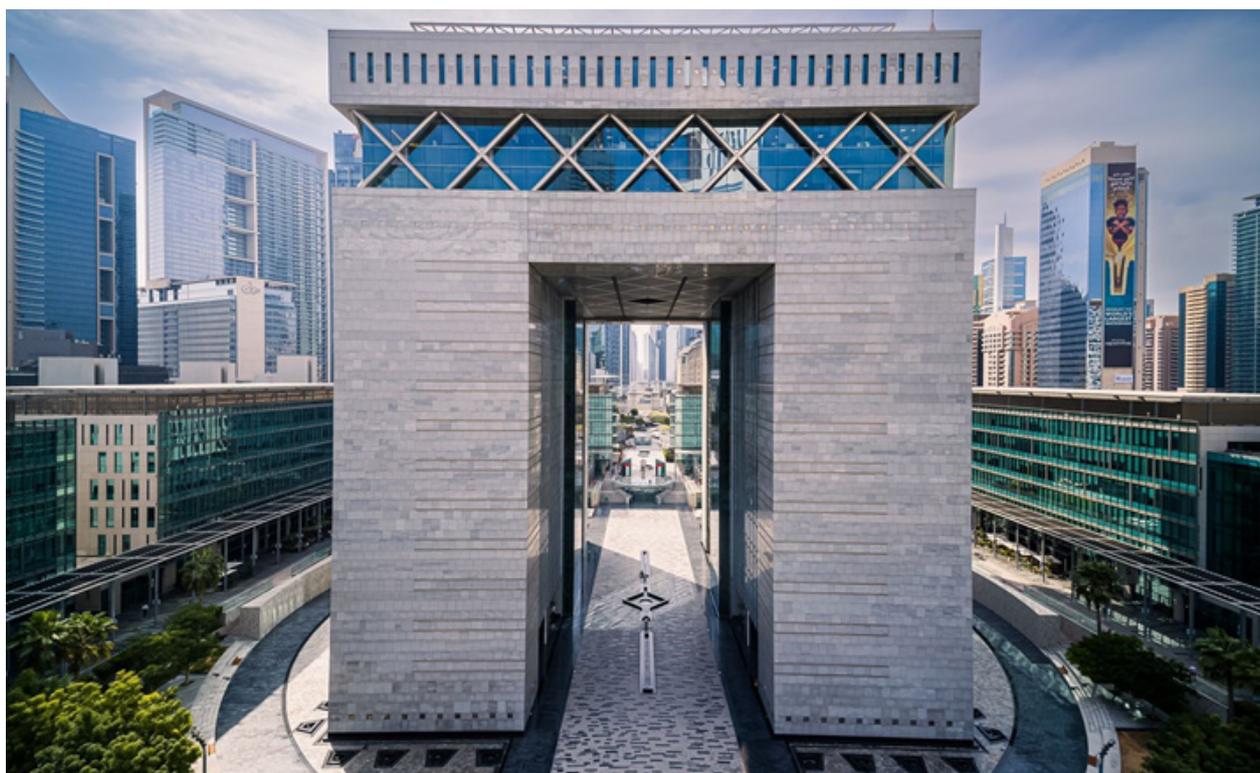
Under the 'What Does it Mean to be Human?' theme, sessions will invite industry experts to explore the impact of technological advances and trends on their specific sectors and industries, including energy, trade and industrial manufacturing.

And as part of the fourth theme – 'Hedging our Bets through Foresight' – a series of workshops will be held by the participating futurists, which will see them examine the impact of paradigm shifts on humanity, in particular the increasing integration of technology in our daily lives and across communities, along with the plethora of ethical implications it brings with it.

Dubai Future Forum will be hosted annually at the centre of hope and innovation, the Museum of the Future, by the Dubai Future Foundation to support Dubai's future agenda by providing new networking and community building opportunities for global thought leaders to convene and design collaborative solutions for an inclusive and sustainable future.

<https://mediaoffice.ae/en/news/2022/August/11-08/Dubai%20Future%20Forum%20to%20set%20course%20for%20humanity>

DIFC launches First Global Family Business, Private Wealth Centre



The Dubai International Financial Centre (DIFC) announced the launch of the first Global Family Business and Private Wealth Centre (Centre) in the region and worldwide.

DIFC is the first financial centre in the world to create a unique offering at a time when an estimated AED3.67 trillion (\$1 trillion) in assets will be transferred to the next generation in the Middle East during the next decade.

The initiative aligns with the UAE Government's commitment to support family businesses, which continue to play a prominent role in accelerating the growth of the country's economy. It is estimated that only 20 percent of family businesses are managed by the third generation in the Middle East. It is crucial to educate those who face challenges related to governance, succession, ownership, wealth, family dynamics and strategy to ensure a solid family business and long-term success.

The initiative is in line with DIFC's 2030 Strategy objectives, which will enable DIFC to double in size and its economic contribution to Dubai's GDP. The strategy also supports sustained economic growth and further differentiates Dubai as a global hub for leading financial institutions and businesses. The Centre will bring together global family-owned busi-

nesses, ultra-high net worth individuals (UHNWIs) and Private Wealth in one hub to help preserve and grow the sector and provide access to a full range of support services to enable robust legacy and succession planning. The Centre is also expected to attract family businesses and UHNWIs from the region and globally to establish a presence in Dubai.

Operating on an independent basis, the Centre's extensive remit will include providing advisory and concierge services; education and training; outreach and high-end networking; undertaking research and issuing publications and providing dispute resolution assistance. Additionally, accreditation will be granted to businesses and advisors in alignment with DIFC's rigorous standards. This will provide confidence to family businesses and wealthy individuals who need to leverage the expertise of a range of partners to make strategic decisions.

Members will also benefit from being part of the region's largest financial ecosystem, DIFC's common law framework, legal and regulatory infrastructure and flexible range of business structures.

Essa Kazim, Governor of DIFC, said, "Aligning with the UAE Government's commitment to helping family businesses play a prominent role in our society, DIFC is pleased to be launching the

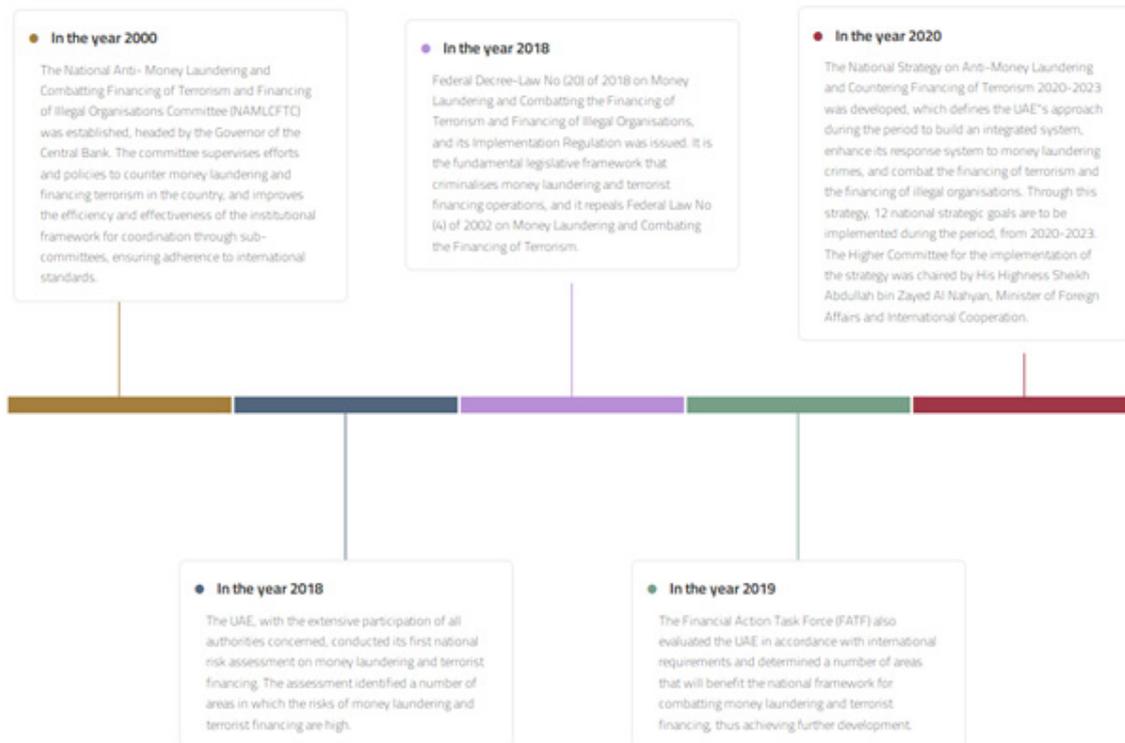
world's first Family Business and Private Wealth Centre. The UAE has a vast number of family businesses, owned by citizens and residents who contribute to the country's economy. In the next decade, those families and others in the Middle East are expected to transfer AED3.67 trillion to the next generation, which illustrates the urgent need to provide them with specialist, consolidated support to help them grow."

Dr. Tarek Hajjiri, appointed CEO for the Global Family Business and Private Wealth Centre, added, "The launch of the Global Family Business and Private Wealth Centre is another key milestone in the development of DIFC's wealth and asset management sector. In addition, it embodies DIFC's long-term commitment to offering quality private wealth management services at par with global standards. The new Centre will play a unique role in guiding family businesses in relation to governance, succession, ownership, wealth, family dynamics and strategy. Our role is crucial to ensure the long-term growth of family businesses."

The Global Family Business and Private Wealth Centre has been approved by the DIFC Authority Board of Directors and due to launch on 1st September, 2022.

<https://www.wam.ae/en/details/1395303072730>

Significant progress achieved by the National Committee for Combatting Money Laundering and the Financing of Terrorism and Illegal Organisations (NAMLCFTC) regime in the UAE



In its continuing efforts to strengthen the UAE's Anti Money Laundering and Counter Terrorist Financing (AML/CFT) framework, the National Committee for Combatting Money Laundering and the Financing of Terrorism and Illegal Organisations (NAMLCFTC) held its sixth meeting for the year on 31st August 2020. The committee took stock of the significant progress towards fulfilling its role of implementing the national strategic plan for AML/CFT

The meeting was presided over by H.E Abdulhamid M. Saeed Alahmadi, Governor of the Central Bank of the UAE and Chairman of the Committee, who spearheads the implementation of national strategic plan. The ongoing efforts to combat money laundering and terrorism financing are further guided by the Higher Committee overseeing the National Strategy for Anti-Money Laundering and Countering Financing of Terrorism (AML/CFT), under the Chairmanship of H.H. Sheikh Abdullah bin Zayed Al Nahyan, Minister of Foreign Affairs and International Cooperation of the UAE

The meeting addressed the critical role of the national committee and its strategic objectives in taking swift actions in combatting money laundering

and terrorism financing. This is further achieved through an effective coordination mechanism with the higher committee in areas such as governance, supervision and proactive cooperation with countries that share commitment in implementing the strategy of Combatting Money Laundering and the Financing of Terrorism and Illegal Organisations. As a function of its efforts to create further awareness of financial crimes that threaten the security and stability of the country, NAMLCFTC recently developed a new website to assist strategic partners and stakeholders in complying with international-standard reporting measures

Given the scope of reforms undertaken by the Committee in recent years towards AML/CFT and in keeping with international standards set by the Financial Action Task Force (FATF), today's meeting also discussed the importance of capacity building and technology assistance, among others. Capacity building, both in terms of human and financial resources, will further strengthen the UAE's ability to implement targeted financial sanctions relating to the prevention and suppression of terrorism and terrorist financing.

Emphasising the role of technology in detecting financial crimes, the Committee announced the launch of a smart platform

developed and managed by a sub-technical committee.

Emphasising the role of technology in detecting financial crimes, the Committee announced the launch of a smart platform developed and managed by a sub-technical committee.

The Committee also heard operational achievements from representatives of the sub-committees, including the recently introduced regulation requiring Hawala providers operating in the UAE to undergo mandatory registration requirements

At the conclusion of the meeting, the Committee reviewed and adopted decisions to further progress items in the National Action Plan for AML/CFT to ensure the safety and soundness of the UAE's financial economy

<https://www.namlcftc.gov.ae/en/media/press-releases/development/significant-progress-achieved-by-the-national-committee-for-combatting-money-laundering-and-the-financing-of-terrorism-and-illegal-organisations-namlcftc-regime-in-the-ua/>

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