



ABU DHABI
SUSTAINABILITY WEEK

18 - 21 JANUARY 2021

DELIVERING A GREEN RECOVERY
CARE AND ENGAGE

Principal Partner

دائرة الطاقة
DEPARTMENT OF ENERGY



Hosted by

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About

Abu Dhabi Sustainability Week

Abu Dhabi Sustainability Week (ADSW) is a global platform for accelerating the world's sustainable development. The week brings together a unique fusion of policy makers, industry specialists, technology pioneers and the next generation of sustainability leaders to engage in dialogue and take action to advance the global sustainability agenda.

Through initiatives and events, ADSW is committed to the sharing of knowledge, implementation of strategies and the delivery of real-world solutions that drive human progress.

As a manifestation of the United Arab Emirates' (UAE) proactive, forward thinking approach to sustainability and mitigating the impact of climate change, ADSW aims to further our understanding of the major social, economic and technology trends shaping the world today.

The ADSW Summit

The critical importance of sustainability has been further reinforced during the pandemic. While the impact of COVID-19 has taught us how truly fragile our world can be, it has also demonstrated the power we possess, when working together, to overcome global challenges.

The virtual ADSW Summit brought together leaders from policy, business and technology to define new pathways for delivering a green recovery in a post COVID-19 world.

Taking place across three sessions, the Summit centralized around three pillars - Live & Move, Care & Engage, Work & Invest. Each pillar allowed participants and audiences to explore topics that are reimagining sustainable development and opening up social, economic and technological opportunities for delivering a green recovery.

Hosted by Masdar, the virtual ADSW Summit was held in partnership with the International Renewable Energy Agency (IRENA), the Atlantic Council and Abu Dhabi Global Market.

A New Dawn for Humanity

The COVID-19 lockdowns brought economic activity, mobility and travel to a halt across the globe in 2020, which initially had positive impacts for the environment. From improved air quality and a reduction in greenhouse gas emissions, to a drop in water pollution and a general restoration of the planet's ecological system, nature was given a moment to breathe, despite slower economic growth.

However, capitalising on such results will prove crucial. A recent multi-agency report from leading science organisations, under the direction of the United Nations, found that sustained reductions in emissions to net zero are necessary to stabilise climate change. The "United in Science 2020" report found that the daily global fossil CO₂ emissions had dropped by an unprecedented 17 percent during peak lockdown in early April 2020, compared to 2019.

By early June 2020, global daily fossil CO₂

emissions had also mostly returned to within five percent below 2019 levels.

The United Nations Environment Programme has warned that transformational action can no longer be postponed if the Paris Agreement targets are to be met. According to United Nations Secretary-General António Guterres, who delivered the opening remarks of the 11th IRENA Assembly, the recovery from the pandemic must be used to build a better future. And 2021 is increasingly being viewed as the dawn of a new sustainability era for humanity, with COP26 standing as one of the events that will showcase such potential and kickstart a new decade of high-impact climate agreements and sustainable global recovery.

New solutions will be required going forward, encompassing sustainability and pandemic preparedness, driven by upgraded national resilience strategies.



"Together, we must make 2021 the year of climate action. We have just 10 years to bring our emissions under control, a decade to limit global temperature rises to the level set out in the Paris agreement. The choices we make today will determine whether or not we achieve it. The science is clear on the destruction we will unleash if we do not. Water supply strained, nature devastated, human health increasingly stunted by the air we breathe. So it is vital that we act now."

Rt Hon Alok Sharma, COP26 President

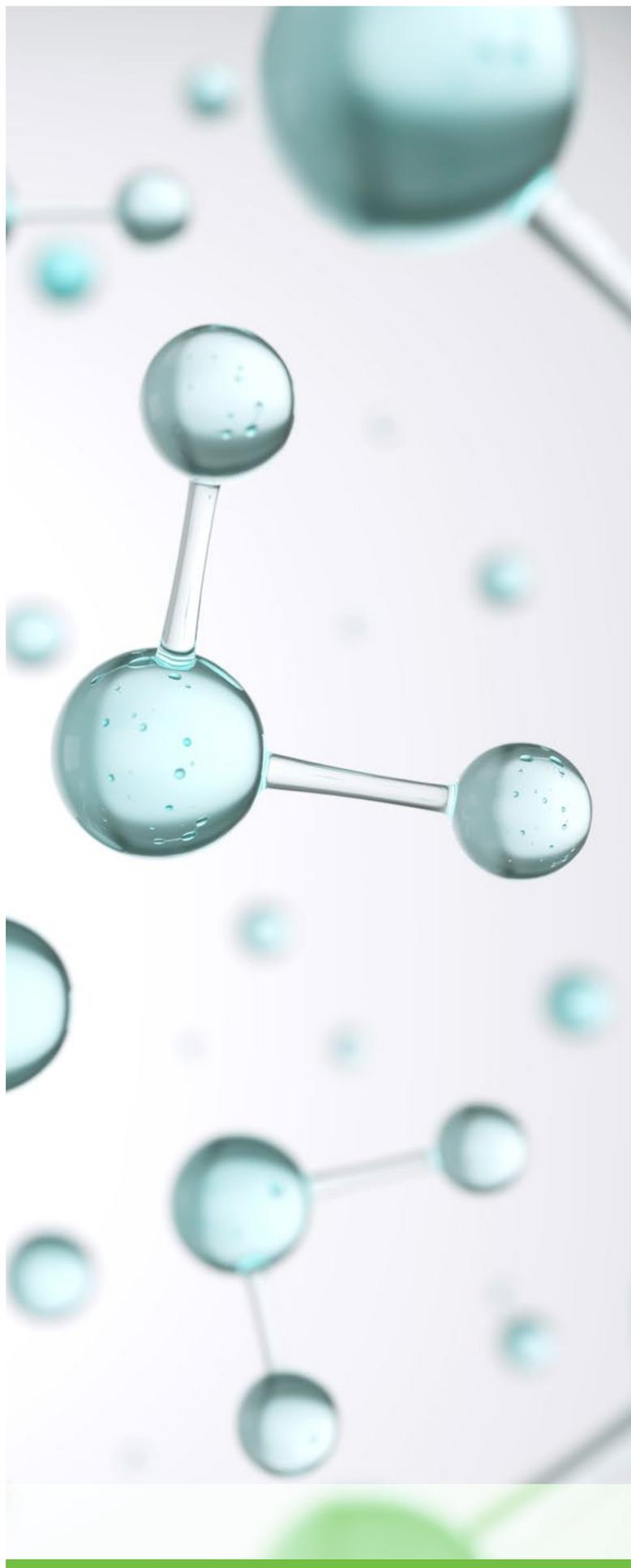
Transitioning to a New World

Practical solutions, policy changes and ongoing dialogue will be needed as we transition to a new world. With communities continuously changing and adapting to a new normal, following the COVID-19 crisis, hope is being restored in a return to stable economic activities. But this new world will require various elements to function at their best – energy, being one of them. “The challenge we face in the future is one of the rising energy demands driven by emerging economies and an increasing standard of living,” says Musabbeh Al Kaabi, Chief Executive Officer of UAE Investments at Mubadala Investment Company in the UAE.

And with global energy consumption projected to double by 2050, according to the United States Energy Information Administration (EIA), and major climate change concerns, energy security challenges are bound to arise.

Significant investments across the global energy landscape, and a holistic view of the energy system, will be needed to meet that rise in energy demand, with governments and investors playing a critical role in contributing to clean, affordable and resilient energy solutions.

In that realm, hydrogen has been classified as a strong emerging energy source holding significant potential. As such, the UAE is working towards becoming one of the leading developers of the hydrogen economy, placing collaboration at the heart of meeting the energy goals for many of the seven billion people on earth.



New Solutions for a Sustainable Future

Cooling has come up on the sustainability agenda as it can play a role in speeding up climate action and green recovery. From bringing comfort to homes, offices and communities, to protecting temperature-sensitive medical supplies, cooling is considered essential. However, demand for cooling is surging, driven by economic growth and urbanisation, particularly in emerging countries. "Air conditioning would be one of the prime drivers of global electricity demand in the next decade," says Bader Al Lamki, Chief Executive Officer at Tabreed in the UAE.

However, if left unchecked, the United Nations Environment Programme estimates that emissions from cooling are expected to double by 2030 and triple by 2100, making cooling one of the critical

challenges in our path towards green recovery. But sustainable solutions exist, such as district cooling, which is increasingly being recognised as climate resilient, resource efficient, low carbon and affordable.

Stakeholders are now coming together to jointly collaborate as part of the cool coalition, led by Tabreed and the United Nations. The network of over 100 partners from the private and public sector, international organisations, finance, academia and civil society are working hand in hand to expand access to sustainable cooling. "With the help of the whole coalition, we are confident that this will only benefit future generations," Al Lamki says.



"AI in healthcare is no longer a nice to have. It is something that we urgently need across the world to contain the rising healthcare costs and challenges... it might disappoint in the beginning but it will definitely protect the future of our nations down the road."

Ashish Koshy, CEO, G42 Healthcare, United Arab Emirates

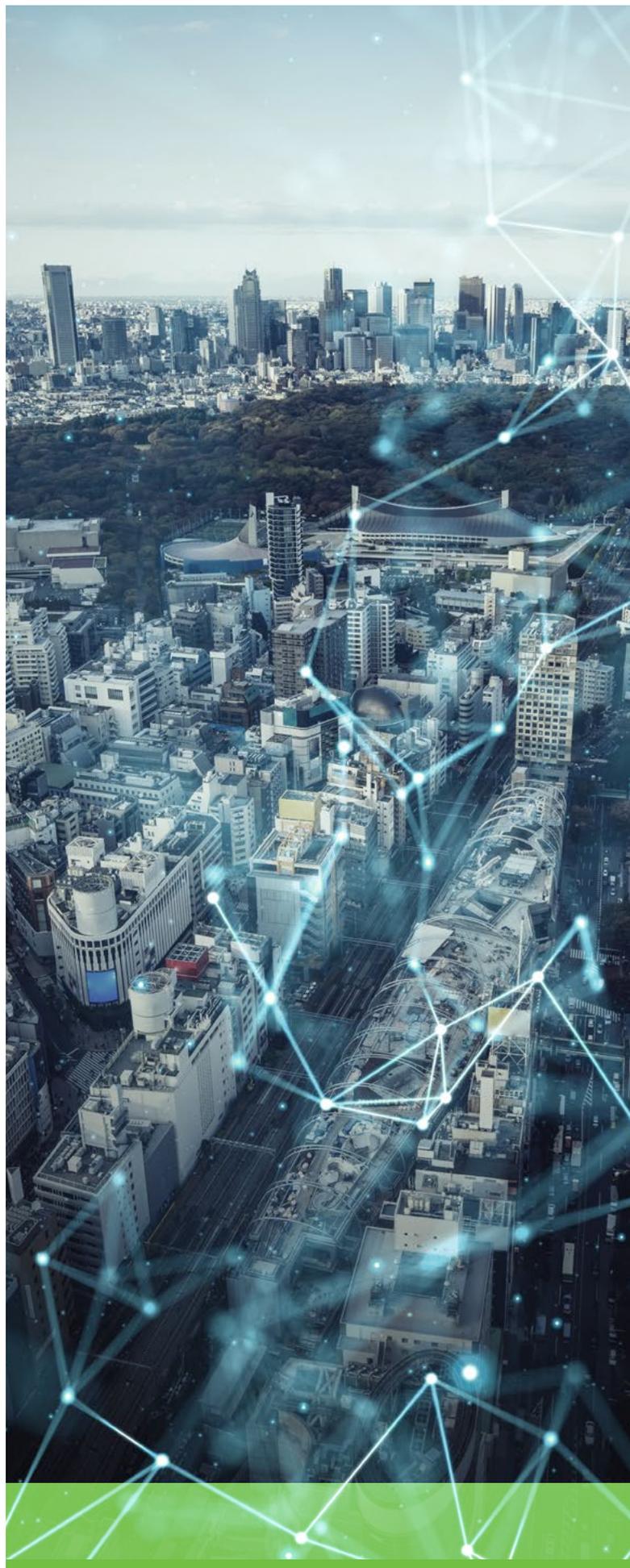
Artificial Intelligence for Good

Artificial Intelligence (AI) can help avert future health crises, with a number of companies working arduously towards tapping into its full potential. From genome sequencing to identify mutations and the genomic source of the COVID-19 pandemic to an AI-enabled surveillance methodology for wastewater, which can act as an early indicator of potential new pandemics, prevention is at the core of new healthcare work.

Such new technologies are redefining the concept of medicine, forcing companies in the field to shift from traditional medicine to a disruptive new approach that can only be achieved through the power of AI. Ultimately, the aim is to reach a world in which patients feel empowered by self-testing at home.

Today, the world is better prepared for future crises, with much optimism in the potential of AI for solving healthcare problems. With the World Health Organisation (WHO) estimating that up to 70 percent of healthcare expenses are non-communicable diseases, research and development in the field can also help lower costs.

AI can assist in understanding the industry further and help protect the future of nations. "We are not in a healthcare system, but in a sick care system," says Judit Giró Benet, Co-Founder and CEO of The Blue Box in the United States. "A preventive system puts the patient in the middle and empowers him or her to take care of their own health." Regulations around data will have to follow suit to ensure a successful model is put in place.



Raising Climate Action

2021 is named the year of climate action, with just under a decade to bring emissions under control and limit global temperature rises to the level set out in the Paris Agreement. The choices made today will determine whether that achievement is reached or not. The alternative, according to science, will be destructive: strained water supplies, devastated nature, and poor human health due to tainted air quality.

Four goals were outlined under the agreement: strengthening adaptation to respond to the realities of a changing climate, enhancing international collaboration among governments, businesses and civil society, as well as public and private financing for climate action to raise \$100 billion annually, and emission reduction.

Rt Hon Alok Sharma MP, COP26 President, urges cities and regions to take action to sign up to the 'Race to Zero' campaign and work to reach net zero emissions by 2050 at the latest. "By signing up, you will be joining over 450 cities and 1,400 firms which have already done so, including the likes of Microsoft and EDF," he says. Clean growth offers immense opportunities – global trade in low carbon goods and services are expected to grow up to 34 times between 2015 and 2050 by investing in clean sectors.



The upcoming COP26 represents a timely opportunity for leaders to resume climate negotiations and work on a shared version for realizing climate ambition in the

H.E. Dr. Abdullah bin Mohammed Belhaif Al Nuaimi

Sustainability in Oil

Energy companies are increasingly facing pressure to commit to taking a more active, leading role in decarbonising the value chain. ADNOC in the UAE is working on being part of the solution, aiming to reduce its greenhouse gas intensity emissions by 25 percent by 2030, exploring innovations and technologies that help drive operational efficiencies, and investing in cleaner solutions. In the past year alone, it has improved its overall efficiency by 15 percent, translating into lower emissions.

As the world finds itself in the midst of an energy transition, oil and gas companies will have to think strategically about how to manage their portfolios, investments and overall strategies. As a result, the industry in current and future oil markets must lead on cost and carbon efficiency. Technology, such as AI and machine learning, can help streamline the entire value chain and ensure operations are optimised for energy usage, emissions and costs. "Sustainability is good for business," says Dr. Alan E. Nelson, Chief Technology Officer at ADNOC.



A Green Recovery

The common pathway revealed in most studies is that electrification will help us reach zero net by 2050. From transport to buildings and cooking, the trend is electric. As such, the Gulf will have to create a new strategy, as it begins to shift away from fossil fuels. "The fossil fuel approach is over," says Prof. Jeffrey Sachs, President of the United Nations Sustainable Development Solutions Network, UN SDG Advocate, and Director of the Center for Sustainable Development at Columbia University in the United States.

Countries are looking to reboot their economies, accelerate their clean energy transition and move to a more sustainable future, with the aim of helping the international community emerge from the COVID-19 crisis more climate resilient.

The UAE plans to increase its clean power capacity,

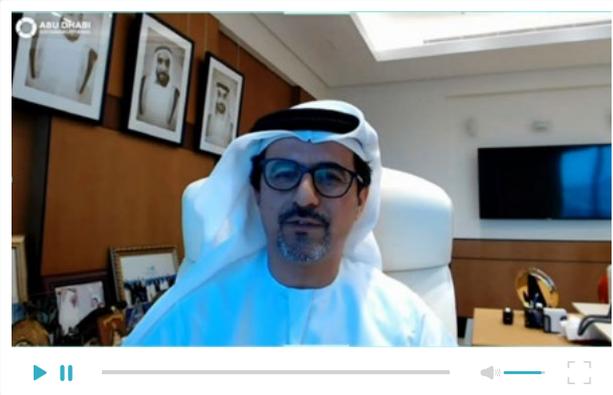
including solar and nuclear, by 2030 and reduce its greenhouse gas emissions by 23.5 percent compared to business as usual. "For 2030, the next stage provides a unique window of opportunity to promote an inclusive green recovery that balances sustainability with economic growth," says H.E. Dr. Abdullah bin Mohammed Belhaif Al Nuaimi, Minister of Climate Change and Environment in the UAE.



We now have a window of opportunity to learn from this crisis and build back better by developing technology to improve sustainability and public health in cities, while making cities more resilient and responsive to future crises.

Maimunah Mohd Sharif, Under-Secretary General and Executive Director, UN-Habitat

ADSW Summit: Care and Engage Agenda



Opening Keynote

- *Musabbeh Al Kaabi, Chief Executive Officer, UAE Investments, Mubadala Investment Company, United Arab Emirates*

In Perspective

- *Bader Al Lamki, Chief Executive Officer, Tabreed, United Arab Emirates*

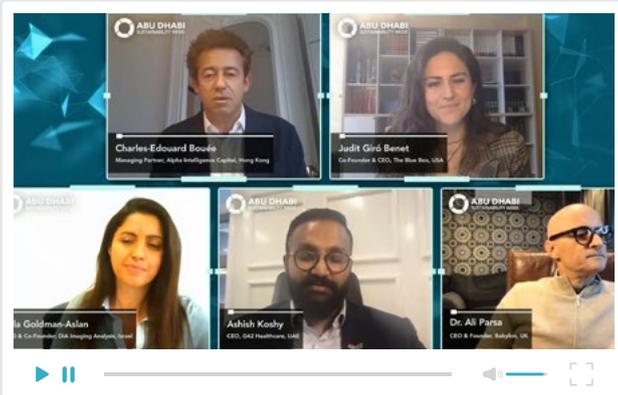


Keynote: Investing in Innovation to Create Breakthrough Technology Solutions

- *Bill Gross, Founder and CEO, Heliogen, Founder and Chairman, Idealab, United States of America*

In Perspective

- *Morane Rey-Huet, Chief Executive Officer & Co-Founder, Meersens, France*

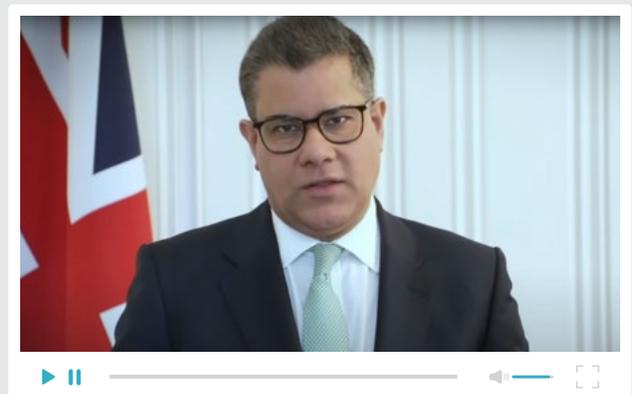


Panel: How Artificial Intelligence Can Help Us Avert Future Health Crises

- *Judit Giró Benet, Co-Founder & CEO, The Blue Box, United States of America*
- *Hila Goldman-Aslan, CEO & Co-Founder, DiA Imaging Analysis, Israel*
- *Ashish Koshy, CEO, G42 Healthcare, United Arab Emirates*
- *Dr. Ali Parsa, Chief Executive Officer & Founder, Babylon, United Kingdom*
- *Moderator: Charles-Edouard Bouée, Managing Partner, Alpha Intelligence Capital, Hong Kong*

In Perspective

- *Maimunah Mohd Sharif, Under-Secretary General and Executive Director UN-Habitat*

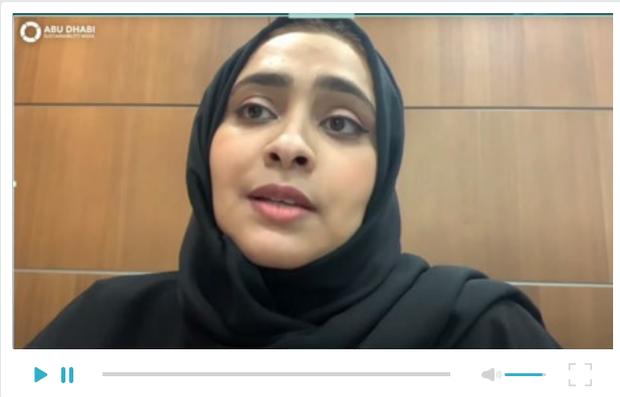


In Conversation: Power of Persuasion: Climate is a Serious Matter

- *Sir Martin Sorrell, Chairman, S4 Capital, United Kingdom*
- *Moderator: Souad Jamal AlSerkal, Vice President of Strategic Communications, Tabreed, United Arab Emirates*

Address: COP26: Raising Climate Ambition and Action in 2021

- *Rt Hon Alok Sharma, COP26 President, United Kingdom*



COP26 – a Crucial Stepping-Stone on the Path to a Sustainable Global Recovery

Part 1 - Address:

- *Laurent Fabius, President, Constitutional Court, Former President of COP21/Paris Agreement, France*

Part 2 - In Conversation:

- *Francesco La Camera, Director-General, International Renewable Energy Agency*
- *Moderator: Clover Hogan, Founder & Executive Director, Force of Nature, United Kingdom*

COP26 – a Crucial Stepping-Stone on the Path to a Sustainable Global Recovery

- *Samar Al Hameedi, Vice President of Corporate Sustainability, ADNOC, United Arab Emirates*

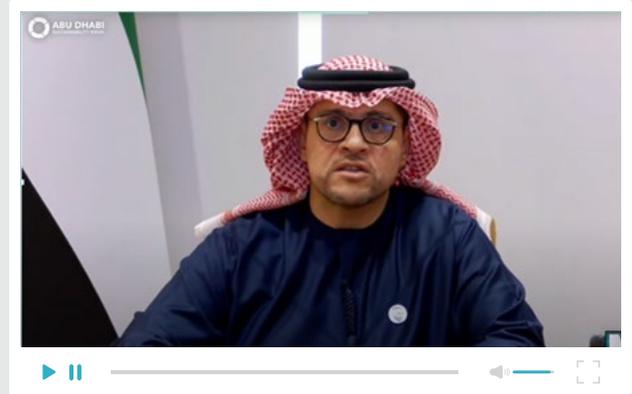


In Conversation: Pathways to Becoming a Sustainable Oil Company

- *Dr. Alan Nelson, Chief Technology Officer, ADNOC, United Arab Emirates*
- *Moderator: Eithne Treanor, CEO, E Treanor Media*

In Perspective

- *José Neves, Chief Executive Officer, Farfetch, United Kingdom*



Panel: Unleashing Young People’s Creative Brilliance through a Sustainable Fashion Challenge

- *Katie Brill, Vice President PR & Communications, Junk Kouture, Ireland*
- *Caoimhe Lowry, Student, Designer, Blinded by Perfection, Ireland*
- *Grace Maher, Student, Tullow Community School, Designer, Element 13, Ireland*
- *Moderator: Stephen Shortt, CEO, ETC Consult, Ireland*

In Perspective

- *H.E. Mohammed Ali Al Shorafa Al Hammadi , Chairman, Abu Dhabi Department of Economic Development, United Arab Emirates*



In Conversation: Achieving a Green and Digital Global Recovery

- *Prof. Jeffrey D. Sachs, President, UN Sustainable Development Solutions Network, UN SDG Advocate, and Director, Center for Sustainable Development at Columbia University, United States of America*
- *Moderator: Simon Birkebæk, Partner, BCG*

Panel: National Resilience in the Time of COVID-19

- *Dr. Angela Wilkinson, Secretary General & CEO, World Energy Council*
- *Ekhosuehi Iyahen, Secretary General, Insurance Development Forum (IDF)*
- *Moderator: Kathy Baughman McLeod, Senior Vice President & Director, The Adrienne Arsht – Rockefeller Foundation Resilience Center, United States*

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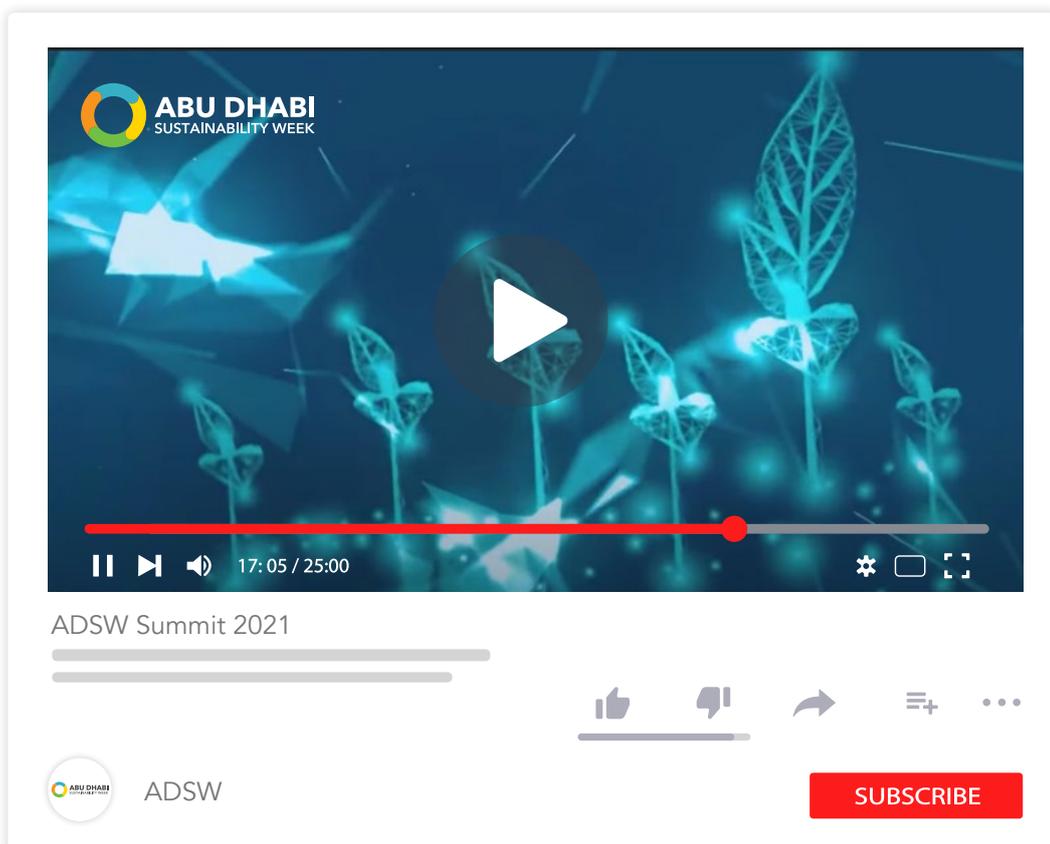


Host City



Watch Again

Join us on our youtube channel to watch our event playlist again:  ADSWagenda





For more information

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