Progressive Collaboration and Innovative Solutions: Shaping the Future of Energy

POST EVENT REPORT

23 March - 1 April 2021 | Virtual

Sponsoring Societies

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What does an energy company have to do with you, your bottom line, and a better tomorrow?

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As a progressive energy and solutions partner, we enrich lives for a sustainable future. This is our purpose. Our aim is to reduce emissions, grow renewable energy, bring education to more, champion social impact and promote a circular economy. This drives us to find new life for oil and gas, harness the power of solar energy, increase education opportunities, help people live in harmony with nature, move cars with plastic bottles, and much more.

Find out more at petronas.com/our-brand
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About IPTC

Founded in 2005, the International Petroleum Technology Conference (IPTC) is the flagship multidisciplinary technical event in the Eastern Hemisphere. The scope of the conference programme and associated industry activities address the technology and relevant industry issues that challenge industry specialists and management around the world.

IPTC is sponsored by four industry organisations and societies, the American Association of Petroleum Geologists (AAPG); the European Association of Geoscientists and Engineers (EAGE); the Society of Exploration Geophysicists (SEG); and the Society of Petroleum Engineers (SPE).

IPTC is focused on the dissemination of new and current technology, best practices and multi-disciplinary activities designed to importance of the value chain and maximising asset value. The knowledge, capabilities and strengths of the participating countries and the sponsoring societies’ global membership, over the spectrum of multi-disciplinary technologies, are central to the success of the conference and its corresponding exhibition.

IPTC Sponsoring Societies

The American Association of Petroleum Geologists (AAPG) is one of the world’s largest professional geological societies. AAPG works to advance the science of geology, especially as it relates to petroleum, natural gas, other subsurface fluids, and mineral resources; to promote the technology of exploring for, finding, and producing these materials in an economically and environmentally sound manner; and to advance the professional well-being of its members. AAPG was founded in 1917 and is headquartered in Tulsa, Oklahoma; currently almost one-third of members live outside the United States. For more information, visit: www.aapg.org.

The Society of Exploration Geophysicists (SEG) is a not-for-profit organisation committed to connecting the world of applied geophysics. With more than 20,000 members in 128 countries, SEG provides educational and technical resources to the global geosciences community through publications, books, events, forums, professional development courses, young professional programmes, and more. Founded in 1930, SEG fosters the expert and ethical practice of geophysics in the exploration and development of natural resources, characterisation of near surface, and mitigation of earth hazards. For more information, visit: www.seg.org.

The European Association of Geoscientists & Engineers (EAGE) is a professional association of geoscientists and engineers. Founded in 1951, it is an organisation with a worldwide membership, providing a global network of commercial and academic professionals. The association is truly multi-disciplinary and international in form and pursuits. EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Division. EAGE has around 19,000 members worldwide representing over 100 countries. All members of EAGE are professionally involved in (or studying) geophysics, petroleum exploration, geology, reservoir engineering, mining and civil engineering. For more information, visit: www.eage.org.

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 140,600 members in 144 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing opportunities to exchange information at in-person and online events and training courses, publications, and other resources at www.spe.org.
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IPTC 2021 in Numbers

4,266 Unique Attendees
1,233 Participating Organisations
79 Countries
209 C-Suite Executives and Government Officials
37 NOCs and IOCs
29 Sponsors and Exhibitors
80+ hours of business and technical content
30+ hours of High-Level Industry Dialogues
40+ hours of Networking and Business Opportunities

Attendance by Region

- 76% Asia
- 13% Middle East
- 3% Africa
- 2% North America
- 1% Latin America
- 4% Europe

Top 10 Countries

1. Malaysia
2. Saudi Arabia
3. Thailand
4. China
5. Indonesia
6. United States
7. India
8. United Arab Emirates
9. Singapore
10. Nigeria
IPTC 2021 in Numbers

Attendance by Primary Business

- **4.43%** Consulting
- **0.3%** Finance / Insurance / Legal
- **1.9%** IT and Software Development
- **15.36%** Oilfield Services
- **2.56%** Education
- **4.46%** Geosciences
- **1.97%** Manufacturing / Original Equipment Suppliers
- **0.07%** Telecommunications
- **5.93%** Engineering / Construction
- **1.9%** Government / Regulators
- **0.19%** Marine Services and Shipping Logistics
- **0.33%** Unmanned / Remote / Autonomous Systems & Vehicles / Drones / Robotics
- **38.58%** Exploration and Production
- **0.45%** Hardware / Equipment
- **0.98%** New / Alternative Energy
- **20.59%** Others

Attendance by Job Function

- **14%** Business / Strategy / Economics
- **2.67%** Downstream and Petrochemicals
- **10.27%** Drilling and Completions
- **1.81%** Education
- **1.15%** Gas and Pipelines
- **12.66%** Geoscience
- **2.42%** HSE / Security / Social Responsibility
- **4.01%** IT / Data / Analytics
- **2.32%** Maintenance and Integrity
- **0.16%** Naval and Marine
- **0.4%** New / Alternative Energy
- **0.28%** Power Generation and Transmission / Regasification
- **8.58%** Production and Operations
- **4.74%** Projects and Assets
- **0.87%** Purchasing and Procurement
- **5.61%** Reservoir
- **5.44%** Sales / Marketing / Communications
- **22.61%** Others
IPTC 2021 in Numbers

Virtual Engagement | Immersive Learning

96% rated IPTC 2021 as good to excellent
95% would recommend IPTC to their colleagues
93% rated the technical programme as good to excellent
91% rated the coverage of new topics and trends as good to excellent
91% rated the content of technical papers as good to excellent
91% rated their experience as very good to excellent

9,721 total conference sessions views
3,165 total ePosters views
5,048 total booth seminars views
81% of attendees visited the virtual exhibition
77% spent 1-5 hours at the virtual exhibition
1,320 average unique visits per day for exhibition booths

What Our Attendees Liked Most

I must say, this is the best platform for connecting with members of the oil and gas industry worldwide. It was a great opportunity to learn and familiarise with new technological innovations.

As a Petroleum Engineering student, I loved having this kind of virtual event that would give me more knowledge and help me get to know the world of oil and gas better.

It was highly interactive and very enlightening.

Various recordings of the sessions enabled one to explore all the events one is interested in and not miss anything.

The business card exchange, the booths, the lobby and all the settings make me feel like I’m at an in-person conference.

All the poster presentations, booth seminars and insights provided greater view of the future of the oil and gas sector.

I especially like the user-friendly virtual site. Very easy to walk around from conference to exhibition, and also meet the speakers and network. Kudos to the organiser!
IPTC 2021 in Numbers

Engaging Conference

- 2,141 Conference Delegates
- 68 Conference Sessions
- 406 Speakers
- 337 Technical Presentations
- 90 Presenting Organisations
- 9 IPTC Insights Sessions
- 1 Executive Plenary Session
- 5 Panel Sessions
- 3 Ask the Expert Sessions
- 44 multidisciplinary technical sessions
- 4 Sponsored Seminars
- 132 interactive technical presentations and dialogues
- 206 knowledge sharing ePoster presentations

Interactive Exhibition

- 19 Exhibitors
- 65 Live Booth Seminars
- 20+ Hours Live Chat and Video Calls
- 700+ Business Cards Received at Booths
- 190+ Featured Services and Solutions

Expansive Networking

- Live Chat
- Networking
- Meet the Speakers
- Business Matching
POST EVENT REPORT

THE HONOURABLE DATO' SRI MUSTAPA BIN MOHAMED

Minister in the Prime Minister’s Department (Economy)
The IPTC Board of Directors was formed in 2010 to oversee the management of IPTC. The Board is made up of members elected from IPTC’s four founding societies. Members of the Board are appointed to three-year terms.

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- Joseph M. Reilly, *Society of Exploration Geophysicists*
- Mike Gunningham, Chief Production Technologist, SGS Subsurface Consultancy; *Society of Petroleum Engineers*
Executive Committee

The Executive Committee is comprised of senior executives from the worldwide energy industry who lead the development of the programme by determining the industry trends and key topics to be covered.

Honourable Advisor

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President & Group Chief Executive Officer
PETRONAS

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- AbdulHameed Al-Rushaid, Vice President, Petroleum Engineering and Development, Saudi Aramco
- Markus Droll, Executive Vice President, Projects & Engineering, Shell
- Valentina Gabriel, Senior Vice President, Technip Energies
- Javier Rielo, Senior Vice President, Asia Pacific, Total E&P
- Frederico Justus, President, Eastern Hemisphere, Weatherford
The Conference Programme Committee is made up of more than 150 technical professionals who are responsible for developing the themes and scope of the conference’s technical programme, and thus is made up of technical experts from the energy industry.

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Partnerships are key to Mubadala Petroleum

Mubadala Petroleum is a leading international, oil and gas exploration and production company, headquartered in Abu Dhabi and recognized globally as a responsible operator and valued partner.

Our active partnerships approach allows us to further build our expertise through sharing best practices and driving efficiencies, which is key to our success.

We are proud to have been Co-Host of IPTC 2021. Thank you for visiting us at our virtual exhibition booth.

Follow our exciting journey at mubadalapetroleum.com
Opening Ceremony

This session marked the opening of the inaugural virtual IPTC with a ministerial address by The Honourable Dato’ Sri Mustapa bin Mohamed, Minister in the Prime Minister’s Department (Economy), exclusive keynote remarks by industry leaders and the announcement of the 13th IPTC Excellence in Project Integration Award recipient.

Malaysia remains committed to promote and preserve an attractive investment climate in our upstream sector. We continue to welcome investments, strategic collaborations and partnerships to further unlock value potential in Malaysia’s upstream sector... The Malaysian government, under the purview of the Economic Planning Unit, is in the final stage of formulating the country’s National Energy Policy. This document together with specific action plans will be launched in the second half of 2021.

The Honourable Dato’ Sri Mustapa bin Mohamed
Minister in the Prime Minister’s Department (Economy)
Malaysia

Our conviction is that industry gatherings such as this one must continue. Platforms such as IPTC are critical as they allow us to stay connected as a fraternity... The level of commitment and support we see here is also a strong signal that resilience continues to be the defining attribute of this industry, despite many being severely hit by the turbulence of 2020.

Those present here collectively have the capacity and the capability to turn all the technical prowess and technological ingenuity that have long been defining features of this industry, towards decarbonisation. We should explore this, not because we are ceding to the investment and policy changes that are happening as we speak, but because we are now presented with the opportunity to take the lead in providing solutions for carbon emissions.

The oil and gas industry is an essential component of life as we provide energy, create opportunities, and help develop communities where we operate. At Mubadala Petroleum, our goal is to continue doing this responsibly, affordably and for the long term. Despite the current challenges, our prospects are promising. We have the right strategy to chart a successful path forward; one that supports the journey of energy transition, while playing a key role in meeting energy needs in a safe and sustainable way.

Tengku Muhammad Taufik
President &
Group Chief Executive Officer
PETRONAS

Mansoor Mohamed Al Hamed
Chief Executive Officer
Mubadala Petroleum
To continue to be relevant and generate value by delivering energy that can sustain the world across the transition while meeting stakeholder expectations, the oil and gas industry must work differently. In Schlumberger, we believe many of the key aspects of how our industry can, and must change, hinge on collaboration.

Opening Ceremony

Olivier Le Peuch
Chief Executive Officer
Schlumberger

Mahmoud M. Abdulbaqi
Chairman
IPTC Board of Directors

The issues facing us in the upstream industry are getting more and more complex. Which requires not only the most advanced technologies, but also the most up-to-date technologies. The solutions to these efforts are proving to be more and more challenging, which requires a multi-disciplinary approach. IPTC provides a perfect platform for presentations, discussion, and exchange of ideas on these technologies and on these integrated solutions.

Click image to view video
IPTC Excellence in Project Integration Award

As the upstream oil and gas industry moves towards increasingly complex and capital intensive projects, conventional practices must be challenged. It is crucial that lessons are shared from successfully integrated projects that embody excellence. The IPTC committees and sponsoring societies believe in highlighting projects above US$500 million that have demonstrated distinction throughout the entire exploration to production value chain.

The IPTC Excellence in Project Integration Award is given to a project that adds value to the industry and exemplifies strong teamwork, solid geoscience knowledge, reservoir and production engineering acumen, determined and watchful construction, and outstanding facilities engineering practices. Equally important, successful projects require a pervasive culture of HSE, a focus on sustainability, and a positive impact on the country, the region and the world.

13th IPTC Excellence in Project Integration Award Recipient:

ICHTHYS LNG by INPEX

Ichthys LNG is ranked among the most significant oil and gas projects in the world. The energy development is a joint venture between INPEX group companies (the Operator), major partner Total, and the Australian subsidiaries of CPC Corporation Taiwan, Tokyo Gas, Osaka Gas, Kansai Electric Power, JERA and Toho Gas.

A Final Investment Decision for Ichthys LNG was reached in 2012 and production commenced in July 2018.

Ichthys LNG is expected to produce 8.9 million tonnes of LNG and 1.65 million tonnes of LPG per annum, along with more than 100,000 barrels of condensate per day at peak.

It is one of the few energy projects worldwide to incorporate the whole chain of development and production: subsea, offshore, pipeline and onshore. Gas and condensate from the Ichthys Field will be exported to onshore facilities for processing near Darwin via an 890-kilometre pipeline. Most condensate is directly shipped to global markets from a floating production, storage and offloading facility permanently moored near the Ichthys Field in the Browse Basin.

13th IPTC Excellence in Project Integration Finalists:

Culzean by Total

Khurais Arab Light Increment by Saudi Aramco

Learn more about the projects [here](#).
Focused on the conference theme “Progressive Collaboration and Innovative Solutions: Shaping the Future of Energy”, IPTC Insights showcased industry thought leaders sharing their perspectives on how improved partnership models, enhanced business strategies and new technologies are being utilised to future-proof the industry as it navigates the volatility, unpredictability, complexity and ambiguity, while addressing the opportunities for a lower carbon world.

We just did some really interesting research which looked at companies who are investing in technology and sustainability and the prediction is that they are much more likely to be the leaders of tomorrow than those companies that are not focusing on both, so technology and sustainability are really twin engines to drive growth.

There are still many people out there that are well below the global average on all metrics. Energy access for these people is so critical, so that they can gain higher levels of education, higher income, improved living conditions, and ultimately live longer lives. The resources that we find now and in the future are such a critical part of the energy mix that will fundamentally contribute to economic growth and the advancement of living standards, not only in Asia Pacific and Africa, but across the globe.

Our key tenets and values revolve around honesty, open-mindedness and willingness. Those three are essential areas to embracing the energy transition, or more importantly, sustainable energy... It is the honesty to embrace that there is disruption. It is the open-mindedness to consider alternatives - what are those alternatives and what are those options that we can do effectively... And then ultimately the willingness to go execute. I think these are requirements for success in any kind of disruption.

All of us need to see energy transition as an opportunity. It is here to stay and we need to figure out how to thrive in it. When I was at an E&P company, at first they saw shale as a competitor, and then after a while shale became a must-have. I’m sure with renewables it will be the same. Today, we see it as a competitor to an oil and gas company. But if we all focus on our goal to deliver energy to customers, I think we should start to see there are opportunities for all and there are ways for us to embrace it.
We just did some really interesting research which looked at companies who are investing in technology and sustainability and the prediction is that they are much more likely to be the leaders of tomorrow than those companies that are not focusing on both, so technology and sustainability are really twin engines to drive growth.

Nasir K. Al Naimi  
Senior Vice President, Upstream  
Saudi Aramco

I do believe that we are setting the stage for our data not just to work for us, but to speak through us by helping us to make better decisions. The big shift that I see is that whereas in the past technology was a solution to a problem, in this world of digital enablement, we’re actually enabling the systems and the processes that we use on an end-to-end basis.

Paul Goodfellow  
Executive Vice President, Deepwater  
Shell

As one of the fastest growing economies, Indonesia needs more energy to support it. The energy transition will increase the importance of renewable energy. At the same time we need to also focus on efficiently and effectively producing from existing basins to ensure Indonesia’s national energy security.

Dwi Soetjipto  
Chairman  
SKK Migas

What customers are requiring are affordable energy, reliable energy and clean energy. In a lot of countries around the world, it is in that order. Clean is, of course, necessary, but it cannot be at the expense of affordability or reliability, and this is how we see the future.

Arnaud Breuillac  
President, Exploration & Production  
Total
IPTC Insights

Leadership to Shape the Future of Energy

This session provided insights into how the industry’s future leaders can employ improved partnership models, business strategies, human capital and opportunities and disruptions from technologies, to transform and shape the future.

“I started out in a very power distant culture and even in Asia, the power distance is becoming smaller and smaller, and leaders need to adapt to that. In the past or in a power distant environment, all the engagements are formal. Now, you are expected to have informal engagements. As a leader you need to adapt, as this is the new generation we are managing - be it our customers or our workforce.”

Mohd Redhani Abdul Rahman
Head, Portfolio, Intervention and Transition
PETRONAS

“To be ready for the future, companies must focus on two areas. Firstly, digitalisation and upscaling of digital literacy is a fundamental transformation of the company. Secondly, leadership capabilities. More and more we are going to need leaders who are people managers. Companies need to facilitate the development of their leaders as coaches, as mentors and as navigators for the future.”

Cally Ting
Human Capital Manager, Malaysia
Mubadala Petroleum

“This generation wants to ensure that their work has a social meaning, a collective sense of purpose, so if you want to attract younger workers, your organisation must really showcase how you can make a difference in the world.”

Chang Qing
Vice President, Production Systems, Asia
Schlumberger
Executive Plenary and Panel Sessions

Executive Plenary Session:
Managing Transformation to Shape the Future of Energy

Maria Sferruzza  
Senior Vice President, Asia Pacific  
Baker Hughes

Przemek Lupa  
Head of Development & Investment (Asia Pacific)  
Masdar

M Firouz Asnan  
Senior Vice President  
Malaysia Petroleum Management  
PETRONAS

Montri Rawanchaikul  
President  
PTTEP

Samer S. Al Ashgar  
General Manager, Characterisation & Field, Development Geosciences  
Saudi Aramco

Panel Session 1:
Energy Transition: Balancing Accessibility, Sustainability and Affordability

Takeshi Soda  
Director for Oil and Natural Gas Division  
Ministry of Economy, Trade and Industry (METI) Japan

Naser Al Hajri  
Senior Vice President Operations - South East Asia  
Mubadala Petroleum

Mazuin Ismail  
Senior Vice President, Corporate Strategy  
PETRONAS

Angela Wilkinson  
Secretary General and Chief Executive Officer  
World Energy Council

John McCreery  
Advisory Partner  
Bain & Company
Executive Plenary and Panel Sessions

Panel Session 2: Human Capital Dynamics for the Future

Erdal Ozkan  
Professor of Petroleum Engineering  
Colorado School of Mines

Carla Carroll  
Regional Talent Manager, Eastern Hemisphere  
Halliburton

M. Fahmi El Mubarak  
Vice President, Human Capital Subholding Upstream  
PT Pertamina Hulu Energi

Eric Young  
Geozone Vice President - Asia  
Weatherford

Farehana Hanapiah  
Vice President, Group Human Resources Management  
PETRONAS

Panel Session 3: Navigating the Future of Gas

Mazin Rashid Nasser Al Lamki  
Chief Operating Officer  
Mubadala Petroleum

Shamsairi Mohd Ibrahim  
Vice President, LNG Marketing and Trading  
PETRONAS

Natruedee Khositaphai  
Executive Vice President, Strategy and Business Development Group  
PTTEP

Ajay Shah  
Vice President - Shell Energy Asia  
Shell

Asheesh Sastry  
Managing Director and Partner  
Boston Consulting Group
Executive Plenary and Panel Sessions

Panel Session 4:
Digital Transformation: Powering the Energy Industry through Necessary Disruption

Senthil Ramani  
Head of AI for Growth Markets  
Accenture

Aadrin Azly  
Chief Digital Officer  
PETRONAS

Trygve Randen  
Business Line Director, Digital Subsurface Solutions  
Schlumberger

Eric Delattre  
EP Digital Transformation Officer  
Total SE

Ahmed Ibrahim  
Vice President, Digital APAC  
Baker Hughes

Panel Session 5:
Asia Pacific Exploration Opportunities - Are We Missing Something?

Sophie Zurquiyah  
Chief Executive Officer  
CGG

Emeliana Rice-Oxley  
Vice President  
Exploration Upstream  
PETRONAS

Kanok Intharawijitr  
Executive Vice President, Geosciences, Subsurface and Exploration Group  
PTTEP

Jaffee Suardin  
Deputy of Planning  
SKK Migas

Jean-Marc Rodriguez  
Vice President Exploration Asia Pacific  
Total SE
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Ask the Experts

Ask the Experts 1
Geostatistical Reservoir Modeling: Data Analytic and Machine Learning

Michael J. Pyrcz
Associate Professor
The University of Texas at Austin

Jin Zhijun
Professor
SINOPEC Exploration & Production Research Institute

Lacustrine Shale Oil Development in China: Current Status and Strategic Outlook

Assel Salimova
Wireline Services Director
Asia Pacific Oilfield Services
Baker Hughes

Ask the Experts 2
High Pressure, High Temperature (HPHT) South East Asia

Brent Couzens-Schultz
Geohazards and Pore Pressure Manager
Shell International Exploration and Production

Robert Pearson
SPE Technical Director
Production and Facilities
Glynn Resources

Oil and Gas Production Technologies of the 21st Century; Where We Are Headed and What We Need

Sriyanee De Silva
Exploration Business Development Manager
Shell Malaysia E&P

Ask the Experts 3
Rise of Machines: Time to Change the Petroleum Engineering Curriculum

Robello Samuel
Chief Technical Advisor and Senior Fellow
Halliburton

Francois Baillard
Chief Technology Officer
Iraya Energies

Machine Learning: From a Shopping List to a Change in Mindset

Sunisa Watcharasing
Engineer, Technology and Innovation Department
PTTEP

Session Chair

Session Chair

Session Chair
Technical and Knowledge Sharing
ePoster Sessions

More than 300 technical presentations were presented across a vast variety of technical topics at the Technical and ePoster Sessions.

Technical Sessions include:
- Addressing Challenges in Unconventionals
- Advances in Reservoir Modelling
- Artificial Lift
- Attribute Analysis
- Big Data and Analytics
- Carbon Capture and Storage (CCS)
- Completion Engineering Design
- Completion Technology Advancement
- Data Driven Applications in Geoscience
- Development - Stimulation
- Digital Transformation and Innovation
- Drilling and Completions - Case Studies
- Drilling Completions Fluids and Cementing
- Drilling Engineering Design
- Drilling Technology Advancement
- Driving Commercial Success in Oil and Gas Development
- Enhancement in Facilities Performance
- EOR Success in a Challenging Economy
- EOR/CO₂/Sour Gas
- Flow Assurance
- Future of Work and Digital Technology
- Geomechanics / Geohazards
- Innovative Solutions in Reservoir Engineering
- Innovative Solutions in Unconventional Development
- Innovative Technology Gas Delivery Solutions
- Integrated Geoscience Applications
- Integrated Reservoir Management Extending Asset Life
- Mature Field Development, Production and Abandonment
- New Frontier in Facilities Management
- Next Generation Technology for Oil and Gas
- Petroleum Geology
- Petrophysics and Reservoir Engineering
- Production Operations
- Production Optimisation and Asset Performance
- Reimagining Sustainable Development
- Reservoir Modelling
- Sand Management and Solutions
- Seismic Imaging
- Seismic Modelling/QI
- Technological Advancement towards High Efficiency and Optimisation
- Towards Cleaner and Sustainable Energy: Green House Gas Management/Low Contaminants
- Well Construction Automation
- Well Construction Data Analytics
- Well Integrity and Well Abandonment
Engagement and Outreach

 Impressions
7.2 million impressions

 Engage ment
34,654 followers

 Outreach
439 subscribers

 Personalised
11,662 followers

 600+ posts, articles, and ads

6 million+ reach

679 followers

300+ million reach

7.2 million impressions
fuelling global recovery through sustainable energy

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