28th WORLD GAS CONFERENCE
CALL FOR PAPERS
A Sustainable Future - Powered by Gas

HOST ASSOCIATION
THE KOREA GAS UNION

HOST PARTNER
KOGAS

PRESENTED BY
IGU
SHAPING THE GLOBAL ENERGY AGENDA

On 21-25 June 2021, the 28th World Gas Conference (WGC 2021) takes place in Daegu, the energy city of South Korea and home to the headquarters of KOGAS. This major Conference and Trade Exhibition will offer unrivaled access to the Asian gas market and beyond.

Hosted by the Korea Gas Union and supported by the Korean Government, host partner KOGAS, Daegu Metropolitan City and the National Organizing Committee of 50 global energy institutions, WGC 2021’s core aim is to promote the role of natural gas in a sustainable future.

WGC 2021 will build on the IGU’s 90-year history of engaging the foremost policy makers, business leaders and technical experts from both within and outside the gas industry to shape the global energy agenda.

Join us in Korea to learn from world class speakers, do business with unrivaled networking opportunities and access to the latest products and technologies on the exhibition floor.

Contact
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Project Manager
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The IGU Triennial Work Program (TWP) defines the work and activities that the IGU Committees and Task Forces carry out under the three-year term, which the IGU Korean Presidency currently holds. The aim is to support the mission of the IGU while contributing to their efforts towards becoming the global voice of gas.

Global energy consumption has reached unprecedented levels and the 2018-2021 TWP will embark on a journey to discuss A Sustainable Future Powered by Gas, tackling critical issues such as meeting the increasing demand by improving accessibility and availability, enhancing affordability while lowering greenhouse gas emissions and improving air quality.

The IGU has established 11 Committees and 2 Task Forces to address a wide range of topics confronting the gas industry, under the guidance of the IGU Coordination Committee, which is responsible for overseeing all areas of the WGC program. The Committees and Task Forces have undertaken a broad array of studies, best practices and presentations specific to their areas of focus.

The following three areas of strategic focus have been established to guide the work and the efforts of the Committees and Task Forces and present compelling, credible and factual arguments why natural gas is well-positioned as a key energy source in this energy transition towards a sustainable future.

**ENVIRONMENTAL LEADERSHIP**
Focus on addressing and overcoming environmental challenges while enhancing energy efficiency and advocacy for policy and public acceptance.

**MARKET VITALITY**
We aim to enhance the affordability of gas, remove barriers that could affect gas demand and support strategic partnerships with other major organizations to promote the benefits of gas and cooperate on adequate policy frameworks.

**VALUE CREATION**
Increase the role of gas in emerging sectors through technological innovations and collaborate with renewable energies. The essential focus is to improve the quality of life by advancing gas as a key contributor to a sustainable energy future.

The Coordination Committee invites authors to submit abstracts to be considered for the 28th World Gas Conference program. These will help shape the global energy agenda and make a significant contribution within the gas industry.
WGC 2021 PROGRAM OVERVIEW

MON 21 JUNE

- OPENING CEREMONY 10:00 - 11:00
- COFFEE BREAK & EXHIBITION OPENING

TUE 22 JUNE

- OPENING DIALOGUE 11:45 - 12:30
- LUNCHEON 12:30 - 13:45

WED 23 JUNE

- PLenary 1 13:45 - 15:00
- PLenary 2 15:00 - 16:15
- COFFEE BREAK

THU 24 JUNE

- PLenary 3 09:30 - 10:45
- INDUSTRY INSIGHTS 11:15 - 12:20
- COFFEE BREAK

FRI 25 JUNE

- PLenary 5 09:30 - 10:45
- INDUSTRY INSIGHTS 11:15 - 12:20
- COFFEE BREAK

- PLenary 7 09:30 - 10:45
- INDUSTRY INSIGHTS 11:15 - 12:20
- COFFEE BREAK

- WELCOME RECEPTION 18:30 - 20:30
- NETWORKING RECEPTION 18:30 - 20:30
- CLOSING CEREMONY 16:15 - 17:00
CONFERENCE PROGRAM

Over **500 speakers** will present in **90 sessions across** a **4-day program** covering a range of **strategic, commercial and technical** topics facing the global gas industry.

PLenary sessions and luncheon addresses

The world’s most prominent energy and environmental leaders will debate the most significant issues shaping the global energy agenda in June 2021. See page 5 for topics and confirmed speakers to date.

CURRENT DEBATES

Current Debate sessions will feature lively interactive discussions between audience members and speakers on the most commercial and strategic topics of the moment. Join the debate and have your say!

"If you are an international gas player, LNG or otherwise, this is a must-attend event"

- WGC 2018 delegate

TECHNOLOGY & INNOVATION SESSIONS

Delve deeper and learn from the industry’s leading technical experts as they demonstrate and explain the latest gas industry innovations and technologies. Sessions will take place on the exhibition floor, featuring a seminar theater and interactive digital poster displays. Speakers will be selected from the Call for Papers.

INDUSTRY INSIGHT SESSIONS

Listen to experienced commercial and technical speakers who will present their latest findings on each segment of the natural gas value chain. Speakers will be selected from the Call for Papers.

ANY QUESTIONS?

Please do not hesitate to contact us at:
E-mail: papers@wgc2021.org or call +44 (0) 20 7978 0054

SUBMIT AN ABSTRACT - see page 6
We are delighted to announce the following speakers have already confirmed their participation:

**PLENARY PROGRAM**

**PLENARY TOPICS ANNOUNCED**

- A Sustainable Future – Powered by Gas
- Narratives for the Evolution of the Global Gas Market
- Market Growth Enablers in the Gas Industry
- The Emerging Transportation Ecosystem

- Digital Technologies Transforming the Gas Industry
- Future Growth of the Asian Gas Market
- Innovation and Technology in Gas Industries
- Access to Gas: Driving Economic Growth and Reducing Energy Poverty
CALL FOR PAPERS

WGC 2021 welcomes industry experts from around the world to submit abstracts through the Call for Papers process, giving you the chance to be selected as a speaker at the world's largest global gas conference.

REASONS TO SUBMIT AN ABSTRACT

- Have a unique opportunity to present your commercial and technical knowledge to participants from around the globe
- Raise your own profile and that of your company in front of an international audience
- Inspire fellow attendees with learnings they can take back to their organizations across the world
- Speak in front of a global audience of up to 3,500 delegates
- Use your speaking platform to network and make new business connections to further your goals
- Be a voice in shaping the global energy agenda

OVERVIEW

The abstract submission period is from 29 May 2020 to the end of the year and should be submitted via the website at www.wgc2021.org

Authors of accepted abstracts will be given the opportunity to present at WGC 2021 in either an Industry Insight or Technology & Innovation session. Accepted authors will be required to submit a Full Paper relating to their Abstract. The Full Paper should be no longer than 20,000 words and submitted in English only. In addition, presenting authors will be asked to submit a Powerpoint Presentation to be presented at the conference.

“Coming from a developing country, it was enlightening to see the vastness of the energy business. Many learnings can be applied to my country in its goal for a cleaner, sustainable and developed future.”

– WGC 2018 Delegate
CALL FOR PAPERS

HOW TO SUBMIT AN ABSTRACT
TO VIEW THE FULL LIST OF TOPICS AND INSTRUCTIONS ON HOW TO SUBMIT AN ABSTRACT, PLEASE VISIT WGC2021.ORG

Criteria for selection of abstracts from the Call for Papers will be based upon:

- Relevance and degree of benefits to the gas industry
- Originality
- Relevance to the conference theme “A Sustainable Future – Powered by Gas”
- Content and presentation quality
- Conformity to the respective topic

CONFERENCE REGISTRATION FEE
All accepted speakers at WGC 2021 will avail of a speaker conference registration rate.

ANY QUESTIONS?
Please do not hesitate to contact us at:
E-mail papers@wgc2021.org or call +44 (0) 20 7978 0054

"The conference was an effective forum to share ideas with engineers, scientists, policy-makers and all other stakeholders to achieve better utilization of natural gas"
– WGC 2018 Delegate
CALL FOR PAPERS SESSION TOPICS

INDUSTRY, VALUE CHAINS

INDUSTRY INSIGHTS
Advantages of Smart Gas Distribution Grids from the Customer Perspective
Future Gas Exploration and Development to Satisfy Demand
Gas Transmission Networks to Enhance Energy Markets Vitality
“Megabytes to Molecules“ - Digitalization in the E&P of Natural Gas
Reaching Remote Areas with Gas/LNG - Helping Economic Development
Safety Advances in Underground Gas Storage Design and Operation
Strategies and Challenges for Enabling Natural Gas Networks to Distribute Hydrogen Gas

TECHNOLOGY & INNOVATION
Enhanced Gas Recovery (EGR)
Frontier E&P Technologies for Natural Gas
GHG and LNG transportation
Innovations in Gas Distribution Work Practices
New Pipeline Deployment and Management Technologies
Technological Innovation in Underground Storage
Underground Storage Emerging Technical Challenges
What’s New & Smart: Innovations in Gas Distribution Technologies?
# CALL FOR PAPERS SESSION TOPICS

## MARKETS, SUPPLY, DEMAND, PRICE

### INDUSTRY
- Evolution of Gas/LNG Contracts - Where do Things Stand Today?

### INSIGHTS
- Future Gas Demand in the World Energy Mix
- Global Gas Pricing
- Market Developments by Science, Engineering and Commercial Innovation
- Market Opportunities for Underground Gas Storage
- Paris Agreement Impacts on Gas Consumption
- The Impacts of Covid-19 Pandemic on the Gas Industry and Markets

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“The WGC is the place to be for understanding where the industry is at, right from the thoughts of Supermajor CEOs and national energy ministers, down to industry case studies and emerging technologies from vendors. There’s something for everyone!”

- WGC 2018 delegate
# CALL FOR PAPERS SESSION TOPICS

## ENVIRONMENT, SUSTAINABILITY

**INDUSTRY INSIGHTS**

- Advances in Gas Distribution System Integrity
- Environmental Improvements and Impacts of Underground Storage Operations
- Environmental, Social and Governance (ESG) Practices and Stakeholders' Engagement in Promoting the Role of Natural Gas
- Natural Gas - the Very Best and Essential Vector Towards a Sustainable and Low Carbon World
- Sustainable Transportation Powered by Gas
- The Importance and Role of Circular Economy in Promoting Natural Gas for a Sustainable Future
- The Role of Gas and Renewables in a Decarbonized Energy System
- Update on Greenhouse Gas Emissions, Measurement, and Reporting along LNG chain

## TECHNOLOGY & INNOVATION

- Applying Circular Economy (CE) Concept to Improve Environmental Performance for a Sustainable Future
- Big Cities, Clean Air
- Gas to Provide an Economically Feasible Way to Speed Up Energy Transitions
- How Natural Gas Solutions can Help Implementation of Zero Carbon Transition
- Innovation of Gas and Renewables for a Cleaner Energy System
- LNG Liquefaction Technologies and Emissions Performance
- Technological Advances in Gas as a Transportation Fuel
- Technologies Development for Minimizing GHG Emission and for Ensuring the Introduction of Renewable Gases
- The Impacts of COVID-19 Pandemic On Technologies and Innovation of Gas Industry
CALL FOR PAPERS SESSION TOPICS

POLICY, STRATEGY, MARKETING

INDUSTRY

Cleaner Energy: Which Role Will New Gases Like Hydrogen, Biogas or Syngas Play in the Future?

COMMUNICATING A COMPELLING ENERGY VISION

Disruptive Innovation Needs Disruptive Marketing

ENERGY ACCESS - WHERE CAN GAS BE THE SOLUTION?

Energy Policy and its Influence on the Use of Natural Gas

Gas Players’ Strategies in the Changing Business & Market Environments

Market Liberalization and Price Deregulation

NO SUCCESSFUL CLIMATE POLICY WITHOUT AN INCREASE IN ENERGY EFFICIENCY. WHAT DOES THIS MEAN FOR GAS?

The Role of Financial and Tax Policies for Successful Natural Gas Development

INSIGHTS

Using Social Media to Engage Stakeholders

Who will Facilitate and Fund Energy Access?

“WGC provides a unique platform for policymakers and industry to congregate and discuss the current and future global sustainable energy needs.”

- WGC 2018 delegate
# CALL FOR PAPERS SESSION TOPICS

## NEW TECHNOLOGY, R&D

### INDUSTRY INSIGHTS
- Advances in GHG Emissions Reduction and Renewable Gases in Transmission Systems
- De-Carbonization: The Role of Gas Technologies Toward a Low Carbon Society
- Decentralization: The Role of Gas Technologies to Realize Resilient, Robust, and Smart Society
- Game Changing Technologies Evolving LNG Business
- Gas Alternatives to Electrification: Affordably Reducing Residential Emissions
- Social Value Creation for Transmission System Operators (TSOS) and Stakeholders
- Future Proofing: Next Generation Gas Technologies in The Digital Home
- Implementing Cutting Edge Technologies: Digitalization
- Implementing Cutting Edge Technologies: Mix-Gases
- IOT And AI: The Two Allies to Optimize Risks and Costs in Gas Transmission Networks

## MARKETS, POLICY, STRATEGY

### TECHNOLOGY & INNOVATION
- Build an Employee Brand that Wins the War on Talent
- Impact of Environmental Policies on Natural Gas Pricing
- Impacts of Natural Gas Distributed Energy System (NGDES) on Gas Affordability
- Innovations in Gas Transmission Networks: A Booster for the Energy Markets Flexibility
- Successful Climate Policy with Increased Energy Efficiency - Real Projects, Real Solutions with Gases
**WGC 2021 IGU GLOBAL GAS AWARD**

The IGU Global Gas Award was established in 2008 with an objective to contribute towards the progress of the gas industry through promoting innovation and sustainability. The theme for 2021 Global Gas Award is *“The Role of Natural Gas in Powering More Sustainable Energy Futures”*.  

The best project, selected by the IGU Judging Panel, demonstrates an understanding of the in-depth challenges faced in the energy sector. It provides insight, innovation and pragmatic approaches that demonstrate how the greater adoption of natural gas can deliver positive societal benefit by overcoming these challenges. This competition is open to IGU members only.

**WGC 2021 INNOVATION AWARDS**

The natural gas industry is building on a foundation and legacy of cutting edge technology. The competition was launched in 2018, with the WGC 2021 Innovation Awards celebrating the next major innovations in gas industry technology.

During the Call for Papers submission process, applicants will have the option for their abstract to be considered for the WGC 2021 Innovation Awards. The RD&I Committee will select a winner for each of the 5 categories. All winners are then put forward for the WGC 2021 Industry Choice Award, voted for by industry professionals online.

A dedicated Awards Ceremony session will showcase award winners and their innovations at WGC 2021, taking place in the Technology and Innovation Session on the exhibition floor. Each category award winner will prepare a 5-7 minute presentation or live demonstration for this session. The winner of the WGC 2021 Industry Choice Award will be announced during the Awards Ceremony at the 28th World Gas Conference.

For more information about both awards please visit [www.wgc2021.org](http://www.wgc2021.org)
DAEGU, KOREA – ENERGY & CULTURE

WGC 2021 will take place at EXCO (Daegu Exhibition & Convention Centre), Korea’s leading, purpose-built and world-class exhibition and convention venue.

Home to the KOGAS headquarters and the city where Samsung started, Daegu is focused on being a city of future-oriented and advanced technologies. A center of cultural arts full of attractions, entertainments, food and festivals throughout the year.

CONTACT US TO PLAN YOUR PARTICIPATION IN WGC 2021

CONFEERENCE
info@wgc2021.org

EXHIBITION
exhibition@wgc2021.org

SPONSORSHIP
sponsorship@wgc2021.org