International Gas Union
44 Southampton Buildings
London, WC1 1AP
United Kingdom

World Gas Conference 2028 Call for Abstracts

The 30th World Gas Conference (WGC2028) will bring together global leaders, industry executives, and key decision-makers in London on 15-18 May 2028. Under the theme **Driving Human Progress and Global Growth**, the WGC2028 Call for Abstracts invites contributions from experts and leaders across the global Gas industry, as well as innovators with technical solutions that could be applied to the wider energy sector. We are seeking original research, insights and practical experience that advance discussion around the role of Gas in supporting energy security, sustainability, prosperity, innovation and more.

The IGU Coordination Committee will select presentations and posters from abstracts submitted to http://www.worldgasconference.org/call-for-abstracts. The IGU Coordination Committee will consider all abstracts which align with the selected themes and are submitted before the **18 June 2027** deadline.

Early submission is particularly important to ensure committee members have sufficient time for evaluation and selection.

WGC2028 IGU Secretariat:
Menelaos (Mel) Ydreos, IGU Secretary General and Conference Chair mel.ydreos@igu.org
Marcus Gurske, WGC2028 Executive Director marcus.gurske@wgc2028.com
Simon Polledri, IGU Director Flagship Events simon.polledri@igu.org

THEMES

Submissions are welcome for consideration on the following key themes. A primary choice of theme is required.

1. **Building a Safe and Reliable Low Emission Energy System**
    - Delivering safe and reliable low-emission assets through engineering excellence.
    - Cost, risk, and lifecycle management of conversion projects.
    - Digital collaboration models between the Gas and intermittent renewable electricity sectors.
    - Legal and operational framework for hydrogen and CO_2 transport.
    - Hybrid energy systems combining Gas and renewables.
    - Optimisation of existing Gas infrastructure, integrating low-emission gases.

2. **Emissions Management**
    - Operational excellence approaches that reduce emissions and improve near zero performance.
    - Methane emissions abatement, monitoring and leak detection technologies.
    - Digital tools for emissions tracking, reporting and verification.
    - Carbon accounting, certification and transparency frameworks.
    - Innovative approaches to reduce the environmental impact of Gas assets, including venting and flaring reduction.
    - Biomethane and synthetic gas as circular feedstocks.
    - Environmental optimisation in transport fuels such as LNG bunkering or CNG.

3. **Resilient Global Supply Chains: Upstream, Storage and LNG Innovation**
    - Modular and floating LNG technologies for flexible deployment and the potential for small-scale LNG terminals.
    - Cryogenic storage efficiency and safety advancements.
    - Supply chain resilience and diversification strategies.
    - Innovation to extend the asset lifecycle - for example in major fields or existing infrastructure.Strategic LNG reserves, underground or large-scale storage concepts, and cross-border LNG sharing mechanisms.

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4. **Advances in Operations through Digital Innovation**
    - Robotics and automation for operations and construction.
    - IoT-driven operational intelligence and energy efficiency.
    - New technologies to improve real-time monitoring and operations.
    - Effective data integration across construction, maintenance, operations and customer services.
    - Workforce digital transformation, upskilling and change management

5. **Artificial Intelligence: Innovative applications in the Gas Industry**
    - AI-enabled predictive maintenance and asset performance management.
    - AI-enabled demand forecasting and network simulation.
    - From pilots to production: AI operating at scale across the gas value chain.
    - Analytical and generative AI for asset integrity, performance and reliability.
    - AI for methane, emissions and the low-emission molecule.
    - AI for markets, customers and integrated energy systems.
    - From copilots to autonomous agents: AI-driven design, operations and maintenance.
    - Foundations of AI success: workforce adaptation, data governance and company-owned models.

6. **Asset Construction and Operation Themes**
    - Methodologies to extend the asset's lifetime and lifecycle performance.
    - Use of satellite data in asset operation and construction.
    - Drones and remote video surveillance in network operations.
    - Advanced technologies and best practices to further reduce environmental impacts.
    - Enhanced safety best practices.
    - Excellence in infrastructure construction: successful transition from pilot projects to operational implementation.

7. **Carbon Capture, Utilisation and Storage (CCUS)**
    - CCUS integration across upstream and midstream operations.
    - The role of shipping in long-range CO_2 transportation.
    - The potential of BioCO2.
    - Unlocking value through CCUS: new markets and new business models.
    - Repurposing of existing upstream assets in CCUS projects.

- Turning ambition into impact: large-scale CCUS success stories.
- Ensuring integrity across the CO_2 value chain.

8. Emerging Technologies for Gas Production and New Gas Markets

- Market design linked to renewable Gas: biomethane, renewable fuels of non-biological origin, e-methane or synthetic fuels.
- Gas power generation for new industries such as data centres.
- Opportunities for new Gas markets.
- Low-emission gases: production scale-up and grid/market integration.
- Moving to Gas: case studies and lessons learned from innovative fuel-switching projects.
- Sector coupling: innovative and cost-effective technologies for renewable and low-emission gas production, including pyro-gasification and hydrothermal gasification.

9. Security and Resilience: Managing Digital Infrastructure

- Cybersecurity architecture for critical Gas infrastructure.
- Compliance with new cyber rules (NIS2, Cyber Resilience Act).
- How to detect, deter and respond to evolving cyber threats in automation systems, including the role of post-quantum cryptography in OT systems.
- AI to protect OT and IoT environments.
- IT and OT convergence: opportunities, challenges and cybersecurity impacts.
- Secure data exchange in SCADA and IoT environments.
- Building resilience against physical-digital threats.
- Standards and collaboration for global energy cybersecurity.
- Disaster preparedness and recovery.
- Business continuity management.

10. Natural Gas Value Creation

- Regional deep dives:
  - Policies and Regulation; Supply & Demand
  - Integration market opportunities ; Advocacy
  - Renewables Market ; CCS/CCUS – Stage of discussion in the region
  - Opportunities for Natural Gas growth

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REQUIREMENTS FOR ABSTRACT SUBMISSIONS

- Submissions must be in English.
- Submissions should be a maximum of 500 words in length (excluding title and author details).
- Submissions must clearly indicate all authors as well as their full name, affiliation, e-mail address, and country.
- The abstract submission title must clearly and succinctly convey the abstract content.
- The abstract must present original work, research or findings relevant to the WGC2028 Call for Abstracts themes.
- Authors must disclose whether any of the work, research or findings described in the abstract have previously been submitted, published or presented at another conference or event. Such disclosures will be reviewed by the WGC2028 Steering Committee, which reserves the right to determine eligibility.
- The author agrees that the abstract will not be published anywhere prior to WGC2028, unless expressly authorised by the WGC2028 Steering Committee or made available to WGC2028 delegates by the event organisers..
- The abstract must be relevant to the WGC2028 CFA themes listed above.
- Submission must be made before 18 June 2027 deadline.
- Abstract submissions must be written by the author(s) and should not be generated using AI tools or language models. Any submissions suspected of having been generated by AI may be subject to review and could be disregarded.
- Selected papers will be archived on the IGU members portal for member access following the WGC2028 event.

ABSTRACT STRUCTURE AND STYLE

- The abstract should include the following sections: background/context, objectives/research question, methodology/approach, key findings or expected results, conclusion/relevance.
- The name of the lead author is presented first, followed by each other co-authors name.
- The abstract title must use Title Case.
- The abstract must not exceed 500 words.
- No images, graphs, charts, or tables are permitted in the abstract submission.
- Please include 3 -5 keywords that reflect the main topics and key themes of your abstract.
- Spell out all abbreviations to ease the review process.
- Brand names are not permitted and should only be used to describe a clearly differentiated product or service.

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PREPARATION BEFORE SUBMISSION

- Prepare your submission as per the guidelines and format listed above.
- Review all themes, topics, and descriptions.
- Attach a short biography (maximum 100 words) that summarises your current position, educational qualifications, brief career details, and major career achievements.
- Attach a high-resolution headshot (head and shoulders only) in JPEG format. The image should be no larger than 2MB.
- Prepare information of all co-authors. This includes first and last name, job title, company, country, phone number and email, as well as a short biography and a profile picture of the speaker.

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ABSTRACT SUBMISSION WALKTHROUGH
Click to see the walkthrough

OTHER INFORMATION

- Please ensure that all requested details are provided and hit the SUBMIT FOR REVIEW button to guarantee successful submission of the abstract.
- The author who submitted the abstract will receive an abstract submission confirmation e-mail on successful submission of their abstract. The same message will be stored within the platform under the abstract submission.
- The decision of the IGU Coordination Committee is final.
- If the abstract is accepted, the presentation will be delivered by only one presenter at WGC2028.
- IGU Members that submit an abstract and are selected to present will receive a complimentary delegate pass as part of the added value of IGU Membership. (Individuals must be direct employees of the IGU Member)
- Non-profit entities are encouraged to submit abstracts and may receive support if their papers are selected.
- For any queries or further information please contact abstracts@wgc2028.com.

KEY DATES

- 16 November 2026 – Call for Abstracts opens
- 18 June 2027 – Call for Abstracts closes

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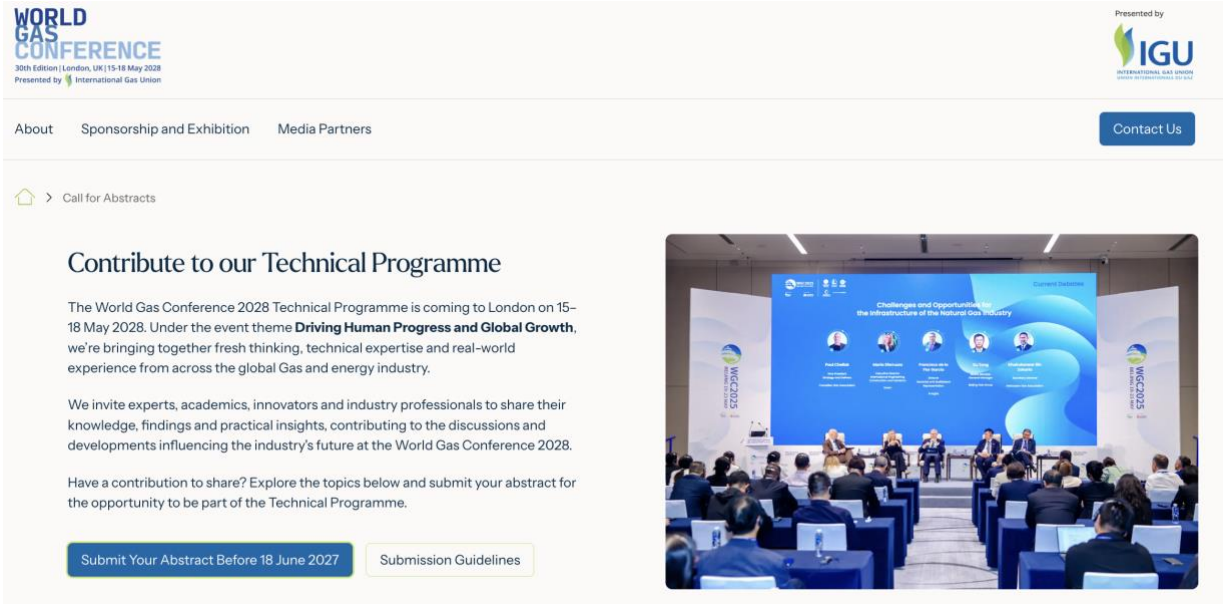
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Click on "**Submit Your Abstract Before 18 June 2027**".

It will lead you to the submission portal.

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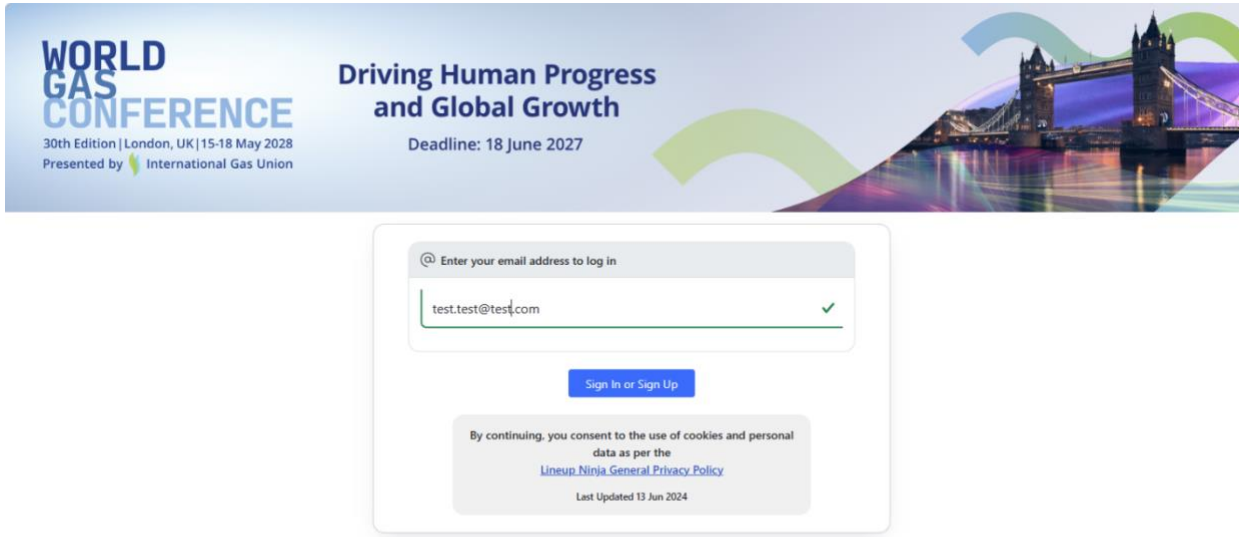
2. Emissions Management

- Operational excellence approaches that reduce emissions and improve near zero performance.
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The first page will show you the abstract guidelines and themes for submission.

Please scroll down to the bottom of the page to continue and click "**Access Content Portal**"

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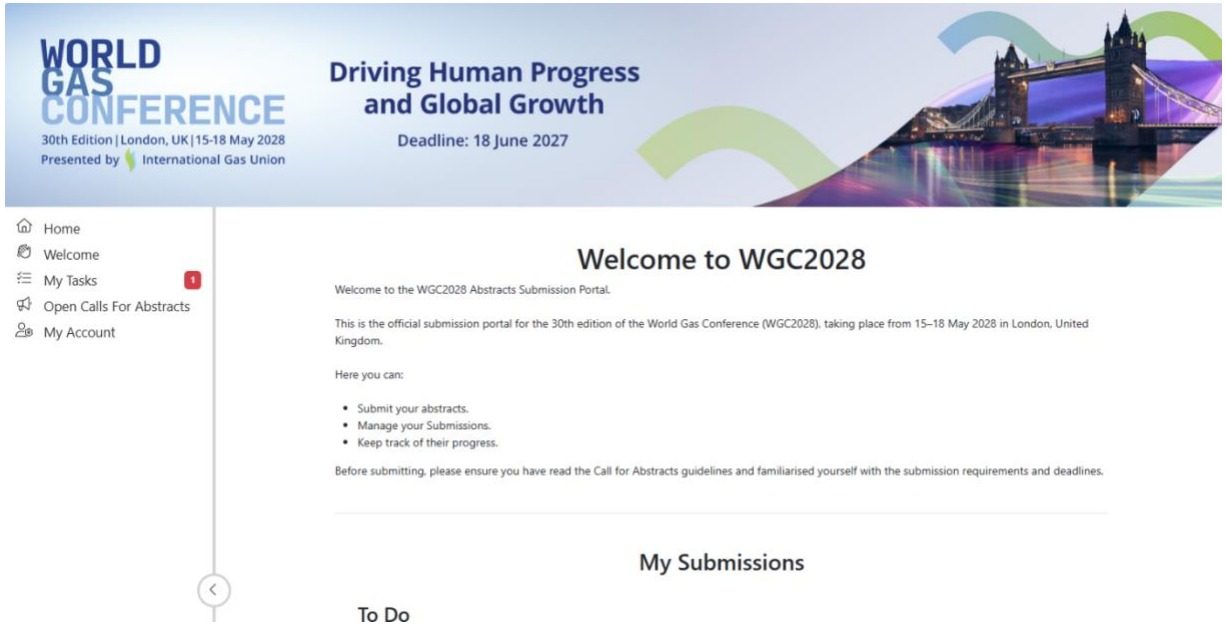
Enter the email address of the main contact for the submission and click "**Sign In or Sign up**".

Immediately after, the platform will send an email with the Login Link for the Submission platform. Do not forget to check your spam folder if you have not received an email.

Please click on the link or alternatively copy and paste the link in your browser.

Once you have logged in for the first time, you can update your profile and create a password to access the platform more easily in the future.

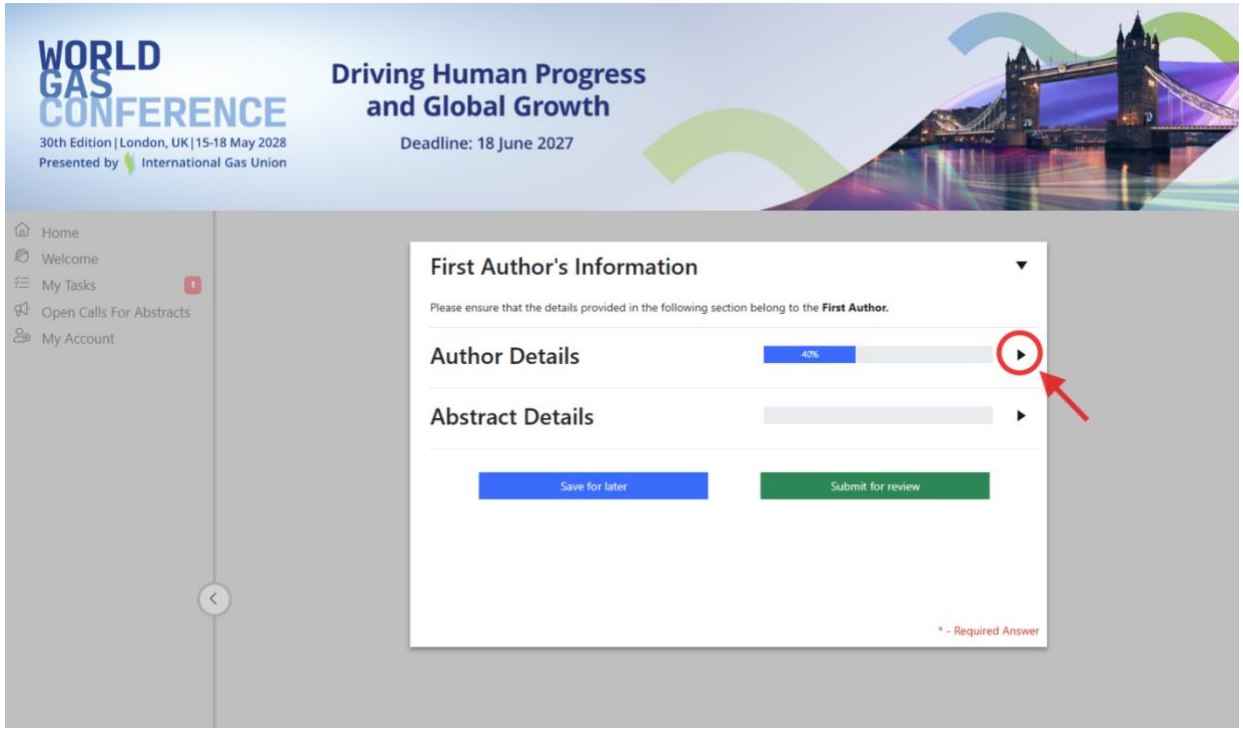
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After clicking on the link, you will be taken directly to the submission portal.

To start your abstract submission please see "**Open Call for Abstracts"** tab and click **"Start a New Submission".**

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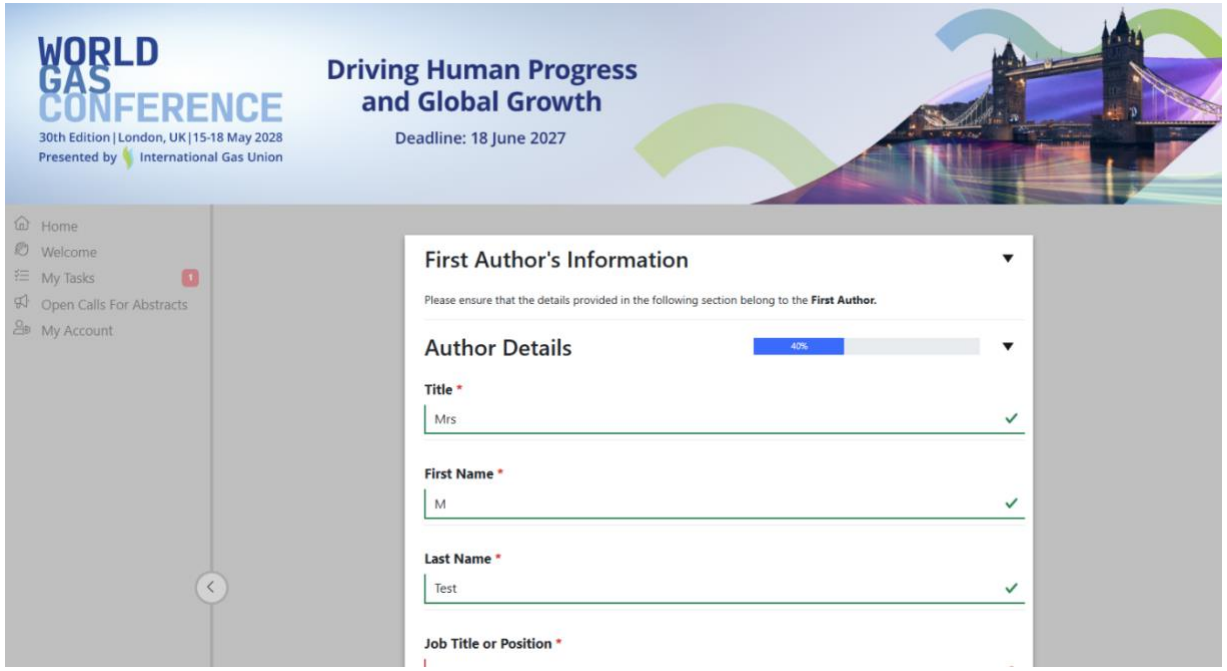


A "**First Author's Information**" submission window will pop up.

This section contains the details of the first author and must be completed before proceeding.

To fill in the author's details please do click in the arrow to expand the form.

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Proceed to fill in all the details for the first author.

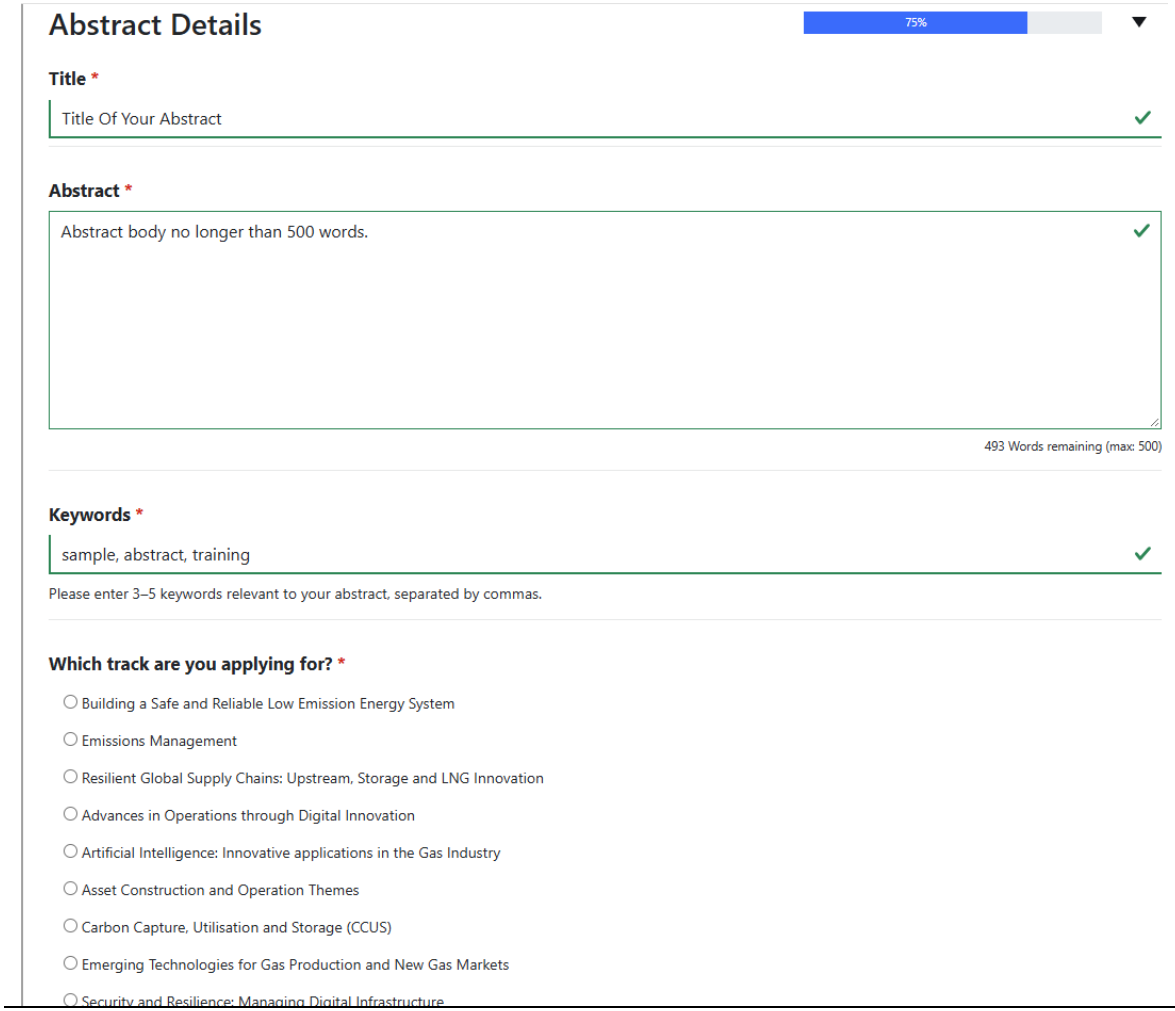
The first author should be entered first.

Additional authors can be added using the relevant option.

All author details should be checked carefully.

Authors should be entered in the correct order, as this may affect how they appear in the conference programme.

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You can then proceed with the abstract details.

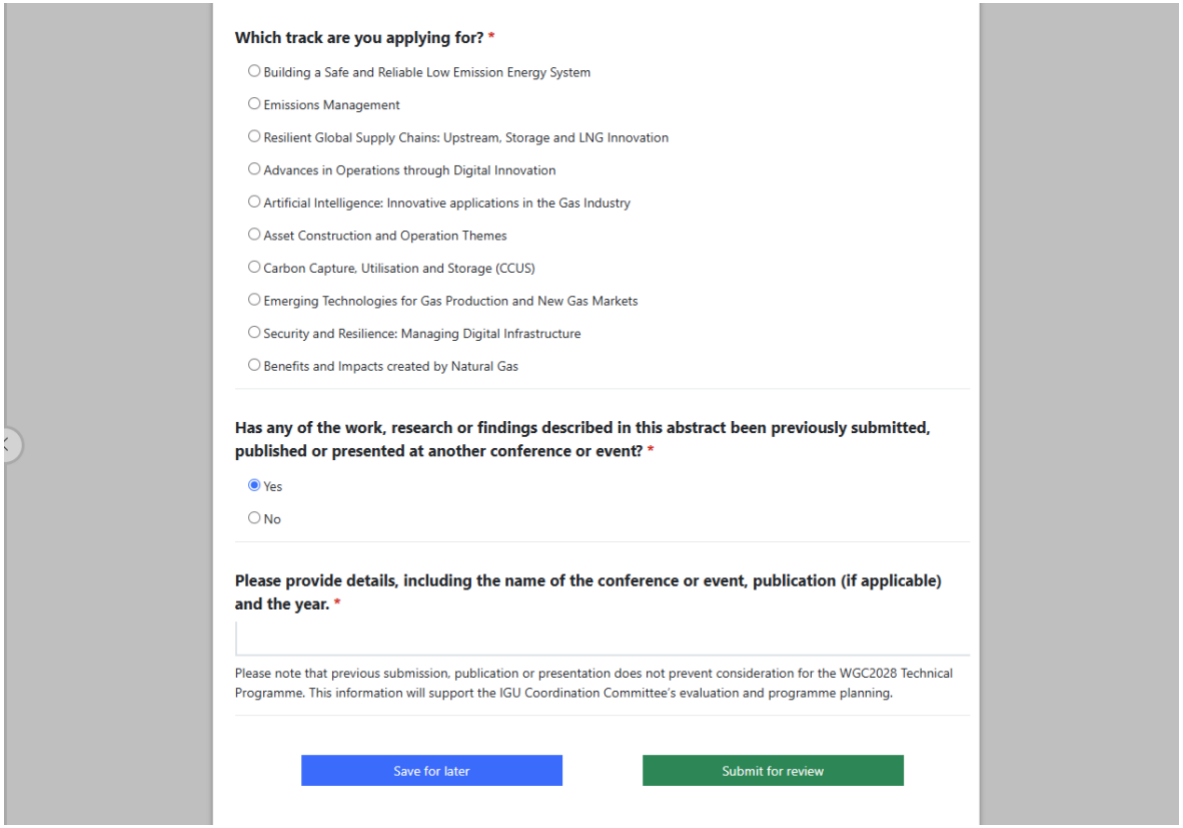
1. **Abstract title:** Enter the title in sentence case.
2. **Abstract body:** Copy and paste the abstract into the dedicated field.
3. **Word limit:** The abstract must not exceed 500 words.
4. **Authors:** Do not include the title or author names in the abstract body.
5. **Keywords:** Please provide 3–5 keywords that best describe the main topics and subject areas covered in your abstract.
6. **Technical theme:** Select the most appropriate theme for your submission.

Authors are encouraged to proofread their abstract before submission.

After selecting the relevant theme, please indicate whether the work, research or findings described in your abstract have previously been submitted, published or presented elsewhere.

Please note that previous submission, publication or presentation will not automatically prevent your abstract from being considered for the WGC2028 Technical Programme. This information will help the IGU Coordination Committee with its evaluation and programme planning.

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Scroll to the bottom of the page when finished and select **"Save for Later"** or **Submit for review".**

Save for Later: Saves the abstract as a draft. It has not yet been formally submitted for review.

Submit for Review: Completes the submission process and sends the abstract to the conference team for consideration.

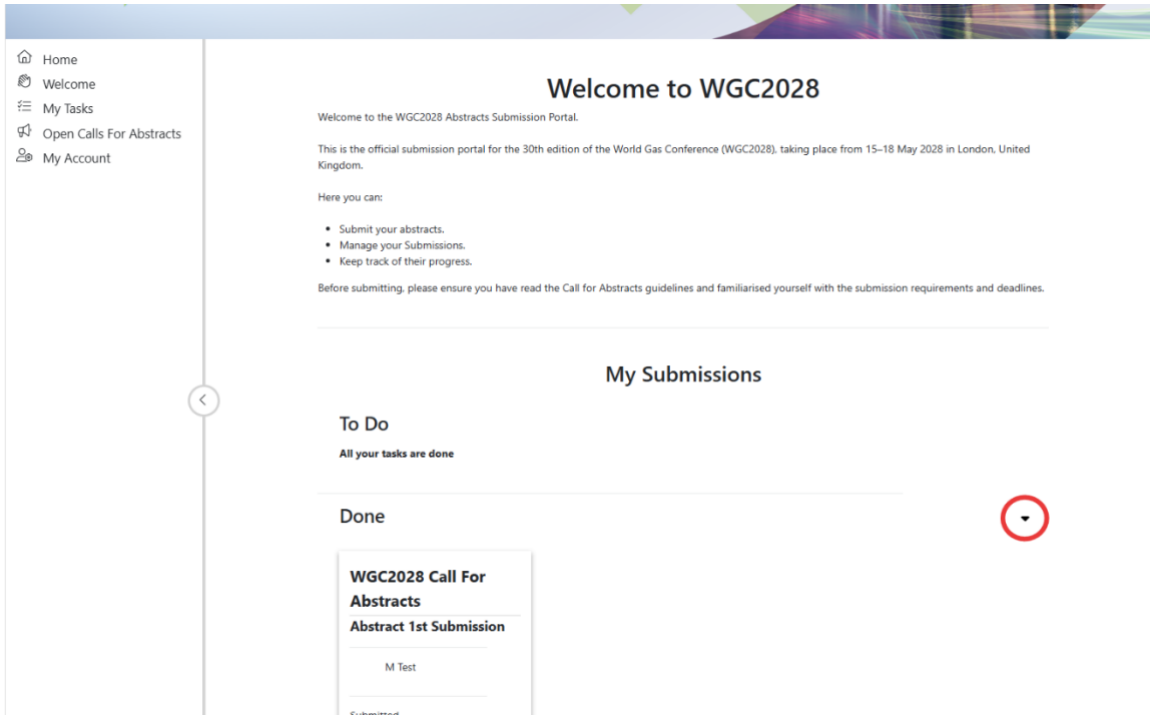
Before you click submit, please take a moment to do a final check:

Abstract title entered in sentence case ✓
Abstract text does not exceed 500 words ✓
Title and author names excluded from the abstract body ✓
All author details completed correctly ✓
Correct technical theme selected ✓
Abstract reviewed for spelling and accuracy ✓
Submit for Review selected (not Save for Later) ✓
Submission confirmation email received ✓

A message acknowledging the terms and conditions of the submission will pop up. Please confirm to finish the submission and to go back to review the information you have just submitted, scroll down and click **Done** or **Withdraw Submission**.

Shortly after finishing your submission, you will receive an email confirmation.

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Manage your submission
To review or withdraw a submission, go to the menu on the left-hand side and click on "**My Submissions"**.

You will see two sections: "**To Do"** and "**Done"**.

- **To Do:** Any submission you have started but selected **Save for Later** will appear here, allowing you to continue editing it.

- **Done:** All abstracts you have already submitted for review will appear here. To view them, click the arrow next to the **Done** section to expand the dropdown list.

To review or withdraw an already submitted abstract, expand the **Done** section and select the relevant submission.

If you wish to make changes to an abstract that has already been submitted, you must first **withdraw the original submission** and then submit a new version with the required modifications.

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