



**IAEA**

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Atoms for Peace  
and Development

# **30th IAEA Fusion Energy Conference (FEC 2025)**

**Chengdu, People's Republic of China**

**13–18 October 2025**

Organized by the  
**International Atomic Energy Agency (IAEA)**

Hosted by the  
**People's Republic of China**

through the  
**China Atomic Energy Authority (CAEA)**

**Announcement and Call for Synopses**

## A. Introduction

The International Atomic Energy Agency (IAEA) fosters the exchange of scientific and technical results in fusion energy research, development, and demonstration through its series of Fusion Energy Conferences. The 30th IAEA Fusion Energy Conference (FEC 2025) aims to provide a global forum for the exchange of scientific and technical results in fusion energy research and development on a range of themes, including experiments and theory for magnetic, inertial, and innovative confinement concepts, fusion technology and materials, and potential pathways to fusion energy.

According to the IAEA's Fusion Device Information System (FusDIS)<sup>1</sup>, as of 2025, there are almost 150 experimental fusion devices and testing facilities operating, under construction or being planned, and more than 20 fusion plant designs under development. Recent scientific and technical advances, coupled with a dynamic private sector, and the pressing concerns of climate change and energy security, have shifted the focus to addressing the remaining challenges. These include demonstrating the technological feasibility of fusion power and ensuring its safety and economic viability as a sustainable energy source.

The scope of FEC 2025 is, therefore, intended to reflect the priorities of this new era in fusion energy research, development, demonstration, and preparation to deployment. The conference aims to serve as a platform for sharing the results of research and development efforts in both the public and private sector, that have been shaped by these new priorities, and to thereby help in pinpointing worldwide advances in fusion experiments, theory, technology, engineering, materials, advanced concepts, safety, socioeconomics, and commercialization pathways. The conference will thus help in defining the way forward.

With the participation of international organizations as well as more than 50 countries and a great number of research organisations, academia, and private companies, it is expected that this conference will, like previous conferences in the series, serve to identify the possibilities and means for continuous and effective international collaboration in this area.

The 30th Fusion Energy Conference is being hosted by the China Atomic Energy Authority (CAEA) from 13 to 18 October 2025. Previous conferences in this series were held in Salzburg, Austria (1961), Culham, United Kingdom (1965), Novosibirsk, Russian Federation (1968), Madison, United States of America (1971), Tokyo, Japan (1974), Berchtesgaden, Germany (1976), Innsbruck, Austria (1978), Brussels, Belgium (1980), Baltimore, United States of America (1982), London, United Kingdom (1984), Kyoto, Japan (1986), Nice, France (1988), Washington DC, United States of America (1990), Würzburg, Germany (1992), Seville, Spain (1994), Montreal, Canada (1996), Yokohama, Japan (1998), Sorrento, Italy (2000), Lyon, France (2002), Vilamoura, Spain (2004), Chengdu, China (2006), Geneva, Switzerland (2008), Daejeon, Republic of Korea (2010), San Diego, United States of America (2012), Saint Petersburg, Russian Federation (2014), Kyoto, Japan (2016), Ahmedabad, India (2018), Nice, France (2021)<sup>2</sup>, London, United Kingdom (2023).

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<sup>1</sup> See IAEA Fusion Device Information System - FusDIS (2025), <https://nucleus.iaea.org/sites/fusionportal/Pages/FusDIS.aspx>

<sup>2</sup> Postponed from 2020 to 2021 and held online because of the global COVID-19 pandemic.

## B. Topics

(For further information, see Annex A – Topics)

- **OV** Overview
- **EX** Magnetic Fusion Experiments (including validation)
- **TH** Magnetic Fusion Theory and Simulation
- **TEC** Fusion Energy Technology
- **IFE** Inertial Fusion Energy
- **IAC** Innovative and Alternative Fusion Concepts
- **PWF** Pathways to Fusion

Contributions on these topics will be considered for presentation at the FEC 2025 if they are clearly relevant to the development of fusion energy (see the attached Annex B – Guidelines for Authors). A Programme Committee consisting of a representative international membership will be responsible for the selection of contributions, the arrangements of conference sessions and the overall scientific content of the conference. The Programme Committee will meet in May 2025 at the IAEA's Headquarters in Vienna, Austria, to finalize the technical programme for the conference.

Please be aware that because of the large interest within some countries in submitting contributions, official authorities in those countries may pre-screen the contributions to be submitted. Authors are advised to acquaint themselves with possible deadlines for this process at their earliest convenience.

## C. Participation and Registration

All persons wishing to participate in the event must be designated by an IAEA Member State or should be a member of an organization that has been invited to attend.

### Registration through the InTouch+ platform:

1. Access the InTouch+ platform (<https://intouchplus.iaea.org>):

- Persons with an existing NUCLEUS account can [sign in here](#) with their username and password;
- Persons without an existing NUCLEUS account can [register here](#).

2. Once signed in, prospective participants can use the InTouch+ platform to:

- Complete or update their personal details under 'Basic Profile' (if no financial support is requested) or under 'Complete Profile' (if financial support is requested) and upload the relevant supporting documents;
- Search for the relevant event (**EVT2306599**) under the 'My Eligible Events' tab;
- Select the Member State or invited organization they want to represent from the drop-down menu entitled 'Designating authority' (if an invited organization is not listed, please contact [Conference.Contact-Point@iaea.org](mailto:Conference.Contact-Point@iaea.org));
- If applicable, indicate whether a paper is being submitted and complete the relevant information;
- If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
- Based on the data input, the InTouch+ platform will automatically generate Participation Form (Form A), Form for Submission of a Paper (Form B) and/or Grant Application Form (Form C);

- Submit their application.

Once submitted through the InTouch+ platform, the application together with the auto-generated form(s) will be transmitted automatically to the required authority for approval. If approved, the application together with the form(s) will automatically be sent to the IAEA through the online platform.

**NOTE:** Should prospective participants wish to submit a paper or request financial support, the application needs to be submitted by the specified deadlines (see section N).

For additional information on how to apply for an event, please refer to the [InTouch+ Help](#) page. Any other issues or queries related to InTouch+ can be sent to [InTouchPlus.Contact-Point@iaea.org](mailto:InTouchPlus.Contact-Point@iaea.org).

If it is not possible to submit the application through the InTouch+ platform, prospective participants are requested to contact the IAEA's Conference Services Section via email: [Conference.Contact-Point@iaea.org](mailto:Conference.Contact-Point@iaea.org).

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

## D. Submission of Synopses

Anyone wishing to present a contribution during the conference must submit **a synopsis of maximum two pages (A4 PDF) including figures, tables, and references** (see the attached Annex B – Guidelines for Authors) through IAEA-INDICO. Instructions on how to upload the synopses will be made available on IAEA-INDICO in pdf format, which will be accessible through the IAEA conference web page (see Section P). All synopses must be submitted through this system **between 10 February and 16 March 2025, midnight** (Central European Time). Synopses submitted out of the submission time will not be considered under any circumstances. No other form of submission will be accepted.

**IMPORTANT:** The synopses will be considered by the Programme Committee only if governmental approval (designation) has been received by **25 April 2025**.

**10 February 2025**      Opening of synopses submission through IAEA-INDICO

**16 March 2025**      Deadline for submitting synopses through IAEA-INDICO

## E. Contributions, Manuscripts and Journal Articles

### E.1. Acceptance of synopses as contributions

Authors will be notified by email by **15 June 2025** as to whether their synopses have been accepted and, if so, in which format they are to be presented (i.e., overview oral, regular oral, overview poster or regular poster). They will also be informed of the assigned presentation session.

### E.2. Submission of manuscripts

**A manuscript must be submitted for each contribution.** Any contribution for which no manuscript is received by the given deadline will be removed from the conference programme. The deadline for

submission of the manuscripts as PDF files through IAEA-INDICO is **30 September 2025 midnight** (Central European Time). The IAEA will not accept submissions after the deadline.

Specifications and instructions for the layout of the full manuscript as well as for the preparation of posters will be posted on the IAEA web page for the conference (see Section P) in **June 2025**. The manuscript must be submitted through IAEA-INDICO and uploaded as a PDF file. IAEA-INDICO will be opened for submission of manuscripts on **30 June 2025 midnight** (Central European Time).

### Page limits for manuscripts

Overview orals and posters: 12 pages

Regular orals and posters: 8 pages

<b>15 June 2025</b>	Authors notified about the acceptance of their synopses and the format of presentations (specifications and instructions for the layout and electronic format of the full manuscripts, as well as for the preparation of posters, will be posted on the IAEA web page for the conference)
<b>30 June 2025</b>	Opening of manuscript submission through IAEA-INDICO
<b>30 September 2025</b>	Deadline for submitting manuscripts through IAEA-INDICO

Access to manuscripts through the IAEA-INDICO system will be provided to contributors one day prior the starting of the conference.

### E.3. Dissemination and publication routes

The IAEA will not be issuing proceedings of the 30th IAEA Fusion Energy Conference. Instead, synopses, presentation slides, posters and manuscripts compiled as “Conference Material” will be made available on the IAEA Fusion Portal (see Section P).

The primary publishing route is the IAEA *Nuclear Fusion* journal. Authors may, however, choose to leave the manuscript as the final record.

The online conference material will be updated in 2025 with links to the *Nuclear Fusion* journal articles, and digital object identifiers will be appended to the manuscripts as required.

#### E.3.1. Submission to *Nuclear Fusion* journal

##### E.3.1.1. Overview contributions

Authors of contributions within the categories of overview oral and overview poster are kindly requested to submit their manuscripts for publication in a dedicated special issue of the journal *Nuclear Fusion* to appear in 2026. Manuscripts should be submitted via <http://mc04.manuscriptcentral.com/nf-iaea> as soon after the conference as possible and by **27 November 2025** at the latest.

<b>27 November 2025</b>	Deadline for submitting overview oral and overview poster papers via <a href="http://mc04.manuscriptcentral.com/nf-iaea">http://mc04.manuscriptcentral.com/nf-iaea</a> for publication in <i>Nuclear Fusion</i>
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##### E.3.1.2. Other contribution categories

Authors of contributions within the category of regular oral and regular poster are also encouraged to submit their manuscripts to the *Nuclear Fusion* journal. The manuscripts must contain original work and should omit, or only briefly mention in the introduction, material that has already been published. Papers should be appropriate, in terms of style and content, for a high-quality scientific journal and will be subject to the standard double-referee peer review procedure observed by the editors of *Nuclear Fusion*. All communications with the authors regarding details for publication and charges will be handled by the *Nuclear Fusion* editorial office (email: [nf@iaea.org](mailto:nf@iaea.org)).

Authors will be contacted by the editorial office in **October 2025** to ascertain their intentions to further submit the conference manuscripts to *Nuclear Fusion*. Journal articles may be submitted via <http://mc04.manuscriptcentral.com/nf-iaea> at any time before **15 January 2026**.

Published articles will be indexed within the journal as IAEA Fusion Energy Conference papers and linked to the manuscript in the Conference Material.

**15 January 2026**      Deadline for submitting regular oral and regular poster papers via <http://mc04.manuscriptcentral.com/nf-iaea> for publication in *Nuclear Fusion*

## F. Post-Deadline Synopses

A limited number of post-deadline synopses will be accepted. To be considered, a synopsis must meet all of the following criteria:

- It deals with subject matter appropriate to this conference;
- It presents new experimental or theoretical data, or technological developments, of sufficient importance to attract wide-ranging interest among the conference participants obtained after the deadline for regular submissions; and
- It is submitted together with a completed Form for Submission of Contributions (Form B; see Section C) and an officially endorsed Participation Form (Form A; see Section C).
- **The synopsis should be a maximum of two pages (A4 PDF) including figures, tables, and references**, and should be submitted through IAEA-INDICO **between 15 June and 15 September 2025, midnight** (Central European Time).
- Authors will be notified by email by **3 October 2025** as to whether their synopses have been accepted and, if so, in which format they are to be presented (i.e., post-deadline oral or post-deadline poster). They will also be informed of the assigned presentation session. Authors of post-deadline contributions should be prepared to provide either an oral presentation or a poster. The manuscripts of post-deadline contributions will be included in the conference material and must follow the same guidelines as detailed in Section E.

**15 June 2025**      Opening of post-deadline synopses submission through IAEA-INDICO

**15 September 2025**      Deadline for submitting synopses for post-deadline acceptance through IAEA-INDICO

## G. Expenditures

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the conference. The IAEA has, however, limited funds at its disposal to help cover the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the conference.

If participants wish to apply for a grant, they should submit applications to the IAEA using the InTouch+ platform through their competent national authority (see Section H). Participants should ensure that applications for grants are:

1. Submitted by **25 April 2025**;
2. Accompanied by Grant Application Form (Form C); and
3. Accompanied by Participation Form (Form A).

Applications that do not comply with the above conditions cannot be considered.

Approved grants will be issued in the form of a lump sum payment that usually covers only part of the cost of attendance.

## **H. Distribution of Documents**

A preliminary programme of the conference will be made available on the conference web page (see Section P).

The final programme (**in electronic form only**) will be available free of charge upon registration at the conference. An app is also intended to be made available that will allow participants to access the programme and other conference-related details through their smartphones.

## **I. Working Language**

The working language of the conference will be English. No simultaneous interpretation will be provided. All communications and contributions must be sent to the IAEA in English.

## **J. Conference Venue and Accommodation**

The conference will be held in Chengdu, People's Republic of China. Participants must make their own travel and accommodation arrangements. Please note that the IAEA is not in a position to assist participants with hotel bookings, nor can the IAEA assume responsibility for paying cancellation fees or for re-booking and no shows.

## **K. Visas**

Participants who require a visa to enter the People's Republic of China should submit the necessary application to the nearest diplomatic or consular representative of the People's Republic of China at least four weeks before they travel to the People's Republic of China.

## **L. Satellite Meetings**

Details on how to arrange room reservations will soon be made available on the web page for the conference (see Section P).

## **M. Exhibitions**

Space will be available for commercial vendors' displays/exhibits during the conference (further information will be made available in due course on the IAEA's conference web page).



## N. Key Dates and Deadlines

### FORMS A, B AND C

**25 April 2025** Deadline for submitting Form B and/or Form C (together with Form A); no deadline if only Form A is submitted (see Section C)

### SYNOPSIS AND MANUSCRIPTS

**10 February 2025** Opening of synopsis submission through IAEA-INDICO

**16 March 2025** Deadline for submitting synopses through IAEA-INDICO

**15 June 2025** **Authors notified about the acceptance** of their contributions and in which categories (specifications and instructions for the layout of the full manuscripts, as well as for the preparation of posters, will be posted on the IAEA web site for the conference) **and opening of post-deadline submission through IAEA-INDICO**

**30 June 2025** Opening of manuscript submission through IAEA-INDICO

**15 September 2025** Deadline for submitting synopses for post-deadline acceptance through IAEA-INDICO

**30 September 2025** Deadline for submitting manuscripts through IAEA-INDICO

**3 October 2025** Authors notified about the acceptance of their post-deadline contributions and in which categories (specifications and instructions for the layout of the full manuscripts, as well as for the preparation of posters, will be posted on the IAEA web site for the conference)

### PUBLICATION

**27 November 2025** Deadline for submitting overview oral and overview poster papers via <http://mc04.manuscriptcentral.com/nf-iaea> for publication in *Nuclear Fusion*

**15 January 2026** Deadline for submitting regular oral and regular poster papers via <http://mc04.manuscriptcentral.com/nf-iaea> for publication in *Nuclear Fusion*

## O. Conference Secretariat

Subsequent correspondence on scientific matters should be sent to the Scientific Secretaries of the conference and correspondence on administrative matters to the IAEA's Conference Services Section.

### Scientific Secretaries:

**Mr Matteo Barbarino &  
Mr Danas Ridikas**  
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### Administration and Organization:

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## P. Conference Web Pages

Participants are encouraged to visit these web pages regularly to check for new or updated information regarding the conference:

IAEA conference web page:  
<https://www.iaea.org/events/fec2025>

Conference Material will be made available on the IAEA Fusion Portal:  
<https://nucleus.iaea.org/sites/fusionportal/Pages/fec-landing.aspx>

## Annex A – Topics

### **OV: Overview**

Keywords: Device overview, programme overview, topic overview

### **EX: Magnetic Fusion Experiments**

Keywords: Toroidal and Helical Configurations, Confinement, Stability, Performance, Wave-plasma Interactions, Current Drive, Heating, Energetic Particles, Plasma-material Interactions, Divertors, Limiters, Scrape-off-layer

### **TH: Magnetic Fusion Theory and Modelling**

Keywords: Confinement, Stability, Performance and Control, Wave-plasma Interactions, Current Drive, Heating, Energetic Particles, Plasma-material Interactions, Divertors, Limiters, Scrape-off-layer

### **TEC: Fusion Energy Technology**

Keywords: Control, Materials, Magnets, Engineering, System Integration, Radiation Transport and Activation, Safety, Maintenance and Remote Handling, Tritium Breeding, Fusion Nuclear Science and Technology

### **IFE: Inertial Fusion Energy**

Keywords: Experiments, Theory and Modelling, Materials, Power Plant Design, Targets, Drivers

### **IAC: Innovative and Alternative Fusion Concepts**

Keywords: Experiments, Theory and Modelling, Linear Configurations, Non-magnetic Configurations, Magneto-inertial Concepts, Hybrid Concepts

### **PWF: Pathways to Fusion**

Keywords: Fusion Plants (e.g., DEMO, Pilot Plants), Timelines, Roadmaps, Supporting Facilities, Partnership Frameworks, Commercialization, Supply Chains, Education and Training, Socio-economic and Environmental Aspects, Licensing

The keywords are indicative only and not limiting.

## **Annex B – Guidelines for the Authors**

- i. The synopses should be a maximum of two pages (A4 PDF) including figures, tables, and references.
- ii. The synopses are the main material used by the Programme Committee for selection.
- iii. The evaluation criteria are Impact, Novelty and Quality.
- iv. An active title that communicates the main achievements is helpful.
- v. The synopsis should clearly emphasize how the work described meets the criteria. It is recommended that there is a clear focus on results obtained, conclusions, and impact in the field.
- vi. Results obtained should be described and clearly stated at the beginning to assist the evaluation. Note that the PC work is conducted under strict confidentiality agreement.
- vii. Methodology and motivational statements are important but should not dominate the content of the synopsis.
- viii. The use of 2-3 figures in the synopsis can be very helpful in clearly communicating principal results.
- ix. The synopsis for overview contributions should provide a coherent analysis of a specific subject area, clearly showing cross references in the same FEC. Overview submissions will only be considered within this contribution category, i.e., overview oral or overview poster.
- x. Plans to undertake future productive analysis are welcome but cannot substitute for evidence of completed work.
- xi. Conference manuscripts are not peer reviewed publications and will be made available as Conference Material.
- xii. The Conference manuscript should be identified as a preprint, for example in its header or with a watermark – see <https://iopscience.iop.org/journal/0029-5515/page/conference-policy>