

# ENI AWARD 2022

## *Energy Transition Prize*

### OFFICIAL ANNOUNCEMENT

Eni is a global energy company operating in a responsible way towards its stakeholders in about sixty-eight countries along the entire value chain. It concretely supports a just energy transition for a net-zero carbon future, with the objective of preserving our planet and promoting an efficient and sustainable access to energy for all, pursuing a fair energy transition with respect to society and world's ecosystems. To this end, the 17 Sustainable Development Goals (SDGs) determined by the UN represent a common target and a guiding reference for managing activities in all those Countries in which it operates. Along this path, Eni has committed to becoming a leading company in the production and sale of decarbonised energy products and fosters several scientific research projects on renewable energy, hydrogen, CCUS, energy efficiency, energy storage and circular economy.

Eni invests in people and their empowerment, recognizing diversity as a key value for human development. From 2008 Eni has been granting the Eni Award, aimed to promote and award scientific research and technological innovation in the fields of energy and the environment. Special care will be devoted to proposals promoting breakthrough technologies, increased access to energy in developing countries and digital tools such as IoT, Machine learning, Big data management etc., able to improve and accelerate technology exploitation.

#### 1) Aims

The **Energy Transition Prize** is one of the six sections of the Eni Award, composed by the *Energy Frontiers*, *Advanced Environmental Solutions*, *Young Researcher of the Year* and the *Debut in Research: Young Talents from Africa Prizes*, together with the *Recognition at Innovation Eni*. The *Energy Transition Prize* aims to promote technological innovation and scientific knowledge in order to reduce carbon footprint during the transition period from the current energy production system to a neutral - with respect to environmental impact - one. In this time span, it will be necessary to improve energy efficiency in transport and in industrial processes, and to promote the use of sustainable and economically viable technologies for the capture, utilization and sequestration of carbon dioxide.

#### 2) Object of the Prize and evaluation criteria

The Prize is awarded to the researcher or group of scientists that achieved internationally significant research and development results in the field of capture, utilization and sequestration of carbon dioxide as well as of energy efficiency, such as:

- CO<sub>2</sub> Management:
  - Carbon Capture technologies
  - Carbon Capture and Storage (CCS)
  - Carbon Utilization (CCU) technologies including conversion to e-fuels, production of polymers and chemicals, mineralization etc.
  - Carbon Dioxide Removal routs such as BECCS, DACS, biochar, enhanced weathering etc.

- New H<sub>2</sub> production technologies (blue, green and turquoise H<sub>2</sub>)
- H<sub>2</sub> transportation including LOHC, Ammonia etc.
- New technologies to reduce the carbon footprint and improve energy efficiency in the production and transportation of natural gas (e.g. fugitive monitoring and prevention, sweetening, gas flaring reduction)
- New technologies for management of H<sub>2</sub>S associated with natural gas and for sulfur utilization
- Fuel cells
- Bio-fuels and related production processes

The following elements will be considered in the assessment of the project:

- The scientific relevance and the research innovation level;
- The impact on the energy system, in terms of sustainability as well as fairer and broader access to energy;
- The adequacy between technological and economical aspects;
- Solutions including breakthrough technologies and digital tools - IoT, Machine learning, Big data management, etc.;
- Long-term perspective.

The results must have been achieved within the five-year period prior to the date of this Official Announcement.

### **3) The Prize**

The Prize consists in a specially struck gold medal of the Italian State Mint and in the indivisible sum of €200,000 (Two hundred thousand Euros), which will be awarded to the winning candidate proclaimed by the Organizing Committee within June 2022.

An Official Prize-Giving Ceremony will be held in Rome during the second semester of the year following the publication of the Official Announcement. Eni will grant hospitality for winners participating to the Ceremony plus a maximum of one accompanying person. Hospitality will include travel tickets to reach Rome, transfers, board and lodging expenses during the period of the Ceremony up to 2 overnight stays.

### **4) Procedures and deadline for the Candidature Proposal**

Candidatures to the *Energy Transition Prize* shall compulsorily enclose the scientific publications containing the research proofs and results (see Point 7 of the Candidature Proposal).

Self-candidatures are admitted.

Furthermore, it is required and mandatory for each candidate the submission of at least three reference letters in order to complete the application. A maximum amount of five reference letters will be allowed to each Candidate; of these five letters, no more than two may be sent from the same country.

They have to be compulsorily written in English and to refer explicitly to the 2022 Eni Award edition; these documents should be signed by authoritative Members of the academic, scientific or business community.

Please note that will be considered only those letters that will certify the scientific value, the innovation level and the potential applicability of the submitted research.

Such documents can be sent by email, fax or ordinary mail to the Eni Award Scientific Secretariat within the deadline stated by this Official Announcement.

The same Candidature may be submitted for a maximum of three times. In case of resubmissions, even if the Candidature is presented in nonconsecutive editions, together with the reasons of the resubmission the

Candidate will compulsorily provide detailed and convincing information enabling to identify the scientific, technical and practical progress.

These results must be properly demonstrated (providing new publications, reference letters, certificates by a third party, etc.). The compliance with these requirements and the eligibility of the proposal will be evaluated in advance by the Eni Award Initial Selection Committee and the Scientific Commission.

The deadline for the presentation of the Candidatures to the *Energy Transition Prize* falls on November 26, 2021 before and no later than 5 p.m. CET - Central European Time. Please note that, after 5 p.m. CET of November 26, 2021 the Scientific Secretariat won't create new accounts, in order to provide the most suitable assistance to the already registered Candidatures, within the deadline.

Two weeks after the November 26 deadline, the Scientific Secretariat will provide the Candidates with formal confirmation, by email, for the acceptance of their Candidature.

The candidature application forms are available on the website: <https://www.eni.com/en-IT/scientific-research/eni-award.html> and must be sent as follows:

1. The **Candidature Proposal**, the **CV** and the **List of Publications** will have to be uploaded on the Eni Award Candidates private area. The access to the private area must be requested to the Eni Award Scientific Secretariat ([eniaward@feem.it](mailto:eniaward@feem.it)) that will provide an account for the procedure.

2. **A copy of the most relevant publications** regarding the results of the research (as requested at Point 7 of the Candidature Proposal), as well as **reference letters** must be sent to the following address: repository-[eniaward@feem.it](mailto:eniaward@feem.it).

3. Following the safe receipt of all the application's documents, a file named **Summary of the Candidature Proposal**, containing the main data of the candidature and the Completion Code, will be provided to each candidate.

The aforesaid file must be duly checked and signed by the candidate and sent by email ([eniaward@feem.it](mailto:eniaward@feem.it)) or, alternatively, by fax to the Eni Award Scientific Secretariat before and no later than the deadline defined by this Official Announcement.

## 5) Selection of the Candidatures

The Eni Award Scientific Commission shall examine and select the work of the candidates that have been accepted and shall present the name of the chosen winner of the *Energy Transition Prize* to the Eni Award Organizing Committee by May 2022.

The Scientific Commission is constituted by a maximum number of 27 Members chosen by the Organizing Committee among representatives of the international scientific community.

## 6) Regulations

The Eni Award and this Official Announcement are submitted to the Eni Award Regulations, approved by the Organizing Committee. The text is available on the website: <https://www.eni.com/en-IT/scientific-research/eni-award.html>.

## **7) Contact details**

The Eni Award Scientific Secretariat is located at:

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Rome, 29 July 2021