



award

ENI AWARD 2022

CANDIDATURE PROPOSAL

1. TITLE OF THE RESEARCH

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2. PRIZE SECTION

Please select **one Prize only** (by crossing one box in the left column) and **one or more sub-topics describing** your research (in the right column).

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| <input type="checkbox"/> Energy Frontiers | <input type="checkbox"/> Renewable energy sources: <input type="checkbox"/> Photovoltaics <input type="checkbox"/> Concentrated Solar Power <input type="checkbox"/> Eolic <input type="checkbox"/> Geothermal <input type="checkbox"/> Hydroelectric <input type="checkbox"/> Waves/Tides/Currents <input type="checkbox"/> Thermoelectric <input type="checkbox"/> Mechanical Energy Harvesting <input type="checkbox"/> Energy Management: <input type="checkbox"/> Smart Grids <input type="checkbox"/> Renewable Energy Efficiency (Solar Cooling, NZEB...) <input type="checkbox"/> Energy storage: <input type="checkbox"/> Electrical Storage <input type="checkbox"/> Thermal Storage <input type="checkbox"/> Mechanical Storage <input type="checkbox"/> Physical and chemical storage <input type="checkbox"/> Fuels and chemicals from solar energy <input type="checkbox"/> Nuclear Fusion <input type="checkbox"/> Other (please specify: _____) |
| <input type="checkbox"/> Advanced Environmental Solutions | <input type="checkbox"/> Environmental Monitoring <input type="checkbox"/> Environmental Protection <input type="checkbox"/> Environmental Remediation: <input type="checkbox"/> Urban area remediation & valorisation <input type="checkbox"/> Industrial area remediation <input type="checkbox"/> Oil spill remediation <input type="checkbox"/> Emerging contaminants and TENORM remediation <input type="checkbox"/> Groundwater remediation-innovative approaches and technologies <input type="checkbox"/> Marine littering <input type="checkbox"/> Ecosystem Restoration <input type="checkbox"/> Circular economy: <input type="checkbox"/> Plastic recycling <input type="checkbox"/> Waste recycling/valorisation (no waste to fuel) <input type="checkbox"/> Assets reuse |

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| | <input type="checkbox"/> "Green" chemicals and polymers <input type="checkbox"/> Water treatment: <ul style="list-style-type: none"> <input type="checkbox"/> Wastewater treatment <input type="checkbox"/> Water harvesting <input type="checkbox"/> Water reuse <input type="checkbox"/> Desalination and brine management <input type="checkbox"/> Water purification <input type="checkbox"/> Produced water management <input type="checkbox"/> Nature Based Solutions <input type="checkbox"/> Sustainable agriculture: <ul style="list-style-type: none"> <input type="checkbox"/> Food security <input type="checkbox"/> Production of industrial crops <input type="checkbox"/> Resilient solutions to climate change <input type="checkbox"/> Other (please specify: _____) |
| <input type="checkbox"/> <i>Energy Transition</i> | <input type="checkbox"/> CO ₂ Management: <ul style="list-style-type: none"> <input type="checkbox"/> Carbon Capture technologies <input type="checkbox"/> Carbon Capture and Storage (CCS) <input type="checkbox"/> Carbon Utilization (CCU) technologies including conversion to e-fuels, production of polymers and chemicals, mineralization etc. <input type="checkbox"/> Carbon Dioxide Removal routes such as BECCS, DACS, biochar, enhanced weathering etc. <input type="checkbox"/> New H ₂ production technologies (blue, green and turquoise H ₂) <input type="checkbox"/> H ₂ transportation including LOHC, Ammonia etc. <input type="checkbox"/> 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) <input type="checkbox"/> New technologies for management of H ₂ S associated with natural gas and for sulfur utilization <input type="checkbox"/> Fuel cells <input type="checkbox"/> Bio-fuels and related production processes <input type="checkbox"/> Other (please specify: _____) |

3. SUBMISSION TO THE ENI AWARD

Please indicate if the same research is being submitted by the same Candidate for the first time or not:

First time submission

Re-submission

Please state in which edition(s) of the ENI AWARD(s) it has been submitted: _____

3.1. IN CASE OF RESUBMISSION: JUSTIFY THE REASONS FOR THE RESUBMISSION IN THIS EDITION BY HIGHLIGHTING THE NEW DEVELOPMENTS ACHIEVED SINCE LAST SUBMISSION – 1000 characters maximum, spaces included.

4. MAIN AUTHOR(S) ACCOUNTABLE FOR THE RESEARCH RESULTS (MAXIMUM TWO NAMES)

If awarded, **only the one/two main representative(s)** of the Candidature (to be listed hereunder at Point 4) will be included in the Prize-Giving Ceremony and related media release events.

| | |
|----------------------------|--|
| SURNAME | |
| FORENAME | |
| PLACE OF BIRTH | |
| DATE OF BIRTH | |
| NATIONALITY | |
| PLACE OF EMPLOYMENT | |
| POSITION | |
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5. SECONDARY AUTHOR(S) OF THE RESEARCH RESULTS (IF ANY)

In case of two or more secondary authors, please copy and paste the section below.

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|----------------------------|--|
| SURNAME | |
| FORENAME | |
| PLACE OF BIRTH | |
| DATE OF BIRTH | |
| NATIONALITY | |
| PLACE OF EMPLOYMENT | |
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| TELEPHONE | |
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6. DESCRIPTION OF THE RESEARCH RESULTS

Each of the following paragraphs has to be filled with the appropriate content. Please note that a **mandatory total limit** of allowed **characters** has been fixed at **4500**, spaces included.

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| CONTEXT | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
| OBJECTIVES, SCOPE | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
| METHODS, PROCEDURES/ PROCESSES, RESULTS | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
| SCIENTIFIC/ TECHNICAL NOVELTY | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |

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| <p style="text-align: center;">INDUSTRIAL APPLICABILITY</p> | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
| <p style="text-align: center;">ECONOMIC AND SOCIAL BENEFITS</p> | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |

6.1. BRIEF EXPLANATION OF THE STATE OF THE ART IN THE FIELD IN WHICH THE RESEARCH RESULTS HAVE BEEN ACHIEVED - six lines maximum allowed.

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6.2 PERSONAL CONTRIBUTION OF THE CANDIDATE TO THE STATE OF THE ART IN THE FIELD IN WHICH THE RESEARCH RESULTS HAVE BEEN ACHIEVED – six lines maximum allowed

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7. LIST FROM ONE (minimum) TO FIVE (maximum) PEER-REVIEWED PUBLICATIONS (EXCLUDING REVIEWS AND PATENTS), CONTAINING THE RESULTS OF THE RESEARCH PRESENTED WITH THIS CANDIDATURE AND AUTHORED BY THE MAIN SCIENTIST(S) (see Point n° 4). THE AFORESAID PUBLICATIONS HAVE TO BE SENT IN ELECTRONIC COPY AS MENTIONED IN THE OFFICIAL ANNOUNCEMENT:

(PLEASE STATE TITLE, AUTHOR, DATE, JOURNAL, VOLUME/ISSUE and EDITOR for each publication)

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8. LIST FROM THREE (minimum) TO FIVE (maximum) REFERENCE LETTERS. THE REFERENCE LETTERS HAVE TO BE SENT IN ELECTRONIC COPY AS MENTIONED IN THE OFFICIAL ANNOUNCEMENT

(PLEASE STATE NAME, SURNAME, POSITION AND AFFILIATION for each author)

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N.B.:

a. Candidatures must be compulsorily presented in English.

b. The Candidature, CV and list of publications must be sent to the Scientific Secretariat **before 26 NOVEMBER 2021 no later than 5.00 pm CET (Central European Time)**, as requested in the Official Announcement.

ENI AWARD SCIENTIFIC SECRETARIAT

Fondazione Eni Enrico Mattei

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website: <https://www.eni.com/en-IT/scientific-research/eni-award.html>