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Omar Yaghi wins 2018 Eni Energy Transition Award

July 23, 2018



Rome, Italy
23 July, 2018

Eni (https://www.eni.com/en_IT/home.page) has announced the winners of the 11th edition of the Eni Award. The award was established in 2007, and has become an international point of reference for research in the energy and environmental sectors. The Eni Award aims to reflect the importance of scientific research and innovation, promoting a better use of energy sources and encouraging a new generation of researchers.

The *Energy Transition Award*, one of the three main awards, is awarded for exceptional innovation in the hydrocarbon sector towards the decarbonization of the energy system. This year's recipient is Omar M. Yaghi (<https://chemistry.berkeley.edu/faculty/chem/yaghi>) from the University of California, Berkeley, one of the most brilliant scientists working in the field of crystalline-porous solids research. Yaghi is known for the discovery and development of metal-organic frameworks (MOFs) and covalent organic frameworks (COFs). He has demonstrated their use in ultra-high methane storage, selective separation and storage of CO₂ from combustion gases, and harvesting water from desert air which is considered a groundbreaking application.

The award ceremony will take place at the Palazzo del Quirinale on October 22nd. The President of the Italian Republic, Sergio Mattarella will be in attendance.

About Eni

Eni is a global oil and gas producer – operating in 71 countries worldwide employing around 33,000 people. Eni is consistently ranked among the top 150 companies on the Fortune Global 500 list according to revenue. Our integrated approach to business is focused on contributing to the development of the countries in which we work. Our firm's belief, which dates back to the time of our founder Enrico Mattei, is that oil-producing countries should be self-sufficient in terms of their energy supplies. We work continually to build a relationship of trust with our partners and create sustainable, long-term value.

More information about the Eni Award and this year's other winners is [available here](https://www.eni.com/en_IT/media/2018/07/eni-award-the-winners-for-the-2018-edition-have-been-nominated) (https://www.eni.com/en_IT/media/2018/07/eni-award-the-winners-for-the-2018-edition-have-been-nominated).

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Eni Award: the winners for the 2018 edition have been nominated

The award ceremony will take place at the Palazzo del Quirinale on October 22nd in the presence of the President of the Italian Republic, Sergio Mattarella.

23/07/2018 10:00

Rome, 23 July 2018 – Eni has announced the winners of the 11th edition of the Eni Award. Over the years, the award, established in 2007, has become an international point of reference for research in the energy and environment sectors. The Eni Award aims to reflect the importance of scientific research and innovation, promoting a better use of energy sources and encouraging a new generation of researchers.

The **Energy Transition Award**, one of the three main awards, is awarded for exceptional innovation in the hydrocarbon sector towards the decarbonization of the energy system. This year's recipient is **Omar M. Yaghi** from Berkeley University, California, one of the most brilliant scientists working in the field of crystalline-porous solids research. He studied their use in the selective separation of CO₂ from combustion gases and the capture of atmospheric humidity, a particularly innovative application for desert areas.

The **Energy Frontiers Award**, for research on renewable energy sources and energy storage, was awarded to **Zhong Lin Wang** from the Georgia Institute of Technology, Atlanta. Professor Wang has developed "triboelectric nanogenerators", a new group of devices capable of converting naturally occurring energy into high-yielding electricity, both on a macroscopic scale (such as waves in the ocean) and on a microscopic scale (body movements, muscular contractions, blood flow), creating a huge scope of potential for energy retrieval and generation.

Finally, the award for **Advanced Environmental Solutions**, dedicated to research on air, water and land conservation and industrial site reclamation, was awarded to **Sang Yup Lee** from the Korea Advanced Institute of Science and Technology of Daejeon in South Korea. Professor Lee is a world-leader in developing engineered bacteria to produce chemical products, fuels and non-food biomass materials sustainably and with a low environmental impact.

The **Young Talent from Africa Award**, established in 2017 to mark the tenth anniversary of the Eni Award and given to young talent from the African Continent, was awarded to **Emerance Jessica Claire D'Assise Goma-Tchimbakala** of the Marien NGouabi University of Brazzaville (Congo) and **Elvis Tinashe Ganda**, a Zimbabwean student at Durban University of Technology (South Africa). Goma Tchimbakala's project focuses on the effect of microorganisms and metabolized synthesized substances on environmental rehabilitation. The biosurfactants produced by the bacterias can be produced on a large scale, which would open the doors to a new industrial chapter in Congo thanks to their role as pharmaceutical and cosmetics producers. Ganda's research is also particularly important in the transition towards the increasing use of renewable energy in the transport sector. Ganda's research focuses on biomass, a renewable alternative fuel with an opportunity to reduce the environmental impact caused by transporting people and commodities. The **Young Researcher of the Year** award, which annually awards two researchers under 30 who have obtained a research doctorate at Italian universities, was given to **Michele De Bastiani** and **Gianluca Longoni**. The first researcher is a student at the University of Padova - Italian Institute of Technology, who presented a thesis on the stability of two emerging photovoltaic technologies: organic photovoltaics and perovskite-based cells, and their potential capabilities. The second winner, Dr. Longoni from the University of Milano Bicocca, was given the award for his thesis on the development of innovative electrodes for sodium ion based batteries, a safer electrical "storage" technology than lithium ion batteries. The award ceremony will take place at the Palazzo del Quirinale on October 22nd in the presence of the President of the Italian Republic, Sergio Mattarella.

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