

**The Global Energy Association for the development of international research and projects in the field of energy.**

«29» August, 2019

## **Energy, water, food security on the cusp**

*The growing population of the Earth, urbanization, and economic growth are key factors in the increasing demand for energy, water, and food. All three resources are indissolubly tied and require a multifaceted approach to solving the problems of ensuring their availability and security. According to experts, the synergy of political and technological solutions, as well as international cooperation will help find an answer to these challenges. What pathways should be taken to solve the problem of the lack of energy, water and food resources? Rae Kwon Chung, Chairman of the Global Energy Prize International Award Committee, UN Secretary-General's High-level Expert and Leaders Panel (HELP) on water and disasters, along with other speakers of the session "Energy, water, food: An ecosystem on the cusp" will consider these questions.*

According to the UN, around 1.5 million people in the world are short in electricity. Energy poverty in many regions is a major obstacle to reducing the starvation. However, approximately 2 million people worldwide suffer a shortage of clean drinking water. A scarcity of this resource or its poor quality negatively works upon food security. Moreover, significant amounts of water are needed for almost all energy generation processes. Along with that, water economy needs electricity in order to receive, purify and transmit water. Thus, the issues of food, water availability, and energy supply are inextricably linked to each other, and their ties must be sustainable and safe to guarantee the stable development of mankind.

The climate crisis only aggravates the uncertainty related to food, energy and water supply, mentioned one of the session's speakers, Rae Kwon Chung, Chairman of the Global Energy Prize International Award Committee, UN Secretary-General's High-level Expert and Leaders Panel (HELP) on water and disasters, Member of the Intergovernmental Panel on Climate Change (IPCC), awarded with the Nobel Peace Prize in 2007.

*"We are stuck in a vicious circle. Agriculture and land use is responsible for around one third of global greenhouse gas emission. On the other hand, extreme weather conditions such as heatwave, floods, drought are undermining the basic water supply of one fourth of the world's population. By 2050, the world's population will reach 10 billion people, which will become another crucial factor. At present, energy production systems, as well as food and water supply should be reviewed. And at the same time, this transformation should be accompanied by a fight against climate change," the expert stressed.*

Join the discussion with Rae Kwon Chung, Chairman of the Global Energy Prize International Award Committee, UN Secretary-General's High-level Expert and Leaders Panel (HELP) on water and

disasters, Member of the Intergovernmental Panel on Climate Change (IPCC), awarded with the Nobel Peace Prize in 2007 on Wednesday September 11 at the parallel session from 11.45- 13.00.

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**About the Global Energy Association**

[The Global Energy Association](#) develops international research and projects in the field of energy. The Association operates with the support of the leading Russian energy companies PJSC “GAZPROM”, “FGC UES”, PJSC, PJSC “Surgutneftegas”. The Association manages the Global Energy Prize, organizes the eponymous summit, and implements the Global Energy Youth Program.

The Global Energy Prize is an international award for outstanding scientific research and technological development in energy. Since 2003, the Global Energy Prize has been awarded to 39 Laureates from 13 countries: Australia, Austria, Canada, Denmark, France, Iceland, Japan, Russia, Sweden, Switzerland, Ukraine, the UK and the USA. According to [IREG Observatory on Academic Ranking and Excellence](#), the Global Energy Prize is one of TOP-99 international academic awards with the highest prestige and significance. In the prestige rating of [the International Congress of Distinguished Awards \(ICDA\)](#) the Global Energy Prize is in the category of “Mega Prizes” for its laudable goals, exemplary practices and the overall prize fund.

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