

Ministry of Science and Higher Education of the Russian Federation

Peter the Great St.Petersburg Polytechnic University

Saint Petersburg State University of Economics

Economic Research Institute
Astana, Republic of Kazakhstan

Information letter

Peter the Great St. Petersburg Polytechnic University together with St. Petersburg State Economic University and Economic Research Institute (Astana, Republic of Kazakhstan) will organize on December 13-14, 2022 an international scientific online conference “Green Transition Landscape: models, scenarios, materials and technologies” and invite representatives of science, educational institutions, business community and non-governmental organizations to participate in its work.

The 2021 climate summit (COP26) adopted a final agreement, the Glasgow Climate Pact, which aims to keep global warming below 1.5 degrees Celsius. Achieving this goal becomes especially relevant at a time when many developing economies show their unwillingness to abandon fossil fuels, primarily coal and oil. Therefore, the search for new energy sources with a neutral or low carbon footprint becomes an urgent need. World experience in the development of renewable energy sources over the past 25 years gives us some signals about what awaits countries that intend to make a new energy transition. First of all, it is the need to solve many technological problems: the development of the renewable energy segment has led to the creation of new segments in the economy and the development of infrastructure, and as a result, contributed to the social and economic transformation of entire regions. Therefore, it should be expected that the new energy transition has not only a technological dimension, but also a socio-economic one. In this regard, the creation of a systemic toolkit (information technology, managerial, infrastructure and mathematical methods and models) for monitoring and analyzing the processes of technological and socio-economic transformation in the context of energy transitions will make it possible to “work ahead of the curve” in order to ensure a more balanced trajectory of the country's economic development.

The purpose of the conference is to discuss the results of systematic research on the main drivers and consequences of the "green transition":

- Scenarios for the transition to a low-carbon economy model;
- Scenarios for the decarbonization of production and the harmonization of the socio-economic landscape of society;
- Mathematical models of energy transition;
- System of requirements for materials for a low-carbon economy;

- Logistics supply chains in the transition to a low-carbon economy;
- Models of transport mobility systems to reduce carbon emissions;
- A system of models of information technology and digital support for managing the energy transition and the target state of the economy at the level of the state, industries, enterprises.

The deadline for submitting articles is **November 30, 2022**. Articles approved by the Program Committee will be published in one of the international journals indexed in Web of Science/Scopus.

Conference Venue:

Peter the Great St. Petersburg Polytechnic University. 29, Polytechnicheskaya St., Scientific and Research Building, St. Petersburg, Russia.

Conference organizers

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