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Director of the Department of Science and
Commercialization

_____ A. Kabdushev

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**THE REPORT OF THE SCIENTIFIC RESEARCH CENTER
«ECOLOGICAL PROBLEMS OF SUSTAINABLE DEVELOPMENT»
FOR THE 2022-2023 ACADEMIC YEAR**

Head of Department of Research Activities



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**THE REPORT OF THE SCIENTIFIC RESEARCH CENTER «ECOLOGICAL
PROBLEMS OF SUSTAINABLE DEVELOPMENT»
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The Scientific Research Center «Ecological Problems of Sustainable Development» was established by the decision of the Academic Council of the University in accordance with the Development Program of the M. Kh. Dulaty Taraz State University (Protocol No. 443 of November 30, 2019).

The SRC «Ecological Problems of Sustainable Development» is currently a subdivision of the structural division of the Department of Science and Commercialization of M. Kh. Dulaty Taraz Regional University.

The main purpose of the center's activities is to solve urgent ecological problems of sustainable development, identify the causes of their occurrence and develop theoretical and methodological foundations on the unity of society and nature and ways of sustainable development of civilization.

The main objectives of the Scientific Research Center «Ecological problems of sustainable development» are:

- scientific research in the field of ecological problems of sustainable development in order to ensure ecological safety;
- creation of a scientific justification for improving the quality of life of the population of the territory of Kazakhstan by optimizing the rational use of natural resources;
- development of scientific foundations for the interstate use of natural resources;
- conducting scientific research to study the reduction or prevention of harmful effects of waste and emissions into the atmosphere from industrial enterprises, motor transport activities;
- participation in a comprehensive study of the state of biological diversity of natural objects in order to improve the system of specially protected natural territories of the Zhambyl region;
- participation in the implementation of additional educational programs in the field of ecology and ecological protection;
- promotion of ecological knowledge, an ecological approach to nature, scientific and ecological education conferences and meetings;
- implementation of scientific developments in production and educational process;
- organization of research work of doctoral students, undergraduates and students;
- provision of scientific and methodological assistance and consulting services to legal entities and individuals;
- training and internship of highly qualified specialists based on international best practices.

The work of the SRC «Ecological Problems of Sustainable Development» is carried out in accordance with the approved plan.

The Scientific Research Center «Ecological Problems of Sustainable Development» operates on the basis of 2 departments of the Institute of Water Management and Environmental Management «Ecology and Life Safety» and «Melioration and Agronomy», experienced teachers, undergraduates and students are involved in its work.

SRC also oversees the student Ecological organization «GREEN LIFE».

In 2021-2023, the center participated in the competition for program-targeted financing of scientific and technical programs and is working as an executor on the topic «Ауылшаруашылық жерлерінің деградациялануы және топырақтың тұздану деңгейін бағалау үшін жерлерді пайдаланудың геовебсервисін өңдеу» (IRN BR10965206).

In addition, the results of the research work carried out within the framework of the state program are included in practical and lecture classes on the discipline «Sustainable subsoil use» for students of the educational program 6B051213-Ecology and nature management.

ERASMUS+: Scientists of the center took part as research teachers in a competition for the project of developing an interdisciplinary master's program in Ecological economics in Kazakhstan

and China within the framework of the program for improving competence in higher education institutions.

The works of the staff of the scientific research center «Ecological Problems of Sustainable Development» have been published in the following publications:

The article «MONITORING STUDY OF the EFFECT of ATYRAU EVAPORATION FIELDS ON the CONTENT of HYDROGEN SULFIDE IN the AIR» was published on the basis of SCOPUS in October 2022, <https://doi.org/10.18280/ijstdp.170613>.

And also «ECOLOGICAL AND MELIORATIVE SUBSTANTIATION of GRAY-EARTH – MEADOW SALINE SOILS OF ZHAMBYL REGION», News of the academy of sciences of the republic of Kazakhstan, Satbayev University, article.

On the Web of Science platform «the DRIVING FORCES of CHANGES IN LAND USE of A PERI-URBAN AREA: the CASE OF TSELINOGRAD DISTRICT, KAZAKHSTAN», Web of Conferences 386, 05013 (2023). <https://doi.org/10.1051/e3sconf.202338605013> The article has been published.

In April 2023, within the framework of the GREEN METRIC project, a seminar «Green University» was held, organized by D. Serikbayev East Kazakhstan University.

The SRC «Ecological Problems of Sustainable Development» conducts joint research work on the basis of joint memoranda with domestic and foreign enterprises and organizations, universities:

- Ryazan State University (Russia);
- Russian Intersectoral Association of Employers in the Field of Environmental Protection «RUSRECYCLING» (Russia);
- Belarusian State University (Belarus);
- Altai State University (Russia).

In order to increase the efficiency of the Scientific Research Center «Ecological Problems of Sustainable Development», technology commercialization is carried out:

1) organization of training for teachers of Dulaty University on the preparation of competitive documents for participation in innovation grant competitions organized by the Ministry of Education and Science of the Republic of Kazakhstan and the Science Foundation of the Republic of Kazakhstan, the Department of Entrepreneurship and Innovative and Industrial Development of Zhambyl region;

2) expansion of joint activities of teachers, students, undergraduates and doctoral students of economic and technological departments to prepare business projects for participation in the competition of innovative grants for technology commercialization;

3) organization of seminars for students, undergraduates and university professors on innovative project management, business planning, fundraising in conjunction with the University's Center for Advanced Training;

4) in order to activate the work of the SIC, a special office has been allocated, provided with the necessary interactive whiteboard, office equipment (computer, scanner, printer).

The compiler
Director of the SRC



R. Turekeldiyeva