This collection of research projects is based on Sustainable Development Goal 13 — Climate Action. Most of the studies focus on developing renewable energy sources that can help mitigate the impacts of climate change, particularly by analyzing the conditions for biofuel production in Kazakhstan and creating efficient catalysts for converting methane into synthesis gas. These technological solutions serve as important tools in combating global warming by reducing harmful emissions into the atmosphere.

In addition, the research addresses transboundary water security issues in Central Asia arising from climate change, as well as institutional challenges and adaptation mechanisms. These studies provide a scientific basis for strengthening government strategies and international cooperation aimed at increasing climate resilience and ensuring environmental sustainability.

1

Title	Analysis of conditions of biofuel production in Kazakhstan: Case study
Authors	Bergenzhanova, G.| Mauletuly, T.| Adilbekov, A.| Kokazhayeva, A.| Revalde, G.
Year	2021
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85101223396&origin=resultslist
DOI	10.15866/irecon.v9i1.18479

2

Title	Effect of cobalt oxide content on the activity of nio-co2 o3 /γ-al2 o3 catalyst in the reaction of dry reforming of methane to synthesis gas
Authors	Myltykbayeva, L.K.| Ergazieva, G.E.| Telbayeva, M.M.| Ismagilov, Z.R.| Dossumov, K.| Popova, A.N.| Sozynov, S.A.| Turgumbayeva, R.H.| Hitsova, L.M.
Year	2020
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-85094175919&origin=resultslist
DOI	10.18321/ectj978

3

Title	Climate-Induced Transboundary Water Insecurity in Central Asia: Institutional Challenges, Adaptation Responses, and Future Research Directions
Authors	Issakov, Y.| Sarkytkan, K.| Gajić, T.| Akhmetova, A.| Berdygulova, G.| Zhoya, K.| Razia, T.| Matigulla, B.
Year	2025
Abstract in Scopus	https://www.scopus.com/record/display.url?eid=2-s2.0-105009092515&origin=resultslist
DOI	10.3390/w17121795