



Workshop on the Economics of Climate Change

Material Use and Sustainability

September 14, 2023, Online

Call for Papers

As the low-hanging fruits of energy efficiency have been harvested, the role of resource use, particularly material use and its embedded emissions, is becoming increasingly important in meeting both net-zero carbon targets and the Sustainable Development Goals. The research project led by **Prof. Dr. Etem Karakaya** and funded by **the Scientific and Technological Research Council of Türkiye (TUBİTAK)** focuses on this crucial topic and investigates the critical role of materials from the sustainable development perspective, with a special emphasis on material efficiency and rebound effects, as well as their connection with energy efficiency for climate mitigation (<https://lessmaterial.ogu.edu.tr/>).¹

We cordially invite you to participate in the **Workshop on the Economics of Climate Change: Material Use and Sustainability**, to be held online on **September 14, 2023**.

The main purpose of the workshop is to provide a platform for researchers, policymakers, and stakeholders to exchange knowledge, insights, and ideas about materials and their crucial role in sustainable development, as well as to discuss the materials-climate change nexus from different perspectives. The workshop also aims to *(i)* enable participants to share their most recent findings, facilitate knowledge sharing, and promote learning from one another's expertise; *(ii)* explore how material-related policies, such as resource efficiency, sustainable material management, technological innovations, material substitution strategies, and circular economy measures, can be aligned with net-zero targets; and *(iii)* foster networking, collaboration, and knowledge exchange among participants from academia, industry, government, and civil society organizations.

¹ The project entitled "Analysing Material Demand and Material Efficiency from Sustainability Perspective: A Comparative Cross-Country Analysis and Assessments for Turkey" and numbered 221K081 is supported by the TÜBİTAK 1001-The Scientific and Technological Research Projects Funding Program.

Abstract Submission

The papers can be submitted in **Turkish** and **English**. An abstract of not less/more than 150/300 words in English or Turkish can be submitted to **lessmaterial.tubitak@gmail.com** by **September 1, 2023**. There is no registration fee.

Topics

Relevant themes include, but are not limited to, the following:

- The critical role of materials in addressing climate change
- Resource efficiency for achieving climate neutrality.
- Climate mitigation policy with a specific focus on material use
- The improvements in resource efficiency and the rebound effect
- Critical raw materials (CRMs) and low-carbon technologies for the green transition
- Industrial decarbonization and the increasing role of material efficiency
- Circular economy strategies and climate mitigation
- The interaction between materials and energy
- Resource efficiency in developed and developing countries
- Financing resource efficiency and cleaner production
- Resource use and resource efficiency in Türkiye and policy designing.

Important Dates

- Deadline for abstract submission: September 1, 2023
- Program announcement: September 7, 2023
- Workshop: September 14, 2023

Notes

- Participants without a presentation attend sessions are also welcome.
- Depending on the abstracts submitted, a session for young researchers (master and PhD students) may be scheduled.
- Participants can present their work in Turkish or English. It should be indicated in the submission.
- Please direct all inquiries and correspondence to **lessmaterial.tubitak@gmail.com**.