

EBEEC 2023 Special Interest Working Group Proposal

Decarbonization and sustainability pathways: renewables, technology and rare minerals economics

We regard our EBEEC Special Interest Working Group as an intense collaborative effort of experts from many academic fields and a balanced geographical representation in order to deliver targeted, high-value work on the particular scientific subjects.

Particular Interest Working Group Leaders

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Suggested Scientific areas (not limited to)

- Decarbonization goals and attainment
- Building a sustainable economy: focus on SDG goals
- Renewable energy sources for climate change mitigation
- Renewables-based technology and sustainability
- Blockchain technology and decarbonization
- Technology in an integrated sustainability framework
- Technological innovation for sustainable development
- Net zero constraints and challenges
- Technology development and rare minerals
- Rare minerals industries' contribution to sustainability
- The new economy of rare minerals

Objectives

Our Special Interest Working Group seeks to challenge scholars to develop groundbreaking research on the contribution of technology development and digitalization to supporting decarbonization at regional and global level and further build a more sustainable economy. Technological progress has widespread impact

on economies and is recognized as the key factor for economic growth, allowing for higher production efficiency and, eventually, increased prosperity. At the same time, it can boost the adoption of renewable energy sources and reshape rare minerals industries (lithium, titanium, silicon that are suppliers of inputs for IT&C and other technology-connected economic sectors – these minerals are an essential part of many high-tech devices. Therefore, these industries may represent the bright stars of the new economy and can bring stability and long-term, profitable growth while bolstering an economic supply chain under pressure for years.

In this general framework, we welcome research and industry insights, proposals for academic projects, ideas for building academic networks, plans for Special issues in major academic journals, etc. that highlight the role of renewable energy sources, technology and rare mineral industries development for decarbonization and sustainable economic and social growth.

The specific objectives of the Special Interest Working Group on “Decarbonization and sustainability pathways: renewables, technology and rare minerals economics” are the following:

- Building a network of scholars interested in these topics
- Attracting the interest of doctoral students to participate in research in the areas specific to the Working group
- Discussing specific ideas for paper collaboration, special issues proposals, and project applications
- Exchanging of experiences and networking
- Collaborating with scholars from various academic disciplines
- Proposing a Special session at the EBEEC 2024

The Special Interest Working Group on “Decarbonization and sustainability pathways: renewables, technology and rare minerals economics” meets online two-three times a year.

Publication opportunities

- EBEEC Conference proceedings - once a year
- Springer and KnowledgeE publication opportunities based on EBEEC
- Special issues in 1-2 Scopus and/or Clarivate Analytics Web of Science journals

Timeline

EBEEC 2023 Kick Off Special Interest Working Group

- Before EBEEC 2023: Call for Members
- At the conference: Call for the contribution to EBEEC2024 Special Session/Track
- First meeting of scholars interested in the topics

EBEEC 2024 Special Interest Working Group

- Meetings with the group members
- Establish EBEEC 2025 Special Session/Track