

# Challenges for the Direct and Indirect Supply of Raw Materials for the Energy Transition

## Workshop

Forschungszentrum Jülich, 23.-24.06.2025

### PROGRAMME

#### DAY 1 (23.06.2025)

08.30-09.00 Registration

09.00-09.15 Welcome Address

[Dr. Stefan Vögele](#), Forschungszentrum Jülich

09.15-10.00 Supply of Critical and Strategic Raw Materials in a Disruptive World

[Prof. Dr. Dirk Rübhelke](#), Technische Universität Bergakademie Freiberg

#### PART A: Criticality of Critical Material Supply

10.00-10.45 Resource Supply and Criticality

[Prof. Alexander Golub](#), American University Washington

10.45-11.15 Coffee Break

11.15-12.00 European Hydrogen Imports from Africa: Opportunities for two Continents?

[Dr. Anja Brumme](#), TU Bergakademie Freiberg

12.00-12.45 Resource Constraints and Opportunities of Green Hydrogen in Africa – the H2 Atlas Africa Project

[Prof. Dr. Heidi Heinrichs](#), Forschungszentrum Jülich/University Siegen

12.45-13.45 Lunch Break

#### PART B: Commodities for the Green Energy Transformation and their Supply Risks

13.45-14.30 Rooftop Solar PV Adoption in Indian Households and the Availability of the Raw Materials

[Prof. Vivekananda Mukherjee](#), Birla Institute of Technology and Science, Pilani (BITS Pilani)

14.30-15. Switch from Fossil Resources to Renewables - Transport Risks of Preliminary Products for Renewable Energy Use

[Dr. Stefan Vögele](#), Forschungszentrum Jülich

15.15-15.45 Coffee Break

15.45-16.30 (Primary) Resources and the Energy transition: Challenges, Interactions and Solutions

[Dr. Anna Schomberg](#), University Kassel

16.30-17.15 Supply Risks in the Steel Sector

[Prof. Frank Pothén](#), University of Applied Sciences Jena

17.15-17.45 Summary of Day 1 and Discussion

[Dr. Imke Rhoden](#); Forschungszentrum Jülich

19.00 Dinner

**DAY 2 (24.06.2025)**

**09.00-09.15** *Opening Session*

Dr. Imke Rhoden, Forschungszentrum Jülich

**PART C: Economic and Political Approaches to Safeguard the Supply of Resources for the European Green Energy Transition**

**09.15-10.00** **Critical Raw Materials: How the EU seeks to De-risk from China”.**

Prof. Britta Kuhn, University of Applied Sciences RheinMain

**10.00-10.45** **The Blue Economy and Policies to Conserve Marine Ecosystems**

Prof. Anil Markandya, Basque Centre for Climate Change and University of Bath

**10.45-11.15** **Coffee Break**

**11.15-12.00** **International Cooperation, Legal Institutions and the Transition to Cleaner Energy Resources: A Case Study of the Paris Agreement**

Prof. Per G. Fredriksson, University of Louisville

**PART D: Perspectives - Future Research Agenda and Cooperation**

**12.00-12.45** **MCDA – A Tool to Capture Different Criteria for Safeguarding the Supply of Resources for the Transformation of Energy Systems**

Prof. Dr. Matthias Grajewski, Fachhochschule Aachen

**12.45-13.45** **Lunch Break**

**13.45-15.00** **Discussion Round and Synthesis**

Chair: Dr. Imke Rhoden; Forschungszentrum Jülich

**14.30-15.00** **Conclusions and End of Conference**

Prof. Dr. Matthias Grajewski; Fachhochschule Aachen