

Workshop **Materials scarcity and recycling for the energy transition**

June 24-25, 2025

Center for Environmental Economics - Montpellier

Venue: salle Caryatide, site Saint-Charles 2, Université Paul-Valéry Montpellier
Rue du Professeur Henri Serre, 34080 Montpellier, France

Sponsor: Agence Nationale de la Recherche ScarCyclET project (grant ANR-21-CE03-0012)

Tuesday June 24

- 9:15 Miao Dai (VU Amsterdam)
Strategic recycling of critical raw materials
Discussant:
- 10:00 Benteng Zou (U Luxemburg)
Strategic consideration and optimal timing of critical mineral depletion, recycling, and substitution
Discussant: Gerard van der Meijden (VU Amsterdam)
- 10:45 break
- 11:15 Pauline Bucciarelli (IFPEN, EconomiX)
Can European strategic autonomy be achieved without sufficiency? Modelling the implications of the European Critical Raw Materials Act on the value chain of lithium
Discussant: Aude Pommeret (U Savoie MB, IREGE)
- 12:00 lunch
- 13:30 Francesco Quatraro (U Torino)
Improving the measurement of the impact of CRM exposure on technologies
Discussant: Joëlle Noailly (VU Amsterdam, Geneva Graduate Institute)
- 14:15 François Verzier (IS-Terre)
MATER: An open-source modular framework featuring dynamic input/output modelling
Discussant: Clément Bonnet (U Montpellier, ART-Dév)
- 15:00 break
- 15:45 François Guy (U Savoie MB, IREGE)
Optimizing resource uses: Understanding the role of circular economy levers and their interaction
Discussant: Gilles Lafforgue (TBS Education)
- 16:30 Antoina Kurz (DW Berlin)
Mining critical minerals for the energy transition: Trade, market power and policy
Discussant:
- 17:15 break
- 17:40 Working group on finalizing the ScarCyclET program
- 20:00 Diner (au Petit Jardin, rue J-J Rousseau)

Wednesday June 25

- 9:00 Maria-Eugenia Sanin (Evry U, CEPS)
Assessing supply chain vulnerabilities in renewable energy: A multi-regional input-output approach
Discussant:
- 9:45 Dorothee Charlier (U Savoie MB, IREGE)
Is primary production of copper price elastic?
Discussant: Maria-Eugenia Sanin (Evry U, CEPS)
- 10:30 break
- 11:00 Aina Mas Fons (BRGM)
Understanding the production of natural and synthetic battery-grade graphite:
European Union perspective on supply risk and environmental impact implications
- 11:30 Early stage starting projects:
Aude Pommeret (U Savoie MB, IREGE) Opening new mines?
Timothé Catimel (PSE) Empirical determinants of recycling rate for metals
Sophie Bernard (Polytechnique Montréal) TBA
- 12:30 lunch
- 14:00 Nihal Yilmaz (Geneva Graduate Institute)
Trade shocks on rare earth elements: firm level effects from France
Discussant:
- 14:45 Maylis Peyres (LEDa)
Integrating secondary supply – The role of recycling in long-term metal market sustainability
Discussant:
- 15:30 break
- 16:00 Julie Metta (Tilburg U)
Beyond protectionism: Circular Economy policies as a geopolitical strategy for sufficiency and equity
Discussant:
- 16:45 Conclusion: Looking forward program TAEF PEPR Sous-Sol and new collaborations
- Local organizing committee: Julie Martinez, Gersende Gatellet, Arun Thiagarajah, Laurent Garnier, Francesco Ricci

