

Review of: "How Blockchain Technology Can Address Circularity and Trace Emission in the Energy Sector"

Marco Combetto¹

¹ European Union

Potential competing interests: No potential competing interests to declare.

This paper outlines explores the European perspective on adopting circularity in the energy sector and the potential for blockchain technology to facilitate this transition. The paper outlines the growing need for raw materials and e-fuels and the associated risks with their supply chain, and suggests that circularity could help to mitigate these risks. The authors argue that circularity requires the tracing of substances and devices, food, and products to retrieve and recycle as many materials as possible.

The paper provides insights into the European perspective on systemic transformation and resilience in addressing climate change and achieving sustainability goals. The authors identify the role of digital technologies, particularly Distributed Ledger Technologies (DLTs), in supporting circular practices, and discuss specific applications in the energy sector, such as energy communities.

The paper highlights the challenges of implementing circularity and proposes some potential solutions validated with experimentations, which make it a valuable contribution to the academic conversation on sustainability and energy.

Overall, the paper is well-researched, provides a comprehensive understanding of circularity and its implications for the energy sector, and offers thought-provoking insights into the potential of blockchain technology to support the transition towards sustainability. The paper is highly recommended for anyone interested in sustainability, energy, and blockchain technology.