

### MINING WATCH I TURNING DOWN THE HEAT

# **Electronic waste: what lessons for the renewable energy sector?**



## **E-WASTE BIG PICTURE**





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## **E-WASTE RECYCLING**

### **Lessons and Challenges**

#### LESSONS & CHALLENGES | E-WASTE & URBAN MINING



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## LAWS & POLICY

### **Lessons and Challenges**

### LAWS & POLICY | NEED FOR EVIDENCE BASED MATERIALS STEWARDSHIP



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Mulvaney, Dustin. "Are Green Jobs Just Jobs? Cadmium Narratives in the Life Cycle of Photovoltaics." Geoforum 54 (July 2014): 178-86. https://doi.org/10.1016/j.geoforum.2014.01.014.

Metrics (e.g., LCA) measuring transition and circularity should aim for "humility". Environmental and economic justice for whom? Where? When? Under what conditions?



### FAIR TRADE RECYCLING / E-WASTE 'OFFSETS'

Price premium for reusable & repairable devices traded for mass balance of locally relevant scrap/waste



### LAWS & POLICY | IMPLICATIONS OF BROAD GEOGRAPHICAL SHIFT?





The social equity and sufficiency goals of sustainable energy development may be within reach at bearable environmental costs: globally, the total amount of primary energy currently consumed is now more than sufficient to attain high human development for all.

Dr. Julia K. Steinberger

Rather than biophysical or technical limits, then, the solutions to energy over-use and under-development now are mostly constrained by economic and political structures.

Steinberger, Julia K., and J. Timmons Roberts. "From Constraint to Sufficiency: The Decoupling of Energy and Carbon from Human Needs, 1975–2005." Ecological Economics, Special Section: Ecological Distribution Conflicts, 70, no. 2 (December 15, 2010): 425–33. <u>https://doi.org/10.1016/j.ecolecon.2010.09.014</u>.



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