

Climate justice in transforming land-use systems for food and renewable energy

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Research on impact of large-scale renewable-energy (LSRE) projects on pastoralists in drylands

- Desk study "Pastoralism & large-scale renewable energy and green hydrogen projects" for Heinrich Böll Foundation & Bread for the World
- Deeper-going on-the-ground study "Just transitions?
 Pastoralism, energy & net zero" for University of Leicester, with legal document review and key-informant interviews

Focus here on LSRE projects for wind power in Kenya



Current trends in energy sector



- Fast expansion of solar & wind power projects to meet demand for carbon-free energy
- Many countries, including Kenya, target 100% green energy by 2030 (Germany by 2035)
- German quest for green hydrogen intensified with Ukraine war
- Drylands excellent for generating solar & wind power

Case study in Kenya's drylands

- ASALs (arid & semi-arid lands) cover over 80% of Kenya and support primarily pastoralist livelihoods
- Decades of marginalisation led to low levels of development
- Recently, road & communication infrastructure improved – increased investment interest
- Large-scale land acquisition for green energy and growing opposition by pastoralists – why?





Pastoralism depends on mobility over diverse landscape

Large-scale land acquisition in the drylands:

- Dispossesses pastoralists of traditional grazing areas
- Reduces herd mobility and access to key seasonal resources
- Pastoralism becomes less viable.

Government & investors

- · Have little understanding of pastoral systems and underestimate their value
- Do not recognise communal land rights for flexible and mobile pastoral use.



Lake Turkana Wind Power (LTWP) project

On land of Turkana, Samburu, Rendille & El Molo pastoralists in northern Kenya

2009: 60,700 ha ASAL acquired from Kenyan Government

The lease transferred communal land to investors with no compensation to local communities.

2014: Construction began



2019: Energy from 365 turbines fed into national grid

Pastoralists' resistance to LTWP project

Main points of contention:

- Lack of adequate community consultation during land-acquisition process
- Irregular transfer of land ownership rights from community to investors



- No compensation for land lost
- Of 60,700 ha acquired by project, only 16,187 ha used for wind turbines
- Community feels deprived of remaining land for grazing

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Pastoralists' resistance to LTWP project (cont'd)

2014: Communities went to court

2021: Court ruled *land-acquisition process illegal*, <u>but</u> wind park in full operation since 2019

Court recommended to "regularise" land acquisition, <u>*but*</u> *no process for "regularisation" provided*

Communities not happy with "legalising the illegality" – want the land title to be revoked

2023: What is the situation now?



Most LSRE projects led to lose–lose situations

Pastoralist communities suffer:

- Blocked access to pasture, water & energy (firewood)
- Interrupted herd migration routes
- Decreased resilience in face of climate change



Energy companies suffer:

- Conflict with local communities
- Damaged infrastructure
- Construction delays
- Higher costs, including for court cases
- Sometimes even project failure

But also positive example: Kipeto Wind Power Project

1993: Project initiated in southern Kenya but Maasai demanded that developers compensate for land & livelihoods

Land owned & managed as Maasai group ranches – subdivided among families

Land of 60 owners, including 10 women, in Kipeto Wind Power Project footprint

Time- & *resource-consuming consultations until win-win agreement finally reached*



2021: 100 MW project went into operation

Kipeto Wind Power Project – benefits for pastoralists

Key benefits for Maasai community:

- 1. Community members can graze their herds on wind farm
- Owners of land where turbines erected receive annual lease payments plus
 1.4% of gross revenue from each turbine
- 5% revenue share for community through Community Trust Fund for local development projects



Kipeto Wind Power Project – benefits (cont'd)

Key benefits for Maasai community:

- 4. Construction of 80 houses for relocated families
- Several Corporate Social Responsibility (CSR) projects benefiting local community and Kajiado County
- 6. Implementation of Biodiversity Action Plan with community to monitor & protect birds



for policymakers, energy companies & investment banks

Recommendations

Green energy, also green hydrogen, only from projects that meet global human-rights standards

How to facilitate just transition to green energy in the drylands



Recommendations for CSOs & researchers, with view to:

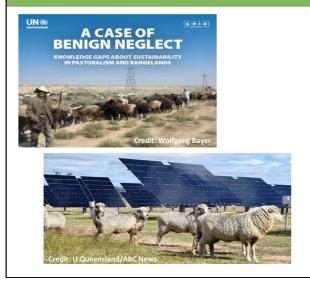
- > protecting pastoralists' rights
- helping them strengthen their position for negotiation with LSRE projects

Recommendations for CSOs, including pastoralist organisations

- Become aware of existing international standards & codes of business conduct
- Strengthen pastoralists' capacities to know and defend their rights, e.g.
 - claiming community rights to common land
 - legal advice about human & civil rights
- Facilitate pastoralist involvement in multistakeholder planning for multipurpose land use



Recommendations for researchers



- Fill knowledge gaps on value of pastoral food-production systems & their contribution to economy & ecosystem services
- Fill knowledge gaps on socio-economic consequences of LSRE projects in drylands
- Participatory action research (PAR) with pastoralists on ways to integrate green energy, grazing & biodiversity conservation
- PAR with pastoralists for their legal empowerment

Conclusions	 Global energy transition is necessary: LSRE projects will expand further 	
	Seek synergies between producing green energy and producing food to sustain local livelihoods	
	Win–win situations possible if pastoralists' voice & agency strengthened	
	Governments must manage energy transition in open & inclusive discussion with well-informed pastoralists.	* - < / >
	Only then can a just transition to renewable energy be made.	

