

Energy storage and new energy are popular in rural areas

What is energy improvements in rural or remote areas (era)?

The Energy Improvements in Rural or Remote Areas (ERA) program gives communities with 10,000 or fewer people the tools and resources they need to improve the resilience, reliability, and affordability of their local energy systems.

What are the different types of rural energy communities?

Types of rural energy communities The rural energy communities, identified in 68 articles, are grouped in 2 types: Renewable Energy Communities (RECs): 27 articles (Fig. 2 (b)) focus on communities using renewable energy sources, e.g., biomass (48%), solar (44%), wind (15%), and geothermal (7%).

Why is electricity important in rural areas?

It powers homes, businesses, schools, and hospitals, and plays a crucial role in enhancing productivity, improving living standards, and fostering economic growth. Access to electricity remains a significant challenge for many rural areas globally, where millions of people live without reliable or affordable energy.

How can rural areas contribute to energy development?

Addressing these challenges is essential for leveraging the full potential of rural areas in energy development and achieving broader sustainable development goals (Jenny et al., 2006; Martens, 2022). Beyond producing energy for local consumption, rural areas can contribute significantly to broader energy networks.

What are the benefits of rural energy communities?

Rural energy communities offer a range of benefits spanning environmental, economic, social, and energy/grid efficiency dimensions. Promoting local renewable energy production significantly contributes to reducing CO₂ emissions, boosting local economies, and improving infrastructure (Ferrari et al., 2022; Yi et al., 2023).

How can Rural Energy Solutions be improved?

Focusing on technological feasibility and economic benefits ensures resilient, scalable, and viable energy solutions. Addressing environmental sustainability and resource management advances rural energy solutions. Focusing on socio-economic and regulatory factors ensures community acceptance and policy support.

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