

Renewable Energy Community Neudörfel

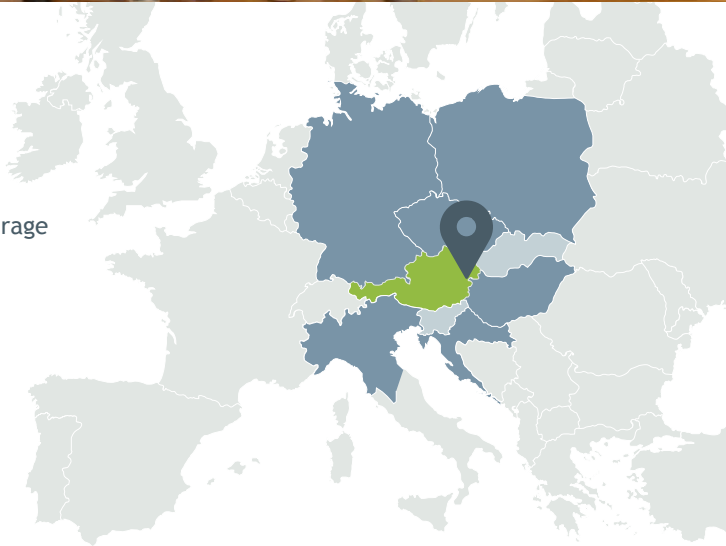


Factsheet

Location:
Neudörfel

Technologies:
Photovoltaics, Battery Storage

Number of participants:
118



About the project:

The renewable energy community was already established and operating successfully with over 100 members. The board of the REC convinced others to join by clearly communicating the financial benefits, environmental impact, and regional value creation of participating. A new challenge is to develop recommendations on how to tackle energy poverty by engagement activities and to measure the impact.

What is the goal? | Benefit of the REC

- provide locally produced renewable electricity at fair and stable prices
- offering members financial savings
- reduced CO₂ emissions
- regional value creation
- active participation in the energy transition

How do you achieve the goal? | Key activities

- integrating local photovoltaic systems
- organizing transparent internal electricity sharing
- ensuring efficient digital energy management and billing

How is the service provided? | Sales and communication

- electricity is produced by local PV systems
- fed into the public grid
- virtually allocated to REC members via smart meter data
- internally settled through a transparent digital billing system based on actual generation and consumption profiles

What is needed to achieve the goal? | Key resources

- legal structuring
- smart metering infrastructure
- digital accounting systems
- committed members
- cooperation with the grid operator

What are the expected profits? | Earnings

- reduced grid fees
- stable internal electricity prices below market level
- better returns for PV owners
- keeping energy expenditures within the region

Who should participate? | Co-owners

- private households
- local businesses
- photovoltaic system owners
- public institutions in Neudörfel and the surrounding grid area

What is the target group? | Customers

- additional households
- businesses
- renewable energy producers within the same grid level

What other stakeholders are needed? | Partners

- the local grid operator
- energy service providers for billing software

What are the expected costs? | Expenditure

- administrative setup
- IT and billing systems
- legal formation
- coordination costs
- generation assets are largely financed individually by participating PV owners

