

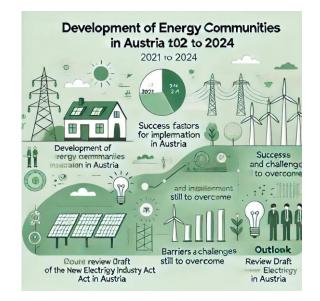
Energy Communities

Experiences from Austria



Austrian Energy Agency (AEA) Angela Holzmann | 16th of October 2024

- Development of Energy Communities in Austria from 2021 to 2024
- Success factors for the implementation in Austria
- Barriers and challenges still to overcome
- **Outlook**: Review draft of the new Electricity Industry Act in Austria



Regulatory Framework Collective production and consumption

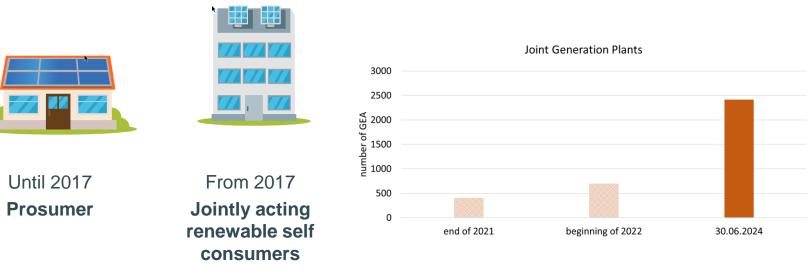




Until 2017 Prosumer

Regulatory Framework Collective production and consumption





Regulatory Framework Collective production and consumption





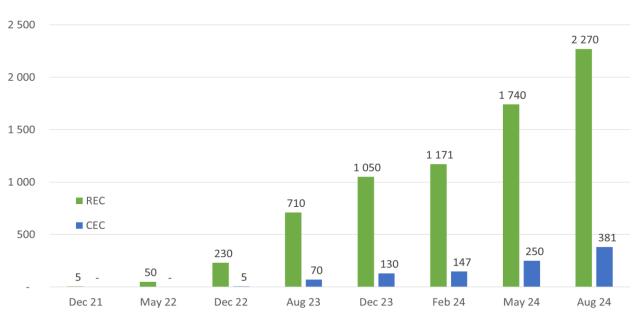






Until 2017 Prosumer From 2017 Jointly acting renewable self consumers From 2021 Renewable Energy Communities From April 2022 Citizen Energy Communites

Energy communities in Austria 2021 to 2024



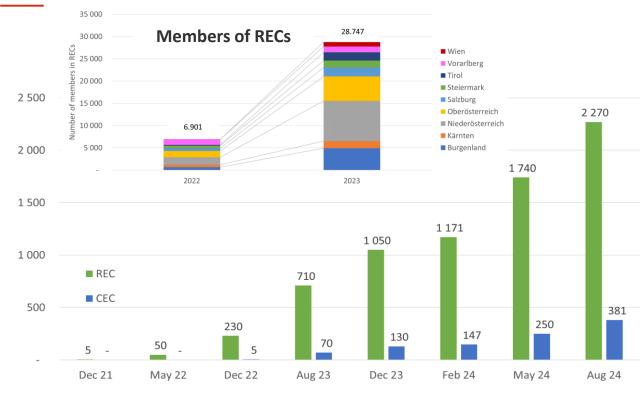
Source: EDA energiewirtschaftlicher Datenaustausch, registered energy communities

AUSTRIAN ENERGY AGENCY

- Registered energy communities (versus operationally active)
- CECs possible all over Austria from October 2023 onwards
- Multiple participation from April 2024



Energy communities in Austria 2021 to 2024

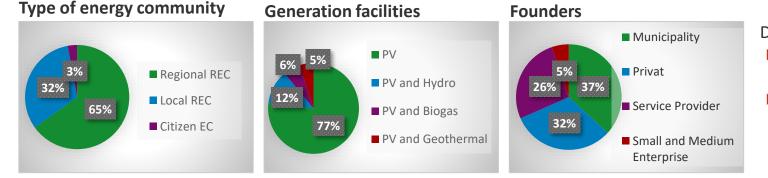


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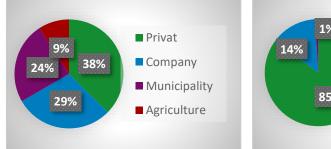
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Energy communities in Austria A study by the Technical University of Vienna

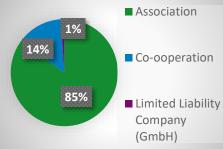




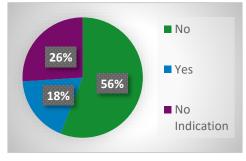
Membership structure



Type of organisation



Integration of storage facilities



Data based on:

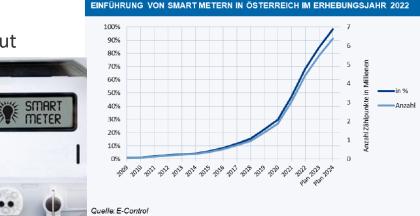
- Survey conducted with 18 ECs
- Information from the AT data exchange platform (EDA)
- Reports from funded ECs

Source: Energiegemeinschaften – eine Evaluierung bisheriger Erfahrungen und zukünftiger Perspektiven für Österreich, EEG TU Wien, 2024

Success factors for ECs in Austria 1/3 Framework

Robust legal & regulatory framework with incentives & funding scheme







Success factors for ECs in Austria 2/3 Coordination Office for Energy Communities

- Aims to optimise the framework for energy communities & provide assistance in the establishment of RECs and CECs
- Founded in 2021 by the Federal Ministry for Climate Action, Environment and Energy
- Embedded in the Austrian Climate and Energy Fund
- Link: <u>https://energiegemeinschaften.gv.at/</u>

Quality-assured information

- ✓ Webpage
- ✓ Infographics
- ✓ Explanatory videos
- ✓ Factsheets / guidelines
- ✓ FAQs
- ✓ Sample contracts
- ✓ Best practice examples
- ✓ Hotline

Stakeholder communication

- ✓ Coordinating information exchange with regional organisations
- ✓ Transfer knowledge betweent national stakeholders such as:
 - Ministries, regulator, associations, interest groups, ECs





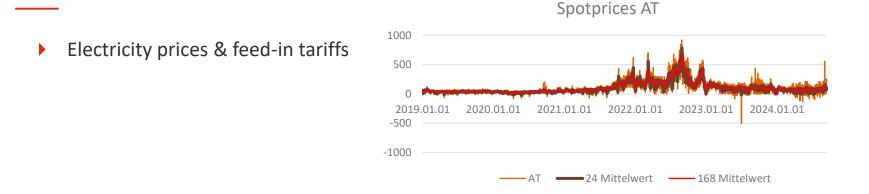
Support for projects

- ✓ Financial support through funding programme (Climate and Energy Fund)
- ✓ Pilot projects in all 9 provinces
- ✓ Identification of challenges and solution-focused support
- ✓ Monitoring/communication of findings

ONE POINT OF CONTACT (knowledge accumulation and distribution)

Success factors for ECs in Austria 3/3

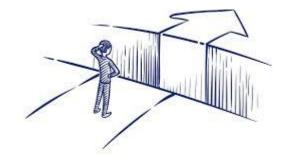




- Long term price stability, fair prices, local resources, community engagement, etc.
- Increase in acceptance of large-scale generation plants

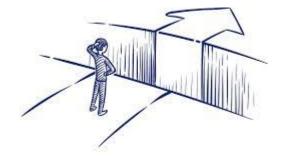


Data transmission and metering problems



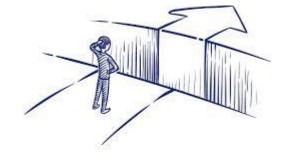


- Data transmission and metering problems
- Proximity criteria



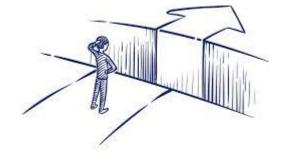


- Data transmission and metering problems
- Proximity criteria
- Operational control and authority of disposition of generation plants



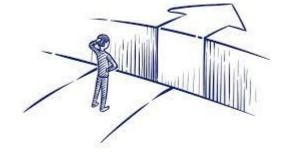


- Data transmission and metering problems
- Proximity criteria
- Operational control and authority of disposition of generation plants
- Storage facilities within energy communities





- Data transmission and metering problems
- Proximity criteria
- Operational control and authority of disposition of generation plants
- Storage facilities within energy communities
- Energy communities and conventional electricity suppliers



Review draft of the new Electricity Industry Act in Austria ElWG

- Electricity Industry Act (ElWOG), first adopted more than 20 years ago and has been subject to numerous amendments since then.
- Review draft of the new Electricity Industry Act, beginning of 2024
- Not adopted yet

310/ME XXVII. GP - Ministerialentwurf - Gesetzestext

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Entwurf 2024-01-10

Bundesgesetz, mit dem ein Bundesgesetz zur Regelung der Elektrizitätswirschaft (Elektrizitätswirtschaftsgesetz – ElWG) und ein Bundesgesetz zur Definition Begriffs der Energiearmut für die statistische Erfassung und für die Bestimmung von Zielgruppen für Unterstützungsmaßnahmen (Energiearmuts-Definitions-Gesetz – EnDG) erlassen werden sowie das Energie-Control-Gesetz geändert wird

Der Nationalrat hat beschlossen:

Inhaltsverzeichnis

- Artikel 1: Bundesgesetz zur Regelung der Elektrizitätswirtschaft (Elektrizitätswirtschaftsgesetz ElWG)
- Artikel 2: Bundesgesetz zur Definition des Begriffs der Energiearmut für die statistische Erfassung und für die Bestimmung von Zielgruppen für Unterstützungsmaßnahmen (Energiearmuts-Definitions-Gesetz – EnDG)
- Artikel 3: Änderung des Energie-Control-Gesetzes

Artikel 1

Bundesgesetz zur Regelung der Elektrizitätswirtschaft (Elektrizitätswirtschaftsgesetz – EIWG)

Inhaltsverzeichnis

1. Teil Allgemeine Bestimmungen

Review draft of the new Electricity Industry Act in Austria ElWG

- Authorisation for service providers or 'caretakers' to make declarations on behalf members
- Operational control and authority of disposition for surplus suppliers
- Umbrella organization for local or regional ECs: one legal entity for several ECs within the service area of the same grid operator and within the same political district
- Non-discrimination clause for suppliers
- Smart meter, new standard: 15 minutes intervals
- **Storage facilites**: clearer specifications for use within ECs
- New model, peer to peer:
 - Only renewable electricity, one-to-one or one-to-many, no supplier obligations
 - Requirements: DSO has to be informed, Contract between involved parties
- Energy poverty law

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We provide solutions for a climate-neutral future.



Contact

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🎔 @at_AEA



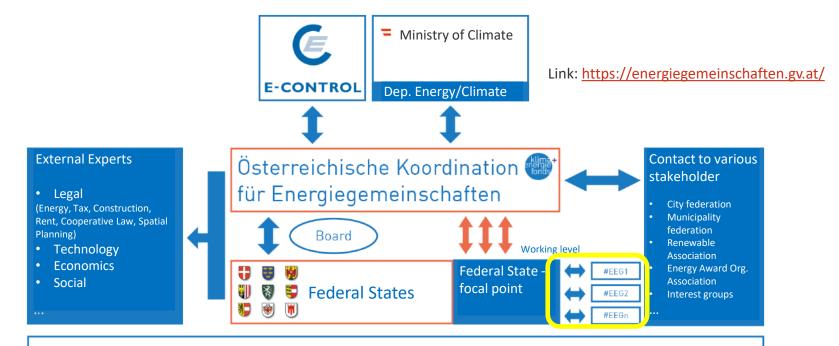
In the podcast <u>Petajoule</u>, the experts of the Austrian Energy Agency will be answering questions to the energy future with guests from the energy sector.



Austria



Coordination Office for Energy Communities



hotline, homepage,

common documents

(standardised advice FAQs, guidelines, standardized contract templates, best practice)

common campaigns, monitoring, trainings, recommendations for legal adjustments

Austria

EDA: Energy data exchange platform

- EDA is an **IT-infrastructure** that supports **data exchanges between different market participants** (electricity, gas, distribution and transmission etc.), as e.g.:
- History
 - Idea: a uniform, decentralised, electronic data exchange for the Austrian electricity and gas sector
 - started in 2012: the founding members were the nine federal DSOs, four municipal DSOs and the Association of Austrian Electricity Utilities (VÖEW)
 - ARGE EDA, "working group", association
 - 2023: 15 owners & 3 associations in the advisory board
 - legal form: limited liability company (GmbH) since 2020

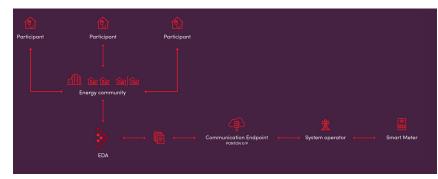




Austria

EDA: Energy data exchange platform

- Since 2022, data transfer for energy communities has been handled via EDA (step by step)
- Participation for Energy Service Companies and energy communities on the User Portal is **free-of-charge**.



Foundation

- Establishment of the organizational form
 (Associations, Cooperative etc.)
- Registration as market participant on <u>www.ebUtilities.at</u>

Realization

- Agreement between Energy
 Community and responsible DSO
 (Distributed System Operator)
- Connection to EDA-Infrastructure
- Electronic data exchange with the DSO via EDA-Infrastructure

Operation

- Management of participating metering points
- Receiving and processing of energy data
- Intra-community billing of the energy data to the individual participants

Implementation in Austria

Financial incentives for RECs in Austria

- (setting your own price, long-term price stability)
- Reduction of grid tariffs
 - Applies to energy price of grid tariffs
 - I-REC: 57% for GL 6 & 7
 - r-REC: 28% for GL 6 & 7 and 64 % for GL 4 & 5
- Elimination of Electricity tax (currently greatly reduced)
 - ~1,5 cent/kWh (currently 0,1 Cent/kWh)
- Elimination of Renewable Subsidy (currently discontinued)
 - ~1,2 cent/kWh (currently 0,0 Cent/kWh)

Prices for REC electricity for Household



Grid Levels and Energy Communities



