

# LOKALE POTENZIALE FREISETZEN – GLOBALE TRANSFORMATION VORANTREIBEN



Climate Alliance  
International  
Conference 2022



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# UNLOCKING LOCAL POTENTIAL – DRIVING GLOBAL TRANSITION



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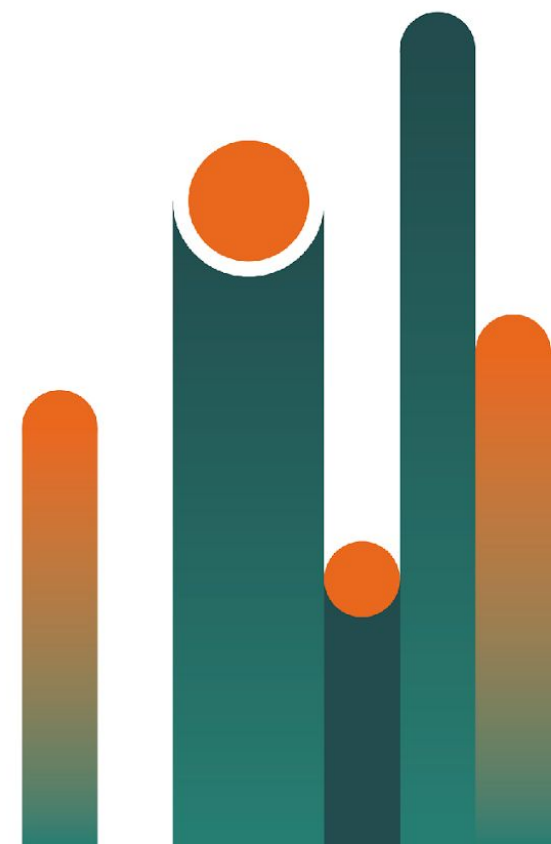
# How do energy cooperatives support energy communities on the regional scale?



Leire Astigarraga



Goener is  
a non-profit  
citizen  
energy cooperative



# Renewable energy communities



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An **ENERGY COMMUNITY** is a **legal entity**. **People** and **entities** of the immediate environment, **public** and **private**, work together to collaborate in an **activity related to the energy sector** with the aim of providing **services to its members and the local community** or other socio-economic and environmental **benefits**.

AIM  
OFFER  
WHO



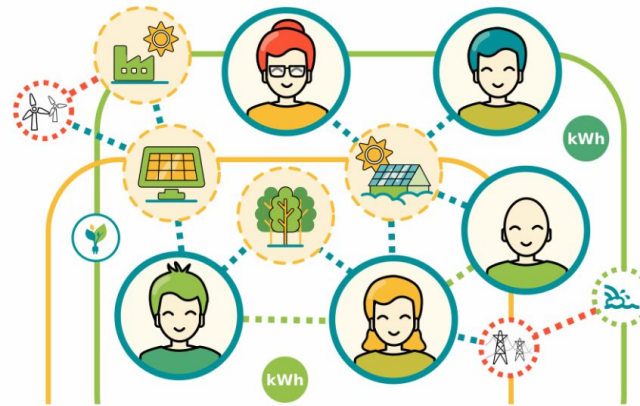
# Renewable energy communities

**Empowerment and ideologization:  
Energy transition and sovereignty**

**Responding to local needs and resources**

**Community:  
Network of agents and individuals**

**Bottom-up model:  
Participant and democratic**



**ENERGY  
COMMUNITIES**

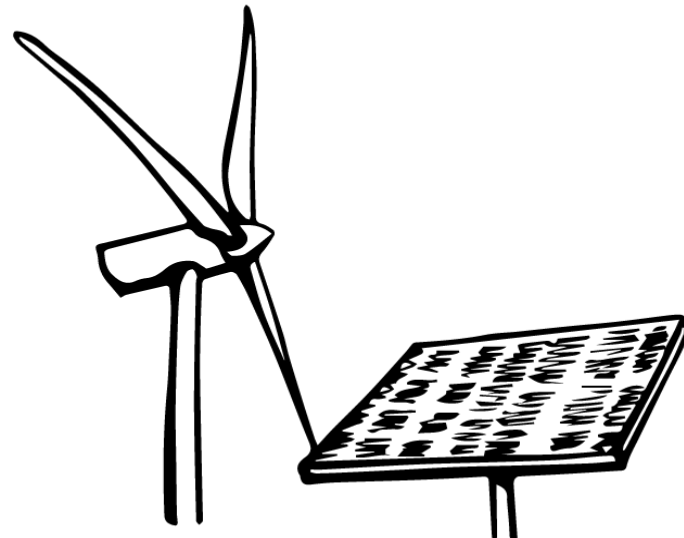


# Renewable energy communities



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- We are supporting in:
  - Creating **cooperatives**
  - Developing **Energy projects**
  - Working with **people**



# Goiener's proposal to create a REC

## Arouse interest and attract the public

Awareness campaign

Identification of stakeholders



## Preparing

Empowerment

Share knowledge about REC



## Create the REC

Create and empower the promoter group

Create Working groups

Legal form + energy projects

Prepare communication strategy



## Start up REC

Presentation of REC

Incorporation of new partners

Energy Project(s) start up



Municipality



Citizen



Companies



Supporting group



Promoter group



Working groups



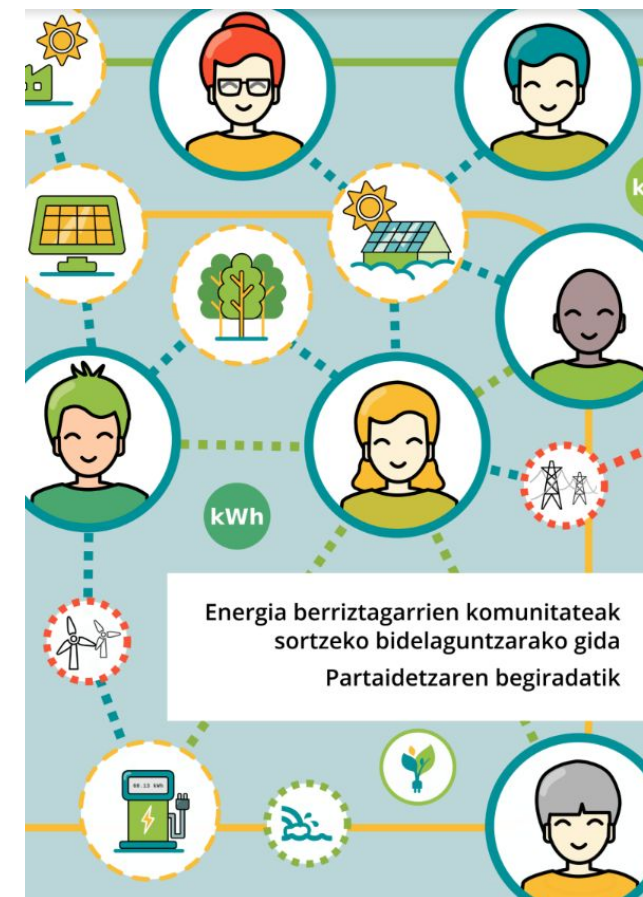
REC



# Goienar's proposal to create a REC

Guide to create Renewable Energy Communities.  
From the point of view of the participation.

- Socio-organizational process

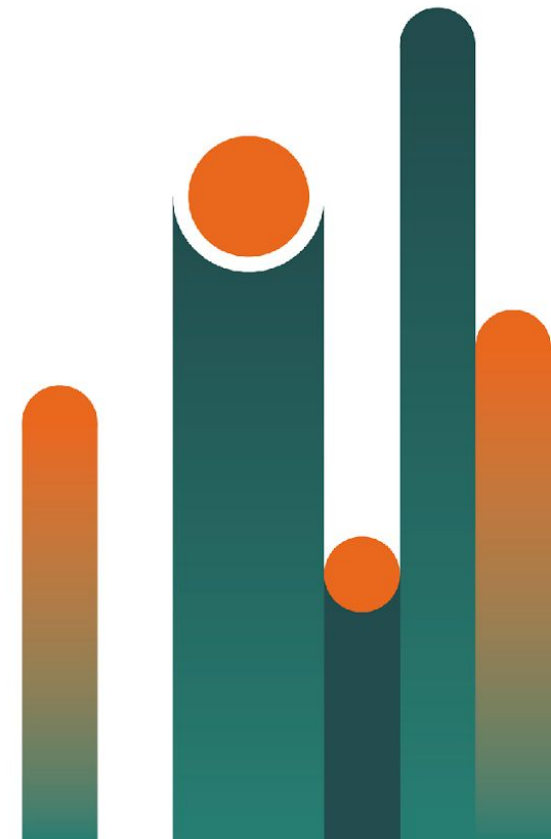


# Opportunities



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- Access to **local renewable energy** resources.
- Fighting **energy poverty**.
- Taking **control and responsibility** of energy self-sufficiency by promoting **energy democracy**.
- Generate income that persists in the **local economy** to fight the socio-economic needs of the community. Reinvest.
- Increase **social cohesion and the resilience** of local communities.



# Weaknesses






- Get **initial funding** from nearby citizens.
- Complexity of the use of **democratic internal governance** and local **participation** strategies.
- The market access **procedure and administrative barriers**, the **legal constitution** of the society.
- The **appropriation of the speech** by big companies.

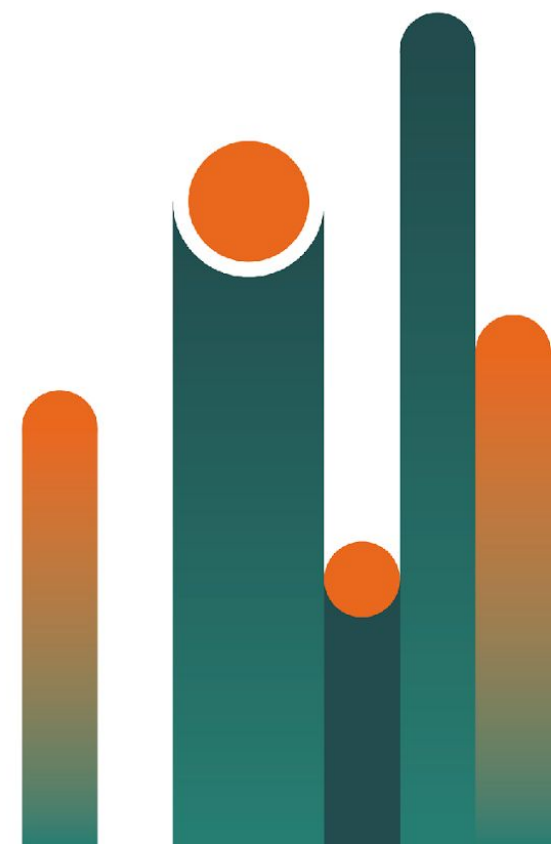


# WHY Energy community use case



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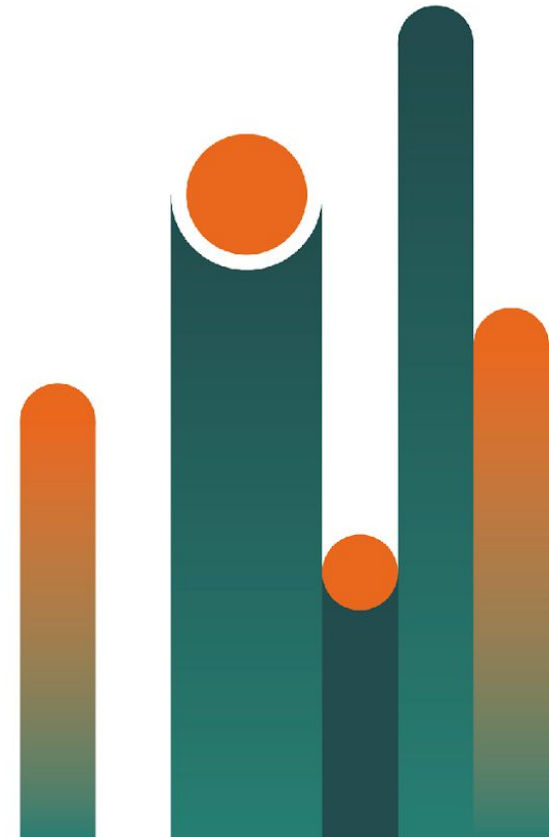
Scenarios	Geo.	Temp.	ESM	Objective
Gniebing Microgrid Operation	City	Hourly / Yearly	 Load Profile Generator	<ul style="list-style-type: none"> <li>• Improve load forecasting under normal operation</li> <li>• Create load profiles under black-out operation</li> </ul>
Energy Cooperative O&P	Regional	Hourly / Yearly	 Own Model	<ul style="list-style-type: none"> <li>• Improve load forecasting under normal operation</li> <li>• Test the impact of new policies / tariff have on the utility</li> <li>• Create tool to size the different components and to</li> </ul>
Energy Community	City	Hourly / Yearly	 Load Profile Generator	<ul style="list-style-type: none"> <li>• define the business and governance models</li> <li>• Help designing interventions that increase the participation on the energy community</li> </ul>
2030 & 2050 European energy strategy	European	2030 / 2050	 PRIMES	<ul style="list-style-type: none"> <li>• Create different load profile under different interventions to foster EE, DG, DR and ES</li> <li>• Assess the impact of different EE campaigns</li> </ul>
Global energy scenario	Worldwide	2100	 TIAM-ECN	<ul style="list-style-type: none"> <li>• Create different load profile under different interventions to foster EE, DG, DR and ES</li> <li>• Project business as usual energy consumption</li> </ul>



# Objectives

Develop a **set of tools** that allows to plan the **set up of an energy community** from the technical, economical, environmental and social perspective:

- Who should be involved?
- How to involve them?
- How to size the components?
- What business model / legal entity is the most effective?
- How to manage new contracts and cancellations after the set up?
- What is the best tariff system?
- What is the best control strategy?



# Scenarios to test

1

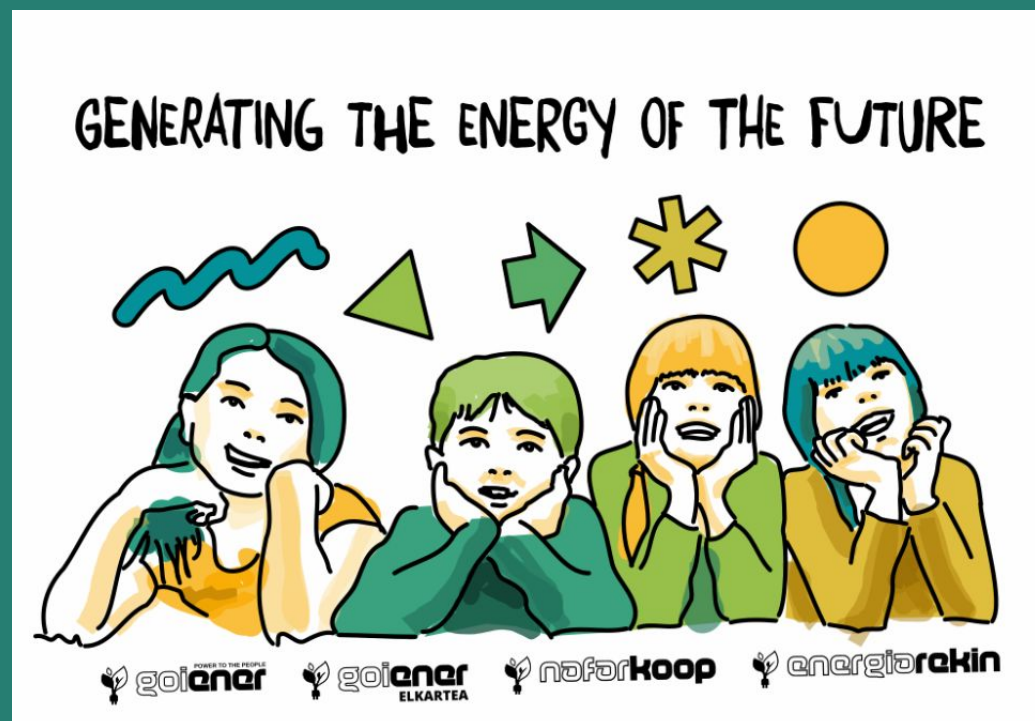
A **municipality** decides to constitute an energy community



2

A **group of citizens** wants to become an active part of the energy system

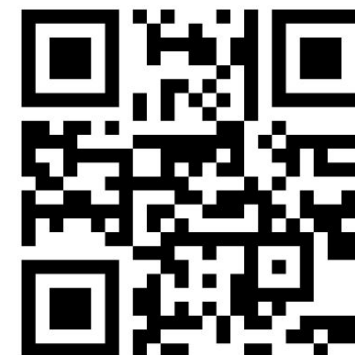




Thank you!

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# Booths & networking open: Mingle with peers and check out our online expo!

- 8 September 13:30 – 15:00
- 9 September 12:30 – 14:00 & 15:30 – 17:00

BREAK TIME

**Recharge and  
network!**

ZEIT FÜR EINE PAUSE

**Auftanken und  
vernetzen!**

