

What are the tools available

To test your market, your ideas, technologies





TOOLKIT



Available



Ready



BECOOP PROJECT

BECOOP-PROJECT.EU



TOOLKIT

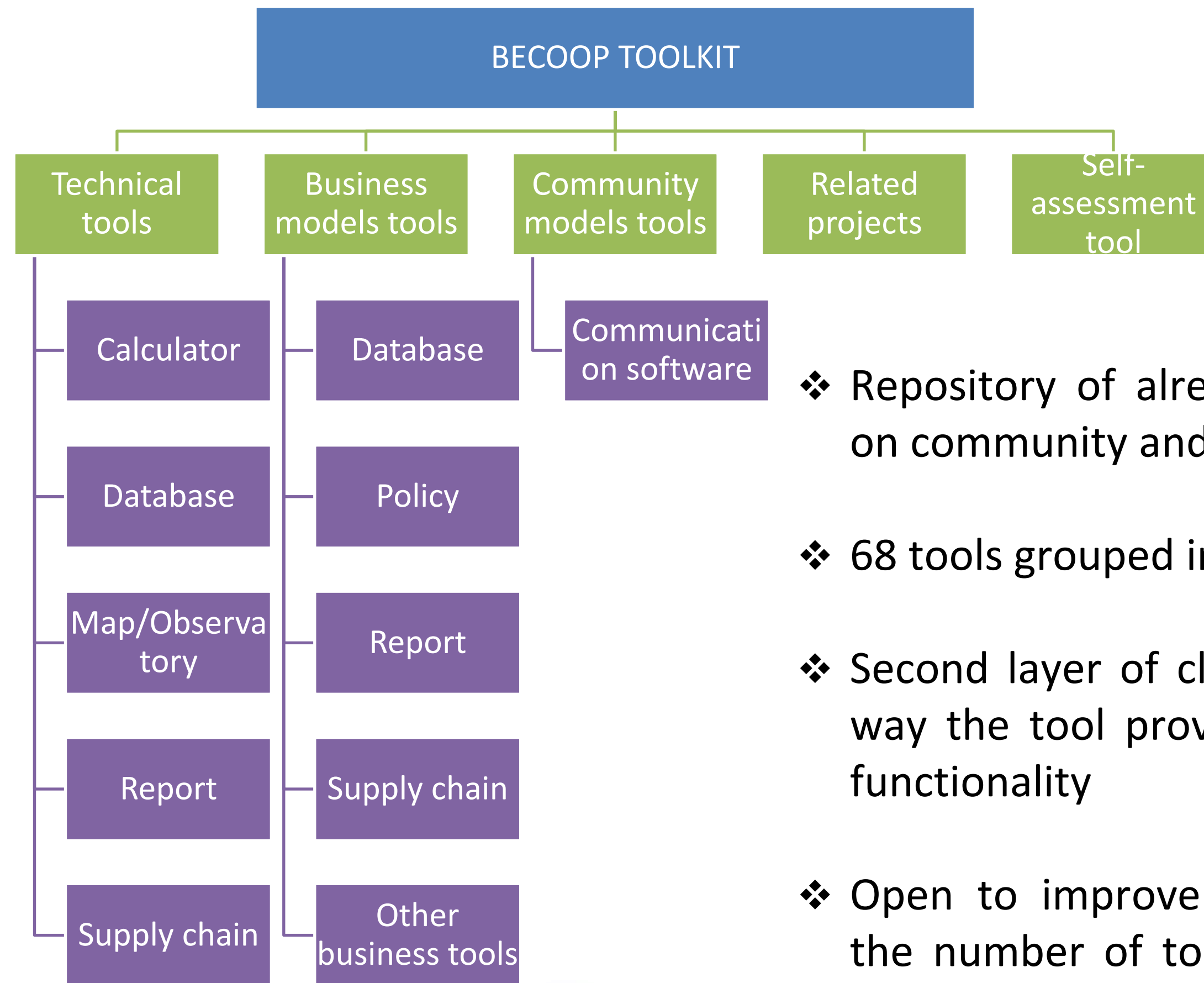
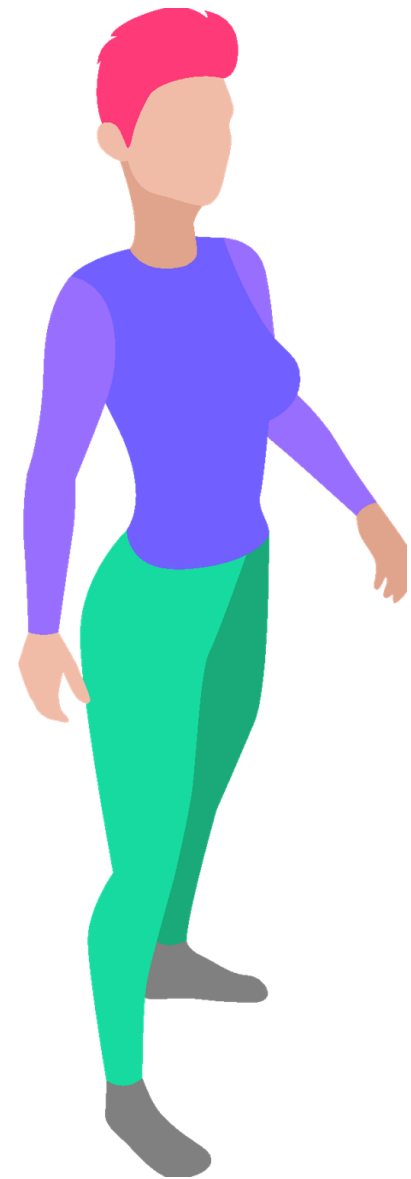
- ❖ Are you looking for more information on a specific topic based on bioenergy community? **Check the [BECoop Toolkit](#)**
- ❖ **Who is the target user?**
New or existing energy communities, developers and operators of community bioenergy and heating projects
- ❖ **What is needed as input?**
To have an identified issue.
- ❖ **Key outputs:**
 - It provides the whole sector with a reference webpage to turn to when a problem is identified and needs to be solved
 - It depends on which tool has been decided to be used
 - It will allow to obtain more knowledge about a specific topic





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- ❖ Repository of already existing tools focused on community and/or bioenergy projects
- ❖ 68 tools grouped in five different categories
- ❖ Second layer of classification: related to the way the tool provides its solution and their functionality
- ❖ Open to improvement and enlargement of the number of tools that are collected in it until August 2022.



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TOOLKIT

❖ Example: Andrea wants to know how she can obtain an approximate value of the thermal energy demand of a specific area?

Technical tools



Map / Observatory




Hotmaps

[Link](#) [Detailed info](#)

Summary:
Maps for energy, heating, cooling, waste information and more

Main objective:
The toolbox allows the user to: Identify the location of current heating and cooling demand as well as supply on a map for EU28; Identify renewable energy potential to supply heating and cooling for a selected area; Identify waste heat potential from industrial facilities within a selected area; estimate the potential for efficient district heating options within a selected area; estimate and compare the costs of individual heating vs district heating options within a selected area; develop scenarios for decarbonisation pathways of heating and cooling.




Agrobiomass Observatory: Agrobioheat

[Link](#)

Summary:
Observatory for different stakeholders in europe

Main objective:
Visual database of different succesful cases of agrobiomass heating systems in Europe. Enables the user to search for ESCOs, fuel suppliers, heating cases, equipment manufacturer, in a wide database.

End user:
Biomass owners, biomass management companies, ESCOs, Cooperatives / RESCoops, End users, public institutions, Research




GYGA (Global Yield Gap Atlas)

[Link](#)

Summary:
Atlas that enables viewing different kinds of crops around the world

Main objective:
The Global Yield Gap and Water Productivity Atlas (GYGA) provides robust estimates of untapped crop production potential on existing farmland based on current climate and available soil and water resources.

End user:
Biomass management companies, ESCOs, public institutions, Associations, Research centers

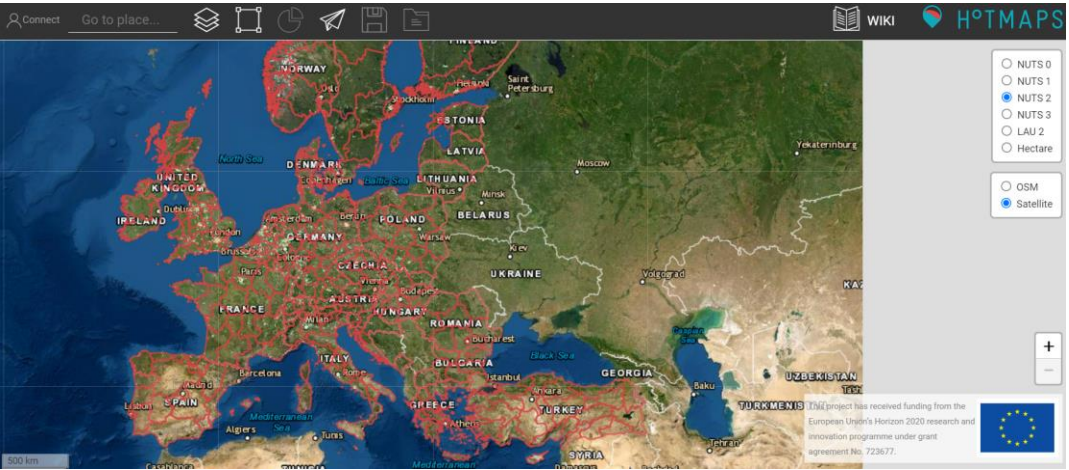



Hotmaps

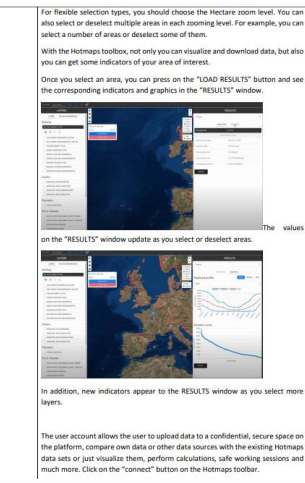
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Name of the tool	
Logo	
Link	https://www.hotmaps-project.eu/
Brief Description	The overarching goal of hotmaps is the development of an open source heating / cooling mapping and planning toolbox and to provide default data for EU28 at national and local level. These data and tool allow public authorities to identify, analyse, model and map resources and solutions to supply energy needs within their territory of responsibility in a resource and cost efficient way. These results will help authorities to develop heating and cooling strategies on local, regional and national scale which are in line with RES and CO ₂ emission targets on national and EU level.
Type of tool	Biomass relevant tool
Subtype	Tool
Related to	Technical tool
Most valuable information that can be obtained	The toolbox allows the user to: Identify the location of current heating and cooling demand as well as supply on a map for EU28; Identify renewable energy potential to supply heating and cooling for a selected area; Identify waste heat potential from industrial facilities within a selected area; Estimate the potential for efficient district heating options within a selected area; Estimate and compare the costs of individual heating vs. district heating options within a selected area; Develop scenarios for decarbonisation pathways of heating and cooling.



Available



Ready



SELF-ASSESSMENT TOOL



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SELF-ASSESSMENT TOOL

- ❖ Are you seeking a tool for assessing the current status of a bioenergy community initiative that you want to promote? **Check the [BECoop self-assessment tool](#)**
- ❖ **Who is the target user?**
The tool is designed for non-specialised, inexperienced users, no matter the type of stakeholder that you are.
- ❖ **What is needed as input?**
15-30 min and English comprehension
- ❖ **Key outputs:**
 - A current status of the bioenergy community initiative that you want to develop.
 - Your strengths and weaknesses through a visual way.
 - Recommendations about how to progress in the uptake of your initiative.



Available

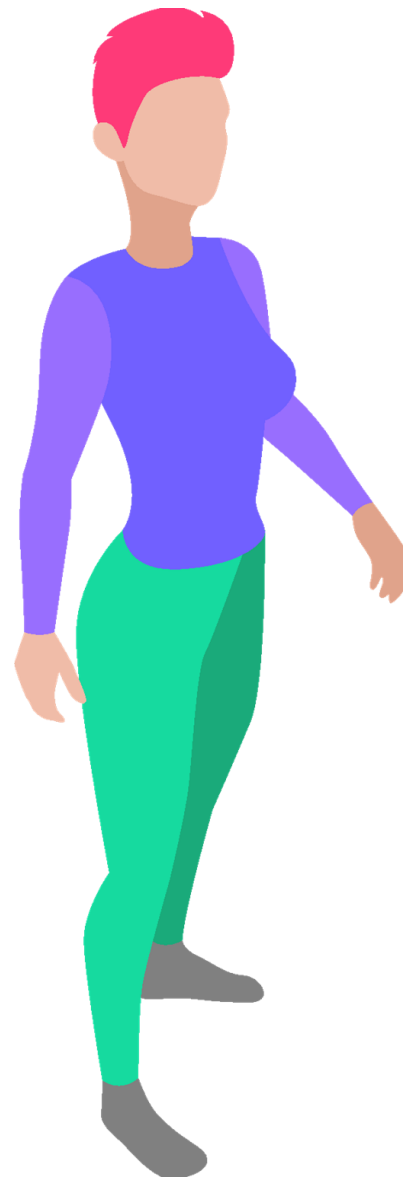


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SELF-ASSESSMENT TOOL

- ❖ It is based on the residential sector and small heating applications.
- ❖ It consists of self-evaluation forms that evaluate an initiative's status.

Knowledge
of the
resource

User
engagement

Technical
solution
maturity

Business and financial
solution maturity

Social and
environmental
impact

- ❖ It will act as roadmap, helping the user to check if the most relevant aspects or considerations have been taken into account and providing recommendations.
- ❖ It is in English and therefore can limit the usefulness in some countries.
- ❖ It is under development, any feedback to improve the functionality of the tool is very welcome.



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SELF-ASSESSMENT TOOL

SELECTION OF THE RESOURCE

5 different biomass resources are considered in the tool

SELECTION OF THE ACTIVITY

14 activities are considered in the tool grouped in 5 main groups: logistic supply biomass processing, bioenergy production, distribution and consumption

ANALYSE THE RESULTS

Analyse all the recommendations provided by the tool and the final mark obtained which is represented through a spider-net

ACTIVITY QUESTIONS

Andrea should answer around 18 questions associated to the following categories: user engagement, technical solution maturity, business solution maturity and social and environmental impact

KNOWLEDGE OF THE RESOURCE QUESTIONS

Andrea should answer 5 questions associated to the resource selected



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The Business model tool



Available



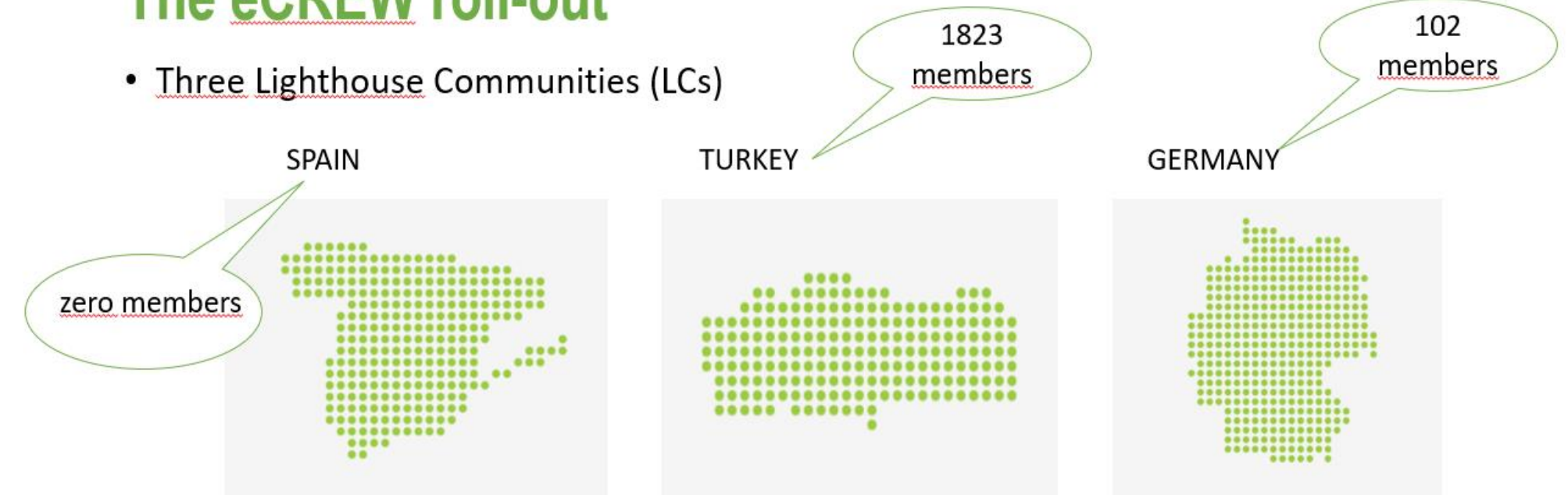
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Experiences from three Lighthouse Communities



The eCREW roll-out

- Three Lighthouse Communities (LCs)



The Business Model: *roll-out and test phase*

- Digital platform – visualizing real time energy flows, with real time tariffs, spilt-incentive-scheme, household comparison, PV-amortization calculator, individual and collective actions
- Awareness programs
- Enablers and barriers (contingencies, values and governing logics,)
- Benefits for Collective Action Entities (CAE; energy utilities), Consumers and Prosumers



Available



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UP-STAIRS digital platform



Available



Ready

h2020-upstairs.eu (Project)

upstairs-energy.com (OSS)



The UP-STAIRS project is

- A **One-Stop-Shop** to realise **Citizen Energy Communities** and **Renewable Energy Communities**
- A combination of **physical** and **online** One-Stop-Shop in **5 Pilot regions**
- Targeting **Citizens**
- Based on **engagement** between **Citizens** and **Implementation Champions**
- Helping to **implement** EE and RE measures

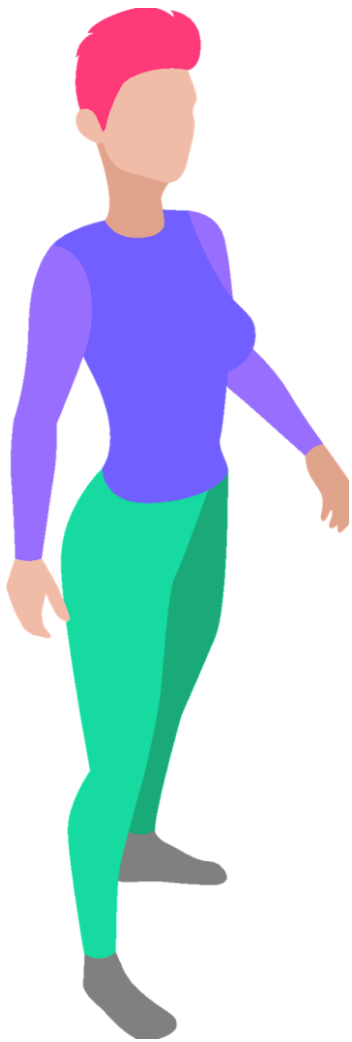


Available



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h2020-upstairs.eu (Project)
upstairs-energy.com (OSS)



The UP-STAIRS digital platform

- is a good online tool, but **cannot substitute personal meetings**
- **does not deliver** automated project management or **instant output**

In the future, the UP-STAIRS digital platform

- runs an **18-months test-cycle** by 5 Pilots
- will **add tools**
- **optimise onboarding and matching** of citizens



Available



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h2020-upstairs.eu (Project)

upstairs-energy.com (OSS)



Andrea...

- ... is a citizen
- ... wants to set up an energy community in her municipality
- ... is looking for end-to-end support
- ... wants to engage others through the platform to join her REC

UP-STAIRS

DE EN LOG IN SIGN UP

MON-THU 8AM-4:30PM
FRI 8AM-12PM

+43-732-7720-14380

LANDSTRASSE 45
A-4020 LINZ

ABOUT US REGISTER FOR FREE

The Energy Saving Association of the State of Upper Austria advises and supports Municipalities, Citizens and Companies in setting up Energy Communities (EEG's) in Upper Austria. Come, talk to us and meet like-minded-people in your Community!

ADVANTAGES
WHICH ADVANTAGES DO ENERGY COMMUNITIES OFFER TO ME?
The "Renewable Energy Communities" (EEGs) offer new possibilities towards 100% local renewable energy supply. In these energy communities it is possible to generate, store and use renewable electricity together.
[more](#)

MEMBERS
WHO CAN BE PART OF AN ENERGY COMMUNITY?
Members of an energy community can be citizens, municipalities and other public institutions as well as SMEs whose production or consumption facilities are located in the area of an EEG.
[more](#)

SET UP & HELP
WE SUPPORT YOU TAKING THE FIRST STEPS TOWARDS AN EEG!
A renewable energy community consists of its members (at least 2) and has its own legal personality, its main purpose must not be financial gain.
[more](#)

I'M INTERESTED IN ADVICE



Available



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Energy community Platform



Available

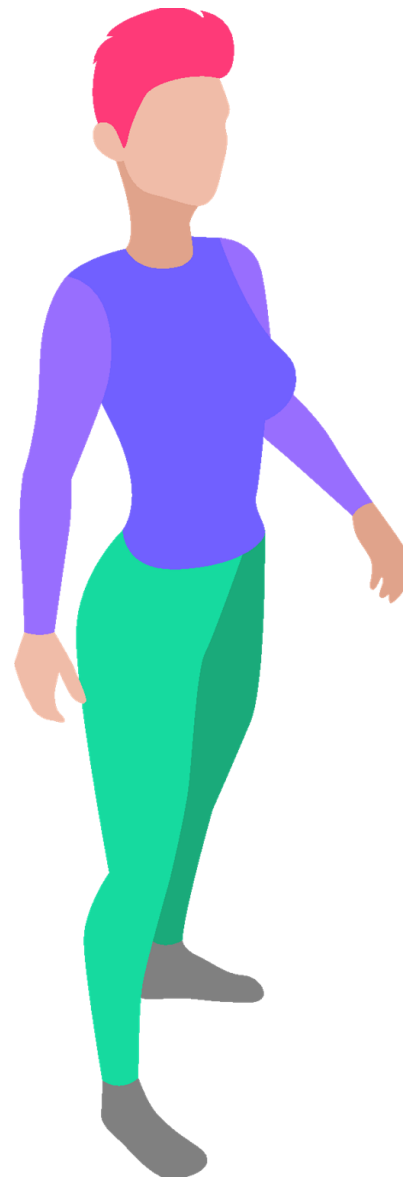


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COME RES PROJECT

COME-RES.EU



Energy Community Platform

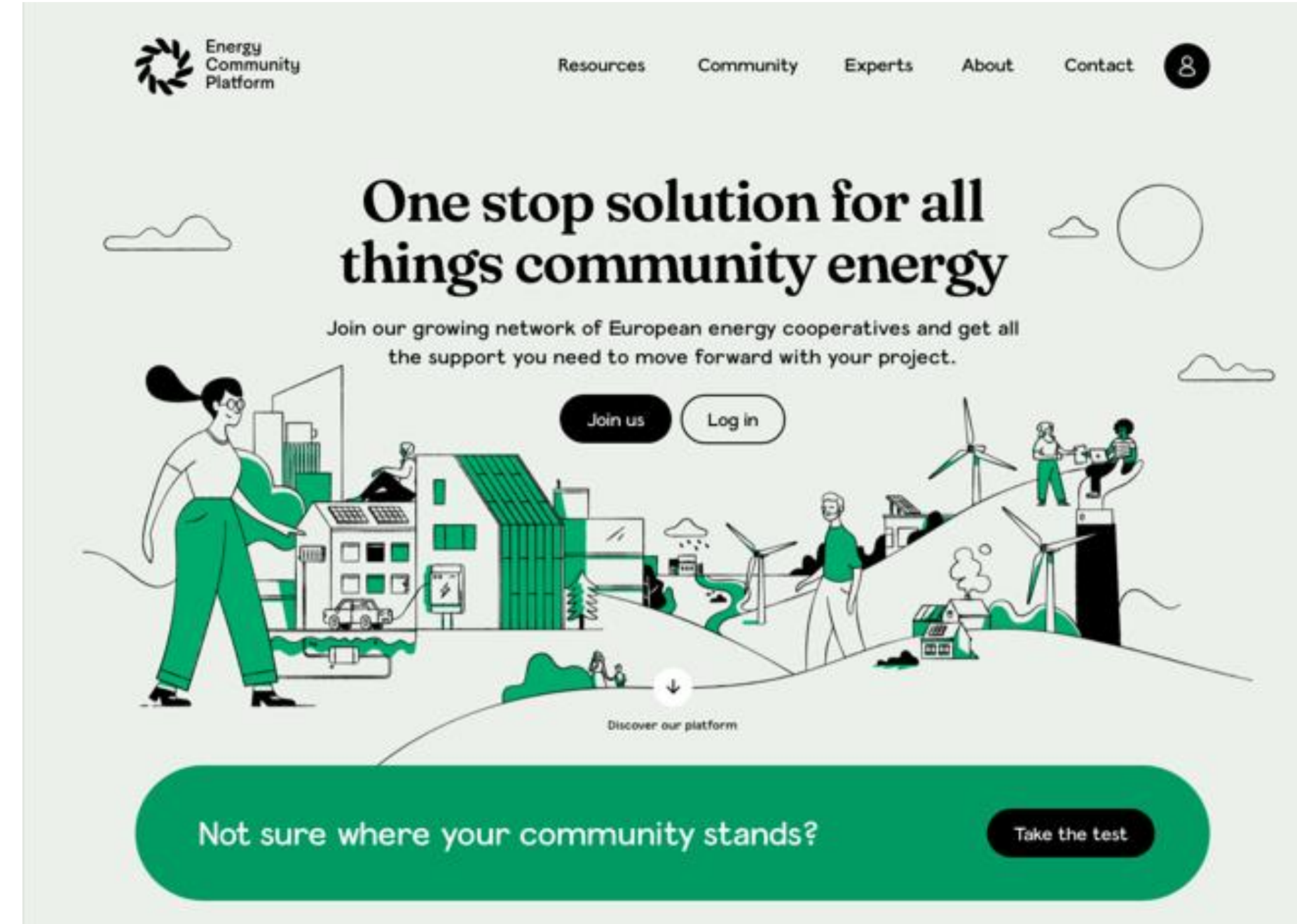
developed by REScoop.eu

Main features:

- Gathers all **resources** relevant for energy communities in 1 tool
- Resources classified based on the stage of the development of an energy community – take a **test!**
- **Community map**
- **Experts network**

Target users:

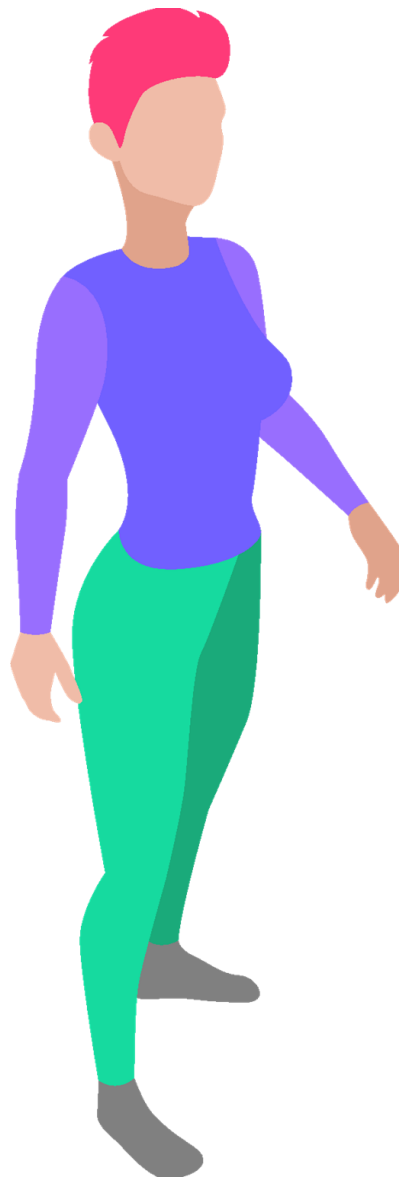
Citizens and communities that want to start or advance their energy community projects





COME RES PROJECT
COME-RES.EU

COME RES additions to the Energy Community Platform



GUIDE FOR RECS
IMPLEMENTATION

Country-specific information collected and/or produced in COME RES will be provided to the users, including identification of financing opportunities, minimum requirements and procedures, list of relevant entities, etc.

CAPACITY
BUILDING

Transfer and training material will be added to the resources of the platform. Also, there is the opportunity to recruit national experts to join the expert list of the platform.

SHOWCASE OF BEST-
PRACTICES

Map will identify several energy community initiatives, that will serve as example to other RECs. Best-practices will be added to this map, with a description of the initiative and contact.

SUSTAINABILITY
SCORECARD

Convert the methodology developed within the project in a interactive tool that RECs could use to assess their specific benefits, including social, economic and environmental benefits.

OTHER RESOURCES

All resources which are relevant for promoters and members of RECs will be added to the platform resources, and will be classified based on country, type of support/topic, and development stage.



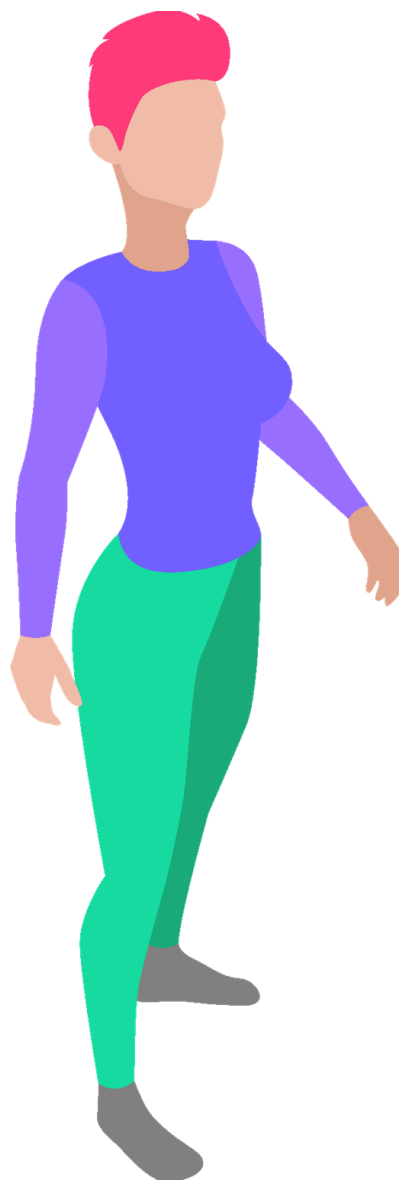
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COME RES PROJECT
COME-RES.EU



- Andrea lives in Porto in Portugal
- Rising electricity prices → idea to set up an energy community with her neighbors
- She doesn't know where to start...
- **Check the Energy Community Platform and take the test!**

Your test result

You're in stage 1: Awareness

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View useful resources

Dashboard matrix

Download .xlsx

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	Low	Medium	High
1 Community meetings to define your activities.	No meetings yet	1 meeting held, no outcome	2 meetings held, decision to create group
2 Number of members	0	2	5
3 Vision	No vision	Some ideas	Clear vision



Available



Ready



Gender audits



Available



Ready



GENDER AUDITS

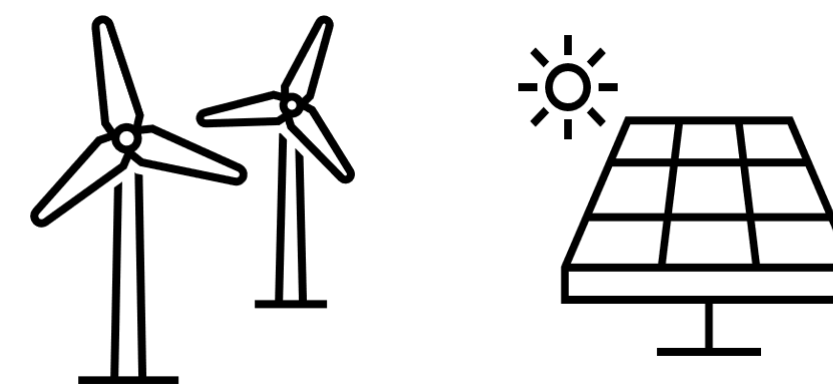
- **Goal:** Help to identify gender gaps in existing organizations and projects; Include gender equality in business model
- **Scope:** Workplaces, energy communities themselves
- **Target user:** Person having access to statistics, programs and policies
- **Inputs needed:** e.g. Share of women/men in decision-making position, members educational/professional background, etc.
- **Key outputs:** Identify where initiative will have the greater impact; develop recommendations; action planning



Available



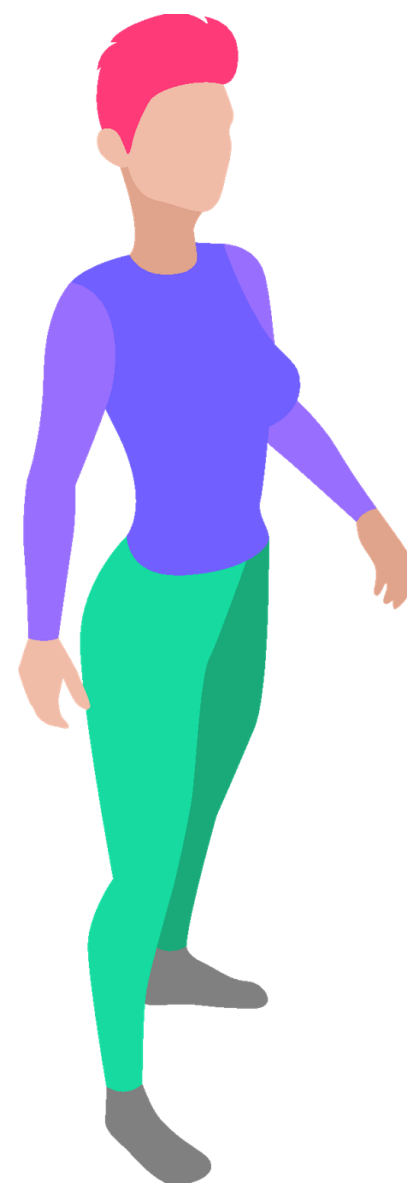
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GENDER AUDITS

Different purposes, e.g. better knowledge of the community, monitor progress, make the community more attractive

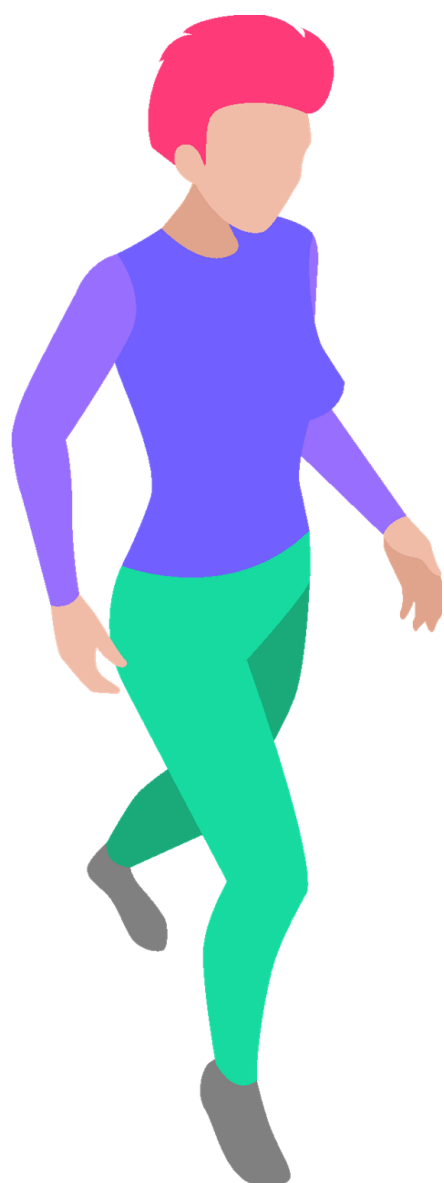
- **Future development directions:** Recommendations development for future action planning



Available



Ready



GENDER AUDITS

- **The role of Andrea:** Answer survey and develop action plan based on recommendations received
- **What she is looking for and what is she getting from the tool:** Recommendations to improve gender equality in the energy community and its benefits
- **How can this be used for the community energy initiative:** develop and implement a gender action plan following recommendations

Don't be fools, use gender tools!



Available



Ready



Our Energy



Available



Ready

NEWCOMERS

NEWCOMERSH2020.EU



Why and how will Andrea benefit from **Our Energy**?

Goals: to share ideas, knowledge and experience

Target users: energy community members, policy-makers, students, academics...

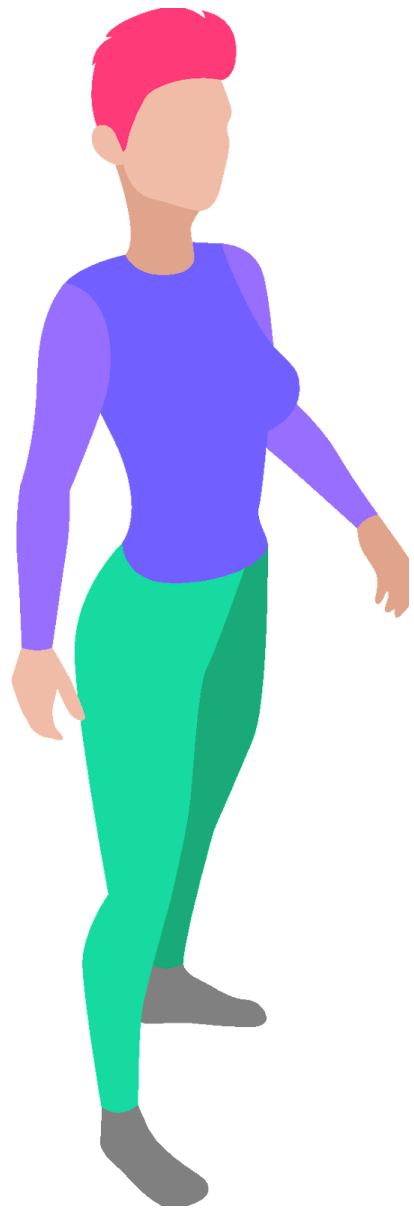
Key inputs: people from a variety of areas sharing their experience and knowledge

Key output: short, dynamic, multimedia presentations about energy communities and energy in general



NEWCOMERS

NEWCOMERSH2020.EU



What can Andrea expect from **Our Energy**?

Our Energy platform offers:

- Educational content
- Advisory content
- Inspirational content
- Networking possibilities

Limitations:

- Updating after the end of the project
- Reaching people

Solution:

Integration of Our Energy into new projects



Available



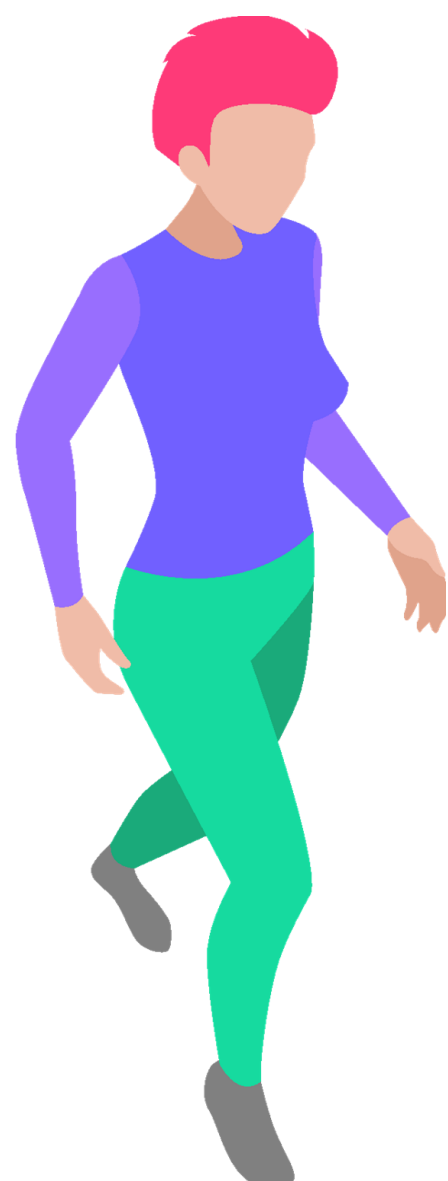
Ready

NEWCOMERS

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How can Andrea use **Our Energy**?

 **Our Energy**



☒ **Available**

☒ **Ready**