

MODULE 3 - Support energy poverty alleviation actions

ECN/COOPERNICO/GOIENER





Module – Structure and content

- Module goals
- Module content
 - PART I Collective Innovative Actions for Energy Poverty An Introduction
 - PART II Crowdfunding & Innovative Finance
 - PART III Collective Energy Initiatives
- Module summary
 - Key takeaways
 - Further reading





Module 2 – Goals

- Introduce the concept of Collective Innovative Actions for Energy Poverty
- Explain what crowdfunding is and how to use it
- Introduce the concept of Collective Energy Initiatives and equip participants with the necessary skills to create their own initiatives





PART I: Collective Innovative Actions for Energy Poverty – An Introduction

What are Collective Innovative Actions for Energy Poverty?

What can they do to alleviate energy poverty?



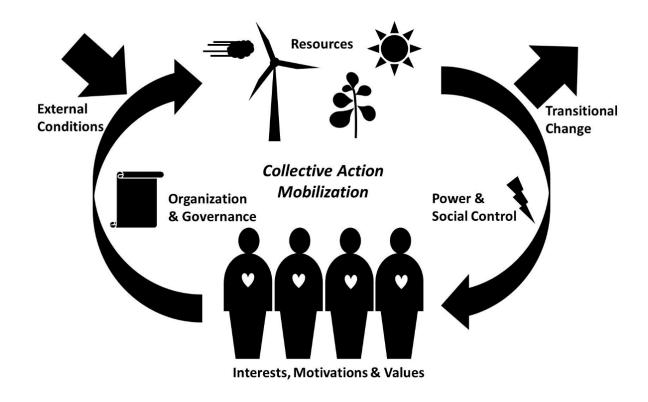


What is a Collective Innovative Action?





Collective Innovative Actions such as energy communities or crowdfunding initiatives are based on a simple yet powerful idea:



There is strength in numbers!





How can you achieve an ambitious goal without having sufficient resources to do it on your own?

Normally, you might ask your friends and family to help you by either donating some money or giving you a small loan.

When you expand that idea to an entire neighborhood or region and build an organization around it, it becomes a community.

















Collective Energy Initiatives

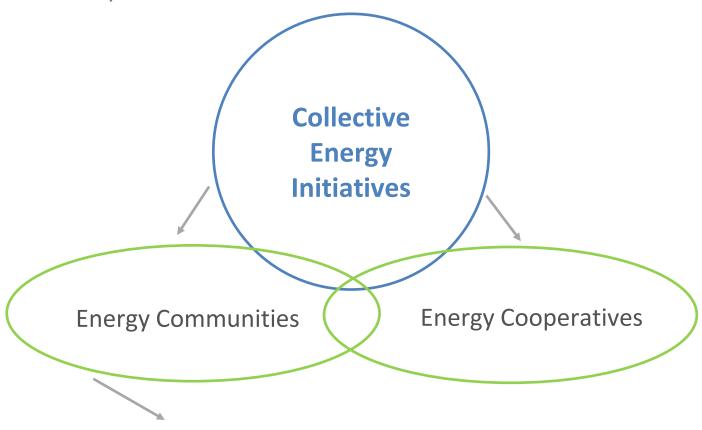
Collective Energy Initiatives, as the name indicates, are initiatives to bring citizens together and develop joint strategies to:

- gain access to affordable energy,
- tackle a certain issue such as energy poverty,
 - empower citizens in the energy market,
- find a new electricity source, for instance, by switching from traditional retailers to renewable energy ones and/or to self-generation.





What are they?



Citizen Energy Communities

Renewable Energy Communities





What are they?



Community finance

Community finance, or crowdfunding, is the natural extension of cooperative finance initiatives to even larger communities, typically via the Internet. It draws support from people across entire countries in order to make specific projects feasible and create change at the local level, raise awareness of social challenges or inspire communities to engage with local initiatives.





What can they do to tackle energy poverty?

What can Collective Innovative Actions do to tackle energy poverty?





What can they do to tackle energy poverty?



The **collective approach** fostered by energy communities and/or crowdfunding initiatives is **particularly appropriate** to address the enormous challenges faced by energy poor citizens who wish to:

- take action to reduce their energy consumption or
- improve the energy efficiency of their households.





What can they do to tackle energy poverty?



Community actions allow building/household owners to pay the large upfront costs of investments in Renewable Energy Sources (RES) or Energy Efficiency (EE), which traditional financial institutions may not be interested in funding or able to finance.

- When it comes to renewable energy generation, energy communities can support installation services by raising the initial capital required to make a large investment in generation capacity.
 - In the case of EE investments, external funding and motivational support can allow property owners to overcome the energy efficiency gap.





What can They do for energy poverty?



Community-based RES installations allow individuals who would not be able to purchase their own generation system, or do not have a sunlit private roof or area, to take part in the renewable energy transition.

Likewise, energy-based communities allow individuals to easily invest in EE improvements, derive income from them, and participate in the energy transition. They also allow individuals already taking part in the energy transition to increase their participation levels under sustainable conditions.





What can They do for energy poverty?



Community-based RES installations generally lower installation costs and increase revenues by utilizing economies-of-scale and optimal siting of generation capacities.

Similarly, large-scale EE investments can take advantage of bulk purchases and economies-of-scale to **improve the returns on such investments**.





What can They do for energy poverty?



Collective innovative actions can also support off-grid energy poor households, such as those in rural areas that are not connected to the energy grid, and improve their access to energy by helping them pull together the resources and capital required for capital-intensive off-grid energy projects.





What can They do for energy poverty?



At the same time, the community approach allows individuals to combine their buying power to purchase energy (not only generate it), obtaining better prices in the wholesale market.





What can They do for energy poverty?



At the same time, the community approach allows individuals to combine their buying power to purchase energy (not only generate it), obtaining better prices in the wholesale market.





PART II: Crowdfunding & Innovative Finance

What is community finance?

How does it work?

Setting up a campaign

How can community finance help tackle energy poverty?











What is it



Community Finance is the practice of funding a project or venture by raising small amounts of money from a large number of people, typically via the Internet.





Crowdfunding & Innovative Finance Key elements



Open call to raise funds for a specific project

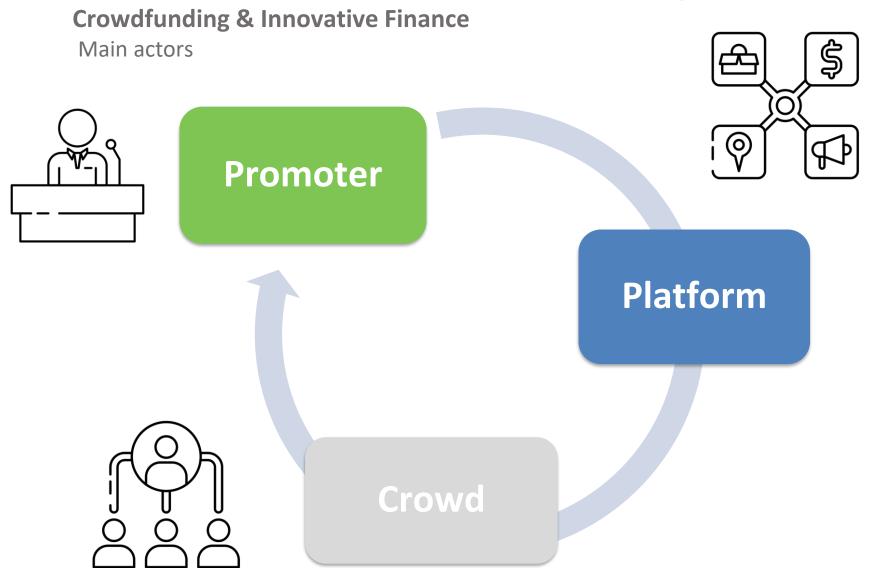
From anyone with Internet access (potentially)

Through an Internet-based mechanism (specialised website)

Foreseeing tangible or intangible benefits in exchange for each economic contribution









Terminology and different Models

Non-financial

Match-funding

Financial



Donation

Reward

Contribution in

exchange for a perk or

a product pre-order

Investment for an the business

ownership share in

Equity



Lending

Capital repayment most often with interest

500k - 2 million € Avg: 350.000 €

donation or gift, no return expected

Philanthropic

Up to 10.000 €

Up to: 30.000 €





Terminology and models

	Form of contribution	Form of return	Motivation of funder
Donation Crowdfunding	Donation	Intangible benefits	Intrinsic and social motivation.
Reward Crowdfunding	Donation/ Pre-purchase	Rewards but also intangible benefits.	Combination of intrinsic and social motivation and desire for reward.
Crowdfunded Lending	Loan	Repayment of loan with interest. Some socially motivated lending is interest free.	Combination of intrinsic, social and financial motivation.
Equity Crowdfunding	Investment	Return on investment in time if the business does well. Rewards also offered sometimes. Intangible benefits another factor for many investors.	Combination of intrinsic, social and financial motivation.





General benefits







Specific benefits





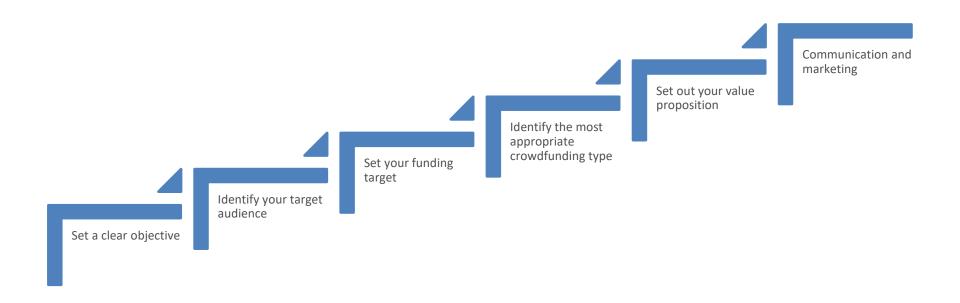








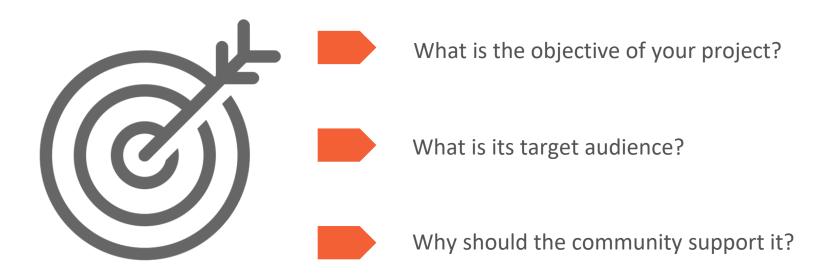
The crowdfunding process







Project idea outline





Exercise: answer each question with a concise and clear sentence.

Icon by artworkbean from the Noun Project



Potential funders

Own Network (friends, family, peers) People reached through media coverage Businesses as part of CSR activities People reached through affiliated communities/networks Our network **CROWD** Conversion rate of 1-3% **Investors**



Icon by Silvia Natalia from the Noun Project



Understand your target audience

Friends and family

Peers

Organisations

- Who do you think will be supportive of your work and why? (friends, family, peers, people interested in the research area)
- How big are the audience groups?
- How much money can the different groups give? Which one should be the focus?
- How can you reach them?
- What is the best style of communication?
- Why would they be interested in your project?
- Who in your network can help you reach your audience?



Exercise: Identify at least two potential funders, as well as organizations and amplifiers relevant to your campaign





Identify your **f**unding needs

How much money do you need to achieve your objective?



Campaign production costs

rewards, videos, marketing, etc.



Service costs

Crowdfunding platform fees, transaction fees





Campaign concept outline

Your objective

What do you need funds for?

Project type

Social cause? Tech? Consumer product?

Project stage

Pre-seed? Seed? Early Stage? Growth?

Type of capital

Equity? Debt? Donation? Commercial?

Funds needed

How much money do you need to achieve your objective?

Target audience

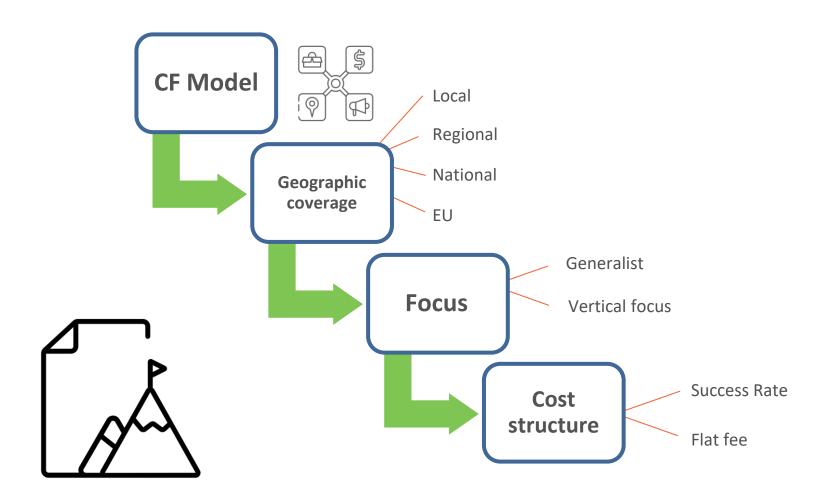
Who is the target audience of your campaign?

TYPE OF CROWDFUNDING





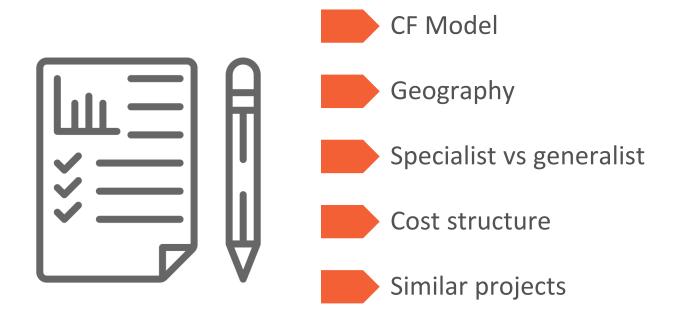
How to choose your crowdfunding platform







Due diligence of platforms





Exercise: Identify the right platform for you + 1 similar project

Icon by Pedro from the Noun Project





Setting up a campaign





Organize your ideas

Telling a compelling story...

What?

Why?

How?

Who?

When?

Where?

Why do you need their support?

What do you offer in exchange?

Call to action



Use appropriate language and tone for your audience



Present your ideas



... and create a compelling video

- Max. 3 min
- Entertaining or emotional
- Show your face
- Use copyright-free music
- If budget allows, seek help from a professional videomaker



Exercise: Draft your story in max. half a page





Organize your strategy

Select the right communication channels







Tips to take into account

- Do use appropriate tone and language for each audience
- Do prepare your messages in advance
- Do prepare a communication plan
- Do keep your social media updated
- Do focus on channels where you already have a solid network
- Do organize a launch event
- Don't be afraid of asking (for advice, contributions, input,
 etc)





Focus on the typology of crowdfunding that you use

Set the right incentives

Donation Reward **Equity** Lending Financial return Appel to intrinsic Financial return motivation & Extrinsic + intrinsic Interest rate Intrinsic philanthropy motivation motivations Provide updates on Offer a variety of Valuation the latest rewards considering developments of different income and % offered interest levels projects Promise & deliver Express grattitude Perks' perceived value growth to your donours Market rate



Exercise: Identify the best incentives for your case





Start your campaign

Research & prepare	Campaign	Follow up and engage
Benchmark Strategise Research Make lists	Execute Evaluate Correct	Provide updates Deliver your project Manage expectations
Connect Define messages Reach out	**************************************	Be responsive Keep audience engaged

Icon by Pedro from the Noun Project



CASE STUDY	CROWDLENDING MODEL	LOCATION
	FOR ENERGY COOPERATIVE RES PROJECTS	PORTUGAL
DESCRIPTION	Charities, NGOs, schools and elderly care institutions sometimes struggle to pay Members of Coopérnico wanted to provide them with more renewable energy fenergy grid through a decentralized model.	•
SOLUTION	Cooperative members lent their money so that the cooperative could promote a capacity on the rooftop of the non-profit entities. The cooperative then sells the the grid or to the entity, which can be self-consuming the electricity produce, an members' investment and share the economic benefits with the rooftop owners paid, annualy, their investment plus interest rates (between 10-15 years), Coopé project to the rooftop owner so they can consume directly from the RES project additional years for free.	energy produced back to d is able to pay back the . After the members are ernico donates the RES
IMPACT	So far, Coopérnico has 28 projects distributed across Portugal: - The installed capacity power of the projects totals more than 1,9MWp - Only possible due to a citizens' investment of more than 1,79M - CO2 emissions reduction totals around 1820 tonCO2/year - 1087 families are supplied with renewable energy generated by the projects	

Source: Coopérnico. https://www.coopernico.org/en/projects







Source: Coopérnico CRL https://youtu.be/j_fxGMJqEN0



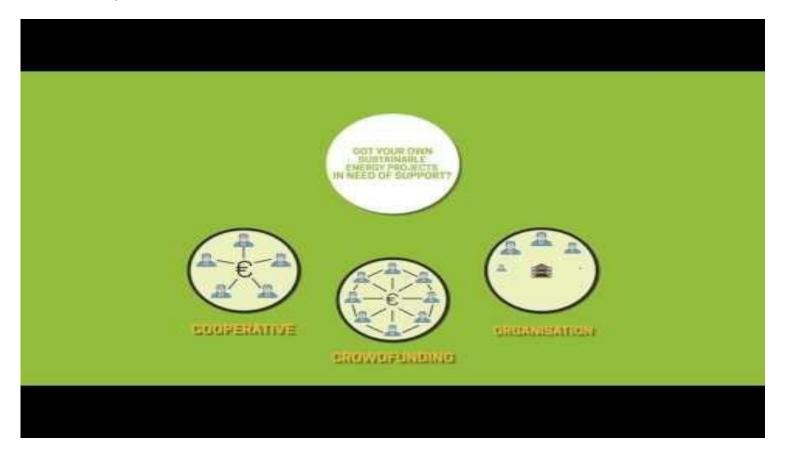


CASE STUDY	WORLD'S FIRST PORTAL	LOCATION
	FOR RES PROJECTS – Citizenergy.eu	Global
DESCRIPTION	You have a sustainable energy project in need of support and don't know what t invest in a sustainable energy project or learn more about them?	o do? Do you want to
SOLUTION	You can access the Citizenergy online portal to find a funding platform for your project and let the world know that you need support. You can also use it to lear sustainable energy projects or to invest in one if you wish to.	
IMPACT	 So far, Citizenergy has: 33 funding platforms registered 73 projects funded The projects are located in more than 20 countries around the world Almost 42M€ of investment in sustainable energy projects Almost 203 MWh of energy produced from sustainable energy projects 	

Source: Your Power in Citizenergy. https://citizenergy.eu/







Source: Your Power in Citizenergy. https://citizenergy.eu/





CASE STUDY	SOLARISATION OF GREECE:	LOCATION
	REWARD CROWDFUNDING CAMPAIGN FOR SOLAR PANELS	
DESCRIPTION	With energy poverty being one of the most dramatic symptoms of the debt crisis households were struggling to pay their energy bills), investing in the abundant sasset, helped put money back in people's pockets by reducing their energy bills, the job market by teaching them new skills and giving them opportunities, while renewable energy transition.	un, the country's biggest brought them back into
SOLUTION	Greenpeace Greece launched a reward-based crowdfunding campaign to finance panels onto the houses of families who lived on the brink of energy poverty in the	
IMPACT	35.063€ raised from 1161 backers Lower energy bills for involved households with significant savings Reduced dependency on oil energy production and oil subsidies	

Source: https://www.indiegogo.com/projects/solarization-of-greece#/updates/all





CASE STUDY	Crowdlending campaign for the energy reabilitation of a homeowner	LOCATION
	community	SPAIN
DESCRIPTION	Project to replace community boilers and other energy efficiency measures in the production system of a community of homeowners in Barcelona. The project ach in the energy consumption of the centralized DHW production system, as well as real consumption of each home.	nieved significant savings
SOLUTION	 Crowdlending campaign for the realization of a series of energy efficiency propose Replacement of old atmospheric gas boilers with new, more efficient watertig Replacement of the old circulation pumps New monitoring and control system Installation of individual ACS meters in each house 	
IMPACT	49,600€ raised from 56 backers Lower energy consumption for involved households with significant savings on the CO2 emissions reduced by 16 tons/year	he energy bill

Source: https://www.ecrowdinvest.com/detalles/comunidad-propietarios-barcelona#description



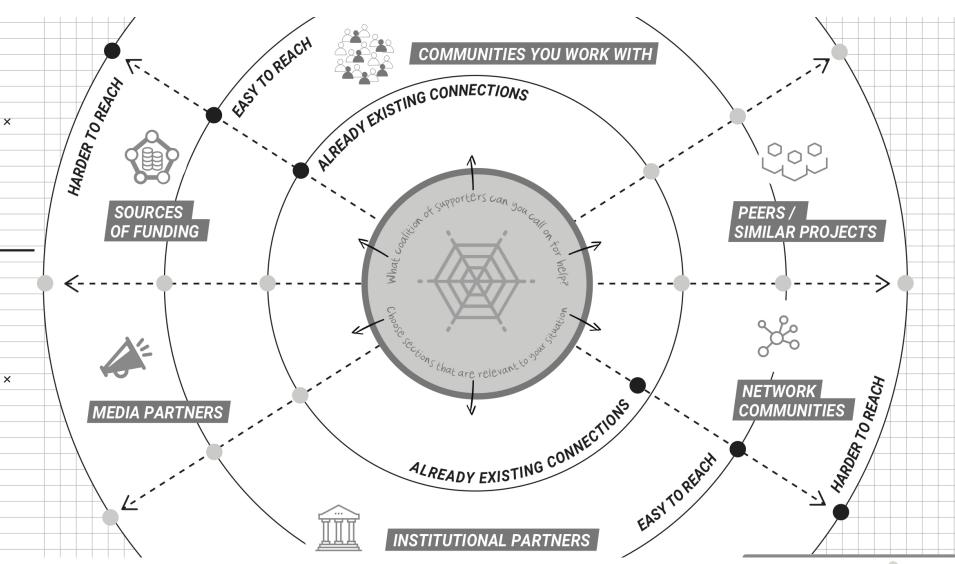




5/



Exercise 1: Identify your community network



Icon by Pedro from the Noun Project



Exercise 2: Develop a campaign pitch



Exercise: Based on what you have developed so far, write your crowdfunding pitch, including:

- Who is your target audience? What are you planning to achieve and why?
- Where, when, how (if relevant)?
- How much funding you're looking for?
- Why should people care?
- What are you offering in exchange?
- Call to action





PART III: Collective Energy Initiatives – An Introduction

Definition Differences **Energy cooperatives** How can they help fight energy poverty? How to start





Definition

An energy community can be...

- A way of organising collective citizen actions to influence the energy system
- Entities that exercise energy-related activities (generation, distribution, supply, aggregation, consumption, sharing, storage of energy, provision of energy-related services, etc.)
- Non-commercial market actors
- Collective switching campaigns, collective investments in solar panels, the ownership of an energy supply company, a distribution network, etc.





Definition

Energy communities are based on...

- Open and voluntary governance
- Ownership and control by citizens, local authorities and small businesses
- Social, environmental or local economic benefits rather than profitmaking





Differences

ENERGY COMMUNITIES

Two new definitions at the EU level

Renewable Energy Community (REC) Citizen Energy Community (CEC)

All forms of renewable energy Technology-neutral (only electricity)

Proximity of RE projects
No geographic limits

Individuals, local authorities and Any participant micro/small/medium enterprises

Autonomous from individual members Undefined degree of autonomy and traditional market actors

Effective control by individuals, local authorities and micro/small enterprises

Effective control includes medium-sized enterprises



Differences

Energy Communities can have different <u>legal forms</u>:

Foundations
Partnerships
Limited liability companies

Energy cooperatives
Trusts

Non-profit organisations





Energy cooperatives

ENERGY COOPERATIVES

A type of social and economic enterprise A legal form that enables citizens to collectively own and manage energyrelated projects and services

- Democratic governance (1 member 1 vote)
- Citizens can consume and share energy from renewable sources
- People can invest by buying shares or financing projects
- Surpluses are reinvested to support its members and/or the community





Energy cooperatives







Collective energy initiatives - video (1/2)

(a "refreshing" video about REScoops)







How can they help fight energy poverty?

Accessibility

- Economy
 - Fair prices
- Governance
 - Fair decisions

Sustainability

- Social
 - Integration and cohesion
- Environmental benefits
 - Less health risks

Solidarity

- Fair conditions
 - Well-being rather than profit
- Support
 - Knowledge sharing

Local economy

- From citizens, for citizens
 - Benefits remain local
- Financial autonomy
 - Less external dependence





How can they help fight energy poverty?

For example:

- Sharing locally produced energy with vulnerable consumers
 - More accessible energy prices
- Collective purchase or ownership of goods and services
 - Support for making investments with large upfront costs
 - Opportunity to participate in collective energy generation with no or low investments
- Reinvesting in the community
 - Round-up or similar mechanisms in energy bills to support vulnerable consumers
 - Accessible loans for investments within the community (e.g. microcredit)
- ...and much more!





How can they help fight energy poverty?

CASE STUDY 1

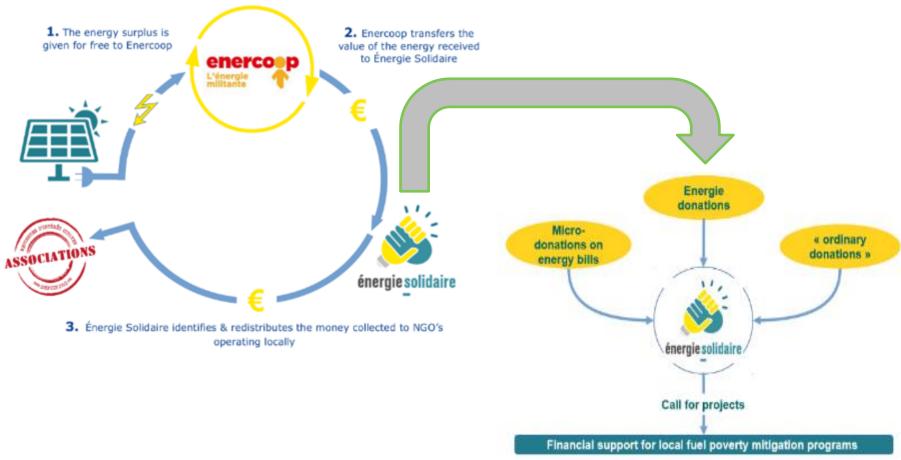
CASE STUDY	ENERGY SOLIDAIRE	LOCATION
	LES AMIS D'ENERCOORP	France
PROBLEM DESCRIPTION	12M citizens in France suffer from energy poverty.	
SOLUTION	A non-profit association created a solidarity fund that raises money donations from the energy bills of consumers who are members of a The resources support local social initiatives tackling fuel poverty by energy from energy producers.	n energy cooperative.
IMPACT	 So far Enercoop has: 2500 clients, each donating around 36€ per year. 90 000 € are annually collected, of which 50% are directly given help citizens renovate their houses. 	to 6 associations that





How can they help fight energy poverty?

CASE STUDY 1







How to start

- **1.** Get organized \rightarrow build up your group of people
- 2. Define your goals \rightarrow which type of activity will be conducted?
- 3. Choose your legal form \rightarrow energy cooperative?
- **4.** Look for support → what kind of support, and from whom?
- 5. Start your activity → and tell the world about it!





How to start

- **1. Get organized** → build up your group
- Gather motivated people → technical skills and knowledge are important, but motivation is key!
- Identify key leaders, or welcome potential ones
- Consider existing groups around you, the community might already be there!
 (and learn from them)
- Keep your team engaged through regular communication and activities





How to start

- 2. Define your goals → which type of activity will you conduct?
- Ask questions to yourselves (Who are you? What do you want to achieve? How are you going to do it?)
- Create your own narrative → Storytelling is key
- Define your main activities:
 - Energy efficiency and savings
 - Energy production
 - Energy management (sharing, storing, self-consumption...)
 - Energy supply, distribution, other services...
 - Education
 - Mobility
- Plan your process → Develop your strategy





How to start

- 3. Choose your legal form → energy cooperative?
- Having one is not mandatory, but most probably it will be helpful
- Choose the legal form that best fulfills your needs → In POWERPOOR, we think that energy cooperatives are the most appropriate ones. Some of their advantages are:
- Regional networks → Support and visibility
- Already existing rules/structures → You do not have to start from scratch
- Other cooperative initiatives → Can be a good inspiration, reference and support
- Social and economic perspective → A solid legal form to reach your goals
- Define your structure
- Internal rules
- Who will be the decision-makers?
- Who will be the investors?





How to start

General guidelines to CREATE AN ENERGY COMMUNITY

4. Look for support → what kind of support do you need and from whom?

Support from: Local and regional administrations Other cooperatives Companies and professionals Associations and social movements Support in/as: Legal/fiscal procedures, legitimacy... General/operational support Service provision, technical support... A broad reach, social legitimacy

Create a network around you → Reach the wider community





How to start

- **5. Start your activity** → and tell the world about it!
- Share your narrative → Motivate others to join you or to engage in new projects
- Remember: maintaining an energy community is a continuous process which requires constant engagement!





Collective Energy Initiatives - video (2/2)

A motivational video

"The Power of Community Energy"







Module Summary

Key Takeaways

References and Further Reading





Module Key Takeaways

- Citizen participation is the backbone of collective innovative actions
- Both Crowdfunding and Collective Energy Initiatives are powerful tools to improve energy-related conditions and accessibility
- They can be a good alternative to individual or traditional financing methods, and provide many benefits besides purely financial resources





References and further reading

- POWERPOOR Online Library: http://powerpoor.eu/library
- Energy Poverty Observatory: https://www.energypoverty.eu
- Successful Crowdfunding in 15 Steps by ECN:
 https://www.youtube.com/playlist?list=PLKS4qNWhGkZEQKKDlGtNlg26aWonGC_MK
- "Community Energy: A practical guide to reclaiming power" by Friends of the Earth Europe, REScoop and Energy Cities. October 2020. Available here: https://www.rescoop.eu/toolbox/community-energy-a-practical-guide-to-reclaiming-power





Thank you for your attention!

