

## Participation in Holistic ENvironmental/Ecological Innovations

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# First Policy Brief Circular Communities for a Greener Europe

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1

PU = Public

PP = Restricted to other programme participants (including the Commission services)

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#### Table of content

Executive summary	4
Policy brief	!



#### **Executive summary**

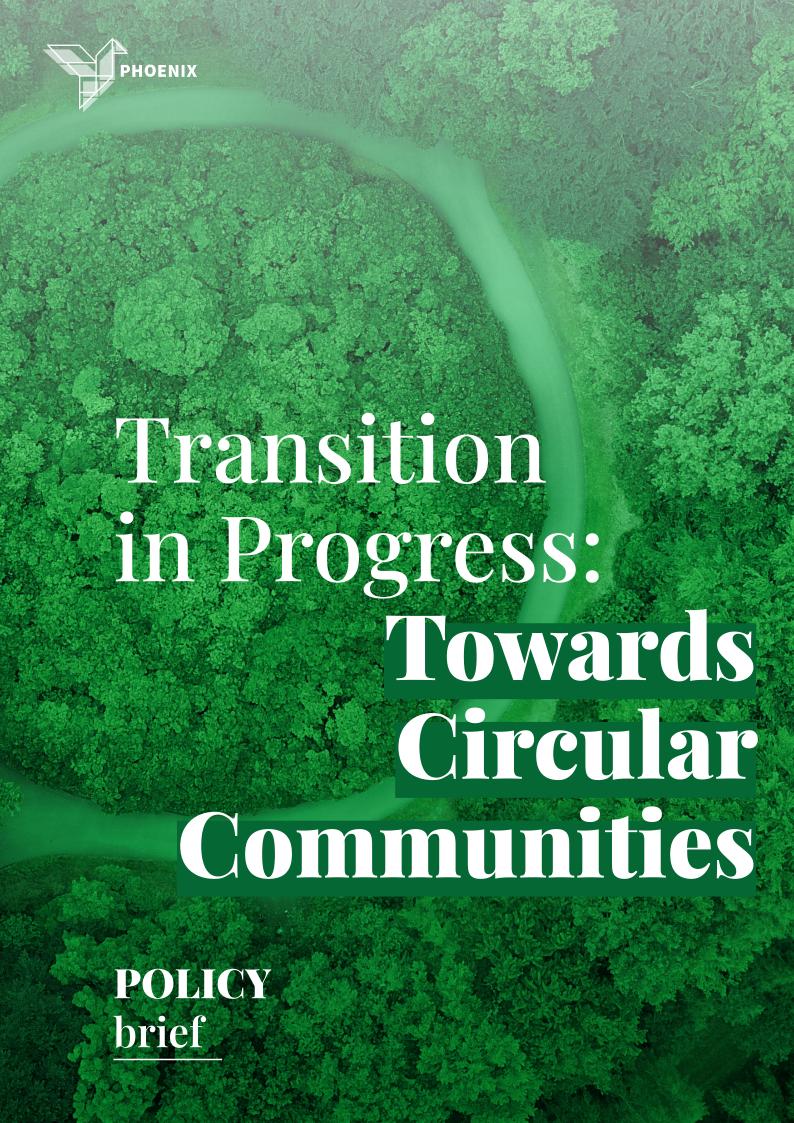
This deliverable, entitled "Circular Communities for a Greener Europe", is the first Policy Brief from the H2020 project PHOENIX - The Rise of Citizen Voices for a Greener Europe. PHOENIX examines participatory methodologies to be tested for the implementation of European Green Deal (EDG) policy areas in a set of European pilot territories.

Bearing the EGD in mind, the policy brief discusses how the three policy areas discussed in PHEONIX pilots can directly contribute to development based on the circular approach, led by citizens' action. They are the **circular economy**, taking the example of packaging, the **energy transition**, with a particular focus on energy communities, and the **farm-to-fork** strategy, in which one of the main dimensions is km0 and therefore proximity. From this perspective, the PB proposes to conceptualise "**circular communities**" as a potential social configuration that ensures circularity and sustainability in energy, materials and food flows on a local level. Hence, a comprehensive circular community can be seen as integrating a range of "**community trusts**".

The first of these is the **energy trust**, whose members may be prosumers, e.g., active participants in an energy community in which each of them consumes and produces a certain amount of energy. The second is the **water trust**, whose members share an efficient water distribution system in which rainwater and wastewater are purified and reused for appropriate purposes. The trust could also own and manage a common spring. The third is the **food trust**, within which members produce and/or consume local and organic food, thus drastically reducing packaging and transportation. The fourth is the **material trust**, in which members commit to recovering, recycling, repurposing, remanufacturing, refurbishing, repairing, reusing, reducing, rethinking and refusing, e.g., to promoting and implementing a circular community economy. The fifth is the **land trust**, which involves sharing the ownership and management of land for small-scale agriculture or housing.

In order to create better conditions to foster these kinds of trusts and, in general, achieve the objectives of the EGD, at least as far as the circular economy, energy transition and farm-to-fork are concerned, the policy brief provides a range of **recommendations** structured according to the different target groups they address.

In the following pages, the policy brief to be made public in PHOENIX communications channels.





## Europe's future depends on a healthy planet.

The EU is committed to achieving **climate neutrality by 2050**, decoupling economic growth from resource use and shifting to circular production and consumption systems. **The European Green Deal (EGD)** outlines the steps for reaching the 2050 goal, including a 55% reduction in greenhouse gas emissions by 2030 compared to 1990.

The **H2020-funded PHOENIX** project explores how **Democratic Innovations (DIs)** such as participatory budgeting, citizens' assemblies, council systems, and public policy forums and debates can contribute to the discussion and execution of the green transition.

We believe that achieving a **just transition** toward climate neutrality necessitates amplifying the voices of **European citizens**, **civil society organizations**, **and local authorities**. This approach involves identifying, promoting, and cultivating social practices and public policies that, once systematized, will enhance local community resilience and alleviate environmental pressures through democratic participation and social justice to implement EGD policies in the **farm-to-fork system**, **the circular economy and energy transition**.



#### **DEMOCRATIC INNOVATIONS**

Innovative forms of participatory and deliberative practices aimed at increasing and deepening citizen participation in the political decision-making process.

To unify these policy areas of the EGD, PHOENIX adopts the concept of a "circular community" as a social framework to ensure circularity and sustainability in energy, resources, and food flows at the local level.

#### **KEY RESULTS**

- To achieve a **socially just green transition**, we must reassess economic and production processes and enhance citizen participation in decision-making.
- The circular economy, energy transition, and the farm-to-fork system are among the key policy areas mentioned by the European Green Deal that can be better unified at a local level.
- To ensure the green transition, the concept of a 'circular community' should be incorporated into the design of local policies and action strategies.
- Local authorities play a pivotal role in implementing circular communities, thereby enhancing the European Green Deal and meeting citizens' expectations.
- This Policy Brief provides some recommendations for local authorities to achieve this result.



#### **CIRCULAR COMMUNITY**

A local or regional social framework focused on adopting circular and sustainable practices in various aspects of life, including energy, food production, materials, and industrial processes.

# Towards Circular Communities

Circular Communities focus on adopting circular and sustainable practices in various aspects of life, including energy, food production, materials, and industrial processes. They aim to create systems where resources are used efficiently, products are designed for longevity and recyclability, and waste is minimized through recycling and reuse, contributing to a more sustainable and environmentally friendly way of living.

These communities have the potential to **amplify the voices of citizens**, civil society organizations, and local authorities across Europe. Implementing this kind of community involves identifying, promoting, and developing social practices and public policies that, when systematised, would enhance local community resilience and alleviate environmental pressures through **democratic participation** and **social justice**.

On a community level, integrating energy transition, circular economy principles, and farm-to-fork strategies can effectively reduce reliance on non-renewable energy sources, decrease raw material imports, and foster environmentally sustainable food production.



A circular economy stands in contrast to the traditional linear growth model, which hinges on escalating resource consumption to supposedly boost wealth production.

A circular economy embodies a **virtuous circular pattern** that not only generates wealth but also **reintroduces consumed resources** back into circulation after undergoing transformations.

Transitioning from a linear to a circular economy involves considering three fundamental concepts: efficient **resource utilization** and transformation, the **creation of innovative solutions**, and the **evaluation of adverse social and environmental impacts**, such as resource depletion, throughout the life cycle of products and processes.

To curtail overall resource depletion, at least **ten strategic circular actions** can be implemented:

#### **RECOVER**

Incineration of materials with energy recovery.

### **REFUSE**Make product re

Make product redundant by abandoning its function or by offering the same function with a radically different product.

#### RETHINK

Make product use more intensive (e.g., through sharing products or by putting multi-functional products on the market)

#### **REDUCE**

Increase efficiency in product manufacture or use by consuming fewer natural resources.

#### REUSE

Re-use by another consumer of a discarded product which is still in good condition and can be used for its original function.

#### RECYCLE

Process materials to obtain either the same (high grade) or lower (low grade) quality.

#### **REPURPOSE**

Use discarded products or their parts in a new product with a different function.

#### REMANUFACTURE

Use parts of a discarded product in a new product with the same function.

#### **REFURBISH**

Restore an old product and bring it up to date.

#### **REPAIR**

Circular Economy 10 strategic actions

Repair and maintenance of defective product so it can be used for its original function.





Energy transition refers to the process of shifting from traditional fossil fuel-based energy systems to **sustainable and renewable energy sources**. This transformation is driven by technological advancements, the recognition of environmental impacts, and the urgent need to combat climate change. **Policymakers play a pivotal role** in facilitating this transition by providing technical, regulatory, and financial support.

Energy transition offers various benefits, including **decarbonization**, the **creation of jobs** in green and blue economy sectors, enhanced competitiveness, and greater consumer involvement through "**prosumer**" **models**, i.e., models where people are not only consuming a product or a service but also contributing to its production. Energy communities and prosumers are emerging as central actors in achieving zero-emission scenarios.

Monitoring and analysing the experiences of energy communities are essential for effective **energy governance**, **community participation**, and **democratic innovation**. Other forms of participation, such as public debates, are integral to the energy transition, as exemplified by recent discussions concerning nuclear reactor construction in France.



A key component of the European Green Deal, the Farm to Fork (F2F) Strategy is a comprehensive initiative aimed at **fostering fair**, **healthy**, **and environmentally sustainable food systems** while addressing the considerable environmental and social impacts associated with them.

The primary objective of the F2F Strategy is to facilitate a transition towards a food system that is either **environmentally neutral** or, ideally, has a positive impact on sustainability. This encompasses efforts to **mitigate climate change**, reverse biodiversity loss, **ensure food security**, enhance economic competitiveness and maintain food affordability.

Complementing the F2F Strategy is the **Biodiversity Strategy for 2030**, which proposes a set of measures to reduce the use of **pesticides and synthetic fertilizers**, restore high-diversity landscape features, promote increased organic farming, and curb nutrient loss.

The strategy encourages collaboration among all actors in the food value chain, with a strong emphasis on **supporting farmers and fishermen**. Sustainable practices in agriculture and fisheries not only align with biodiversity conservation but also offer opportunities for sustainable development through the promotion of **circular and small-scale bio-economies**.



#### THE KEY ROLE OF LOCAL AUTHORITIES

Energy transition, circular economy, and farm-to-fork strategies can be effectively implemented at the community level. Defining diverse **small-scale local communities** that collaborate to reduce reliance on non-renewable energy, unsustainable resource imports, and non-ecological food is essential.

Renewable, **sustainable energy provision** can be combined with **energy-saving** through cost-effective retrofitting projects. Energy communities, encompassing residential, productive, and commercial activities, can be established after **minimizing energy wastage**. These communities can facilitate **second-hand product circulation**, repair initiatives, and waste reduction. Additionally, they can organize circular processes like **enhanced recycling**, composting, **rainwater reuse**, and **solidarity purchasing** from local organic farms.

**Local authorities** play a pivotal role in translating broader sustainability goals into actionable initiatives at the community level, where real change can be most effectively realized. Their ability to **shape policies**, **allocate resources**, **engage with the community**, and oversee local infrastructure development makes them essential in achieving the outlined objectives.

## RECOMMENDATIONS

To create sustainable and circular communities, local authorities should consider the following recommendations, while actively involving citizens in decision-making through participatory and deliberative practices:



## Waste Management 5 and Recycling:

- Enhance recycling efforts within the urban waste management system.
- Develop and implement comprehensive environmental education initiatives targeting diverse groups within the community, fostering awareness and responsible waste disposal habits.



#### **Environmental Planning** Land Urban Integration:

- Implement EU-promoted environmental planning tools that incorporate climate change mitigation and adaptation strategies into urban planning.
- Foster the integration of circular economy principles into urban development and redevelopment projects.



## Decentralized Energy Production:

- Facilitate the establishment of decentralized energy production plants, focusing on smart localization.
- Promote cooperative efforts with citizens, civil society, and small businesses in renewable energy generation projects, enhancing local energy resilience.



## Environmental Accountability Oand Monitoring:

- Monitor and evaluate greenhouse gas (GHG) reduction measures to ensure their effectiveness.
- Promote the use of renewable and sustainable energy sources based on comprehensive life cycle inventories, considering environmental impacts throughout the entire product lifecycle.



## Circular Economy Promotion:

- Encourage circular activities such as the establishment of second-hand shops, repair centers, and material collection points within the community.
- · Invest in urban regeneration initiatives that promote sustainable land use, green spaces, and eco-friendly infrastructure.



#### **Food Sustainability** )Initiatives:

- Collaborate closely with local food shops, markets, and supermarkets to reduce food waste.
- Promote sustainable practices in food procurement, considering packaging, origin, and food preparation methods.
- Establish formal certification programs that provide consumers with information about sustainably sourced and produced food products.



#### Citizen Involvement and Participation:

- Create and foster participatory and deliberative practices that actively engage citizens in decisionmaking processes related to circular community development.
- Establish opportunities for open dialogue, encouraging residents to contribute their insights and ideas for sustainable community initiatives.



#### BEWARE OF THE GENDER GAP

Climate change impacts men and women disparately, while socially constructed gender roles also play distinct roles in exacerbating environmental challenges. An inclusive approach that advocates for greater gender equality in the decisionmaking processes related to climate change policies not only enhances environmental outcomes but also reduces inequalities.



## For a democratic and participatory green transition

#### FURTHER RESEARCH AND BIBLIOGRAPHY AVAILABLE AT:

→ https://phoenix-horizon.eu/wp-content/uploads/2023/09/Circular-Communities\_Research.pdf



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