



Sun4All Sustainable Adoption Roadmap for Europe

August 2024

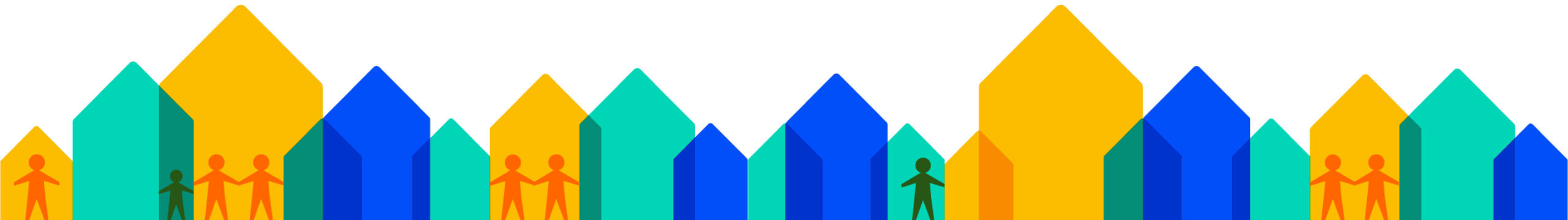
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement no. 101032239.





Deliverable no.	D5.2
Work package	WP5
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Submission date	26.08.2024
Status	Final
Reviewed by	Camila Canelas, Cristina Ramos, Ecoserveis Cléa Verdot, CCCS
Project name	Sun4All (Eurosolar for all: energy communities for a fair energy transition in Europe)
Slogan	Solar power to the people
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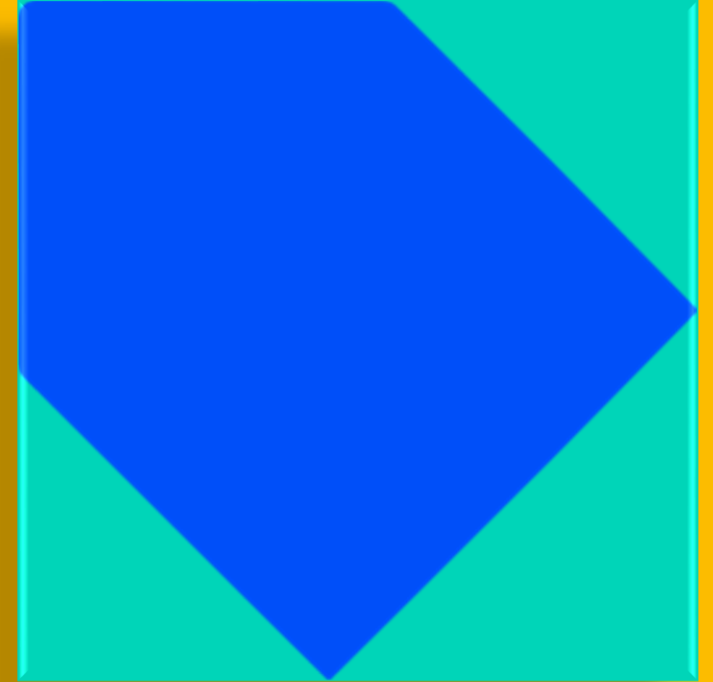


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1. Executive Summary





1-1 | Sun4All Sustainable Adoption Roadmap Goals

Addressing energy poverty is a key social policy priority in the European Union. Various initiatives are underway to engage and empower vulnerable households to adopt renewable energy and improve energy efficiency across Europe. Networking and collaboration between local governments and communities are essential for exchanging knowledge and transferring strategies to tackle energy poverty and ensure a fair energy transition throughout Europe.

The ["Sun4All – Eurosolar for All: Energy Communities for a Fair Energy Transition in Europe"](#) (Sun4All) project, funded by the European Union's Horizon 2020 research and innovation programme, is "Open to the World." It promotes the exchange of ideas, information, and best practices among cities and other stakeholders tackling energy poverty.

Sustainable Adoption Roadmap for Europe is one of the key deliverables of the Sun4All project. This roadmap serves as a tool for establishing European and international networks and collaborations, aiming to integrate vulnerable consumers into energy communities and ensure equitable access to the benefits of renewable energy.



1-1 | Sun4All Sustainable Adoption Roadmap Goals

The Sun4All Sustainable Adoption Roadmap for Europe reflects the key insights, knowledge, and strategies developed through the Sun4All project implementation from 2021 to 2024.

This roadmap presents knowledge and experience gained by the:

- **Sun4All pilots** – [Almada](#) (Portugal), [Barcelona](#) (Spain), [Coeur de Savoie](#) (France) and [Rome](#) (Italy) through the process of setting up a financial support scheme for renewable energy access for vulnerable stakeholders in Europe.
- **Members of the Sun4All Community of Practice**, who are actively working on the adoption of the Sun4All financial support scheme for further implementation in other contexts.

The Sun4All Sustainable Adoption Roadmap for Europe aims to outline the pathway and provide recommendations to promote the adoption and scalability of Sun4All across Europe, considering local and regional contexts, beyond the project's lifetime.

1-2 | Structure of the Sun4All Sustainable Adoption Roadmap

The structure of the Sun4All Sustainable Adoption Roadmap for Europe provides a framework for better understanding the Sun4All knowledge flow and practical experiences for fostering sustainable adoption of the Sun4All financial support scheme.

- **Chapter 1** provides an overview of the roadmap, i.e., outlines the objectives and aims, describes the organization and layout, identifies the primary groups and stakeholders the roadmap is intended to reach.
- **Chapter 2** offers a summary of the Sun4All project, including its objectives and key activities. Details the Sun4All financial support scheme and explains how the project is addressing the United Nations Sustainable Development Goals.
- **Chapter 3** assesses the potential for extending the Sun4All approach to address energy poverty throughout Europe, with a particular emphasis on the Sun4All financial support scheme expansion pathway, scaling up activities, and geographical expansion opportunities.

1-2 | Structure of the Sun4All Sustainable Adoption Roadmap

- **Chapter 4** aims to enhance a network of experts and practitioners engaged with Sun4All. It outlines the roles and contributions of the project's experts, examines the work of practitioners involved in pilot initiatives, and emphasizes the participation of members of the Sun4All Community of Practice Observers Group.
- **Chapter 5** provides an overview of the opportunities for expanding the Sun4All Policy and Advocacy efforts.
- **Chapter 6** focuses on resources available for the digital expansion of Sun4All. It covers the informational resources and expertise accumulated by the project. Details the practical experiences gathered through the project's implementation and discusses the integration of the project's deliverables.
- **Chapter 7** concentrates on exploring partnerships to extend the Sun4All initiative beyond Europe, including European Union Cooperation programmes and projects.
- **Chapter 8** offers a summary of key points, final thoughts, important takeaways, and recommendations for next steps. It wraps up the content and highlights the main messages.



1-3 | Target Audience for the Sun4All Sustainable Adoption Roadmap

The Sun4All Sustainable Adoption Roadmap for Europe targets nine specific audience segments.

**European Union
institutions and
bodies**

**Public and Private
Utilities**

Energy Cooperatives

**National, Regional,
and Local
Governments**

Energy Agencies

**Civil Society
Organisations**

**Social Housing
Associations**

**Energy Service
Companies**

**General Public and
Vulnerable
Households**



1-3 | Target Audience for the Sun4All Sustainable Adoption Roadmap

The Sun4All Sustainable Adoption Roadmap for Europe highlights the following targeting opportunities for the various intended recipient segments:

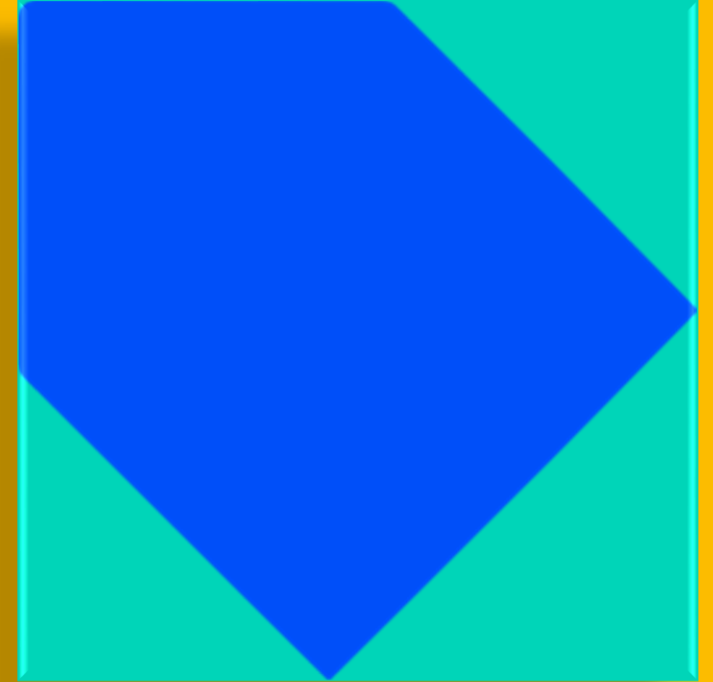
- **European Union Institutions and Bodies:** collaboration on policy development and funding mechanisms to support sustainable energy adoption and addressing energy poverty at the European Union level.
- **National, Regional, and Local Governments:** engagement with various levels of government to implement supportive regulations, provide funding, and facilitate the adoption of sustainable energy solutions to tackle energy poverty.
- **Social Housing Associations:** working with these organizations to integrate energy-efficient technologies and practices in social housing, reducing energy costs for residents.
- **Public and Private Utilities:** building a partnership with utility companies to develop and promote energy-saving programs and renewable energy initiatives, making energy more affordable and sustainable.



1-3 | Target Audience for the Sun4All Sustainable Adoption Roadmap

- **Energy Agencies:** coordination with energy agencies to deliver technical expertise, resources, and support for the implementation of energy efficiency and renewable energy projects.
- **Energy Service Companies:** collaborates with Energy Service Companies to provide energy performance contracting and other services that help improve energy efficiency and reduce costs for various stakeholders.
- **Energy Cooperatives:** supporting the development and operation of community-based energy projects, enabling local ownership and management of renewable energy resources.
- **Civil Society Organisations:** engagement with non-governmental organisations and other civil society groups to raise awareness, advocate for policy changes, and support grassroots initiatives aimed at reducing energy poverty.
- **General Public and Vulnerable Households:** providing direct support, education, and resources to help individuals and families, especially those vulnerable to energy poverty, adopt sustainable energy practices and reduce their energy bills.

2. Introduction





2-1 | Introduction to the Sun4All Project

Social tariffs, energy cost subsidies, energy vouchers and other traditional financial instruments currently used by European Union countries provide temporary direct income support for vulnerable consumers. However, these measures do not tackle the **structural causes** of energy poverty, responding only to the cost of energy. [[More information](#)]

The Sun4All project focuses on **proactive solutions** to help vulnerable households to break the energy cycle. The Sun4All project engages and empowers people in vulnerable situations towards renewables and better energy efficiency.

The project seeks to make renewable energy generation, along with its economic and environmental benefits, **accessible to vulnerable households** that suffer from energy poverty and lack the resources to invest in solar installations.

As part of the Sun4All project, households receive support in managing their home energy use. This allows eligible households to **actively participate in the energy transition process**, save energy and money, and improve their living conditions. [[More information](#)]



2-1 | Introduction to the Sun4All Project

The Sun4All project sets up a **financial support scheme** for renewable energy access for energy vulnerable households. Four European cities and regions are pioneering the Sun4All project's financial support scheme for renewable energy access. This scheme has been tailored to the **specific characteristics of each pilot location**, ensuring that all activities are oriented towards local needs. [More information: [Almada](#), [Barcelona](#), [Coeur de Savoie](#), [Rome](#)]



Almada (PT)



Barcelona (ES)



Coeur de Savoie (FR)



Rome (IT)



2-1 | Introduction to the Sun4All Project

Sun4All addresses energy poverty and promotes the **involvement of vulnerable consumers** in Europe's fair energy transition. One of the project's goals is to be sustainable and replicable across Europe. To achieve this, a **Community of Practice for European cities** was established to monitor the project and plan the replication of Sun4All schemes in their regions. This Community of Practice observes the pilot implementations to **gain first-hand experience** and improve their own energy poverty eradication strategies and local business models. [[More information](#)]





2-2 | Sun4All Financial Support Scheme

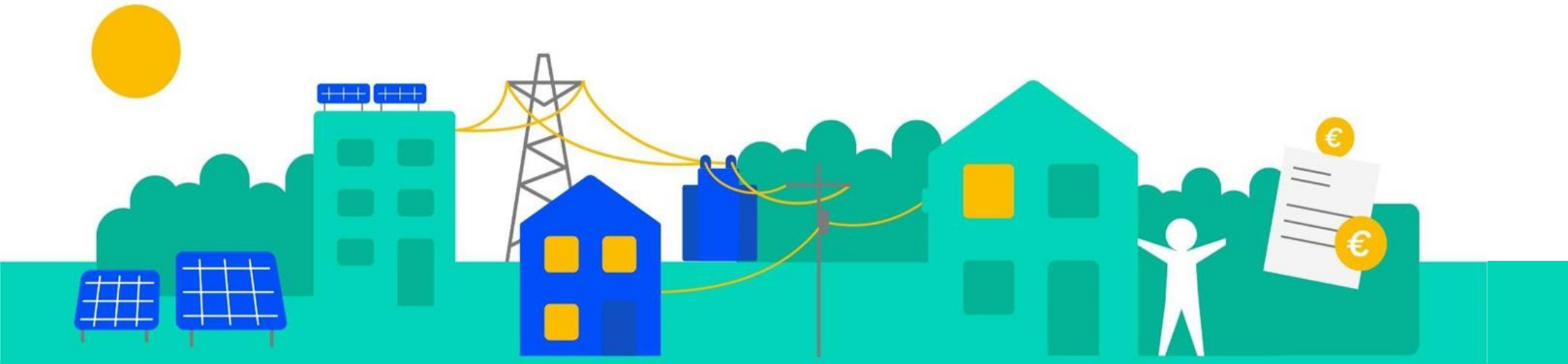
The Sun4All project implements a financial support scheme modelled after the successful "**Solar for All**" utility bill assistance program from New York State, now adapted for the European context. [[More information](#)]

Beneficiaries of the Sun4All project receive both **financial and non-financial support**. The solar energy generated by the project's photovoltaic installations is evenly credited to participants' energy bills, reducing their actual energy costs.

Following the concept of "**energy communities**", project participants receive advice on efficient energy management at home and can attend workshops on energy rights and efficiency. Through **knowledge transfer** and a vital community program, the project promotes the empowerment of its participants.

In this way, the Sun4All project supports an **inclusive energy transition** towards sustainable energy production in Europe. [[More information](#)]

Get to know the Sun4All support scheme



Solar energy is generated by local photovoltaic installations, owned by the municipality and located near to where eligible participants live

Depending on the pilot use case, the renewable solar energy is either provided for direct consumption by Sun4All beneficiaries or fed into the local power grid

Sun4All beneficiaries continue to get electricity as usual, with no need to install or maintain solar panels

Through the financial support scheme and its redistribution mechanism, Sun4All participants financially benefit from the renewable energy produced and its value



2-3 | Sun4All Contribution to the Sustainable Development Goals

Energy poverty initiatives must ensure that renewable energy is accessible to those in vulnerable situations, leaving no one behind. The **Sun4All project** directly and indirectly **supports** several **United Nations Sustainable Development Goals** (SDGs). Here's a breakdown of how the project contributes to various SDGs:



- Access to renewable energy provides reliable and affordable energy, reducing the cost burden on vulnerable households.
- Energy efficiency reduces energy costs, allowing families to reallocate their limited resources to other essential needs, thereby improving their overall economic stability.



- By reducing reliance on expensive or inefficient energy sources, households can save money that can be redirected towards food and other essential needs.
- Access to reliable energy enables households to use refrigeration to store perishable food items.

Images: United Nations



2-3 | Sun4All Contribution to the Sustainable Development Goals



- Lowering energy consumption and costs can free up resources for health care and improve living conditions, contributing to better overall health.
- Replacement of harmful energy sources can help to reduce indoor air pollution and associated health risks.



- Engaging vulnerable households in decision-making processes helps ensure that women's voices are heard and considered in both household and community decisions.
- Empowering vulnerable households can change harmful social norms and practices that perpetuate gender inequality.



- Renewable energy technologies, once installed, often have lower operating costs compared to traditional energy sources. This can reduce the overall energy expenses for vulnerable households, making energy more affordable and improving their economic stability.



2-3 | Sun4All Contribution to the Sustainable Development Goal



- By providing renewable energy to vulnerable households, these communities gain better access to services that can help reduce disparities in health, education, and overall quality of life.
- Training and engagement in energy-related projects can empower households with new skills and knowledge.



- Community-based renewable energy projects can empower local populations by involving them in energy decision-making and management. This participation can foster local innovation and ensure that energy solutions are tailored to the specific needs of vulnerable households.



- Transitioning to renewable energy helps decrease the carbon footprint of vulnerable households. This collective reduction in emissions contributes to global efforts to mitigate climate change and limits the impact of climate change on these communities.

3. Sun4All Expansion Planning in Europe





3-1 | Sun4All Expansion Planning

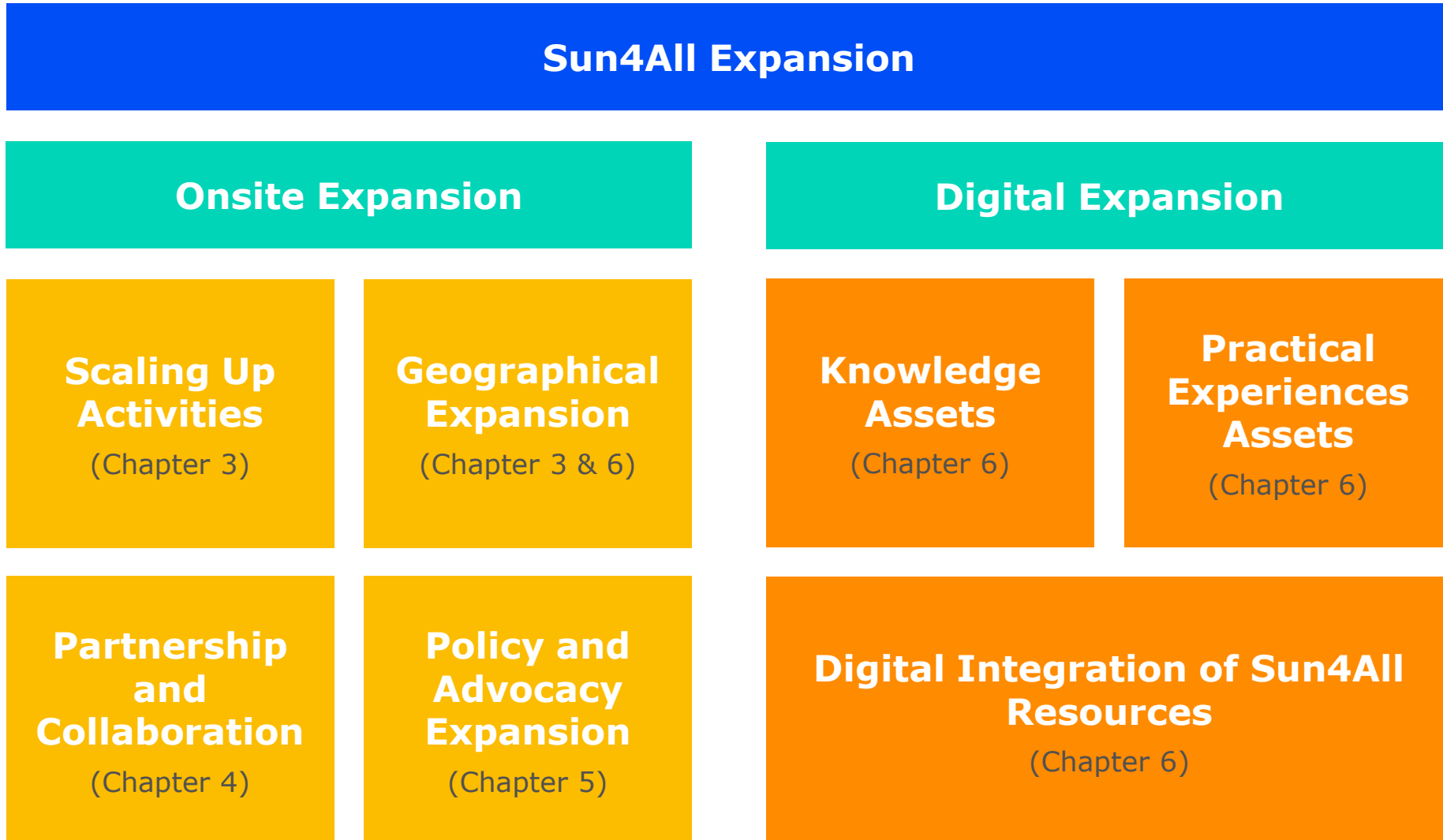
The purpose of the Sun4All expansion is to ensure that Sun4All remains as a **stable programme** to tackle energy poverty and ensure vulnerable consumers participation in the energy transition in Europe.

Expansion, in the context of the Sun4All project, refers to the process of extending the **reach, scope, and impact of a project** within and beyond its lifetime and initial boundaries. This involves scaling up existing activities, entering new geographical areas, adding new components or services, increasing the target audience, etc.

The **Sun4All Expansion Pathway** functions as a tool for expansion planning. It outlines strategic areas a project will focus **to grow, scale, and increase its reach**. The foundation of the Sun4All Expansion Pathway lies in strategically connecting **onsite and online expansion efforts**, where the physical and digital components of the Sun4All project work together to complement and enhance one another.

The Sun4All Expansion Pathway is designed to be adaptive, ensuring flexibility in response to **just and fair transition sector dynamics** and **stakeholder needs**.

3-1 | Sun4All Expansion Pathway





3-2 | Scaling Up Activities

To ensure the Sun4All project continues beyond its initial timeline and expands within the pilot cities and regions, the project pilot teams are creating **four Sun4All Sustainable Adoption Plans**. Sun4All pilot teams develop these plans based on the practical experiences and lessons learned during the project. The Sun4All pilot teams are using a **collaborative approach** and focusing on addressing energy poverty issues identified throughout the project.

Once completed, the Sun4All Sustainable Adoption Plans will be accessible to all interested stakeholders on the project's website at <https://sunforall.eu/> under the "Resources" section and will act as a **strategic tool for expanding** the Sun4All financial support scheme.



Sun4All Sustainable Adoption Plan

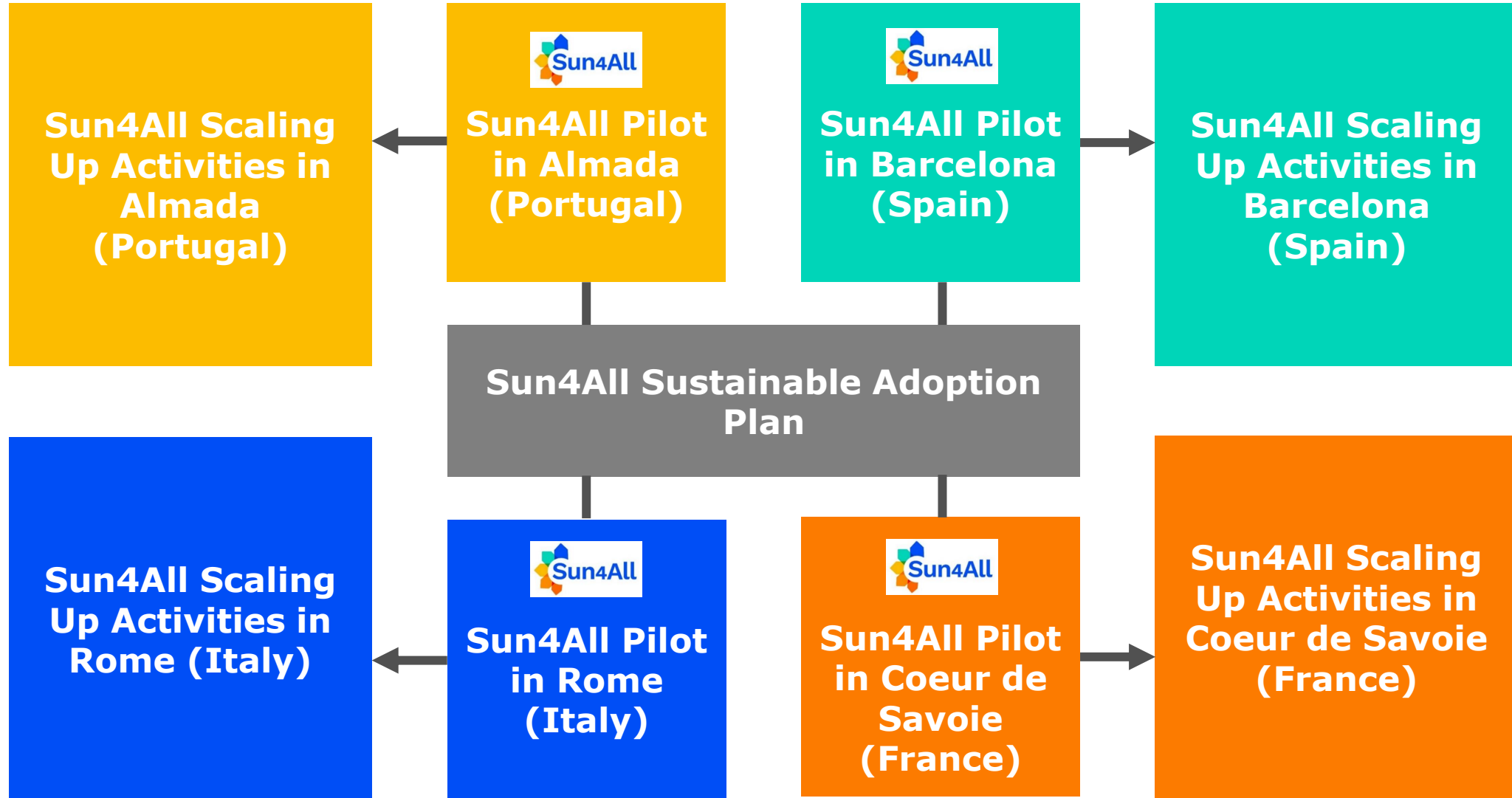
An expansion tool

3-2 | Scaling Up Activities

Each Sun4All Sustainable Adoption Plan will include the following key functions:

- **To highlight the importance** of addressing energy poverty for a fair transition and specify the plan's focus for each Pilot City.
- **To detail the results** of analysing stakeholders involved in the Sun4All financial support scheme within the Pilot City.
- **To outline the strategy** to promote acceptance and use of the Sun4All project within the target audience or community.
- **To set clear steps**, allocating resources, and establishing responsibilities to achieve the plan's goals.
- **To define the process** and activities to equip stakeholders with the knowledge, skills, and resources needed to effectively benefit from the Sun4All project.
- **To describe how to integrate** Sun4All outcomes and practices into existing structures and systems in the Pilot City.
- **To provide a structured approach** for assessing the adoption, implementation, and impact of the Sun4All project.

3-2 | Scaling Up Activities





3-3 | Geographical Expansion

To facilitate the **adoption** and **replication** of the Sun4All financial support scheme at the **local level**, members of the Sun4All Community of Practice Observer's Group accompany the pilots' implementations and develop their own specific energy poverty eradication strategies and local business models, known as **Sun4All Sustainable Implementation Plans**.

Upon completion, the Sun4All Sustainable Implementation Plans will be available to all interested stakeholders on the project's website at <https://sunforall.eu/> in the "Resources" section, serving as a **strategic tool for expanding** the Sun4All financial support scheme **geographically**.



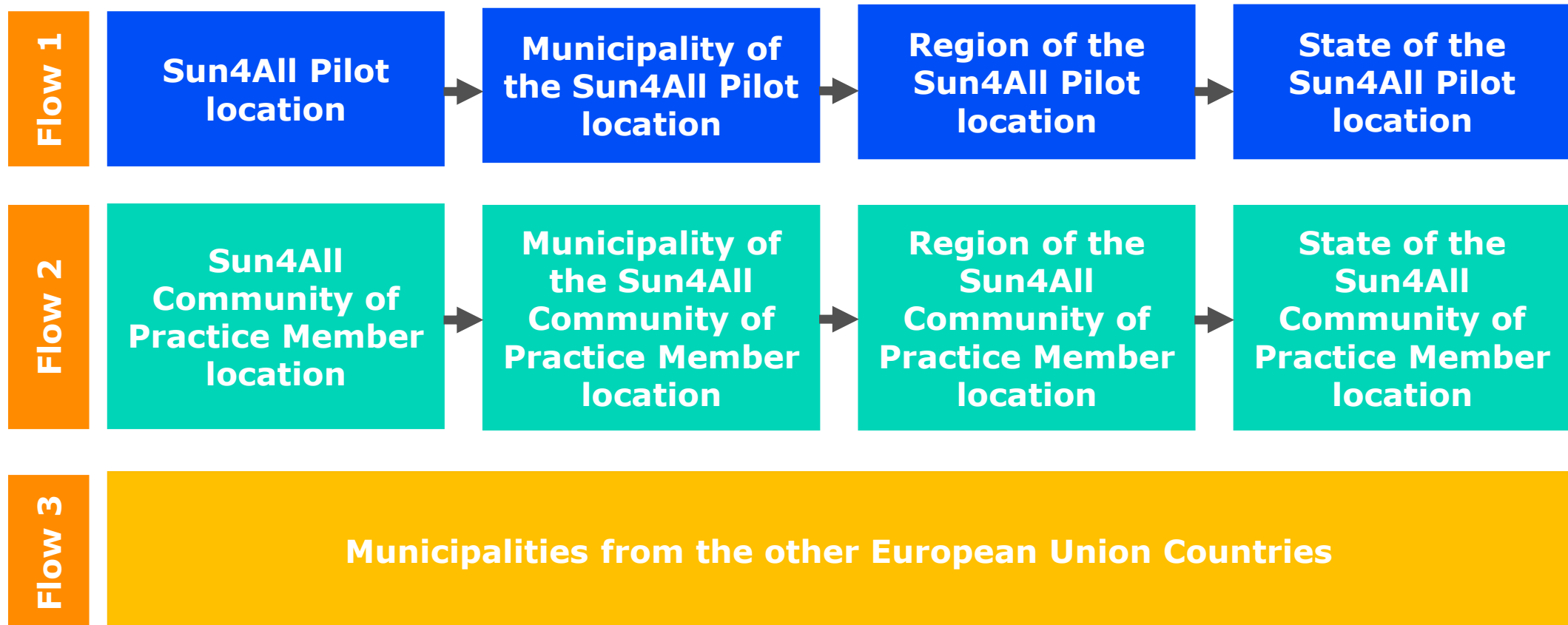
Sun4All Sustainable Implementation Plan

An expansion tool



3-3 | Geographical Expansion

Along with the other knowledge and experience resources from the Sun4All project, the Sun4All Sustainable Adoption Plans and Sustainable Implementation Plans help ensure formation of the following geographical expansion flows.





3-3 | Geographical Expansion

The geographical expansion of the Sun4All financial support scheme at the local level relies on the political will of local governments, as well as their interest, enthusiasm, and motivation to enhance their efforts in addressing energy poverty, empowering vulnerable households, and ensuring a just energy transition.



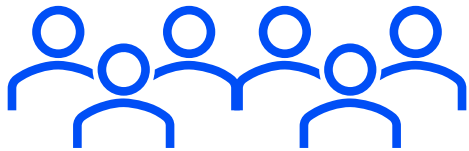
4. Sun4All Partnership and Collaboration





4-1 | Sun4All Project Key Stakeholders

One of the key activities supporting the sustainable adoption of Sun4All is to establish a network of experts and practitioners who can share their experiences with Sun4All across Europe. This will be facilitated by project partners, members of the Community of Practice Observers' Group, and other stakeholders involved in the capacity-building and knowledge-sharing programs. Below, you will find more details on the Sun4All key stakeholders, which can be valuable for learning about the Sun4All testing experience firsthand.



**Sun4All Pilot
Practitioners**



**Sun4All Project
Experts**



**Sun4All
Community of
Practice Observers'
Group Members**



4-2 | Sun4All Pilot Practitioners

Almada Pilot (Portugal)



Almada City Council (Portugal) is responsible for the planning and management of local environmental actions. In the field of environment, biodiversity, and energy, Almada has been implementing its local strategy for climate change, which comprises the dimensions of mitigation and adaptation. [[More information](#)]



The Local Energy Management Agency of Almada (Portugal) was created by the Almada City Council as a platform and forum for energy efficiency and climate change mitigation/ adaptation, bringing together all relevant local stakeholders, with a strong influence on the supply and demand of energy. [[More information](#)]



Barcelona Pilot (Spain)



4-2 | Sun4All Pilot Practitioners



Ecoserveis (Spain) is a non-profit strategic innovation consultancy specialised in energy management issues. The association focuses on the relations between energy and society, providing solutions and building bridges between a society's energy needs and technology, research, and innovation, to promote a fair and sustainable energy model. [[More information](#)]



AGÈNCIA D'ENERGIA
DE BARCELONA

The Local Energy Management Agency of Barcelona (Spain) aims at making the city of Barcelona improve in social and environmental grounds by fostering energy saving and energy efficiency, by creating knowledge about renewable energy sources and promoting them, and by developing high-quality energy services for all citizens. [[More information](#)]



4-2 | Sun4All Pilot Practitioners

Cœur de Savoie (France)



The Community of Communes Cœur de Savoie (France) is a public establishment for inter-municipal cooperation with several responsibilities, such as territorial, socio-cultural, economic, and environmental development. Labeled Positive Energy Territory in 2015, the Community of Communes Cœur de Savoie has ever since continued its path towards energy transition with the preparation of a “Sustainable Energy Action Plan”. [[More information](#)]



The French National Institute for Solar Energy (France) is the leading solar energy centre in France and the French representative of the International Solar Alliance, dedicated to research, innovation, and training on solar energy. With its expertise and broad topic related knowledge, the institute supports the Community of Communes Cœur de Savoie. [[More information](#)]



Rome (Italy)



4-2 | Sun4All Pilot Practitioners

ROMA



Municipality of Rome (Italy) represents a population of 2,800,000 inhabitants and administers a territory of 1,285 sq. km. The responsibilities of the City of Rome cover, among others, mobility and transport, social inclusion and protection, environment, protection of cultural heritage, tourism, schools and educational services, vocational training, and job placement. [[More information](#)]



SAPIENZA
UNIVERSITÀ DI ROMA

Sapienza University of Rome (Italy) is one of the oldest universities in the world. The university's research Centre for Territory, Housing, Heritage and Environment CITERA promotes and coordinates scientific research in the following areas: Energy Saving and Distributed Micro Generation, Energy Poverty and Behavioural Energy Efficiency, Renewable Energy Sources, Energy Planning and Management, etc. [[More information](#)]



4-3 | Sun4All Project Experts



ICLEI – Local Governments for Sustainability is a global network of more than 1,750 local and regional governments committed to sustainable development. Active in 100+ countries, it influences sustainability policy and drives local action for low emission, nature-based, equitable, resilient, and circular development. [[More information](#)]



The Jacques Delors Institute (France) is a European think tank founded by former European Commission President Jacques Delors in 1996, today under the presidency of Enrico Letta, former Prime Minister of Italy. Based in Paris, Berlin and Brussels, the Institute produces analyses and proposals in French, English and German targeting European decision-makers and a wider audience. [[More information](#)]



4-3 | Sun4All Project Experts



Universitetet
i Stavanger

University of Stavanger (Norway) is Norway's sixth largest university, located in Stavanger, a city that is also called the “energy capital” of Norway. Representatives of the university will particularly support the evaluation activities conducted throughout the project duration. [[More information](#)]



4-4 | Sun4All Community of Practice Observers' Group Members



5. Sun4All Policy and Advocacy Expansion





5 | Sun4All Policy and Advocacy Expansion

To amplify awareness of the Sun4All financial support scheme, the Sun4All Sustainable Adoption Roadmap for Europe will be showcased through presentations to various European Union institutions and initiatives. The Sun4All Policy and Advocacy Expansion will focus on the following key areas:

Influencing Policy

Strengthening efforts to advocate for policy changes or new regulations that align with the Sun4All project's objectives on a wider scale

Raising Awareness

Enhancing public understanding and involvement in the Sun4All project's initiatives to foster broader support and greater impact

5 | Sun4All Policy and Advocacy Expansion

Sun4All Policy and Advocacy Expansion Calendar

Event name	Date, place	Type of event	Event owner	Short description
<u>LF Energy Summit</u>	05-06.09.2024 Brussels Marriott Hotel Grand Place, Rue Auguste Ort, Grand Place 3-7, 1000 Brussels, Belgium	Summit	LF Energy	This summit will gather the LF Energy community including electric utilities, technology vendors, global energy companies, researchers, and other industry stakeholders to learn about LF Energy and its projects, collaborate, and share best practices
<u>Working Party on Energy</u>	11.09.2024 Brussels, Belgium, Room H2, 10:00	Council of EU	Council of EU	Working Party on Energy meeting

5 | Sun4All Policy and Advocacy Expansion

Sun4All Policy and Advocacy Expansion Calendar

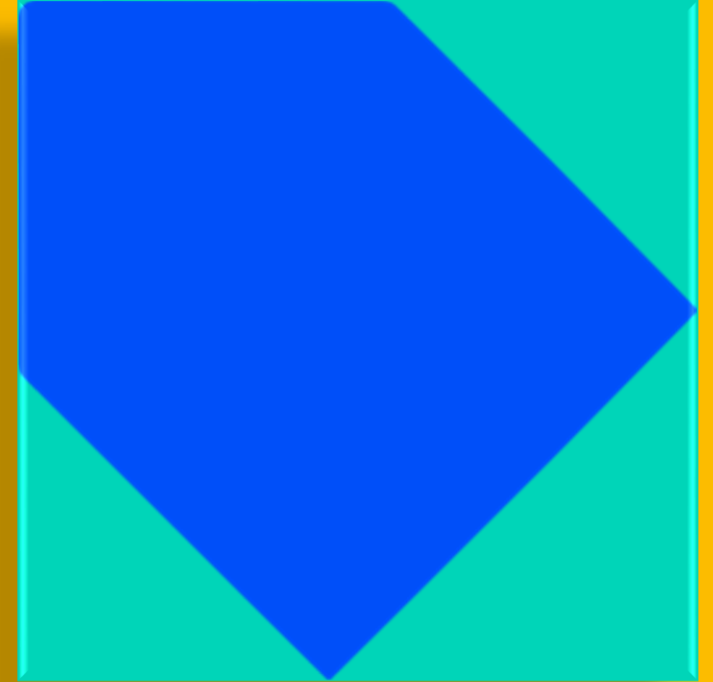
Event name	Date, place	Type of event	Event owner	Short description
<u>Supporting the development of energy communities: which role for local and regional energy agencies?</u>	18.09.2024 from 11:00 to 12:00 Brussels time	Webinar	FEDARENE	Webinar dedicated to local and regional agencies/organisations willing to support energy communities. SCCALE 20 30 50 project partners invite all interested stakeholders to discover the new tools they developed to support community energy
<u>Harnessing Renewable Energy Communities for a greener, more resilient Europe</u>	10.10.2024, Brussels, Belgium 15:30	A conversation on renewable energy communities	European Week of Regions and Cities	Exchange good practices and policy solutions from EU regions and connect with peers to help you empower local initiatives. Together, explore the possibilities to accelerate the transition to a sustainable energy-powered future by involving communities and so drive positive change to shape a greener, more resilient Europe

5 | Sun4All Policy and Advocacy Expansion

Sun4All Policy and Advocacy Expansion Calendar

Event name	Date, place	Type of event	Event owner	Short description
<u>ManagEnergy Master Class 5 on Energy Communities</u>	20.09-16.10.2024 Place Stéphanie 20, 1050 Ixelles, Belgium	Master Class	FEDARENE	The aim of the Master Class is to develop the core competences of energy agencies and local authorities to facilitate and support the development of Energy Communities in their cities and regions
<u>The 18th SET Plan Conference</u>	14.11.2024, 09:00 – 15.11.2024, 17:00 (CET) Budapest, Várkert Bazár, Hungary	A high-level conference	Organised under the patronage of the Hungarian Presidency of the Council of the EU in cooperation with the EC	The event will provide a platform for policymakers, researchers, and industry stakeholders in the energy sector to establish connections and expand collaborations aimed at developing and demonstrating innovative cleantech energy solutions, while accelerating their deployment

6. Sun4All Digital Expansion





6 | Sun4All Digital Expansion

To make the Sun4All financial support scheme adoption and replication planning process user-friendly, the Sun4All project team developed the **8-Step Pathway**. This pathway outlines the eight key focus areas for **practically applying** the Sun4All approach to address energy poverty and improve access to renewable energy for vulnerable households.

Digitally available resources from the Sun4All project provide support for implementing the relevant steps.

Step 1

To understand energy poverty at the local level

Step 2

To develop political support for tackling energy poverty

Step 3

To build a team and partnerships

Step 8

To define procedures for developing the energy production system



Step 4

To design the legal and administrative framework

Step 7

To plan stakeholder engagement activities

Step 6

To specify financial and technical models

Step 5

To define targets and specify needs

6-1 | Sun4All Knowledge Assets

The Sun4All Knowledge Assets presents the intellectual Sun4All project resources that may help you to better understand the phenomenon of energy poverty and start working on planning adoption and replication of the Sun4All approach to tackle energy poverty in your city or region. The Sun4All Knowledge Assets are covering the following three groups of the Sun4All project knowledge resources.



**Sun4All Policy
documents**



**Sun4All
Communication
resources**



**Sun4All Learning
resources**

6-1 | Sun4All Knowledge Assets

Sun4All Policy documents

1. Policy brief: Fleshing out energy community legislation in EU Member states for a fair energy transition [[More information](#)]
2. Policy brief: Highlighting effective ways for local governments to support energy communities and socially inclusive renewable energy projects [[More information](#)]
3. Policy brief: The EU framework on energy communities [[More information](#)]
4. Comparative analysis of the regulatory framework in Sun4All pilot cities [[More information](#)]

Key knowledge implementation areas (Reference to 8-Step Pathway)

Developing political support for tackling energy poverty at the local level

Designing the legal and administrative framework for the Sun4All adoption and replication



6-1 | Sun4All Knowledge Assets

Sun4All Communication resources

1. Dissemination and Communication Strategy [[More information](#)]
2. Sun4All Visual Identity [[More information](#)]
3. Sun4All Flyer in English [[More information](#)], in Catalan [[More information](#)], in French [[More information](#)], in Italian [[More information](#)], in Portuguese [[More information](#)], in Spanish [[More information](#)]
4. Sun4All Replication Flyer in English [[More information](#)] and in French [[More information](#)]

Key knowledge implementation areas (Reference to 8-Step Pathway)

Understanding energy poverty at the local level

Planning energy poverty communication activities

Planning stakeholder engagement activities



6-1 | Sun4All Knowledge Assets

Sun4All Learning resources

1. Sun4All Project presentation video [[More information](#)]
2. Sun4All Infographic in English [[More information](#)], in Catalan [[More information](#)], in French [[More information](#)], in Italian [[More information](#)], in Portuguese [[More information](#)], in Spanish [[More information](#)]
3. Sun4All Glossary [[More information](#)]
4. Comic strip Emma's Destiny [[More information](#)]
5. Factsheets on home energy efficiency in English [[More information](#)] and in Italian [[More information](#)]

Key knowledge implementation areas

(Reference to 8-Step Pathway)

Community building and raising of energy literacy

Development of social dialogues with the communities and potential beneficiaries

Planning energy poverty communication activities

6-2 | Sun4All Experiences Assets

The Sun4All Experiences Assets presents the intellectual Sun4All project resources and insights derived from practical experiences of the pilots – [Almada](#) (Portugal), [Barcelona](#) (Spain), [Coeur de Savoie](#) (France) and [Rome](#) (Italy). These resources can be beneficial for your city and region in planning adoption and replication of the Sun4All approach to tackle energy poverty without having to go through the same challenges. The Sun4All Knowledge Assets are covering the following three groups of the Sun4All project experiences resources.



Sun4All Pilot interviews



Sun4All Experience reports



Sun4All Training resources

6-2 | Sun4All Experiences Assets

Sun4All Pilot interviews

- 1. Sun4All Pilot Video: Sun4All in Almada, Portugal [\[More information\]](#)
- 2. Sun4All Pilot Video: Sun4All in Barcelona, Spain [\[More information\]](#)
- 3. Sun4All Pilot Video: Sun4All in Coeur de Savoie, France [\[More information\]](#)
- 4. Sun4All Pilot Video: Sun4All in Rome, Italy [\[More information\]](#)

Key experience implementation areas
(Reference to 8-Step Pathway)

- Building a team and partnerships
- Defining targets and specifying needs
- Planning stakeholder engagement activities

6-2 | Sun4All Experiences Assets

Sun4All Experience reports

- 1. Sun4All Project Report “Blueprint model for the Sun4All programme” [\[More information\]](#)
- 2. Sun4All Project Report “Local requirements to benefit from Sun4All programme”[\[More information\]](#)
- 3. Sun4All project Report “Local work plans of community work” [\[More information\]](#)
- 4. Sun4All project Report “Impact Assessments Indicators and Guidelines” [\[More information\]](#)
- 5. Sun4All project Report “Implementation Plan of Sun4All programme” [\[More information\]](#)
- 6. Sun4All project Report “Monitoring Report on implementation” [\[More information\]](#)

Key experience implementation areas
(Reference to 8-Step Pathway)

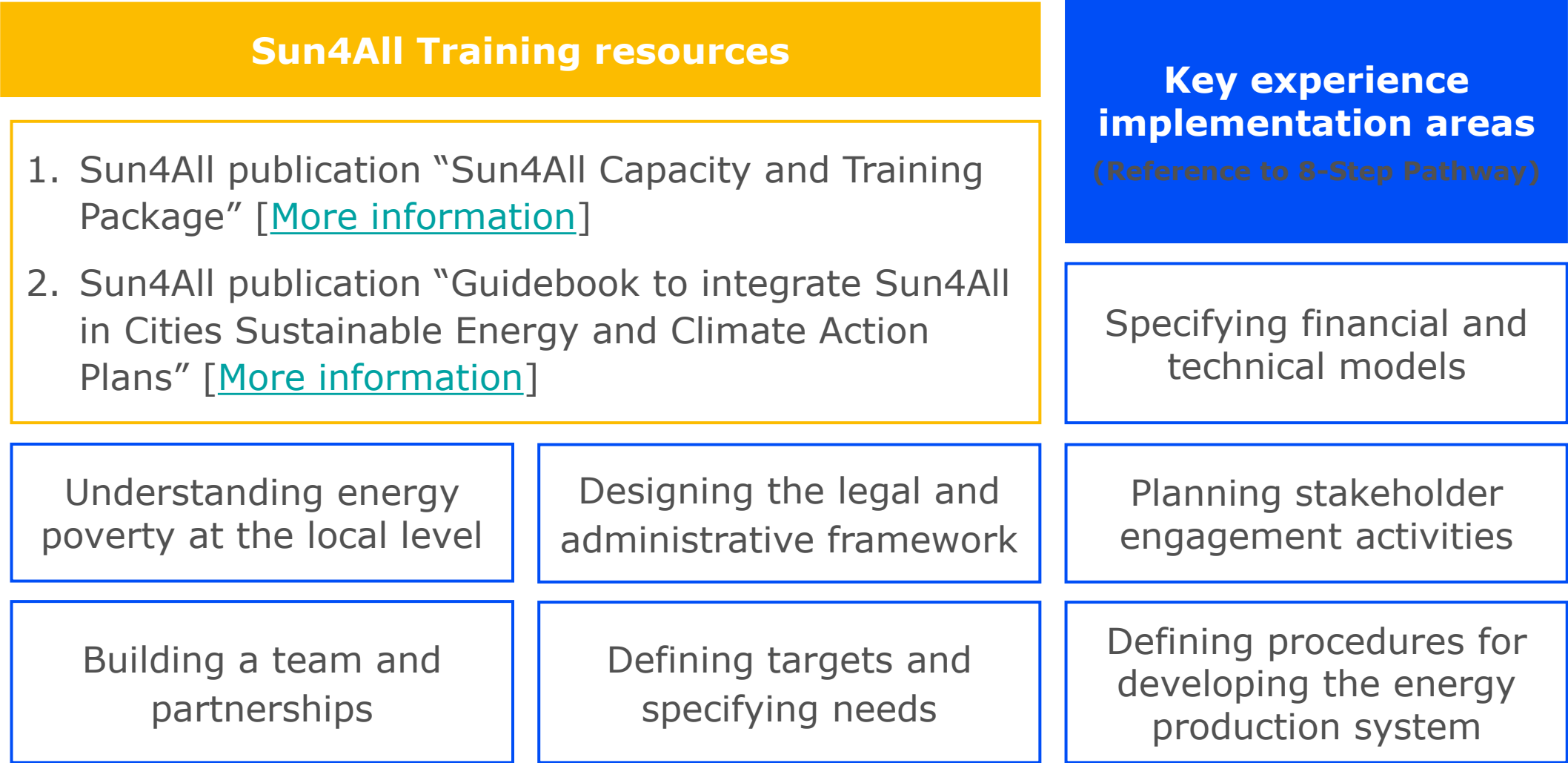
Building a team and partnerships

Designing the legal and administrative framework

Specifying financial and technical models

Planning stakeholder engagement activities

6-2 | Sun4All Experiences Assets





6-3 | Digital Integration of Sun4All Resources

To increase the accessibility of the Sun4All project's intellectual resources, the project team will focus on promoting their integration into various platforms, including portals, online libraries, and others supported by the European Union Commission and other entities, such as the following:



EU Open Research Repository

<https://zenodo.org/>



Energy Poverty Advisory Hub

<https://energy-poverty.ec.europa.eu/>



EC CIRCABC Working Area

<https://circabc.europa.eu/ui/welcome>



Covenant of Mayors for Climate and Energy

<https://eu-mayors.ec.europa.eu/en/home>



**NetZeroCities
Knowledge Repository**

<https://netzerocities.app/knowledge>



ICLEI e-Library

<https://iclei.org/iclei-e-library/>



**DECIDE Knowledge
Hub**

<https://knowledge4energy.eu/>



ICLEI Europe

<https://iclei-europe.org/publications-tools/>



**Right to Energy
Coalition**

<https://righttoenergy.org/resources/>

7. Seeking collaboration for expansion beyond European borders



7 | Seeking Collaboration for the Expansion Beyond European Borders

The Sun4All project is grounded in European and international networking and collaboration, aiming to involve vulnerable consumers in energy communities and share the benefits of renewable energy for a fair energy transition. The project is open to collaboration with stakeholders across Europe and beyond.

Since its inception in October 2021, Sun4All has concentrated on identifying collaboration opportunities with related initiatives, programs, and projects, as well as exploring their implementation.

Alongside its intra-European efforts for piloting, testing, adoption, and replication, the Sun4All project team also fosters cross-continental cooperation.

Throughout the project, Sun4All has partnered with the New York State Energy Research and Development Authority to enhance cross-continental collaboration in tackling energy poverty both in Europe and globally.

Below you can find some inspiring examples of international collaboration within the Sun4All project implementation.



7 | Seeking Collaboration for the Expansion Beyond European Borders

Sun4All participated in the ICLEI World Congress in São Paulo, Brazil, from June 19-21, 2024. The project team presented Sun4All and established exciting connections with the Prefeitura de Teresina and Prefeitura de São Paulo in Brazil, as well as the Câmara Municipal de Matosinhos in Portugal, all of whom showed interest in replicating the Sun4All financial model.

You can (re)watch the ICLEI World Congress 2024 Recap [here](#).

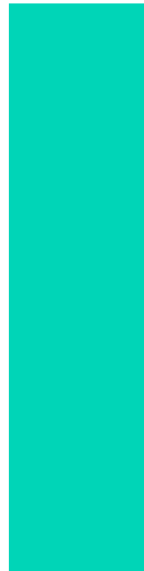


Image: ICLEI

7 | Seeking Collaboration for the Expansion Beyond European Borders

On June 13, 2024, the Sun4All project consortium, in collaboration with the Climate Alliance, co-organized a policy session during the European Sustainable Energy Week in Brussels (Belgium). This session emphasized the importance of local authorities in fostering a fair and inclusive European Green Deal.

You can (re)watch the EUSEW Policy Session [here](#).



Image: Clotilde Mahé

7 | Seeking Collaboration for the Expansion Beyond European Borders

The International Annual Conference on Energy Poverty, held on September 19-20, 2023, in Warsaw, Poland, focused on tackling energy poverty and promoting sustainable solutions. The Sun4All team presented their experiences and invited stakeholders to become Sun4All replicators, joining the effort to combat energy poverty with renewable energy solutions.

You can (re)watch the Conference on Energy Poverty 2023 [here](#).



Image: Marta Bugaj

8. Final Remarks





Sun4All Final Remarks

The report ["Regions and Cities Shaping the European Green Deal 2.0"](#), presented by the European Committee of the Regions in 2024, indicates that the number of people affected by energy poverty in the European Union rose by 10.7 million from 2021 to 2022, reaching a total of 40 million (9.3% of the EU population).

Rising energy costs, social and economic inequality, aging housing stock, seasonal variability, etc. are making the issue of energy poverty increasingly challenging for local communities across Europe each year. Planning and implementing adequate actions to address energy poverty is critically important.

The Sun4All project is helping to develop innovative and proactive solutions to tackle energy poverty locally by offering access to renewable resources, engaging and empowering vulnerable groups, and enhancing collaboration among various stakeholders – local governments, energy agencies, utilities, communities, etc.

Collaboration is a crucial precondition for tackling energy poverty at the local level for several reasons:



Sun4All Final Remarks

- 1. Resource Sharing:** Local authorities, organisations, and communities often have limited resources. By collaborating, they can pool their resources – such as funding, expertise, and manpower – leading to more effective and comprehensive solutions.
- 2. Comprehensive Solutions:** Energy poverty is a multifaceted issue, involving economic, social, and technical aspects. Collaboration allows for a holistic approach, integrating various perspectives and expertise to address all dimensions of the problem.
- 3. Leveraging Local Knowledge:** Local stakeholders have a deep understanding of the specific needs, challenges, and opportunities within their communities. Collaboration ensures that solutions are tailored to the local context and are more likely to be effective and sustainable.
- 4. Enhanced Implementation:** When local authorities, non-governmental organisations, businesses, and community groups work together, they can coordinate their efforts, avoid duplication, and ensure that initiatives are implemented efficiently and effectively.



Sun4All Final Remarks

- 5. Policy Influence:** Collaborative efforts can lead to stronger advocacy and influence over policy decisions. A united front can more effectively lobby for supportive legislation, funding, and other resources from higher levels of government.
- 6. Building Trust and Engagement:** Collaboration fosters a sense of community and shared purpose. It helps build trust among stakeholders, encouraging greater engagement and participation from residents and local organizations.
- 7. Innovation and Best Practices:** Collaborative environments promote the exchange of ideas and best practices. Stakeholders can learn from each other's experiences and innovate to develop more effective strategies to combat energy poverty.

The Sun4All project demonstrates that by working together, local authorities, organisations, and communities can develop and implement more effective, inclusive, and sustainable strategies to reduce energy poverty, ultimately contributing to broader goals such as climate neutrality and social equity.



Thank you!

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 [Sun4All Project](#)

 [@Sun4All_EU](#)



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