

Session 2 - Tools and Technologies for Resilient Energy Communities

Local energy transition planning and enabling tools

LOGREENER – Composing Local Green Energy Transition

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LOGREENER Objective

Improve the capacities of local authorities to plan and deploy sustainable energy transition local plans, creating an optimized and comprehensive toolkit, based in the results of 3 Interreg MED projects: COMPOSE, PRISMI and LOCAL4GREEN

LOGREENER Target group

Local Authorities and key multiplier stakeholders (associations of municipalities, regional authorities, local energy agencies, ...)



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LOGREENER = COMPOSE+PRISMI+LOCAL4GREEN

COMPOSE

Platform to access tools and resources to foster more efficient implementation of energy planning

PRISMI

Toolbox to identify the most promising RES to be exploited in each territory and to collect the data for energy planning

LOCAL4GREEN

Tools to design and implement innovative local fiscal policies to promote RES



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Policy and Instruments for Energy Transition

Organized by: ENERCMED PROJECT

SPAIN

FVMP Lead Partner

MUSOL Foundation

Technical partner

LOCAL4GREEN

CROATIA

University of Zagreb

Technical partner

PRISMI

GREECE

Technical University of Crete

Technical partner

COMPOSE

ITALY

UNCEM Lazio

Association of municipalities

CROATIA

LEADER Network

Local Action Group

SLOVENIA

LEASP

Local Energy Agency

BOSNIA-HERZEGOVINA

Zenica-Doboj Canton

Regional Authority

Multiplier partners

Toolkit Receiver municipalities: *Riba-roja de Túria (Spain), Duga Resa (Croatia), Amari (Greece), Antrodoto (Italy), Maglaj (Bosnia-Herz.) and Markovci (Slovenia)*

Other associated partners: *municipalities, associations of municipalities, regional authorities, local action groups, universities...*



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Main LOGREENER activities

Production of the
LOGREENER
Toolkit



Training to local
authorities and key
multiplier
stakeholders



Engagement of policy
makers to uptake
energy transition plans
drafted using the
toolkit

Communicating
the toolkit in
relevant events

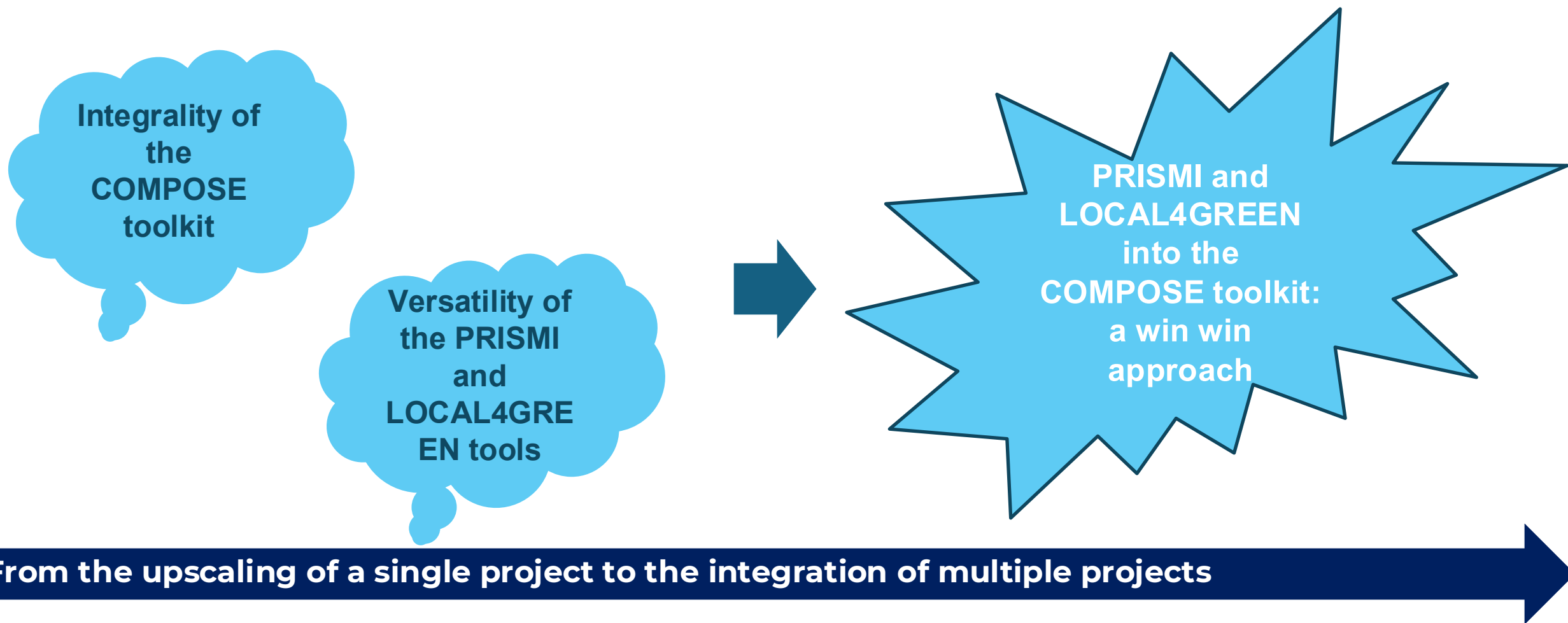


Drafting
International and
National **Policy
recommendations**



Designing **Technical
impact amplification
strategies** to reach
policy makers and key
stakeholders

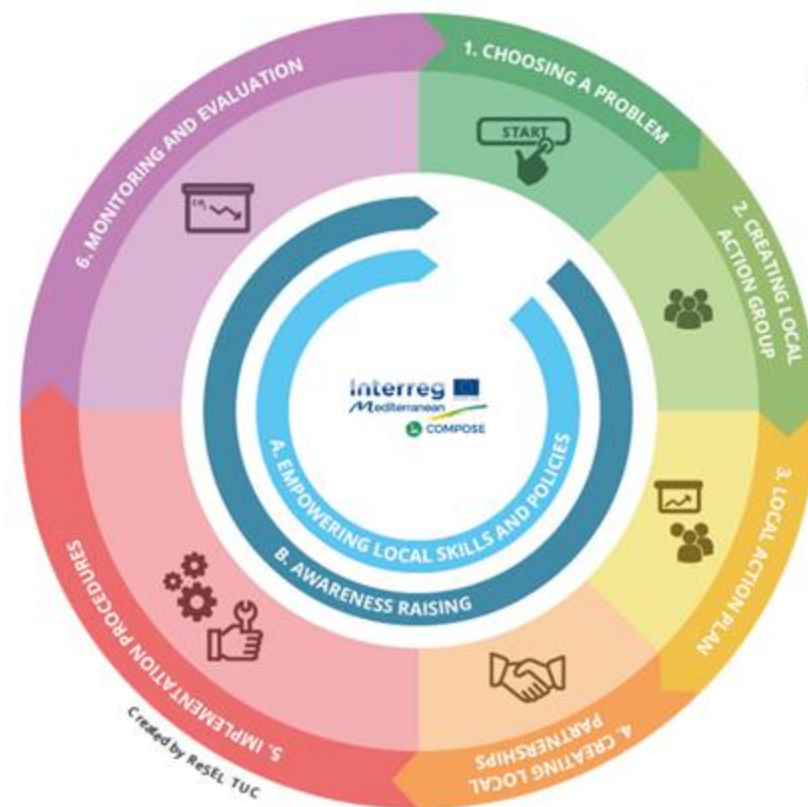
How the LOGREENER approach was designed



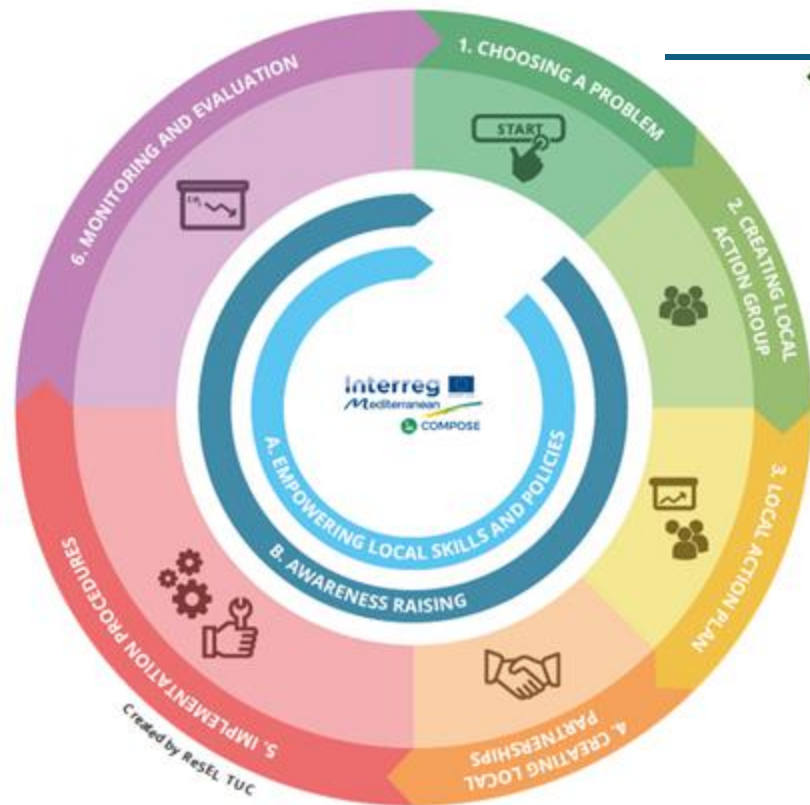
The result of the integration

energy initiatives, offering practical examples for leveraging local taxes and incentives to support the energy transition.

Enter the Toolkit!



The result of the integration



A screenshot of a web browser showing the '1. Choosing a problem' page from the 'reselplan-toolbox.eu' website. The browser tabs include 'toolkit', 'LOGREENER', and '1. Choosing a problem - Comp'. The address bar shows the URL 'reselplan-toolbox.eu/get-started/choosing-a-problem/index.html'. The page content includes a circular diagram with segments 4, 5, and 6, and the text 'Created by ReSEL TUC'. Below the diagram, the text 'Local energy planning steps' is followed by a list of six steps: 1. Choosing a problem (checked), 2. Creating Local Action Group, 3. Local Action Plan, 4. Creating Local Partnerships, 5. Implementation procedures, and 6. Monitoring & Evaluation. To the right of the list, the text 'and priorities, include:' is followed by a list of four bullet points: preliminary analysis of the local community's energy needs; identification of the current state of the local environment, including the estimation of the local RES or EE potential; estimation of the expected impact on the local economy and on the wider adoption of energy efficiency and RES solutions; and recognition of potential challenges, synergies and opportunities for efficient implementation. Below this list, the text 'Find more on how to identify the local energy needs and to estimate the local RES or EE potential.' is followed by a link to 'SHOW PODCAST'.

Local energy planning steps

1. Choosing a problem ✓
 - > Identifying the local energy needs
 - > Estimating the local RES or EE potential
2. Creating Local Action Group >
3. Local Action Plan >
4. Creating Local Partnerships >
5. Implementation procedures >
6. Monitoring & Evaluation >

and priorities, include:

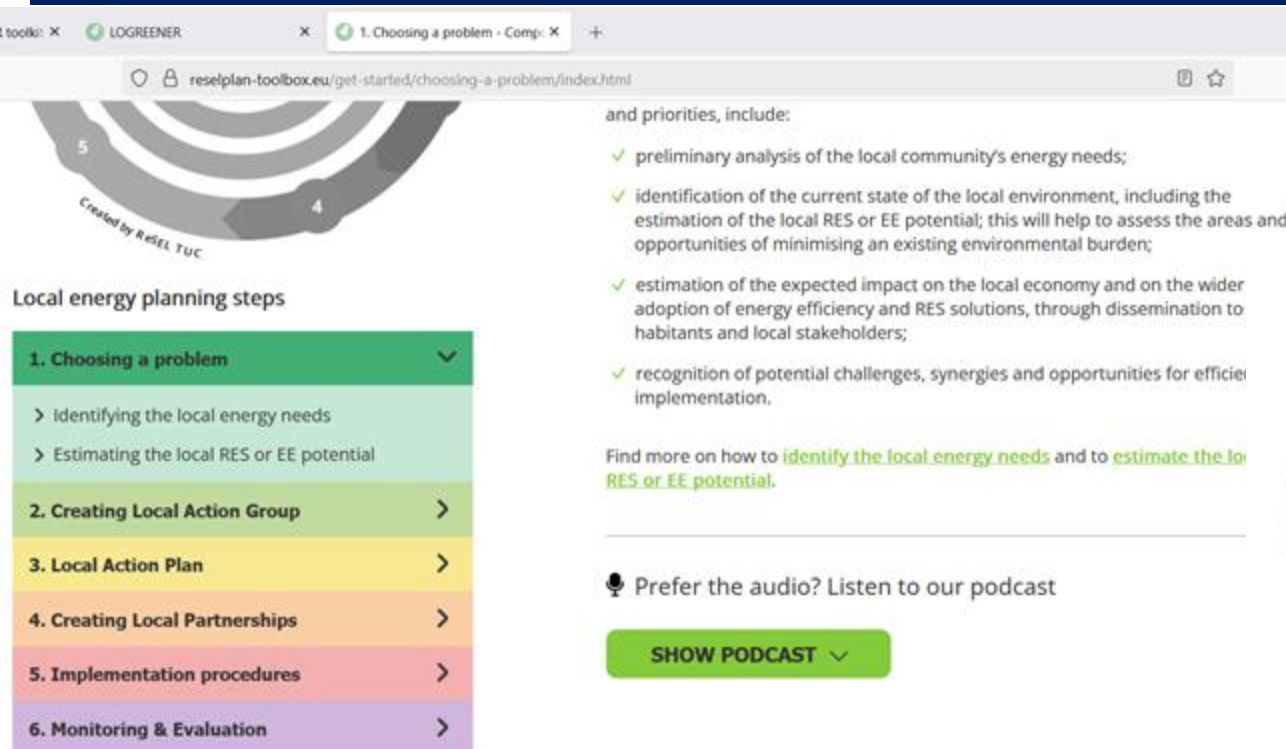
- ✓ preliminary analysis of the local community's energy needs;
- ✓ identification of the current state of the local environment, including the estimation of the local RES or EE potential; this will help to assess the areas and opportunities of minimising an existing environmental burden;
- ✓ estimation of the expected impact on the local economy and on the wider adoption of energy efficiency and RES solutions, through dissemination to the habitants and local stakeholders;
- ✓ recognition of potential challenges, synergies and opportunities for efficient implementation.

Find more on how to [identify the local energy needs](#) and to [estimate the local RES or EE potential](#).

🎧 Prefer the audio? Listen to our podcast

[SHOW PODCAST](#) ▾

The result of the integration



The screenshot shows a web browser with the URL reselplan-toolbox.eu/get-started/choosing-a-problem/index.html. The page features a circular diagram with six steps, where step 1 is highlighted. To the right of the diagram, a list of priorities is provided, each preceded by a green checkmark. Below this list, there is a link to find more information on how to identify local energy needs and estimate local RES or EE potential. At the bottom of the page, there is a microphone icon and the text 'Prefer the audio? Listen to our podcast', followed by a green button labeled 'SHOW PODCAST'.

Local energy planning steps

1. Choosing a problem
 - > Identifying the local energy needs
 - > Estimating the local RES or EE potential
2. Creating Local Action Group
3. Local Action Plan
4. Creating Local Partnerships
5. Implementation procedures
6. Monitoring & Evaluation

and priorities, include:

- ✓ preliminary analysis of the local community's energy needs;
- ✓ identification of the current state of the local environment, including the estimation of the local RES or EE potential; this will help to assess the areas and opportunities of minimising an existing environmental burden;
- ✓ estimation of the expected impact on the local economy and on the wider adoption of energy efficiency and RES solutions, through dissemination to habitants and local stakeholders;
- ✓ recognition of potential challenges, synergies and opportunities for efficient implementation.

Find more on how to [identify the local energy needs](#) and to [estimate the local RES or EE potential](#).

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Local energy planning steps



A vertical menu with two main items: '1. Choosing a problem' and '2. Creating Local Action Group'. The first item is expanded, showing two sub-items: '> Identifying the local energy needs' and '> Estimating the local RES or EE potential'.

1. Choosing a problem
 - > Identifying the local energy needs
 - > Estimating the local RES or EE potential
2. Creating Local Action Group

Estimating the local RES or EE potential

A thorough analysis of the regional/local potential for energy saving and energy efficiency (EE) improvements, the RES potential and further possibilities for sustainable siting and integration, is a vital step to create effective energy plans and set realistic goals. Local energy producers and relevant technology providers may also provide insights into the scale of the EE or RES opportunity in the area.

Useful resources:



The section is titled 'Wind Energy' and contains three categories of resources: 'Online tools', 'Useful Documents', and 'Useful Links'. Each category lists specific resources with green checkmarks.

Wind Energy

Online tools

- ✓ [Global Wind Atlas](#): Web-based GIS application of global, regional and country wind resource
- ✓ [IRENA: Global Atlas for Renewable Energy](#): Maps and tools for wind potential estimation

Useful Documents

- ✓ [Unleashing Europe's offshore wind potential \(Wind Europe\)](#)
- ✓ [Europe's onshore and offshore wind energy potential \(European Environment Agency\)](#)
- ✓ [EMHRES Dataset Part I: Wind power generation](#)

Useful Links



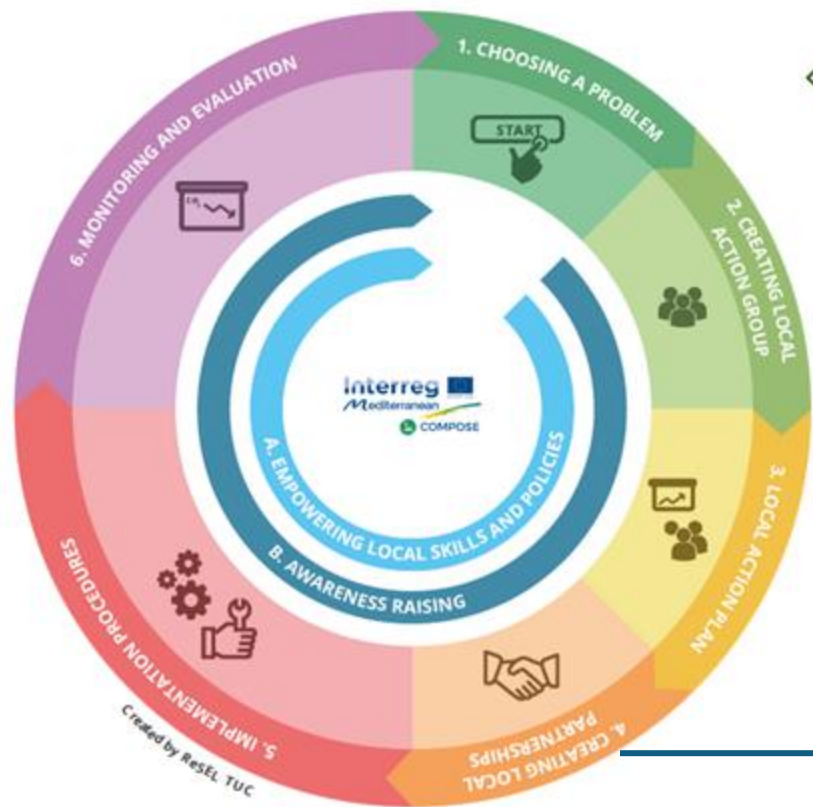
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Learn how fiscal policies can empower the green transition

Local fiscal policies play a vital role in facilitating green transition and climate neutrality at the local level. By leveraging tools such as tax incentives, local governments can encourage businesses and individuals to invest in green technologies and sustainable practices. These policies can support the development of renewable energy infrastructure, energy-efficient buildings, and public transportation systems, reducing the community's carbon footprint.

Learn more from targeted fiscal policies tested in the frame of the LOCAL4GREEN and LOCAL4GREEN PLUS projects; Local authorities from 10 Mediterranean countries (Spain, Albania, Portugal, Croatia, Slovenia, Italy, Cyprus, Greece, Malta) have employed innovative fiscal measures to contribute against climate change and promote the adoption of renewable energy sources.

Get inspired by the outcomes and lessons learned of the LOCAL4GREEN fiscal policies!

Show all or filter by: Country Sector Theme Taxpayer typology Fiscal modification typology



Albania, Cyprus, Industry, Residential, Services, Municipal services, Waste, Citizens, Companies, Tax collection environmental allocation, Tax reduction



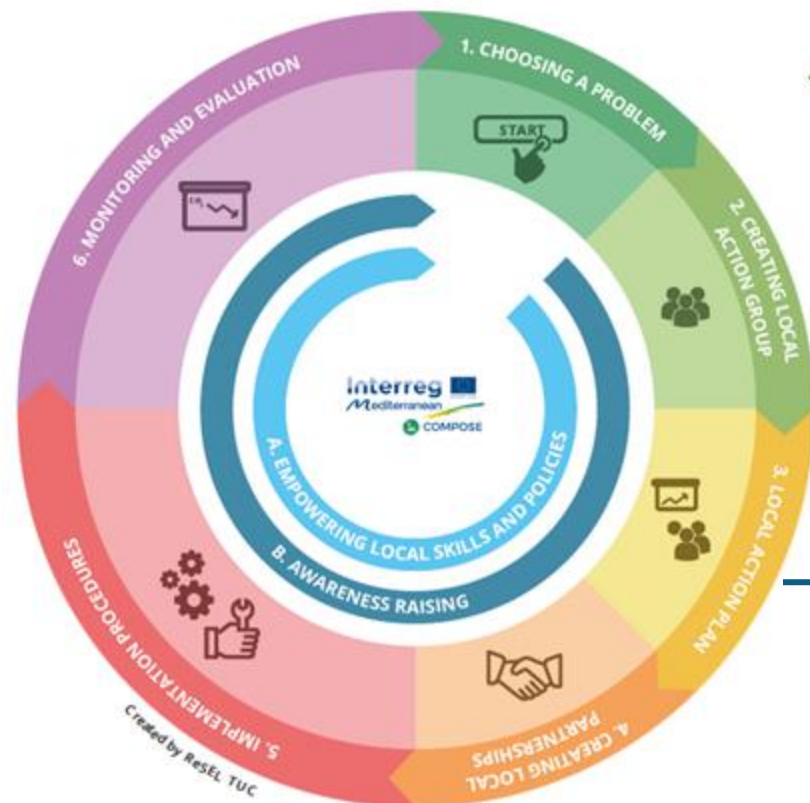
Albania, BiH, Spain, Industry, Residential, Services, Buildings, Land, Citizens, Companies, Tax reduction



Spain, Services, Municipal services, Citizens, Tax reduction

Get Fit and Save: Municipal Gym Discounts for Generating Green

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Home / GET STARTED / 3. Local Action Plan / Modelling Renewable Energy Scenarios

3. Local Action Plan



Modelling Renewable Energy Scenarios

Modelling renewable energy scenarios is essential for efficient and realistic local energy planning, helping communities to explore alternative transition pathways. By evaluating various scenarios—ranging from minimal to high renewable energy integration, decision-makers can optimize energy planning, assess environmental impacts, and ensure system stability and cost efficiency.

The PRISMI and PRISMI PLUS projects have developed a methodology for scenario modelling, helping local authorities assess their renewable energy potential and optimize strategies. A key tool in this process is EnergyPLAN, a widely used simulation tool that models energy systems on an hourly basis. It supports scenario development for electricity, heating, transport, and industry, allowing users to test various renewable energy strategies.

This process involves:

- ✓ **Data Collection:** gathering energy demand data, assessing renewable energy potential, and identifying socio-economic and technical constraints.
- ✓ **Scenario Definition:** running different energy scenarios to evaluate renewable integration levels. Indicatively, the following scenarios can be modeled:
 - ✓ **LowRES** – Baseline scenario with minimal renewable integration.
 - ✓ **RES** – Increased renewable energy share within technical and environmental limits.
 - ✓ **HighRES** – Maximum renewable penetration, requiring innovative technologies.

Local energy planning steps

- | | |
|--------------------------------|---|
| 1. Choosing a problem | > |
| 2. Creating Local Action Group | > |
| 3. Local Action Plan | ✓ |



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How to promote the toolkit application

Transferring is not
(only) training...





Thank you!

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