Deliverable 1.2.1 - Optimised toolkit built on the synthesis of the PRISMI, COMPOSE and LOCAL4GREEN upscaled outputs

Output 1.1 - Jointly developed toolkit for local authorities to plan and deploy the sustainable energy transition based on the synthesis and upscaling of the PRISMI, COMPOSE and LOCAL4GREEN projects outputs.

LOGREENER toolkit: https://reselplan-toolbox.eu/logreener/

https://logreener.interreg-euro-med.eu

Composing Local Green Energy Transition LOGREENER

Project Mission: Promoting green living areas

Programme priority: Greener MED

Specific Objective RSO2.4: Promoting climate change adaptation and disaster risk prevention, resilience, taking into account eco-system based approaches

Partner in charge: PP4 TUC-ReSEL

Partners involved: LP1 FVMP, PP2 MUSOL, PP5 UNIZAG FSB

TABLE OF CONTENTS

1. INTRODUCTION

Small and medium-sized municipalities across the Mediterranean face growing pressure to respond to climate change, while often lacking technical expertise, data access, and financial capacity needed to develop effective local energy and climate strategies. Despite their crucial role in driving the green transition at local level, many local authorities struggle to move from political commitment to practical implementation. In this context, there is an urgent need for accessible, flexible and user-friendly tools that can support planning processes, boost stakeholder engagement, and guide the development of local plans such as Sustainable Energy and Climate Action Plans (SECAPs).

The LOGREENER integrated toolkit (reselplan-toolbox.eu/logreener) responds directly to this need, representing a main deliverable of the LOGREENER project and reflecting the collective efforts of the partnership to support municipalities in designing and implementing energy and climate plans tailored to the needs and capacities of diverse Mediterranean territories. Built upon the Sustainable Energy Planning Toolbox (COMPOSE)[1] and integrating practical tools and resources from the PRISMI and LOCAL4GREEN projects, the LOGREENER toolkit offers:

- A step-by-step, bottom-up methodology for sustainable energy planning.
- Tools for renewable energy scenario modelling and green fiscal policy design.
- Integrated case studies from Mediterranean municipalities demonstrating practical applications.
- A user-friendly online platform facilitating knowledge transfer and practical implementation.

The toolkit is designed for local authorities, technical staff, policymakers, and stakeholders interested or involved in advancing local climate and energy transition planning, aiming to empower them with practical guidance and resources to support a sustainable, climate-resilient future across the Mediterranean.

Visit reselplan-toolbox.eu/logreener, to learn about the LOGREENER TOOLKIT, to access practical tools and a wealth of resources for efficiently deployment of sustainable energy transition local plans.

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[1] **The Sustainable Energy Planning Toolbox** (COMPOSE Toolbox) is a user-friendly, web-based platform that guides step-by-step local authorities and planners, to a more efficient design, implementation, and monitoring of sustainable energy projects. Developed by the Renewable and Sustainable Energy Lab of the Technical University of Crete under the Interreg MED COMPOSE project, it provides powerful tools, databases, and l resources to unlock local energy potential—balancing technical, environmental, and socio-economic aspects. With over 2,500 registered users and endorsement from 300+ authorities across 65 Mediterranean regions, COMPOSE is helping drive the green energy transition from the ground up.

WP1: Delivering an optimised toolkit to support planning and implementation of local energy plans
Activity 1.2: Delivering an integral tool built on the updated results and optimised function of PRISMI, COMPOSE and LOCAL4GREEN tools, to support local authorities towards their sustainable energy transition
Activity Leader: ReSEL@TUC, Authors:, Marina Giamalaki, Mariana Grammenou, Stavroula Tournaki
Status: Final
Distribution: Public
Date: 22.05.2025

4

2. LOGREENER TOOLKIT: KEY FEATURES

The LOGREENER project aims to enhance the capacities of local authorities to plan and deploy sustainable energy transition plans through a participatory approach, transferring to municipalities and key stakeholders an optimised and practical toolbox. This toolbox is based on the practical and user-friendly Sustainable Energy Planning Toolbox (COMPOSE Toolbox), developed by ReSEL@TUC, and builds upon the updated results of three previous Interreg MED 2014-2020 projects: COMPOSE, PRISMI, and LOCAL4GREEN.

Building on these foundations, the LOGREENER integrated toolkit combines and enhances the strengths and functionalities of these reference projects to support the planning, modelling, and financing of local sustainable energy actions:

Interreg *Mediterranean* COMPOSE COMPOSE PLUS	The COMPOSE model and toolbox offers step-by-step guidance to a more efficient process to designing, implementing and monitoring sustainable energy projects and access to design tools, databases, best practices and a wide library of resources.
Interreg *Mediterranean* PRISMI	PRISMI offers methods and tools for modelling renewable energy scenarios and assessing the feasibility of integrating renewable energy systems at local level.
Interreg *Mediterranean* LOCAL4GREEN	LOCAL4GREEN focuses on the development of local fiscal policies that promote renewable energy initiatives, offering practical examples for leveraging local taxes and incentives to support the energy transition.

The LOGREENER integrated toolkit merges these approaches into a single, user-friendly platform, designed to support policy makers, development planners, local authorities' technical staff, and other stakeholders, such as energy and development agencies, actively engaged in local and regional green transition planning.

Through this integrated approach, LOGREENER empowers them to design and implement effective climate and energy plans, adapted to the specific needs of Mediterranean territories and aligned with the objectives of climate neutrality and resilience.

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Status: Final
Distribution: Public
Date: 22.05.2025

5

3. LOGREENER TOOLKIT SECTIONS

The LOGREENER Toolkit is organised within a user-friendly online structure, ensuring easy navigation for local authorities and stakeholders wishing to advance their sustainable energy planning and implementation processes.

Through its landing page (Figure 1), users can access a concise overview of the LOGREENER project's scope, its integrated components, and its role in supporting local green transition efforts. The page briefly explains the toolkit's step-by-step methodology, tools for RES scenario modelling, guidance on green fiscal policies, and the embedded case studies illustrating real-world applications.
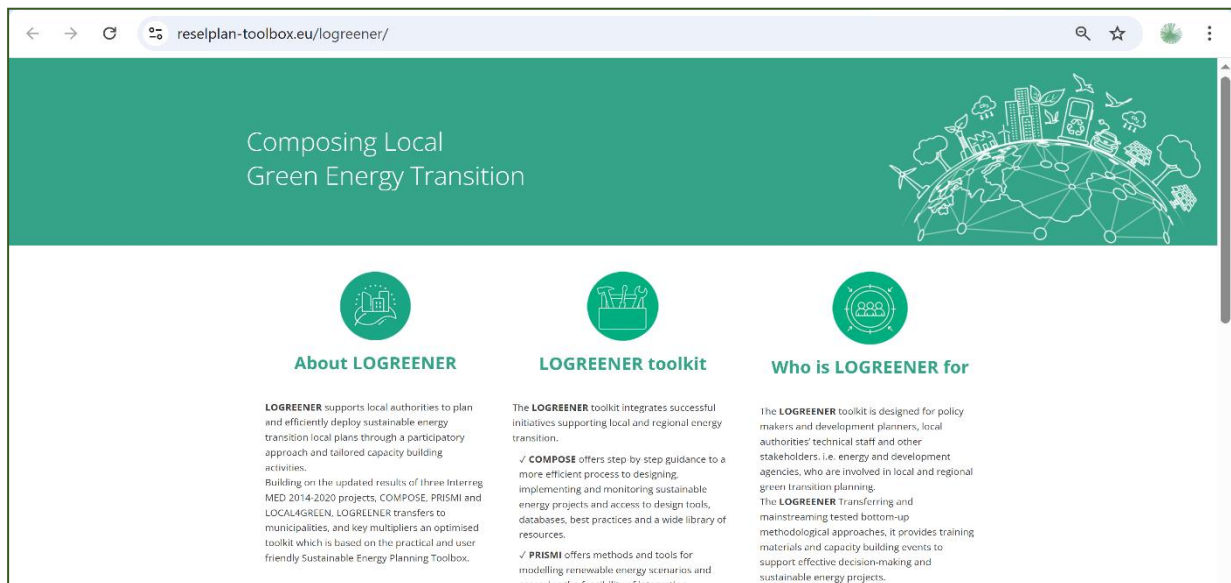

Figure 1 *The LOGREENER Toolkit landing page (reselplan-toolbox.eu/logreener)*

By then clicking on the "Enter the Toolkit!" button (Figure 2), users are directed to the main navigation page of the LOGREENER toolkit.

Figure 2 *"Enter the Toolkit" button in the landing page of LOGREENER toolkit*

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Status: Final
Distribution: Public
Date: 22.05.2025

6

The interface presents key thematic sections through dedicated entry points (Figure 3), each offering access to targeted tools, case studies, and guidance material:

1. **Sustainable Energy Planning Toolbox (COMPOSE):** This section provides a comprehensive step-by-step methodology to support municipalities in the design, implementation, and monitoring of local sustainable energy projects. It gives access to practical tools for energy planning, interactive guidance on each model step, relevant databases, technical documents, and policy links. It also includes a library of real case studies. This toolbox, originally developed under the COMPOSE project, forms the technical backbone of the LOGREENER toolkit.

2. **Renewable Energy Scenario Modelling (PRISMI):** This entry point gives access to a dedicated sub-step of the methodology and showcases how to model renewable energy scenarios at local level. It also includes real case studies demonstrating practical applications of RES integration in various Mediterranean territories.

3. **Green Fiscal Policy Instruments (LOCAL4GREEN):** This section provides access to a dedicated sub-step of the methodology, focusing on how local fiscal policies can drive the energy transition. Users will find real-life examples from Mediterranean municipalities where tax adaptations and incentives have been used to promote renewable energy and energy efficiency.

4. **Capacity building and Training Resources:** This section gives access to the LOGREENER Training Package. The training content has been structured around four key target groups and includes guidelines, presentations, and ready-to-use materials to support the delivery of capacity-building sessions and promote widespread use of the toolkit.

5. **EU Energy & Climate Policies:** This section offers a curated overview of recent EU strategies, legislative packages, and funding instruments related to energy and climate action. It supports local actors in aligning their plans with EU priorities and identifying relevant opportunities for policy and financial support.

Together, these sections enable users to navigate across technical content, real-life examples, and supportive training resources- making the LOGREENER toolkit a functional, integrated platform for advancing sustainable local energy planning in the Mediterranean.

WP1: Delivering an optimised toolkit to support planning and implementation of local energy plans
Activity 1.2: Delivering an integral tool built on the updated results and optimised function of PRISMI, COMPOSE and LOCAL4GREEN tools, to support local authorities towards their sustainable energy transition
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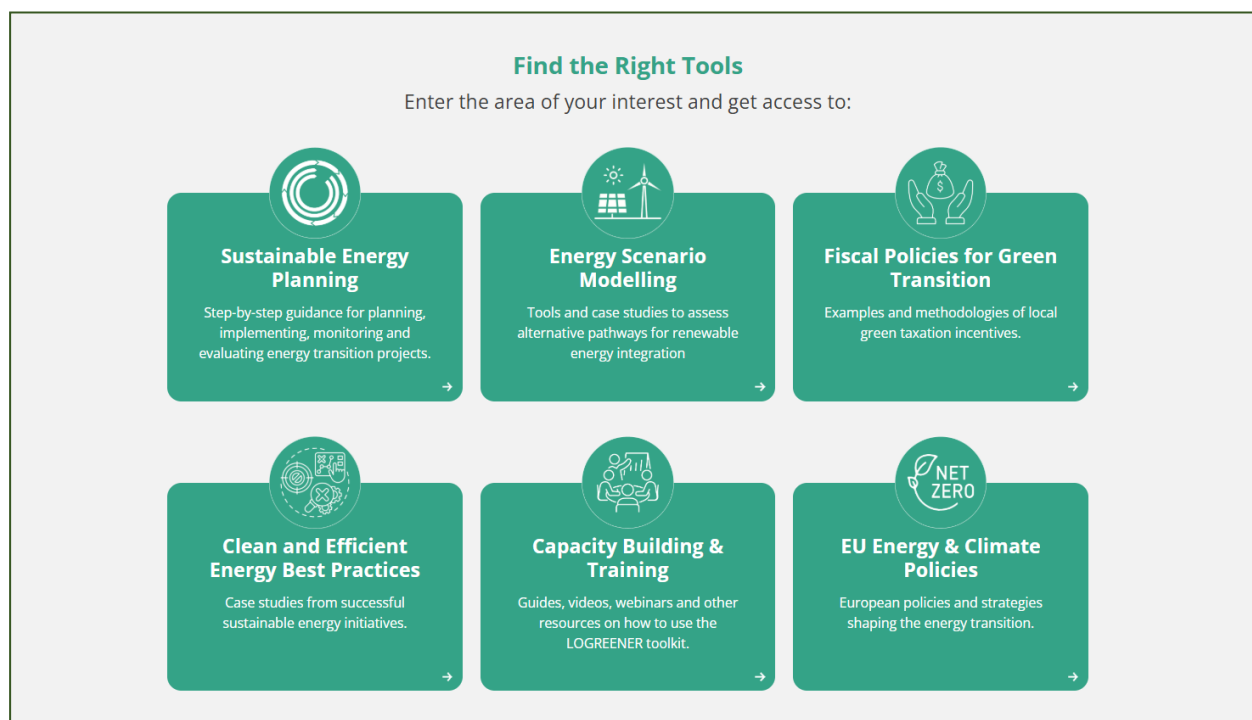Distribution: Public
Date: 22.05.2025

7

Figure 3 *Thematic areas and access to the tools compiling the LOGREENER toolkit*

4. SUSTAINABILITY AND MAINTENANCE OF THE LOGREENER TOOLKIT

The LOGREENER toolkit has been developed and is maintained by the Renewable and Sustainable Energy Systems Laboratory of the Technical University of Crete (ReSEL@TUC), in collaboration with MUSOL Foundation and the University of Zagreb – Faculty of Mechanical Engineering and Naval Architecture and all the LOGREENER project partners, who contribute to its content and ensure that key resources are accessible, adaptable and, where needed, translated into national languages. It has been designed not as an "ad hoc" output, but as a functional tool with a long-term impact, based on the existing needs of Mediterranean municipalities, and usable on a wide institutional and geographical scale.

Being built on and hosted on the pre-existing and acknoweledged Sustainable Energy Planning Toolbox (COMPOSE)[2], the platform will continue to evolve throughout the project's implementation, incorporating new thematic domains, relevant resources and updates on policies based on ongoing activities and feedback from stakeholders. As part of the LOGREENER commitment to sustainability, the platform will be maintained after the project's completion, ensuring continued access to tools, resources, and guidance for municipalities and stakeholders involved in local energy and climate planning.

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[2] The COMPOSE toolbox, which forms the backbone of the LOGREENER toolkit, during its 7-year operation, has already demonstrated successful large-scale transfer: over 1.100 municipal actors trained across 11 countries, 75 young engineers capacitated, and 250 policymakers signing MoUs for the model practical application in 65 territories. Institutional adoption by national and regional networks, such as KEDE (334 Greek municipalities), INSULEUR (50 EU insular chambers), and LCA (68 communities in Malta), demonstrates the model's transferability. Those networks and channels will ensure further uptake of the LOGREENER toolkit too.

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Status: Final
Distribution: Public
Date: 22.05.2025

8

Beyond the technical maintenance of the platform, the LOGREENER toolkit will be transferred through targeted activities. The toolkit is practically applied for the support of Mediterranean municipalities in drafting or updating their local energy transition plans, ensuring direct usability and policy relevance. LOGREENER follows a participatory planning approach, engaging local action groups and adapting capacity building activities addressing diverse territorial needs. By training both municipal technical staff and local policy/decision makers, the project strengthens institutional capacity and increases the potential for long-term uptake of its tools.

LOGREENER builds on this legacy through a dual training scheme targeting both local authorities and institutional multipliers capable of transferring the toolkit and the concrete methodologies that the LOGREENER toolkit promotes across new Mediterranean regions and territories. Also, the peer-to-peer learning by doing implementation further enhances practical uptake and long-term usability, while the cooperation with EU-wide initiatives and networks such as Covenant of Mayors for Climate and Energy, ELARD, INSULEUR et.al., ensures access to hundreds of municipalities and local action groups. In terms of measurable impact, LOGREENER aims to achieve the uptake of 5 strategies by institutional actors, and increased institutional capacity in at least 17 organisations. Moreover, dozens of dedicated public events will promote the transfer of the toolkit to municipalities and supporting bodies across the region. The continued involvement of trained stakeholders and the integration into Interreg EuroMED Academy training streams will promote the wider use, and sustainability of the toolkit.

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Distribution: Public
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9