Project idea form - small projects

Version 2.1

Registration no. (filled in by MA/JS only) _____

Project Idea Form

Date of submission 29/05/2025

1. Project idea identification

Project idea name	Solar-Powered Solutions for Community Wellbeing and Resilient Future
Short name of the project	Resilient by Solar
Previous calls	yes ◯ no ◉
Seed money support	yes ◯ no ◉

2. Programme priority

	3. Climate-neutral societies

3. Programme objective

	3.2. Energy transition

4. Potential lead applicant

Name of the organisation (original)	Molėtų rajono savivaldybės administracija
Name of the organisation (English)	Molėtai District Municipality Administration
Website	https://www.moletai.lt/
Country	LT

Type of Partner	International governmental organisation
	HELCOM, BSSSC, CBSS, VASAB, etc.
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Which organisation(s) in the planned partnership take part in a project within the Interreg Baltic Sea Region Programme for the first time? Please list the respective partners.

Molėtai District Municipality Administration, Lithuania
Latgale Planning Region, Latvia
Department of Built Environment, Industrial Engineering and Economics, Dalarna University, Sweden
Alminica AB, Sweden

5.1 Specific challenge to be adressed

Rural communities and smaller towns, such as the Moletai district, often struggle with reliable energy access, especially in public buildings like hospitals, schools, and nursing homes. These facilities rely on traditional, non-renewable energy sources, making them vulnerable during extreme weather events and power outages, particularly when data centers may come in the future. As climate change leads to more frequent storms and floods, the need for resilient, sustainable energy solutions has never been greater. This project aims to install solar panels and energy storage systems in key public buildings in the Moletai district. There are four specific objectives: (1) define context and boundary conditions of public buildings in Moletai district; (2) develop a test bed for public solar charging station; (3) case studies of optimized energy system and digital trading mechanism; and (4) knowledge sharing and co-create solar energy system for public buildings. By focusing on the Moletai district, the project will help improve the resilience of local communities to climate-related events, ensuring that essential services remain accessible even during emergencies. It will also contribute to reducing carbon emissions and advancing the transition to more sustainable energy systems, making these communities more attractive places to live and work. Ultimately, this initiative will strengthen the ability of public institutions to provide essential services, fostering a more sustainable and climate-resilient future.

5.2 Focus of the call

This project directly supports the cohesive development of the Moletai district and it's rural communities by addressing energy challenges in public institutions such as hospitals, schools, and nursing homes. These areas often face energy insecurity, especially during extreme weather events that disrupt essential services. By installing solar panels and energy storage systems, the project will enhance the sustainability, resilience, and energy independence of public buildings, making them more reliable and less dependent on non-renewable sources. The target groups—rural residents, healthcare patients, students, and the elderly—will benefit from improved access to essential services even during power outages, ensuring their safety and well-being. Additionally, the initiative promotes local development by reducing energy costs, which can contribute to long-term economic growth and attract new investments to these areas. By addressing both environmental and social challenges, the project fosters a climate-resilient and equitable future for the Moletai district and similar communities, encouraging their sustainable growth and strengthening their social and economic fabric.

6. Transnational relevance

The challenges of energy insecurity, climate change, and the need for more resilient public infrastructure are not unique to one region—they are shared across many rural areas in Europe. The Moletai district faces issues such as outdated energy systems, vulnerability to extreme weather, and limited resources to ensure energy resilience in essential institutions like hospitals, schools, and care homes. These same challenges are experienced in other rural regions across the Baltic Sea area and beyond.By cooperating transnationally, we can exchange knowledge, best practices, and technical solutions with partners facing similar conditions. This will help us design smarter, more efficient systems and avoid common mistakes. It will also allow us to learn from regions that have already begun their energy transitions, particularly in integrating renewables and securing energy access during disasters.Transnational cooperation strengthens the impact of small-scale local actions by embedding them in a broader network of innovation and support. It also helps build long-term partnerships and capacities that outlast the project itself. Together, we can co-develop scalable solutions, improve energy resilience in public institutions, and contribute to the wider goal of climate-neutral and inclusive rural development.

7. Specific aims to be adressed

Building trust that could lead to further cooperation initiatives

We will build trust by working closely with all project partners through open communication and regular meetings. Everyone will be involved in planning, sharing ideas, and solving problems together. By being honest, respectful, and supportive, we hope to create strong relationships that will continue even after the project ends and lead to more cooperation in the future.

Initiating and keeping networks that are important for the BSR

We will start and maintain strong networks by staying in regular contact with partners and

stakeholders. We'll use meetings, online platforms, and shared activities to keep everyone connected and informed. By sharing experiences and learning from each other, we'll make sure the network stays useful and active. These connections will help us carry out the project successfully and create opportunities for future cooperation, especially for small communities that benefit most from staying connected across borders.

Bringing the Programme closer to the citizens
The project strengthens the connection between the Programme and local communities by delivering visible, practical benefits. By ensuring reliable, clean energy in public buildings through solar panels and storage systems, it supports essential services during emergencies and reduces environmental impact. LPR's mobile solar-powered station—equipped with a battery, generator, heated tent, and charging area—will be tested at public events and used in crisis situations, allowing citizens to experience the value of renewable energy firsthand. This inclusive, people-centered approach makes the Programme tangible, relevant, and accessible to everyone.
Allowing a swift response to unpredictable and urgent challenges
The project will support a quick response to unexpected and urgent challenges, such as power outages caused by extreme weather. By installing solar panels and energy storage systems in key public buildings, we will make sure that hospitals, schools, and care homes can continue working even during emergencies. This will protect the most vulnerable people and help local communities recover faster. Working with partners will also let us quickly share solutions and adapt to new risks together.

8. Target groups

The main target groups of our project are public and social institutions in the Moletai district, including local hospitals, schools, kindergartens, nursing homes, and municipal buildings. These institutions are directly affected by the challenges of unreliable energy access, increasing energy costs, and the risks posed by climate-related disasters. Ensuring that these institutions have continuous access to energy is essential for community wellbeing, especially for vulnerable groups such as elderly residents, children, and patients in need of medical care.We will also involve local authorities and municipal staff, who play a key role in managing public infrastructure and have the power to support and maintain the solutions developed through the project. Their engagement is essential for successful implementation and long-term sustainability.Another important target group is the local population living in the Moletai district and surrounding rural areas. They will benefit directly from improved energy security in essential services and will be involved in awareness-raising and educational activities to promote the importance of sustainable and resilient energy systems.We also plan to involve technical experts, engineers, and renewable energy providers, who will support the design and installation of the systems and contribute with their knowledge and experience. Through cooperation with transnational partners facing similar challenges, we aim to exchange best practices and scale the impact of our solutions.All target groups will be actively engaged through meetings, workshops, training, and information sharing to ensure that the project's outcomes are useful, practical, and sustainable.

	Please use the drop-down list to define up to five target groups that you will involve through your project's activities.	Please define a field of responsibility or an economic sector of the selected target group	Specify the countries and regions that the representatives of this target group come from.
1.	Regional public authority	Moletai District Municipality will be the lead partner, responsible for coordinating the project, organizing activities, and overseeing the implementation of energy solutions	Lithuania
2.	Higher education and research institution	Dalarna University will use shared budget to maximize PV installation on data centers and neighborhoods in small cities and share their expertise and innovative solutions with us.	Sweden
3.	Regional public authority	Latgale Planning Region will be partners, using shared budget to test a mobile solar-powered charging station for public events and emergencies, gaining project experience.	Latvia
4.	Small and medium enterprise	Alminica AB will be associated partner, sharing expertise on digital asset tokenization to enhance value creation, liquidity, and trading in power distribution and development projects.	Sweden

9. Contribution to the EU Strategy for the Baltic Sea Region

Please indicate if your project idea has the potential to contribute to the implementation of the Action Plan of the EU Strategy for the Baltic Sea Region (https://eusbsr.eu/implementation/).

yes ◉ no ◯

Please select which policy area(s) of the EUSBSR your project idea contributes to most.

PA Secure

The MA/JS may share your project idea form with the respective policy area coordinator(s) of the EUSBSR. You can find contacts of PACs at the EUSBSR website (https://eusbsr.eu/contact-us/).

☐ If you disagree, please tick here.

10. Partnership

The partnership consists of four organizations from Lithuania, Latvia, and Sweden, each bringing unique competencies and geographic insights to jointly tackle the challenge of energy resilience through renewable energy, innovation, and digitalization.The Molėtai District Municipality Administration (Lithuania) is the lead partner, aiming to improve energy access in rural areas. The project will install solar panels and energy storage systems in public buildings like hospitals, schools, and elderly care homes. These installations will reduce dependence on fossil fuels, cut energy costs, and ensure that critical services can continue operating during outages—ultimately increasing climate resilience and community well-being.The Latgale Planning Region (Latvia) is a project partner representing local municipalities. Their role focuses on developing and testing a mobile solar-powered charging station for public events and emergencies. The station will include solar panels, battery storage, a generator, heating, seating, and charging points—demonstrating a portable, replicable model for energy access and crisis response.The Department of Built Environment, Industrial Engineering and Economics at Dalarna University (Sweden) contributes academic and technical knowledge. Their focus is on optimizing solar PV installations for data centers and surrounding neighborhoods in small cities. The team will explore energy storage, grid integration, and sharing of solar energy and waste heat to develop climate-neutral energy systems. Alminica AB (Sweden), an associated partner, brings expertise in digital asset creation and tokenization of value chains. Their work supports inclusive energy systems by exploring how data and digital tools can unlock environmental, financial, and social value—making energy transitions more transparent and participatory.While each partner focuses on specific local needs and solutions, they are united by a shared goal: building resilient, sustainable, and smart energy systems in underserved areas. By combining practical implementation, regional testing, academic research, and digital innovation, the partnership forms a coherent and collaborative effort. This diversity enhances the project's ability to generate transferable knowledge and impact across different contexts. No additional partners are currently planned, as the existing team brings the necessary expertise and geographic representation to achieve the project's objectives.

11. Workplan

The project aims to improve the climate resilience and energy independence of rural and small urban communities by implementing practical, research-based energy solutions. Molėtai District Municipality Administration (Lead Partner) will focus on installing solar panels and battery storage systems on key public buildings—such as schools, hospitals, and elderly care centers—within the Moletai district. The objective is to ensure continuous access to electricity during climate-induced disruptions and reduce long-term fossil fuel dependency. Local stakeholders (municipal staff, public institution administrators, and energy providers) will be directly involved during the needs assessment, building selection, and implementation phases. Latgale Planning Region (Latvia) will develop and test a mobile solar-powered emergency and event station. This includes a heated tent, charging area, seating, and backup generator to ensure energy availability during public events or crisis situations. The station will be tested in various municipalities, and the results will inform replication strategies across Latvia. Community members, local emergency teams, and municipal authorities will be the main target groups involved. Dalarna University (Sweden) will conduct a feasibility study and pilot analysis in small cities (Falun and Borlänge), focusing on the knowledge gains from the optimized solar PV and battery systems for public buildings and data centers. They will explore energy flow optimization, local energy sharing models, and the reuse of waste heat from data centers. The academic and municipal sectors will collaborate on research activities and knowledge dissemination. Alminica AB (Sweden, associated partner) will complement this work by analyzing tokenization and data-driven value creation for energy systems. Their work will support community-level engagement by introducing digital assets that increase transparency and incentivize sustainable energy behavior. This will include workshops and simulation models for municipal and private actors.Use of Outcomes and Target GroupsThe final outcomes—solar installations, mobile emergency systems, feasibility studies, and digital models—will be used by local municipalities, regional authorities, academic institutions, and private sector actors. Target groups include citizens, public service providers, municipal staff, and policy-makers. Stakeholder workshops and public events will ensure inclusive engagement and long-term adoption.While each partner leads unique actions tailored to their context, they share a common goal: to strengthen small communities through renewable energy. Together, they create a cross-border learning network that combines hands-on solutions with forward-thinking innovation—laying the foundation for sustainable, climate-resilient energy systems across the region.

12. Planned budget

ERDF budget (planned expenditure of partners from the EU)	EUR 500,000.00
Norwegian budget (planned expenditure of partners from Norway)	*EUR XXX*
Total budget (including preparatory costs)	**EUR 500,000.00**

13. Project consultation

Please indicate if you wish to have a consultation (online meeting) with the MA/JS to discuss your project idea	
	yes ◉ no ◯

14. Questions to the MA/JS

Questions related to the content of the planned project	*(max.1.000 characters incl. spaces)*
Questions related to budgeting and expenditure	*(max.1.000 characters incl. spaces)*
Any other questions	*(max. 1.000 characters incl. spaces)*

15. Additional information

(max. 1.000 characters incl. spaces)

Your account in BAMOS+

Please remember that to officially submit your application you need to access our electronic data exchange system BAMOS+. More information about the process of applying for your account in BAMOS+ you will find here:
https://interreg-baltic.eu/gateway/bamos-account