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| **Related call: Targeted Call for Operations of Strategic Importance (OSI)** |
| **Project** **acronym & ID** | **ROHU00633 GCBR** |
| **Project title** | **Green Cross-Border Region** |
| **Priority** | P1 - Cooperation for a green and more resilient cross-border area between Romania and Hungary |
| **Specific objective** | RS02.2 - Promoting renewable energy in accordance with Renewable Energy Directive (EU) 2018/2001 , including the sustainability criteria set out therein |
| **Project duration** | 36 months (23.12.2024 - 22.12.2027) |
| **Objective** | The project's goal is to support utilization of sustainable renewable energy in the cross-border region, through mapping and utilizing local renewable energy sources and balancing fragmented electricity production and consumption in the region by enhancing the efficient use of locally produced green electricity through energy communities based on solar energy and storage. The second objective of the project is to influence the energy consumption behaviour of public institutions by rationalizing and optimizing their electricity requirements. |
| **Partnership** | **Lead Partner:** Szabolcs-Szatmár-Bereg County Regional Development and Environmental Management Agency Nonprofit Ltd (HU) |
| **Project Partner(s):** PP2: Satu Mare County Administrative-territorial Unit (RO) |
| **Total project budget** | 9.013.362,54 EUR out of which ERDF 7.210.690,02 EUR |
| **Summary** | Project **GCBR** aims to establish two energy communities, one in Satu Mare County and another in Szabolcs-Szatmár-Bereg County, and develop a joint operation for energy production and balancing across the border. An energy community harmonizes members' energy consumption and production through sharing. When a member produces excess electricity, the community helps distribute it to those who need more, ensuring effective use of locally produced green energy and reducing reliance on unsustainable external sources. The goal is to achieve a perfect balance between production and consumption among all partners. Knowing each member's capacity and consumption behaviour allows to model and improve this balance by deploying production and storage capacities. The establishment of the first cross-border energy community cooperation is based on the following:* shaping attitudes and recruiting energy community members by organizing cross-border forums, sharing good practices, and using personal persuasion to raise awareness and change the attitudes of institutions
* collecting and analysing data on electricity consumption and production, including schedules, quantities, storage, flexibility capacity and energy contracts, from each engaged community member to assess real potentials
* developing a software platform to manage the operation of the renewable energy systems. This IT solution should monitor and control the deployed tools, ensuring trustworthy non-profit accounting of the sharing based on real-time energy flow between partners.
* “The greenest energy is the energy not consumed” - the project will involve energy and electricity experts to measure every community member. To use resources efficiently, partners' conditions shall be evaluated and energy efficiency investments shall be suggested. A full energy efficiency refurbishment plan will be created within the project for one pilot building in Satu Mare County and one in Szabolcs-Szatmár-Bereg County
* Supplied and installed fully operational renewable energy systems in Szabolcs-Szatmár-Bereg County and Satu Mare County, tailored to local energy needs.
* Supplied and installed energy storage systems and EV in Szabolcs-Szatmár-Bereg County and in Satu Mare County
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| **Main outputs and results** | * **2 cooperating organisations**
* **100 participants in joint actions** (joint attitude shaping events organized for engaging stakeholders)
* **2 jointly developed strategies/action plans** (jointly developed strategy for the utilization of renewable energy in the cross-border target area and jointly developed action plan for pilot investment in the target area)
* **2 jointly developed solutions** (methodology and solution for the cross-border cooperation of energy communities in order to ensure mutual advantages in the field of utilization of renewable energy resources and jointly developed solution for the energy management of energy communities cooperating across border)
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