



Engineering and Implementation for Territorial Energy Transition

Renewable Energy Community of Valsesia





The Union of Mountain Municipalities of Valsesia (Piedmont, Italy) launched a regional initiative to promote Renewable Energy Communities (RECs) as a tool for sustainable development in mountain areas.

Supported by the European project SUPREMAS and linked to MUSE-DHC, the programme explores the integration of biomass, solar energy, and district heating to create circular, self-sufficient local energy systems.

Engreen, as technical partner and EPC lead, is responsible for transforming this regional strategy into concrete infrastructure, starting with three pilot RECs in Postua, Guardabosone, and the CER Valsesia.

The approach connects local biomass resources, public and private prosumers, and thermal networks in a replicable model of rural energy transition.

Challenges

- Fragmented energy infrastructure across multiple small municipalities
- Underutilised local biomass requiring sustainable and traceable supply chains
- Integration between electric and thermal networks within a single energy community model
- Need for participatory governance and long-term financial sustainability





Solution - Engreen's Role in the EPC

Through its EPC Unit, Engreen applies the Engreen 360 approach to guide the full lifecycle of implementation – from concept design to field execution.

Strategic coordination

- Defined the energy-community framework for the Valsesia municipalities under the SUPREMAS and MUSE-DHC programmes
- Coordinated with local authorities and regional stakeholders to align planning and funding streams

Engineering and implementation

- Designed hybrid systems combining biomass cogeneration and solar PV to supply both electricity and heat
- Developed feasibility models and implementation roadmaps for the three pilot communities

Operational integration

- Connected the EPC work to regional energy and forest management plans, ensuring full environmental compliance
- Supported the creation of local operational structures for maintenance, monitoring, and replication

Results

- Three Renewable Energy Communities launched in Postua, Guardabosone, and Valsesia
- Integration of biomass, solar, and district-heating systems for local energy independence
- Engreen-led co-creation workshops involving citizens, municipalities, and local industries
- Replication framework adopted by regional authorities for future communities across Piedmont
- Recognition of Engreen as a reliable EPC partner combining engineering precision with community engagement



Engreen - from vision to impact

At Engreen, every project begins with a vision – and becomes reality through a complete, integrated process.

Engreen 360 is our signature approach: a model that connects strategy, technology, and people to ensure that each step of the sustainability journey delivers measurable impact.

We manage the entire lifecycle of an energy project, combining strategic foresight with hands-on execution and long-term capacity building.

Our multidisciplinary team translates complex challenges into coherent, scalable solutions – guiding partners from early planning to full operational maturity.

Strategy – We assess needs, map opportunities, and define the most effective roadmap for sustainable growth.

Design – We turn ideas into detailed technical, financial, and environmental blueprints, tailored to local contexts.

Implementation – We build, supervise, and ensure quality through every phase, bridging design and reality.

Operation – We monitor, optimise, and maintain systems for reliability and performance over time.

Training – We empower local teams with the knowledge, tools, and confidence to operate autonomously.

This 360° approach allows Engreen to act as one integrated partner, capable of connecting innovation, engineering, and community value – ensuring that sustainability is not only designed but lived, maintained, and multiplied.

Partner with us to turn strategy into action

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