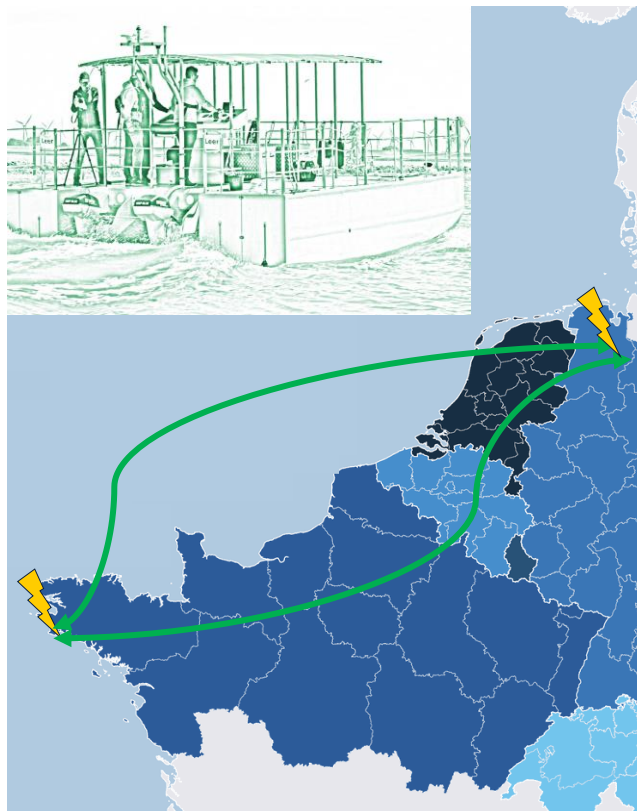




Priority 2: Energy transition

Energy efficiency (SO 2.1)



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E-Boating Brest to Bremen

Brest 2 Bremen 11

What challenge(s) is your project addressing in the NWE territories?

- CO₂-Emissions in harbours, on inland waterways and at sea must be reduced
- Transforming rather traditional business models.
- Establish an electric infrastructure network which does not exist - yet
- Enhancing sustainable tourism

What is the objective of your project?

- Integrated approach on e-boating
- Development of an electrified water sports area from Brest to Bremen – on the coastline and inland
- Create an at least 100 nautical miles long international E-Boating model project that functions

What impact/results is your project aiming for?

- Establish a dialogue between municipalities, law makers, harbours, tourism, environmental protection, powergrid operators, boat charterers etc.
- Create an example that E-Boating is sustainable and creates added value
- Common technical and legal standards

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

- Universities, public institutions, NGOs
- Port & marina operators, infrastructure providers, boat builders, travel agencies, cartographers
- France, Belgium, The Netherlands



Advancing SMEs Towards Net Zero through Comprehensive Energy Efficiency Integration

Priority 2: Energy transition

Energy efficiency (SO 2.1)

ECOBOOST 12

What challenge(s) is your project addressing in the NWE territories?

About 13% of the total energy demand in Europe comes from small and medium-sized enterprises (SMEs), accounting for 98.9% of European enterprises. The primary challenge for SMEs in NWE to enhance energy efficiency and decarbonisation involves balancing limited resources with the need for innovative, cost-effective sustainable solutions.

What is the objective of your project?

ECOBOOST aims to advance SMEs' transition towards Net Zero by fostering partnerships, shaping policies, enhancing financing, and leveraging technology, focusing on reducing CO₂ emissions, boosting renewable energy use, improving energy efficiency, fostering innovative business models, and creating networks and knowledge hubs for energy cooperation.

What impact/results is your project aiming for?

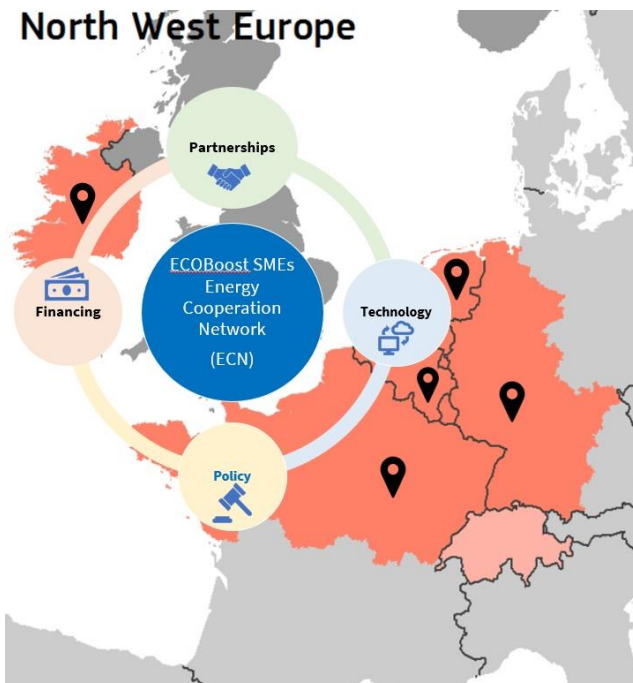
The ECOBOOST project impacts the energy efficiency and Net Zero transition of SMEs by driving market uptake, fostering innovative financial models, providing policy support, leveraging technology, and promoting job and economic growth, all built on a technology-agnostic, holistic approach that facilitates partnerships through the Energy Cooperation Network for comprehensive Net Zero strategy implementation in pilot countries.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

An association or energy agency working with SMEs in France or Luxembourg.

University partner that can build a hub platform and connect with social media platform.

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Efficacy scanning for sustainable energy solutions

Priority 2: Energy transition

Energy efficiency (SO 2.1)

EFFISCAN 13

What challenge(s) is your project addressing in the NWE territories?

Our project tackles the dual challenge of time-consuming energy audits (requiring independent mobilisation for each building in most cases) and unstructured approaches in NWE territories, where scattered building assets hinder rapid energy efficiency actions by public authorities.

What is the objective of your project?

Leveraging publicly available data, including metered data owned by asset managers, we aim to create a macro-level AI-generated energy audit model. This model will revolutionise the current approach by providing a structured and robust framework. By doing so, it promises not only to save time but also to offer a more accurate and comprehensive understanding of energy needs across portfolios of scattered building assets.

What impact/results is your project aiming for?

We aim to achieve quicker and more accurate energy audits, enabling precise recommendations and cost assessments. Through two diverse pilots, we will validate the model's efficiency in different climates and energy contexts. Simultaneously, our comprehensive engagement strategy seeks to enhance stakeholders' capacity, including public administrations and financial institutions.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

We are seeking partners across NWE territories, including public authorities with scattered building portfolios, technology experts, research institutions, and industry stakeholders. Collaborators should bring expertise in energy auditing, AI modelling, data management, and effective stakeholder engagement and communication. Country-specific insights and diverse perspectives are valued.



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Heritage Energy Retrofits: Implementing Technologies for Advancement and Green Efficiency in Europe

HERITAGE-EU 14

Priority 2: Energy transition

Energy efficiency (SO 2.1)



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What challenge(s) is your project addressing in the NWE territories?

- Outdoor thermal rehabilitation of traditional buildings (stone, earth, or wood) cannot be considered.
- This problem concerns 50% of pre-war buildings in NWE.
- Indoor insulation remains technically complex and faces several risks (moisture, condensation,...).
- Property owners' and professionals' lack of knowledge on internal insulation with sustainable and efficient materials

What is the objective of your project?

- Preserving heritage and enhancing energy efficiency and sustainability through pilot sites.
- Monitoring of energy use demonstrator buildings, both before and after retrofit, and establishing the benefit of different measures.
- Designing training schemes based on skill gaps in the field of energy retrofits of traditional buildings in NWE

What impact/results is your project aiming for?

- Have one or several solutions replicable for other buildings in the whole NWE territory.
- Build capacities of regional stakeholders working on the renovation of heritage buildings.
- Create experts' network of heritage for building renovation in NWE area.
- Increase the renovation rate in NWE in line with the EU directive on energy efficiency

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

- The Netherlands, Luxembourg, Germany
- Local, regional or national agencies for climate and building renovation
- SMEs and business support organisations for renovation and thermal insulation of buildings
- Sectoral associations, NGOs, lobby organisations



Priority 2: Energy transition

Energy efficiency (SO 2.1)

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Refurbishment and energy efficiency

Reenergy 15

What challenge(s) is your project addressing in the NWE territories?

- Pooling and developing new energy sources for construction on occupied sites
- Deployment of test sites in different geographical locations in Europe and for different types of buildings (uses)

What is the objective of your project?

- Develop a business model
- Implement demonstrator sites to test solutions
- Monitor energy efficiency data over time

What impact/results is your project aiming for?

Cost-optimised building renovation

Developing energy efficiency in buildings

Reduce the carbon impact of building renovation

Inclusion of individual well-being in innovation-based premises

Dissemination and appropriation of new technologies to territories

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

Universities specialising in renewable energy

Stakeholders with pilote site

Companies with innovative energy solutions

Others

Cycling in Rural Areas / Rouler En Vélo dans l'Espace Rural



Priority 2: Energy transition

Energy efficiency (SO 2.1)

REVER

16

What challenge(s) is your project addressing in the NWE territories?

Despite its benefits (reducing greenhouse gas emissions, improving health, etc.), cycling as a means of transport is still in its early stages in rural areas (lack of safety, few examples, etc.), when it has developed considerably in towns and cities. Cycling is an alternative to car use in a context of ecological transition.

What is the objective of your project?

The aim is to find ways of encourage more people to use bicycles as a means of transport in rural areas by acting on :

- psychological disincentives and motivations (research and identification),
- cycling education (practice, maintenance, repair, equipment),
- demonstration (experimentation, observation).

What impact/results is your project aiming for?

The aim is to increase the use of bicycles for :

- everyday journeys (commuting, home to school) including multimodal transport,
- encouraging young people to become more independent,
- encouraging older people to stay physically active,
- encouraging the use of adapted bicycles for outings in the countryside for people who are losing their independence.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

- Partners from Ireland, where topography, population density and settlement patterns are similar to those in the Manche region, and where soft mobility is being deployed
- Sociological or psychological research centres
- Senior residences / retirement homes
- Associations
- Rural and local authorities



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Priority 2: Energy transition

Renewable energy (SO 2.2)

Unravelling net congestion with large scale consumers

DE-CONGEST 17

What challenge(s) is your project addressing in the NWE territories?

Throughout North-West Europe net congestion is a barrier to the accelerated production and consumption of renewable energy. The limited capacity of existing electricity grids and their management, limits both the uptake of green energy and the further electrification of industry and logistics.

What is the objective of your project?

Large scale energy consumers together with the relevant regional authorities overcome the challenge of net congestion by adopting a different role in the electricity ecosystem.

What impact/results is your project aiming for?

Large scale consumers and authorities co-create, test, and implement tools for local and regional energy management and optimisation. They elaborate and implement joint strategies for increasing the (locally, decentral) produced renewable electricity in the energy mix for these large-scale consumers. Key principles for smart and just energy transition strengthen existing regional economic ecosystems and allow them to play a pro-active role in the energy transition.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

Large scale consumers and local/regional authorities affected by net-congestion.



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Priority 2: Energy transition

Renewable energy (SO 2.2)



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Pioneering Sustainable Energy Transitions

RenewEdge 18

What challenge(s) is your project addressing in the NWE territories?

The global shift to renewable energy embraces digitalisation for enhanced sustainability. Virtual Power Plants (VPPs) lead by predicting power and adapting control, optimising renewable sources. Cybersecurity safeguards critical infrastructure while user-friendly interfaces empower decision-making. Success hinges on global collaboration, integrating VPPs, power prediction, cybersecurity, and cooperation for a resilient energy ecosystem.

What is the objective of your project?

The project aims to advance renewable energy through various strategies. It focuses on enhancing Europe's expertise via research, utilising digital twin tech for better system design, advocating for supportive clean energy policies globally and in Europe, ensuring reliability via smart engineering, quality control, and promoting widespread global adoption of renewable energy. Together, these efforts aim to facilitate a clear and efficient transition towards a more sustainable future in energy.

What impact/results is your project aiming for?

The project integrates diversity in renewable energy policies, prioritising cybersecurity for robust grid integration in Europe. It emphasises Digital Twins for efficient management and aims to develop optimised models and practices for DSOs, TSOs, and energy suppliers. Targeting policymakers, investors, and academia, it seeks to validate and disseminate renewable energy technologies.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

European technical universities and research institutes hold expertise in renewable energy laws/policies and emerging sustainable technologies. SMEs in software development offer collaboration platforms, AI analytics, digital twin tech, energy management, storage, and energy trading expertise. Industrial partners are dedicated to adopting renewable energy solutions.