Joint activities with other projects and initiatives

D6.3

October 2024

ENERGATE
ENERGY EFFICIENCY MARKETPLACE

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Project Data	
Project Acronym	ENERGATE
Project Name	Energy Efficiency Aggregation Platform for Sustainable Investments
Grant Agreement Nr.	101076349
Project Coordinator	National Technical University of Athens
Project Duration	1 January 2023 – 30 December 2025
Website	https://www.energate-project.eu

Deliverable Data	
Deliverable No	D6.3
Dissemination Level	Sensitive
Work Package	WP6
Lead Beneficiary	REHVA
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Due Date	31 October 2024
Release Date	30 October 2024

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Published in October 2024 by ENERGATE.

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Acknowledgments:

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Executive Summary

This deliverable marks the first release of the report on joint activities with other projects and initiatives. It captures key information and highlights from collaborative efforts with sister projects and related initiatives conducted up to September 2024.

From the outset, the project established a robust framework of collaboration with various EU-funded initiatives, notably founding the Smart Energy Cluster. As ENERGATE is fundamentally rooted in stakeholder engagement, fostering connections with other consortia has been a strategic priority. These collaborations have been instrumental in broadening the project's network, promoting the project, and attracting stakeholders to the platform.

This deliverable gives an overview of ENERGATE's technical collaborations, showcasing joint research, development, and integration efforts. It also delves into collaborations focused on communication, dissemination, and the activities of the Smart Energy Cluster, highlighting ENERGATE's collective outreach and stakeholder engagement strategies.

1. Introduction

1.1 The ENERGATE project

Energy efficiency is fundamental for achieving a cost-effective transition towards a decarbonised energy system. However, the energy renovation rates of buildings remain low, creating an urgent need to boost the implementation of energy efficiency measures and mobilise investments. ENERGATE aims to address this need by creating an effective, ICT-enabled marketplace for energy efficiency investments in buildings. The ENERGATE marketplace is being implemented through a user-friendly platform that connects building owners, implementors of energy renovations and financial institutions to enhance project financing and accelerate renovation rates. The platform facilitates the collection of projects, including project-specific and technical information, the aggregation of similar projects, and their matchmaking with financiers.

1.2 Deliverable Objectives

The primary objective of this deliverable is to evaluate the joint activities and collaborations with other EU-funded projects undertaken by ENERGATE to date, providing a comprehensive overview of what has been accomplished up to September 2024. These joint activities are crucial to ENERGATE's mission, enabling the expansion of its network and supporting the platform's rollout. Engaging with different EU-funded projects and initiatives fosters knowledge exchange, facilitates research synergies, and enhances the impact of ENERGATE's work.

By assessing these efforts, the deliverable aims to identify gaps, determine which existing collaborations should be strengthened or expanded, and pinpoint new opportunities for partnerships that align with ENERGATE's strategic goals. This evaluation not only serves as a benchmark for past and current efforts but also guides the planning of future activities, ensuring that ENERGATE continues to effectively engage with key stakeholders and maximize its impact across the energy sector.

The report is structured into two main sections: the first explores technical collaborations, highlighting joint research, development, and integration efforts, while the second focuses on communication, dissemination activities, including the Smart Energy Cluster. These activities, highlight the importance of strategic partnerships in advancing ENERGATE's objectives and amplifying its reach across the energy sector.

2. Collaborations with EU funded projects and initiatives

This section details the collaborations achieved with other EU funded projects and initiatives, including synergies realised and collaborations at a technical level. The table below summarises all collaborations covered in this section.

Table 1. Collaborations achieved with other EU funded projects and initiatives

Project/Initiative	Description of collaboration
MATRYCS	Technical meetings took place (e.g. August 2023, September 2023, October 2023, November 2023) with partners involved in the MATRYCS project, to discuss technical aspects and best plan the integration of the services selected.
BIGG	A meeting was organised with the BIGG project in September 2023 to exchange knowledge and approaches on data harmonisation and other issues related to ICT – based services for energy efficiency in buildings. In addition, ENERGATE participated in a panel discussion that took place during the BIGG projects' final event in November 2023
DEEP	A meeting was organised with partners involved in the DEEP project in January 2024 to discuss the technical aspects of the two projects. Emphasis was given on how the DEEP platform could inform the ENERGATE platform for benchmarking and how ENERGATE could benefit from DEEP's de-risking services. The technical aspects of the collaboration, as well as the procedure that need to be followed, were discussed.
Triple-A	Bilateral meetings with individuals involved in the project to discuss the methodology of the project.
LAUNCH	Bilateral meetings with individuals involved in the project to discuss the methodology of the project.
MODERATE	A meeting was organised in April 2024 to discuss the technical aspects of a collaboration with MODERATE, including data-related workflows, de-risking services, benchmarking and monitoring processes, among others.
HSBooster platform	The HSBooster platform connects EU-funded projects with standardisation experts to guide their work. An expert was assigned in May 2024 to help ENERGATE develop the structure for standardisation and engage with the right bodies.
EN-TRACK	The EN-TRACK and ENERGATE projects co-organised a webinar on the 12th of March 2024 to promote sustainable financing and the implementation of energy renovations in buildings. The event provided a collaborative platform for energy experts and stakeholders to share insights, tools, and innovative solutions.
InEExS-FORTESIE	The event "From Tech to Transformation: Accelerating Building Energy Efficiency through ICT Solutions" took place online on the 16th of May 2024 within the framework of the Sustainable Energy Days. It focused on highlighting the importance of reducing the energy consumption of buildings, showcasing ICT tools and platforms for enhancing energy efficiency, and tackling challenges (e.g. data collection) while in parallel seizing opportunities to support the energy transition.

2.1 MATRYCS

About the project:

MATRYCS works for a holistic, state-of-the-art AI-powered framework for decision-support models, data analytics and visualisations in real-life applications. Building energy management will be elevated to a new level through improved data processing, analysis and aggregation.

Insights from the meetings:

MATRYCS and ENERGATE started collaborating from project start to discuss technical aspects and best plan the integration of the services selected into the ENERGATE platform. During the first 6 months of the project, the ENERGATE and MATRYCS technical teams of NTUA had frequent discussions, resulting in the initial identification of cooperation areas between ENERGATE and MATRYCS and the development of the cooperation agreement between the two projects. It was decided that the cooperation will be based on the integration of the MATRYCS GOVERNANCE, PROCESSING and ANALYTICS layers, in line with the Grant Agreement. To identify and understand the functionalities of the specific services to be exploited, three main technical meetings were organised.

During the meeting on August 2023 and September 2023, the ML/AI based notebooks developed in MATRYCS were described to ENERGATE partners. These notebooks enable the classification of EE investments based on the cost and achieved CO_2 abatement. This became part of the service S3.3 “Services to support national and EU policy impacts assessments”. The MATRYCS partners also shared material, including deliverables and publications, to help the ENERGATE team examine and identify additional specific services that could be integrated in the ENERGATE platform. In October 2023, the specific methodology and algorithms used within the ML/AI based notebooks of Service S3.3 were co-examined by ENERGATE and MATRYCS technical teams, to identify potential modifications that need to be implemented to re-use them in ENERGATE. The service S1.1 “Energy Predictions” and the algorithms used in it were also discussed, the user interface was demonstrated, and the ENERGATE team concluded that this service could be exploited in the platform’s “Deliver Stage”.

During the meeting in November 2023, the potential integration of the MATRYCS service S4.1 “Services to support energy savings M&V (measurement and verification) towards improved Energy Performance Contracts” in the ENERGATE platform was discussed. The service, which enables simulations and estimations of KPIs, was showcased to ENERGATE’s technical team. It was concluded that this service could be incorporated in the “Deliver Stage” of the platform, to enhance the M&V processes, while it might also be exploited in the “Process Stage” to support the decision-making processes for the Implementors.

Following these technical meetings, which were of vital importance to understand the three main MATRYCS services that ENERGATE aims to exploit, several bilateral communications took place with MATRYCS developers to request specifications and additional material, resulting in the successful integration of the authorisation/ authentication mechanism (MATRYCS GOVERNACE layer), the ML and AI features of S3.3, categorising the clusters of buildings in the ENERGATE platform in classes A, B or C and calculating the possibility of a cluster to be included in each of the three classes (MATRYCS PROCESSING layer), as well as the visualisation engine in the ENERGATE platform’s frontend (MATRYCS ANALYTICS). The communication will continue in the upcoming months to ensure the smooth and successful integration of all identified services.

2.2 BIGG

About the project:

Funded by the European Union, the BIGG project has been a pioneering initiative demonstrating the application of big data technologies and data analytic techniques across the complete life-cycle of over 4000 buildings in various large-scale pilot test-beds.

Insights from the meeting:

ENERGATE and BIGG actively engage in collaborative relations. First, a meeting was held in September 2023, focusing on data harmonization. ENERGATE services and Marketplace were thoroughly presented. Participants delved into the BIGG mapping tool and the services offered for Energy Performance Contracts. Given the significant similarities between MATRYCS and BIGG, the objective was to discern the distinct features of BIGG in comparison to MATRYCS. Subsequently, the ENERGATE technical team reviewed the material available, which offered useful insights on data harmonisation. It was observed that the BIGG services rely mainly on graph-like databases while the ENERGATE platform relies on a relational database. An attempt was made to compare and correlate the data used in the two projects. Examining the different approaches on data handling and ontologies was useful, so as to understand the potential interoperability requirements of ENERGATE with other platforms. These points were also discussed in the BIGG final event's panel discussion (details are provided below).



Figure 1. BIGG Final Conference

In addition, ENERGATE participated in the BIGG Final Event, titled "Data Aggregation and Harmonisation for a Sustainable Built Environment," which took place on November 24th, from 10:00 to 12:30 CET. This event marked the culmination of three years of groundbreaking work by the BIGG project, and served as an insightful conclusion to the project, showcasing its main outputs and achievements. ENERGATE partners actively contributed to the session Ontology and AI Toolbox", participating in the panel discussion with representatives from MODERATE and DigiBUILD projects. The event was a significant opportunity for ENERGATE to showcase its commitment to sustainable energy solutions.

2.3 DEEP Platform

About the initiative:

DEEP is an open-source database for energy efficiency investments performance monitoring and benchmarking. The vision is increased energy efficiency financing through improved understanding of the real risks and benefits of energy efficiency investments based on market evidence and investment track records.

Insights from the meeting:

The functionalities of the DEEP platform were demonstrated to determine if there are any potential areas of collaboration with the ENERGATE project. It was specified that the data of the buildings used in the DEEP platform can only be reused by other platforms as aggregated data, thus they cannot be utilised to train the machine learning models developed in the context of ENERGATE. However, they could be used for benchmarking, or for risk assessment purposes. The synergy between DEEP and Triple A projects was also analysed by ENERGATE partners to examine if a similar approach could be applied for a potential connection between DEEP and ENERGATE. The DEEP platform provides an API which facilitates the potential cooperation. Finally, the EEFIG underwriting toolkit, which is a report related to project de-risking, was also examined.

The EEFIG underwriting toolkit and the DEEP platform's approach to derisking were examined. Furthermore, the NTUA's technical team reviewed the technical aspects of the collaboration between Triple – A and DEEP through relevant deliverables, concluding that something similar could be done for ENERGATE, to enable benchmarking of KPIs of energy efficiency projects. The NTUA's technical team examined the specific aspects of the correlation between the ENERGATE and DEEP data models and is now working on developing the necessary queries to exploit the DEEP API.

2.4 Triple-A

About the project:

Triple-A had a practical result-oriented approach, seeking to identify investments that can be considered as Triple-A investments, fostering sustainable growth while also having an extremely strong capacity to meet commitments, already from the first stages of investments generation and preselection/pre-evaluation.

Insights from the meeting:

Although Triple-A has been completed, since NTUA was coordinating the project, bilateral meetings were held with individuals that contributed to the project to understand better the methodology used in the project for the assessment of the EE projects, while stakeholder consultation approaches were also discussed. The partners involved in Triple – A shared material (including deliverables, publications and stakeholder consultation surveys) to support the ENERGATE partners, and useful insights from the Triple – A project were also shared. The Triple – A approach on calculating the investment risk was further examined, and a risk assessment methodology for ENERGATE was developed (relying mainly on the Triple – A and LAUNCH methodologies). Specifically, the Triple – A project's approach included the calculation of a risk factor as a score, that took into account different risk aspects of projects. ENERGATE partners extended this methodology by combining the risk aspects identified in both LAUNCH and Triple – A and by developing a new risk assessment methodology that

classifies the projects as “low”, ”medium” and “high” risk based on a combination of multicriteria decision analysis techniques.

2.5 LAUNCH

About the project:

LAUNCH helped lay the groundwork for Sustainable Energy Assets (SEA) development through systems that train developers in real market conditions, standardising contracts with clients, and putting in place protocols allowing developers to assess risk.

Insights from the meeting:

Although LAUNCH has ended, since ESC was involved in the project, bilateral meetings were held with individuals that contributed to the project to understand better the methodology used in the project. The LAUNCH risk assessment protocol was examined, and a risk assessment methodology for ENERGATE was developed (relying mainly on the Triple – A and LAUNCH methodologies). Specifically, NTUA and ESC discussed the risk aspects that LAUNCH’s protocol included, identified the most important aspects and classified them. This work contributed to the development of ENERGATE’s risk assessment protocol, as described in Section 2.4.

2.6 MODERATE

About the project:

MODERATE aims to connect data providers with other building stakeholders by improving interoperability between datasets, by making use of data from different providers by developing services based on data analytics that can transform raw data into knowledge for end-users.

Insights from the meeting:

During the meeting, held in September 2023, ENERGATE engaged in an in-depth dialogue with the MODERATE project, primarily centred around potential collaboration opportunities. Participants explored different collaboration activities and events, such as the World Sustainable Energy Days and the participation in the REHVA Brussel Summit (13-14 November 2023). Recognizing the potential for collaboration, the aim was to consider submitting a joint application.

Another, more technical meeting was organised in April 2024, in which potential areas of collaboration were identified. The two projects have REHVA as a common partner. MODERATE works with several datasets, including time series as well as tabular data, and attempts to form open datasets by removing confidential information. The services associated with these datasets include benchmarking, impact estimation and monitoring of energy efficiency measures, photovoltaic potential of buildings, economic results and relevant hazards, among others. The services also build on MATRYCS services in regards to the geo-clustering tool and the energy conservation measures. During the meeting, the ENERGATE platform was presented, along with the focus of the platform in terms of types of buildings, the scale of energy efficiency projects and different types of financial stakeholders targeted. As a result, several potential collaboration points were identified, including enriching the datasets (e.g. metadata from the ENERGATE datasets to be sent to MODERATE), supporting decision-making in terms of energy efficiency measures that can be applied to a building, and assisting

the risk assessment. Having completed the first public version of the platform, ENERGATE partners will contact MODERATE partners again, having defined specific requirements to implement in the identified cooperation areas.

2.7 HSBooster platform

About the project:

HSbooster.eu is a 36-month EC initiative that aims to boost standardisation. The booster provides expert services to European projects to help them increase and valorise project results. It guides and supports beneficiaries and consortia of R&I projects to make sure they take the right strategic approach and contribute efficiently to the standardisation process as well as to make them active players in the development of standards in the corresponding area or domain.

Insights from the meetings:

An expert was assigned in May 2024 to help ENERGATE develop the structure for standardisation and engage with the right bodies. During the first call with the HSBooster expert (Lazaros Gkatzikis) in June 2024, ENERGATE was presented, and the project's standardisation needs were discussed. Afterwards, the HSBooster expert presented different standardisation options. The collaboration constituted of three meetings where the whole consortium was involved. The main 3 discussions for standardisation were: SRI standards group, EU Taxonomy and EPBD compliant. Finally, the consortium agreed to proceed with the integration of EU taxonomy in the platform as well as collaborate with other projects on the SRI.

2.8 EN-TRACK

About the project:

EN-TRACK aimed to develop an innovative platform that enables an interoperable ecosystem of data and tools to support an informed decision-making process for the energy renovation of buildings.

Insights from the webinar:

The sister projects, EN-TRACK and ENERGATE, led the development of innovative solutions aimed at enhancing building renovations. The project's jointly organised webinar titled "Innovative Pathways for Enhanced Building Renovations" was held online on March 12, from 15:00 to 16:00 CET, the event addressed the urgent need for energy efficiency renovations in the building sector. Attendance was free, though registration was required.



Figure 2. ENERGATE- EN TRACK webinar

The webinar provided a collaborative platform, bringing together experts and stakeholders from the energy efficiency sector to exchange insights, tools, and innovative approaches. Sustainable financing was promoted, as well as the implementation of energy-efficient measures for buildings worldwide. The recording of the event is available here.

2.9 InEExS & FORTESIE

About the projects:

The core concept of the LIFE project InEExS is the deployment of integrated energy services across sectors and carriers, and the tokenization of energy saving data in a public blockchain to facilitate cooperation among market segments and actors.

The overall vision of FORTESIE is to design, demonstrate, validate and replicate innovative renovation packages in the building industry with Smart Performance-Based guarantees and financing, aiming at Efficient, Sustainable and Inclusive Energy (ESIE) use to accelerate the Renovation Wave in Europe.

Insights from the event:

In a pioneering collaboration aimed at addressing the challenge of energy efficiency in buildings, ENERGATE launched a joint initiative with InEExS and FORTESIE. The event, titled "From Tech to Transformation: Accelerating Building Energy Efficiency through ICT Solutions" was co-organized by these leading projects and showcased a range of innovative services, business models, and digital tools designed to revolutionize sustainable building renovation across the EU.

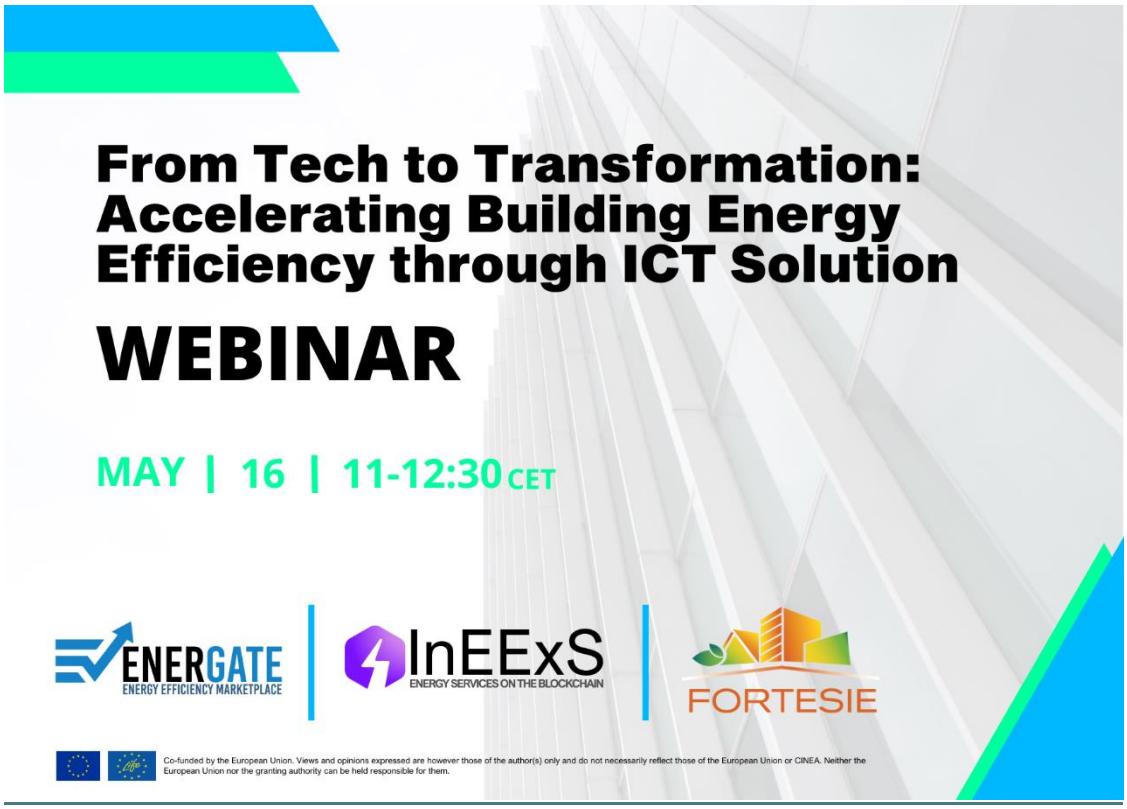


Figure 3. InEExS, FORTESIE and ENERGATE webinar

The event focused on three main areas:

1. **Energy Efficiency Initiatives:** The event highlighted the critical role of reducing energy consumption in buildings, aligning with the objectives of the three EU-funded projects. The projects highlight the importance of minimizing energy usage as a key strategy for achieving a sustainable and efficient energy future.
2. **Advancements in ICT for Energy Efficiency:** The digital revolution introduced numerous technological innovations that significantly promoted energy efficiency. The event showcased the latest ICT tools and platforms developed by the projects, demonstrating how these advancements could be leveraged to enhance energy efficiency in buildings.
3. **Addressing Challenges and Leveraging Opportunities:** The event explored various challenges faced by stakeholders, including data collection, legal issues related to blockchain, and integrating multiple platforms. It also identified numerous opportunities arising from the energy transition, such as reducing consumption and engaging stakeholders more effectively.

The ENERGATE project, at the forefront of this initiative, aimed to show how the gap between market actors and energy efficiency improvements in buildings can be bridged through an ICT-enabled marketplace. In particular, it presented how the platform can facilitate the collection of project-related information, business matchmaking, and project aggregation, while also supporting sustainable financing options for building renovations.

InEExS and FORTESIE, key partners in this collaboration, also made significant contributions. InEExS focused on how to integrate energy services across sectors using blockchain technology, enhancing cooperation and supporting the implementation of the Energy Efficiency Directive. Meanwhile, FORTESIE presented customised building renovation

packages optimized for energy performance, CO_2 reduction, and comfort, representing a major step forward in promoting sustainable practices within the building industry. An article is available at the ENERGATE website, along with the event recording.

3. Clustering Activities

This section details collaborations with other EU projects and initiatives that contribute significantly to the communication and dissemination of the project and its results, as well as networking boosters. The table below summarises all the activities covered in this section.

Table 2. Other activities with other EU funded projects and initiatives

Project/Initiative	Description of collaboration
Smart Energy Cluster	Two Smart Energy Cluster Collaboration workshops have been organised to discuss collaborations and best practices
AUDIT-TO-MEASURE, BUS-REGRoUP, REGIO1ST, JUSTEM, InEExS	NTUA organised two meetings with these projects to discuss scope and key activities to be implemented, so as to identify common goals and areas for collaboration. Recommendations for advisory board members were also made.
SmartSPIN	A meeting was organised with SmartSPIN to discuss planned activities and exchange knowledge. In addition, ENERGATE participated in the EU Projects Clustering online event: Smart Energy Services organised in April 2023 by SmartSPIN
I-NERGY, Fortesie, Metabuild	A meeting was organised with these projects in October 2023 to discuss the different approaches of the projects and identify best practices for building renovations, based on data from implemented energy efficiency interventions.
Building minds	A meeting was organised to share information about ongoing activities.
Mission Efficiency	The approaches of Mission Efficiency and ENERGATE marketplaces were discussed in February 2024 to help identify areas for improvement in the aggregation and matchmaking processes used in each project
SMAFIN	The 3rd SMAFIN National Roundtable Meeting took place in Greece in May 2023 and focused on smart financing solutions for energy efficiency projects.

3.1 The Smart Energy Cluster

About the projects:



The Smart Energy Cluster (https://smartenergycluster.eu/), initiated by the InEExS LIFE project and coordinated by NTUA and IEECP.
It is a collaborative effort of more than 20 EU projects focused on combining different energy services (such as energy efficiency, distributed generation and flexibility) and incorporating non-energy benefits, whilst overcoming market fragmentation and fostering cooperation among different services providers and market actors, as well as across segments. This inclusive approach bridges gaps and creates a common ground for business development across different segments. The projects that are members of the cluster can be found at: https://smartenergycluster.eu/our-cluster.

The main goals of the cluster are to:

- Communicate the projects' activities and success stories to groups interested in smart energy solutions.
- Amplify the impact of innovative service offerings, reduced energy costs for end-users.
- Achieve faster payback periods for sustainable energy investments.

The cluster especially engages all projects for common communication activities. Moreover, from a technical point of view, a file has been shared with the team to monitor the technical dissemination discussion with other EU funded projects. A more detailed overview of the cluster and all other synergies will be laid out in D6.5 (Joint activities with other projects and initiatives -V1).

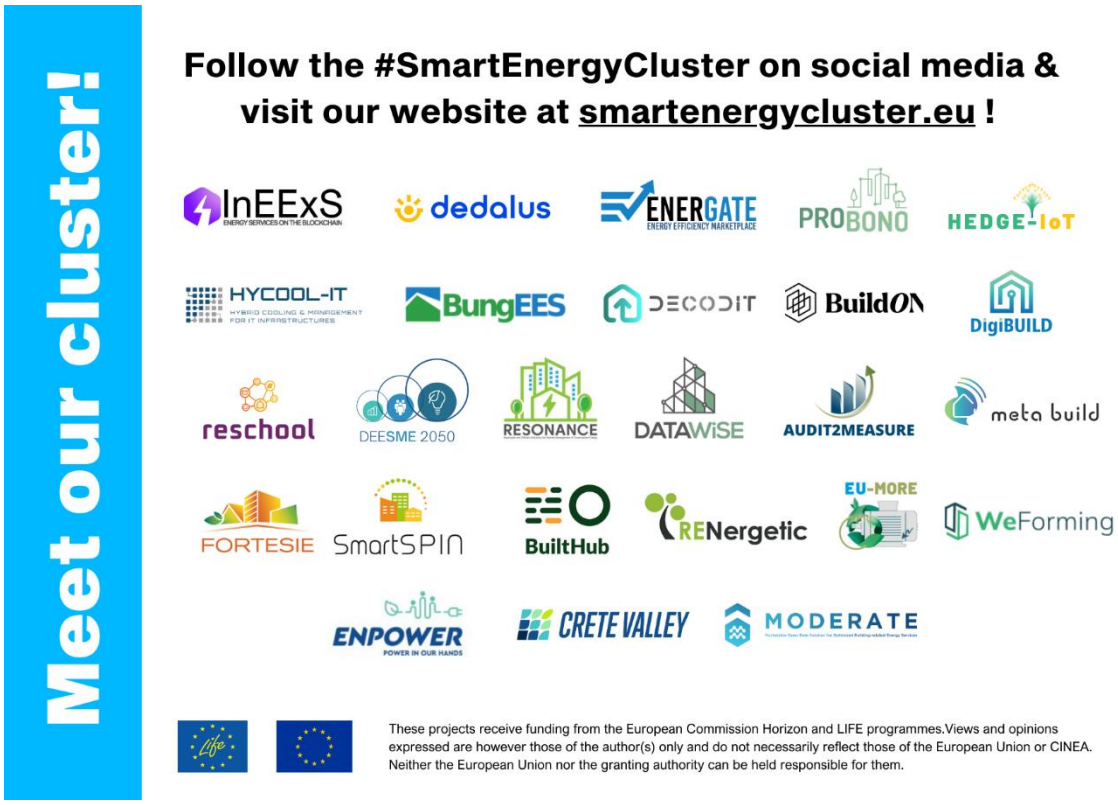


Figure 4. Smart Energy Cluster



Figure 5. Smart Energy Cluster visual identity

Social media campaigns:

- #SmartEnergyCluster
- #MeetourSmartEnergyCluster

The common topics covered by different projects were analysed, to more effectively establish collaborations.

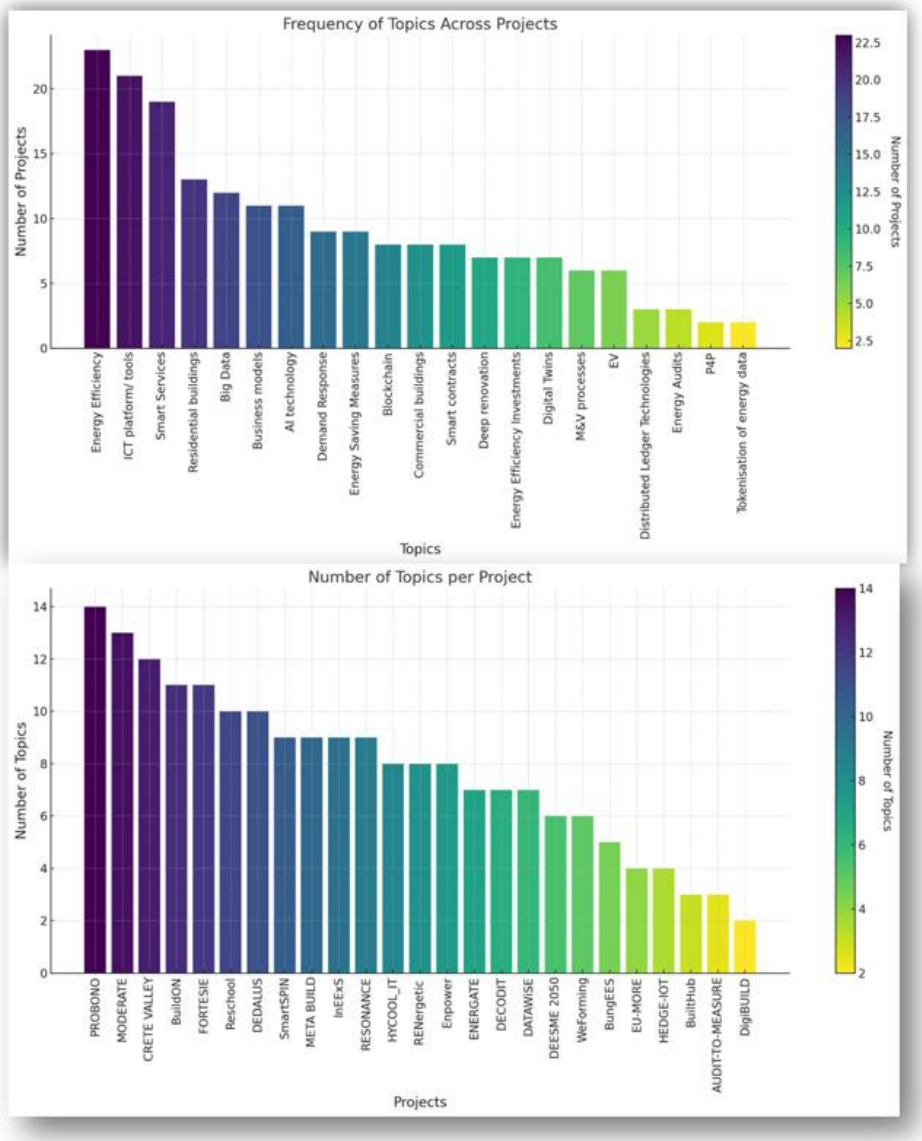


Figure 6. Cluster themes

Insights from the meeting:

ENERGATE has participated in two of the cluster's collaboration workshops in June 2023 and April 2024. During these workshops, the different projects participating were presented and discussions took place to identify collaboration opportunities and activities (e.g. the idea of having a new website about the cluster and its features, which has already been officially launched and can be accessed here: Smart Energy Cluster website). Besides the regular

cluster meetings, ENERGATE led bilateral discussions with relevant projects to explore specific cooperation opportunities. These clustering activities contributed to the broader dissemination of the ENERGATE project. For instance, ENERGATE was featured in 10 news pieces (e.g. the LIFE programme Newsletter issued in July 2023, the CINEA - Clean Energy Newsletter issued in 2023 and the SmartSPIN Newsletter issued in July 2023) and 136 social media posts through the Twitter and Linked in accounts of the SmartEnergyCluster.

3.2 Audit-To-Measure, Bus-Regroup, Regio1st, Justem, InEExS

About the projects:

The main aim of the AUDIT-TO-MEASURE (Leading businesses towards climate neutrality by speeding up the uptake of energy efficiency measures from the energy audits) project is to support companies in the uptake of audits necessary to reduce energy consumption.

BUS-REGRoUP aims at the revitalisation of the Greek National Qualifications Platform (NQP) created in the first phase of the BUILD UP Skills initiative (project BUS-GR), gathering all key national stakeholders.

Regio1st raises awareness about the Energy Efficiency First principle (EE1st) among regional governments and their agencies and supports them to make related decisions in their planning. It provides appropriate guidance to regional authorities to embed the EE1st principle into their decision-making and energy plan implementation.

The JUSTEM project starts at a critical time: although renewables could bring important cost savings and net social gains, some EU member states are calling for a smoother phase-out of coal to compensate for the shortage of fossil gas (and high energy prices).

Insights from the meetings:

During the initial meeting, in November 2023, all projects were presented, including their scope, participating partners, and their respective roles. Key activities to be implemented were discussed, along with important key performance indicators (KPIs), particularly concerning dissemination and communication efforts. Furthermore, participants exchanged perspectives and shared knowledge to identify potential areas for collaboration and opportunities for co-organizing events. Finally, proposals were made for Advisory Board members who could potentially contribute to the projects.

During the second meeting, the primary focus was the kick-off meetings of the projects that took place in the preceding days. Each project representative provided key highlights from their respective kick-off meetings. Procedural matters were also addressed, including how LIFE projects are promoted via partners' websites, the effective use of social media, the main dissemination and communication actions planned by each project, and the stakeholder engagement processes to be followed. Additionally, potential collaborative activities, such as joint social media efforts and event organization, were discussed.

3.3 SmartSPIN

About the project:

SmartSPIN is an innovative business model to unleash the energy efficiency and flexibility potential in commercial buildings. It integrates energy smart services with other non-energy services along with advanced technologies.

Insights from the meeting:

During the meeting, the two projects were presented, including their scope, participating partners, and respective roles, as well as the key activities to be implemented. Participants exchanged views and shared knowledge to identify common areas for collaboration and potential events for co-organization. Additionally, an invitation was extended to participate in the EU Projects Clustering online event, "Smart Energy Services," held on April 25 and May 17, 2023, organized by SmartSPIN.

3.4 I-NERGY, FORTESIE and Metabuild

About the projects:

I-NERGY aims at evolving, scaling up and demonstrating innovative AI-as-a-Service (AIaaS) Energy Analytics Applications and digital twin services that will be validated along 9 pilots.

The overall vision of FORTESIE is to design, demonstrate, validate and replicate innovative renovation packages in the building industry with Smart Performance-Based guarantees and financing, aiming at Efficient, Sustainable and Inclusive Energy (ESIE) use to accelerate the Renovation Wave in Europe.

META BUILD will adapt technologies already at Technology Readiness Levels (TRL) 5-6 to a higher TRL (6-8), integrating them to provide electrified solutions.

Insights from the meeting:

ENERGATE organised a meeting in October 2023 to discuss synergies. The different approaches followed by these projects to identify best practices of building renovation based on historical data were discussed, in order to avoid the replication of work and ensure reliability, accuracy and efficiency of the developed services. The participants of the meeting discussed about the data they intend to use within their services and mentioned the issues they are facing regarding data availability and format. It was highlighted that the data provided are not always ready to be used to train machine learning algorithms, due to missing values, insufficient quantity, or poor quality, which can limit the effectiveness of model training and require significant preprocessing or alternative methods.

3.5 BuildingMinds

About the project:

BuildingMinds helps customers safeguard the value of their real assets. Stakeholders all along the real estate value chain face challenges in controlling risk, regulatory hurdles and cost pressures.

Insights from the meeting:

During the meeting, Buildingminds shared details about ongoing activities, which included ESG reporting, carbon risk calculation, retrofit planning, portfolio performance, space management, and building experience. Buildingminds is aligned with the CREEM (Carbon Risk Real Estate Monitor) pathway and manage a portfolio of 20,000 buildings. Buildingminds handles data in various formats, such as XLS, CSV, invoices, real-time data from BEMS, and APIs, with occasional access to utility providers, offering valuable expertise in managing building data. They expressed interest in exploring the platform and participating in the stakeholder consultation process, finding the platform both attractive and promising. Buildingminds was also willing to participate in the various stages of the consultation process, beginning with the semi-structured interviews using surveys. The key takeaways from the Regional Trainings were shared with them.

3.6 Mission Efficiency

About the project:

Mission Efficiency is an innovative initiative designed to empower individuals to make energy-efficient choices and drive grassroots change. The campaign understands the power of language and emotions. While traditional climate messaging often relies on fear-inducing terms that can lead to inaction, this initiative focuses on the benefits and positive emotions of an Energy Efficient Life.

Insights from the meeting:

The approaches of Mission Efficiency and ENERGATE marketplaces were discussed to identify potential collaboration opportunities. The Mission Efficiency marketplace currently covers pilots in Ghana and Kenya and is expanding to India. It facilitates personal matchmaking between projects and financiers, using specific templates to gather input. Aggregation and matchmaking are commonalities between Mission Efficiency and ENERGATE, and it was agreed to share the information entries from ENERGATE and the templates from Mission Efficiency, compare them, and explore potential improvements. An overarching observation was that the ENERGATE platform adopts an approach that aligns with market needs, and its functionalities could complement the Mission Efficiency platform's approach. Both platforms could also benefit from organizing a joint event.

Mission Efficiency extended an invitation to ENERGATE to participate in the Sustainable Energy for All Global Forum, scheduled for September 3-4, 2024, in Bridgetown, Barbados, and shared details about the 9th Annual Global Conference on Energy Efficiency, on May 21-23, 2024, in Nairobi, Kenya.

Additionally, it was discussed the idea of preparing an article to promote the collaboration between the two initiatives, which was posted on both websites. The article will focus on the COP targets to triple investment and double energy efficiency, highlighting how both marketplaces will work together to support these goals and facilitate the process. Material was exchanged between both sides to better understand each other's approaches, and Mission Efficiency assisted in disseminating the survey and provided feedback on the different use cases of the ENERGATE platform.

3.7 SMAFIN

About the project:

The SMAFIN project aimed to constructively connect smart financing with energy efficiency projects involving stakeholders from government, financial, enterprise, and academic sectors. SMAFIN's concept was based on establishing permanent discussion forums on energy efficiency investments in buildings, infrastructure, industry, and SMEs to promote cross-fertilization between key stakeholders. In particular, it introduced Thematic Working Groups that deeply discussed a specific policy measure, a financial model or a national programme to present joint market or policy documents. It also launched Cross-Country Labs that played a pivotal role in knowledge exchange on financing for energy efficiency, while integrating European practices across EU member states and beyond.

Insights from the roundtable:



Figure 7: The 3rd SMAFIN national roundtable in Greece

ENERGATE participated in the 3rd Greek SMAFIN Roundtable, held in Athens on May 3, 2023. The event focused on supporting smart financing solutions for energy efficiency in Greece. ENERGATE partners took part in the roundtable discussion on "Financing energy efficiency in residential buildings – One Stop Shop (OSS) and gained insights from the SMAFIN project. Partners also had the opportunity to engage with relevant Greek stakeholders, including INZEB, CRES, the banking sector, and the Ministry of the Environment and Energy, on how the ENERGATE platform could be integrated into an OSS.

4. Conclusions and Next Steps

The ENERGATE project has fostered extensive collaboration across both technical and communication domains, significantly contributing to its mission of accelerating energy-efficient building renovations. The project has successfully engaged with multiple EU-funded initiatives, creating synergies that have enhanced the platform's development and dissemination efforts.

On the technical front, the joint research and integration efforts with these projects have not only strengthened ENERGATE's capabilities but also laid a foundation for further advancements in energy efficiency and ICT-enabled solutions. In the area of communication and dissemination, ENERGATE has made strides in expanding its outreach Collaborations such as those with the Smart Energy Cluster demonstrate the project's strategic approach to building a network of innovation and expertise.

Notably, the project is set to participate in ENLIT conference and co-organize a workshop with eight other projects from the Smart Energy Cluster in October 2024, further increasing visibility and impact. Additionally, coordination with MODERATE to participate in CLIMA congress signifies our commitment to continuous engagement in relevant industry events and the dissemination of key findings.

When it comes to collaborations on technical aspects, that will ensure that the ENERGATE platform is a robust tool offering a holistic solution for energy efficiency investments in buildings, several EU projects will be examined. Specifically, the cooperation between ENERGATE and MATRYCS will continue to be implemented, through the integration of the MATRYCS services that have been identified. The cooperation will also be enhanced through the collaboration with projects for which MATRYCS has been a starting point, including MODERATE and Digibuild. Furthermore, the collaboration with the DEEP platform will be implemented, to enable benchmarking of specific KPIs within the ENERGATE platform. Cooperations will also be explored with other projects that focus on topics related to energy efficiency in buildings.

These collaborations highlight the importance of cross-sector partnerships in advancing the decarbonization of the energy system, particularly in promoting energy efficiency as a cost-effective means to achieving a sustainable future. Looking ahead, ENERGATE remains dedicated to strengthening existing partnerships and exploring new opportunities for collaboration, ensuring that its platform continues to evolve and address the pressing needs of the energy renovation sector.

OUR TEAM

Project Coordinator

EPU N·T·U·A

REHVA Federation of European Heating, Ventilation and Air Conditioning Associations

enerbrain For an intelligent use of energy

EnerSaveCapital

IEECP Institute for European Energy and Climate Policy

GREENESCO Energy Services

ΔΕΗ Ανανεώσιμες attica Finance

SUSTAINABLE CITY City Network

flexiwatt

Global Green Growth Institute

Riga Planning Region

LDK Consultants

commuty

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