



Joint activities with other projects and initiatives- Final version

D6.5

December 2025



Co-funded by the European Union under project ID 101076349. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

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	D6.5
Dissemination Level	Public
Work Package	WP6
Lead Beneficiary	REHVA
Author(s)	Sofia Bazzano (REHVA), Vasilis Kotrogiannis; Andriana Stavarakaki; Katerina Papapostolou; Ioanna Andreoulaki (NTUA)
Reviewers	Miklos Szekely (GGGI), Eleni Stigka (Greenesco)
Due Date	31 December 2025
Release Date	15 December 2025

Legal Notice

The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither CINEA nor the European Commission is responsible for any use that may be made of the information contained therein.

Published in December 2025 by ENERGATE.

©ENERGATE, 2025. Reproduction is authorised provided the source is acknowledged.

Acknowledgments:



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.

Table of Contents

1. Introduction.....	1
1.1 The ENERGate project	1
1.2 Deliverable Objectives	1
2. Collaborations with EU funded projects and initiatives.....	2
2.1 MATRYCS.....	4
2.2 BIGG	5
2.3 DEEP Platform	6
2.4 Triple-A.....	7
2.5 LAUNCH	8
2.6 MODERATE	9
2.7 EN-TRACK.....	10
2.8 DigiBUILD.....	11
2.9 ENERSHARE	11
2.10 ReLIFE	13
2.11 SRI ENACT	14
3. Standardisation activities.....	16
3.1 HSBooster platform.....	16
3.2 EU Taxonomy & Standardisation closed workshop.....	18
4. Clustering Activities.....	20
4.1 The Smart Energy Cluster.....	20
4.2 Clustering Activities with other EU-Funded Projects and initiatives	36
5. Conclusions	40

List of Figures

Figure 1: MATRYCS ML/AI notebooks classification results visualised in the Financier dashboard.....	5
Figure 2: Benchmarking in the Implementor's offer: integration from the DEEP database.....	7
Figure 3: Risk Assessment Protocol.....	8
Figure 4: Energy consumption monitoring and forecasting based on cooperation with MODERATE	10
Figure 5: IEQ and comfort insights integrating s3.1.1 from DigiBUILD.	11
Figure 6: ENERGATE platform's "Savings Estimator"	13
Figure 7: Financial Insights using data from ENERGATE and the ReLIFE ARV service.....	14
Figure 8: Standardisation workshop banner	19
Figure 9. Smart Energy Cluster	21
Figure 10. Smart Energy Cluster Website	22
Figure 11. Smart Energy Cluster themes	23
Figure 12: Snapshots from ENERGATE participation at IISA Workshop 2025	24
Figure 13 MODERATE & ENERGATE Workshop at CLIMA2025.....	26
Figure 14: SEFA and SRI-ENACT Meeting, organised by Riga Planning Region.....	27
Figure 15: ENERGATE at Verde.tec International Exhibition in Athens, February 2025	28
Figure 16: ENERGATE Factsheet from Verde.tec International Exhibition in Athens	28
Figure 17. BIGG Final Conference	29
Figure 18: ENERGATE at Enlit Europe 2024	30
Figure 19: Snapshots from ENERGATE participation at IISA Workshop 2024	31
Figure 20. InEEExS, FORTESIE and ENERGATE webinar.....	32
Figure 21. Snapshots from ENERGATE participation at IISA Workshop 2023	33
Figure 22. Snapshots from Smart Energy Cluster events (1/2).....	35
Figure 23. Snapshots from Smart Energy Cluster events (2/2).....	35
Figure 24: ENERGATE at EEMI 2025	37
Figure 25: SEFA's webinar at Sustainable Energy Days	38
Figure 26. ENERGATE- EN TRACK webinar	39

List of Tables

Table 1. Collaborations achieved with other EU funded projects and initiatives	2
--	---

Executive Summary

This deliverable provides a comprehensive overview of the ENERGATE project's collaborative, standardisation, and clustering activities during the reporting period. It outlines how ENERGATE positions itself within the broader European innovation ecosystem, leveraging synergies with EU-funded projects, platforms, and initiatives to maximise the impact and uptake of its outcomes.

The document first introduces the ENERGATE project's objectives, highlighting its role in advancing data-driven energy efficiency solutions, strengthening digital infrastructures, and supporting the EU's decarbonisation goals. It then details ENERGATE's strategic collaborations with key European initiatives—such as MATRYCS, BIGG, DEEP, MODERATE, ENERSHARE, DigiBUILD, and others—that collectively contribute to advancing data governance, analytics, interoperability, and investment decision-making within the built environment and energy sectors. These collaborations demonstrate ENERGATE's commitment to knowledge exchange, methodological alignment, and exploitation of shared research outputs.

Further, the deliverable outlines ENERGATE's active engagement in standardisation activities, particularly through the HSBooster platform and a dedicated workshop on the EU Taxonomy and standardisation landscape. These efforts support the project's goals to ensure compliance with emerging regulatory frameworks and contribute to shaping standards that enable trustworthy data exchange, digital interoperability, and sustainable finance.

Finally, the report presents the extensive activities of the Smart Energy Cluster and its coordination with other EU-funded clusters. ENERGATE's leadership and participation in these collaborative environments reinforce the project's ambition to create a long-lasting community of practice, promote the alignment of technical solutions, and accelerate market adoption of innovative digital energy services.

Overall, this deliverable captures ENERGATE's progress in fostering cooperation, promoting standards, and consolidating a strong network of European stakeholders working together to enable a fair, green, and data-driven energy transition.

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 report, which is the 2nd version of the deliverable “Joint Activities with Other Projects and Initiatives”¹ 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 from October 2024 until December 2025. 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.

As this is the second version of the deliverable, the report builds on the foundations laid in the initial edition by providing updated and expanded insights into ENERGATE’s joint activities. It captures how collaborations have evolved over time, presenting new developments, additional interactions with EU-funded initiatives, and progress achieved since the previous reporting period. Beyond merely documenting activities, this updated version reflects the dynamic nature of ENERGATE’s partnerships, highlighting strengthened relationships, newly established synergies, and emerging opportunities that have surfaced as the project advances. In doing so, it offers a more complete and mature picture of ENERGATE’s collaborative landscape, demonstrating how joint efforts have grown in scope, depth, and strategic relevance.

The report is structured into three main sections: the first explores technical collaborations, highlighting joint research, development, and integration efforts, the second focuses on the standardisation activities, while the third focuses on stakeholder engagement, communication, and 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.

¹https://energate-project.eu/sites/default/files/results/ENERGATE_D6.3-Joint%20Activities%20with%20Other%20Projects%20and%20Initiatives-v1_v1.00.pdf

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 (since August 2023 and up until July 2024) with partners involved in the MATRYCS project, to discuss technical aspects and best plan the integration of the services selected. This led to the successful integration of several MATRYCS services, including the authentication/ authorisation mechanism for data protection, privacy preservation and access control, S1.1 “Energy Predictions” to monitor and forecast the energy performance of buildings, S3.3 “Services to support national and EU policy impact assessments” to provide evaluations of the potential of specific investments, and the “Visualisation and reports Engine” to present results in a clear, user – friendly and easy-to-understand format. The cooperation with ENERGATE has also been reinforced through collaborations with other more recent EU projects that build on MATRYCS, such as DigiBUILD and Moderate (as described below).
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	Meetings were organised with partners involved in the DEEP initiative from January 2024 until November 2024 to discuss the technical aspects of the two projects. This led to a collaboration enabling evidence-based benchmarking of financial indicators, that helps Implementors cross check their values so as to ensure that the metrics they present to the Financiers are realistic and as accurate as possible.
Triple-A	Bilateral meetings with individuals involved in the project to discuss the methodology of the project, which inspired the decision support processes included in the platform for the different users, particularly regarding risk assessment.
LAUNCH	Bilateral meetings with individuals involved in the project to discuss the methodology of the project. These contributed to the definition of an optional risk assessment protocol.

MODERATE	Meetings were organised between April 2024 and March 2025 to discuss the technical aspects of a collaboration with MODERATE, including data-related workflows, de-risking services, benchmarking and monitoring processes, among others. This led to the integration of a computational engine in the ENERGATE platform, for evaluating and visualising the energy performance of buildings before and after renovation.
EN-TRACK	Representatives from the two projects had bilateral meetings to exchange information on the challenges they face and the approaches they follow to handle data of already implemented energy efficiency projects and to enable benchmarking of key indicators.
DigiBUILD	DigiBUILD has built on services that were initially developed in MATRYCS, and therefore the cooperation between MATRYCS and ENERGATE was extended through the collaboration between DigiBUILD and ENERGATE. Specifically, DigiBUILD services were exploited to monitor the performance of installed systems after the completion of the energy efficiency projects and to provide insights on thermal comfort.
ENERSHARE	Meetings were held between technical teams of ENERSHARE and ENERGATE because the two projects had developed a similar service, aiming to support decision making regarding the energy efficiency measures to be applied to the building, using data from previously implemented projects and AI/ ML algorithms. ENERGATE has updated and expanded this decision support service based on the input provided by ENERSHARE.
RELIFE	In the framework of the RELIFE project, a model was developed to estimate the buildings' market value post renovation based on the improvement of the EPC. This service was also incorporated in the ENERGATE platform, as the impact of the EE project on the market value is an important co-benefit that needs to be monitored after the project's completion.
SRI-ENACT	A collaboration with the SRI-ENACT project was implemented, to enable the redirection of the users of the ENERGATE platform to the SRI evaluation tool, which includes the definition of the building's technical systems, the selection of smart functionalities, and the automated calculation of the final SRI score.
HSBooster platform	The HSBooster platform connects EU-funded projects with standardisation experts to guide their work. An expert was assigned in May 2024 and meetings took place to help ENERGATE develop the structure for standardisation and engage with the right bodies.

2.1 MATRYCS

About the project:

MATRYCS has worked for a holistic, state-of-the-art AI-powered framework for decision-support models, data analytics and visualisations in real-life applications. The aim of the project was to elevate building energy management 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.

As a first step, the ML/AI based notebooks developed in MATRYCS were described to ENERGATE partners. These notebooks enable the classification of energy efficiency investments based on the cost and achieved CO₂ abatement. This was part of the service S3.3 “Services to support national and EU policy impacts assessments”. 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 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. As a result, 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”.

Subsequently, 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. Given the fact that MATRYCS was already completed at the time, and since several services developed in the context of the project have been exploited and have evolved in other projects, it was decided that the integration of the functionalities of S1.1 and also S4.1, would be implemented through a collaboration with DigiBUILD and MODERATE, respectively.

Following these technical meetings, which were of vital importance to understand the 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 GOVERNANCE 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, the predictive algorithms of S1.1 which were also evolved in the context of the DigiBUILD project, (MATRYCS PROCESSING layer), as well as the visualisation engine in the ENERGATE platform's frontend (MATRYCS ANALYTICS).

An article has been published based on this cooperation, available [here](#).

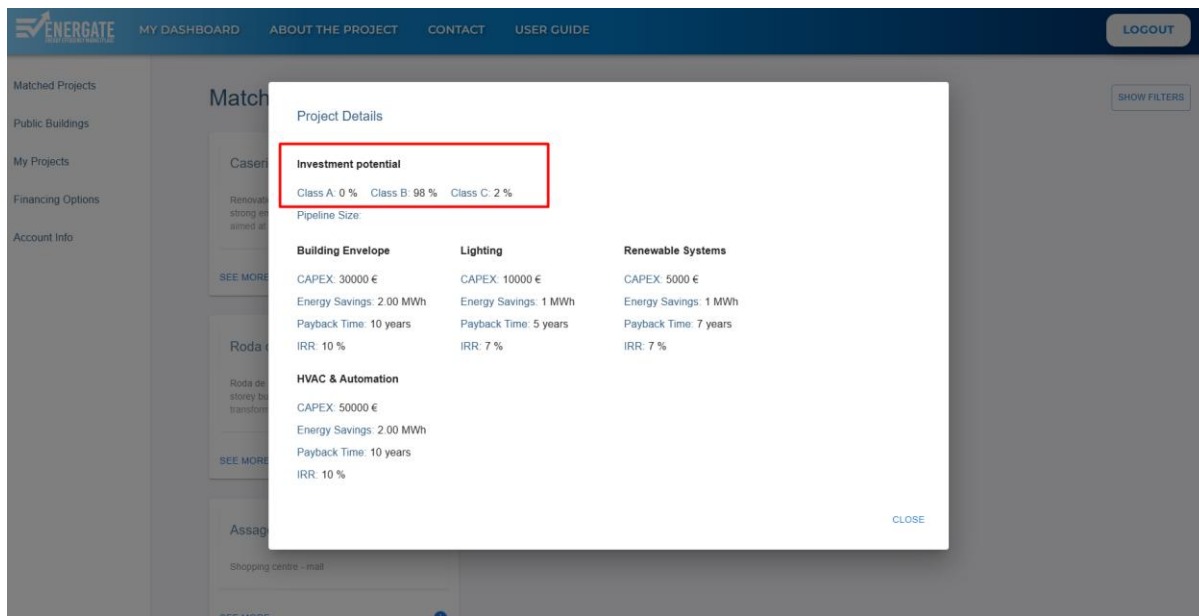


Figure 1: MATRYCS ML/AI notebooks classification results visualised in the Financier dashboard.

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 engaged in collaborative relations. During the meetings, participants delved into data harmonisation, 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.

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 meetings:

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 the Triple-A project 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.

This work resulted in the cooperation between the two platforms. Specifically, a benchmarking service has been incorporated in ENERGATE, which uses DEEP's derisking services and data in order to demonstrate benchmarks and graphs of financial indicators, such as NPV, IRR, payback time, and avoidance cost in the Implementor's offers. Since these values need to be specified based on the Implementor's input to facilitate the evaluation of the project by the Financiers so that they can decide if they want to invest in that project or not, benchmarking is very useful so that the Implementors can cross check their calculations and know in advance if the project is an attractive investment opportunity.

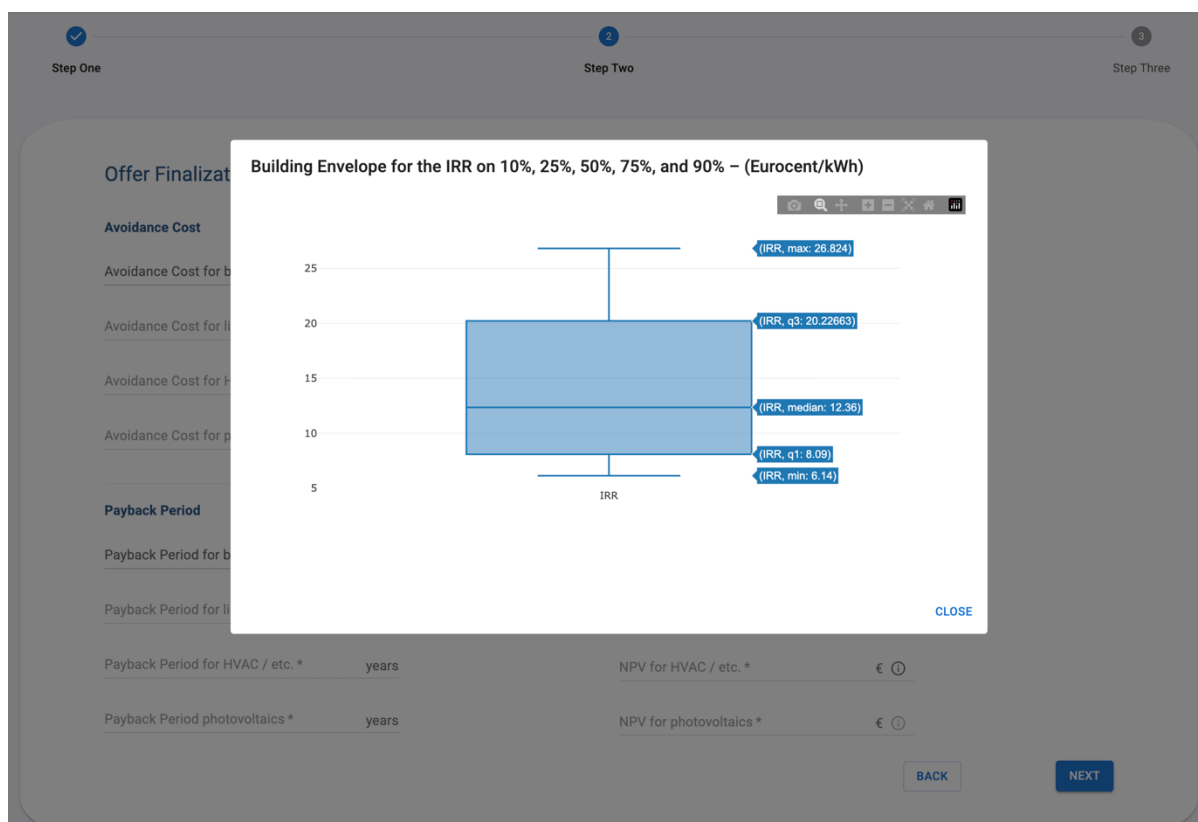


Figure 2: Benchmarking in the Implementor's offer: integration from the DEEP database

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 energy efficiency projects, while stakeholder consultation approaches were also discussed, since the network that was established within Triple-A could be re-contacted and involved in ENERGate. 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.

Risk Assessment

Internal Risks

Credit Risk ⓘ

Extremely Low ————— Extremely High

Technical Risk ⓘ

Extremely Low ————— Extremely High

Performance Risk ⓘ

Extremely Low ————— Extremely High

External Risks

Regulatory Risk ⓘ

Extremely Low ————— Extremely High

Market Risk ⓘ

Extremely Low ————— Extremely High

Volatility of Energy Prices ⓘ

Extremely Low ————— Extremely High

Risk Assessment Results

The project is classified as: **MEDIUM**

BACK

SAVE

Figure 3: Risk Assessment Protocol

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 ENERGATE partner, EnerSave capital, 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 EnerSave 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 the previous sub-section.

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 meetings:

During the first meetings 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 participation in the REHVA Brussel Summit (13-14 November 2023) and CLIMA 2025 (4-6 June 2025). Recognising the potential for collaboration, the aim was to consider submitting a joint application.

Potential areas of collaboration were identified considering more technical aspects as well. 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 regard to the geo-clustering tool and the energy conservation measures. During the meetings, 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 and MODERATE partners later defined specific requirements for the collaboration. The ENERGATE platform integrates a core computational engine based on the MODERATE project for evaluating the energy performance of buildings before and after renovation, in the platform's "Deliver Stage". Instead of relying solely on heavy simulation tools or external services, ENERGATE embeds this functionality to allow it to perform fast energy calculations to provide a baseline and after-renovation energy profile of the building.

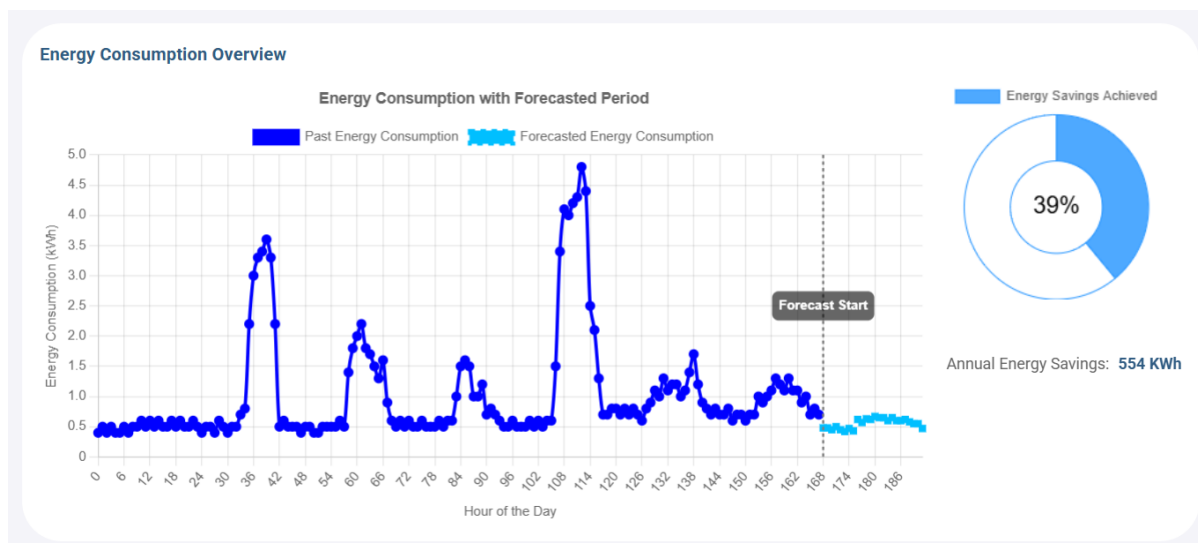


Figure 4: Energy consumption monitoring and forecasting based on cooperation with MODERATE

2.7 EN-TRACK

About the project:

The [EN-TRACK](#) platform enhances the integration and analysis of diverse data sets, making them compatible with other major databases and tools. This will lead to clearer, quicker, and more transparent decision-making, thereby de-risking investments in the energy efficiency of buildings.

Insights from the meeting:

ENERGATE and EN-TRACK partners discussed ideas for potential synergies between the two projects. Specifically, it was discussed that perhaps building owners providing data to the EN-TRACK platform could be redirected to ENERGATE in order to provide information about other buildings that they own or manage and could be renovated (currently the data provided in the EN-TRACK platform are from buildings that have already been upgraded). Challenges regarding data collection, handling and sharing were discussed, highlighting issues related to sharing non – aggregated data when they have been provided by third parties and the needs to get permission to share data, even anonymised, which on one hand ensures data privacy but on the other hand restricts the exploitation capabilities. The different challenges between the private and public building sector in terms of data management were also mentioned. Another area of synergy that was discussed is the use of the data of EN-TRACK for benchmarking indicators in ENERGATE, however eventually it was decided to implement this through the synergy with the DEEP platform (details in Section 2.3). The ENERGATE team also shared their approach to estimate the impact of energy efficiency projects based on data from previous projects. They provided specifications about their process for data analysis and the algorithms they have tested and implemented.

2.8 DigiBUILD

About the project:

DigiBUILD works on creating digital enablers to transform current ‘silo’ buildings into digital, interoperable and smarter ones, based on consistent and reliable data, towards the generation of an energy efficient building data space.

Insights from the meetings:

ENERGATE and DigiBUILD representatives discussed service s3.1.1: “Performance monitoring and benchmarking”, which focuses on monitoring the performance of installed air-conditioning (AC) systems and supporting investment decisions about replacing inefficient equipment with higher energy class devices.

More specifically, this service combines real-time electricity consumption measurements from smart meters or sensors installed on AC supply lines with indoor and outdoor temperature data. Using these data streams, it provides an algorithm for calculating the heating and cooling operating hours for each room or zone, taking into account occupancy patterns and user behaviour, as well as the annual energy use for heating and cooling, calculated directly by the measured consumption. It also includes additional functionalities, such as the calculation of additional energy and monetary savings, while assisting users with enhancing their comfort levels. ENERGATE has leveraged the s3.1.1 ML-models and algorithms to provide comfort-centred insights and analytics for the end-users in the Deliver Stage.

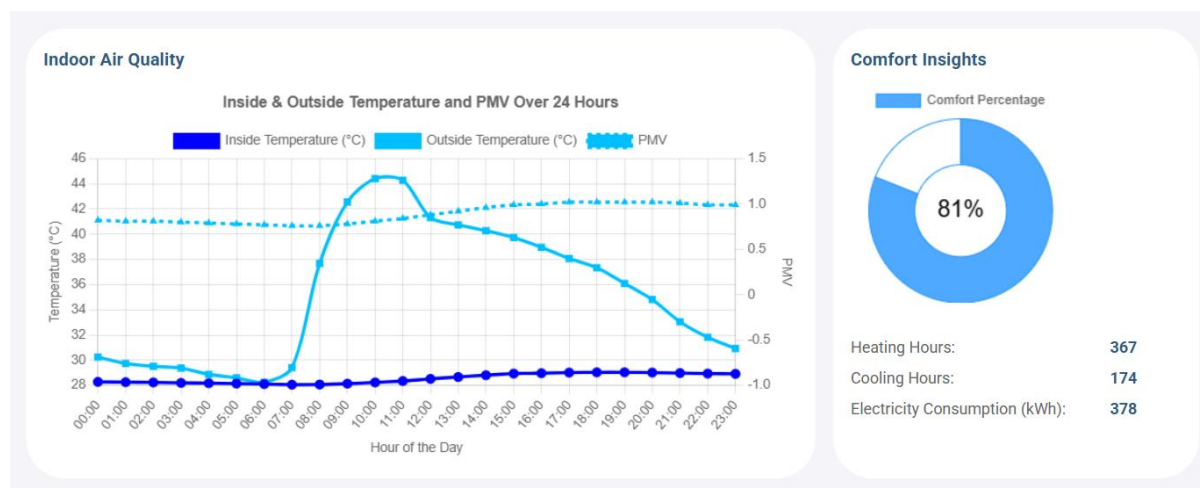


Figure 5: IEQ and comfort insights integrating s3.1.1 from DigiBUILD.

2.9 ENERSHARE

About the project:

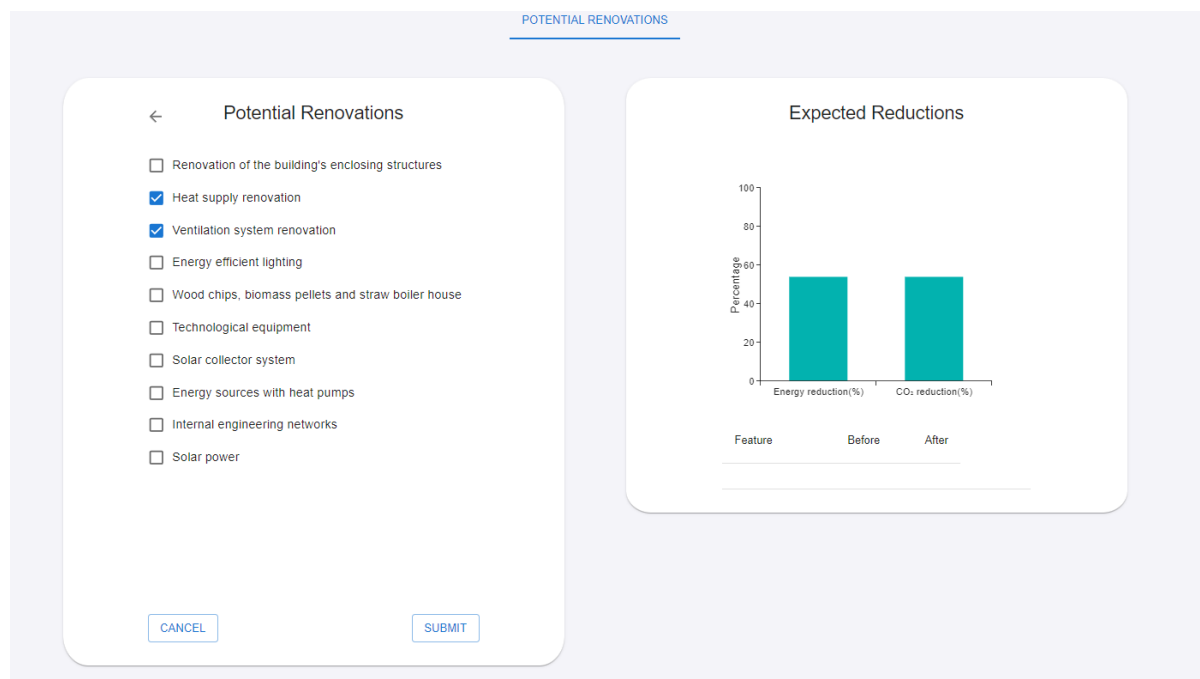
Enershare defines a Data-Driven Reference Architecture for the energy domain, which is compliant with FIWARE, IDSA and GAIA-X. It creates a marketplace based on Blockchain and Smart Contracts with the aim of improving mutual trust amongst the actors of the ecosystem

and increasing the security of the shared data. It also enables a compensation system (even non-monetary) of assets and resources related to data (e.g., datasets, algorithms, models) with energy assets and services (e.g., maintenance of heating system, surplus transfer of locally self-produced energy).

Insights from the meetings:

ENERGATE and ENERSHARE have implemented a similar service aiming to support decision making regarding the energy efficiency measures to be applied to the building, using data from previously implemented projects and AI/ ML algorithms. On one hand, ENERGATE used the data to estimate the impact of the projects in terms of energy savings and emission savings, and also to detect the most similar projects from the database. Of those projects, the energy efficiency measures applied, achieved impact and costs are shown. On the other hand, ENERSHARE uses such data to provide recommendations with regards to which measures should be implemented in order to change the EPC from one level to another. The partners also discussed about the research they have done in order to find open access data, especially for specific pilot countries, and they shared metadata and structures of their datasets. It was clear that the two services were complementary.

Therefore, the ENERGATE platform has integrated ENERSHARE models to enable the provision of better, more precise predictions, while also making the models more user-friendly and transparent to users. Paired with the already existing ML-based decision support service for energy efficiency measures, the models complement its results of energy estimation, with predictions for the suitability of energy efficiency measures. Additionally, an explainable AI method was integrated on top of the existing models, to pair the models' decisions with easy-to-understand explanations of how they occurred and to create an environment of trust.



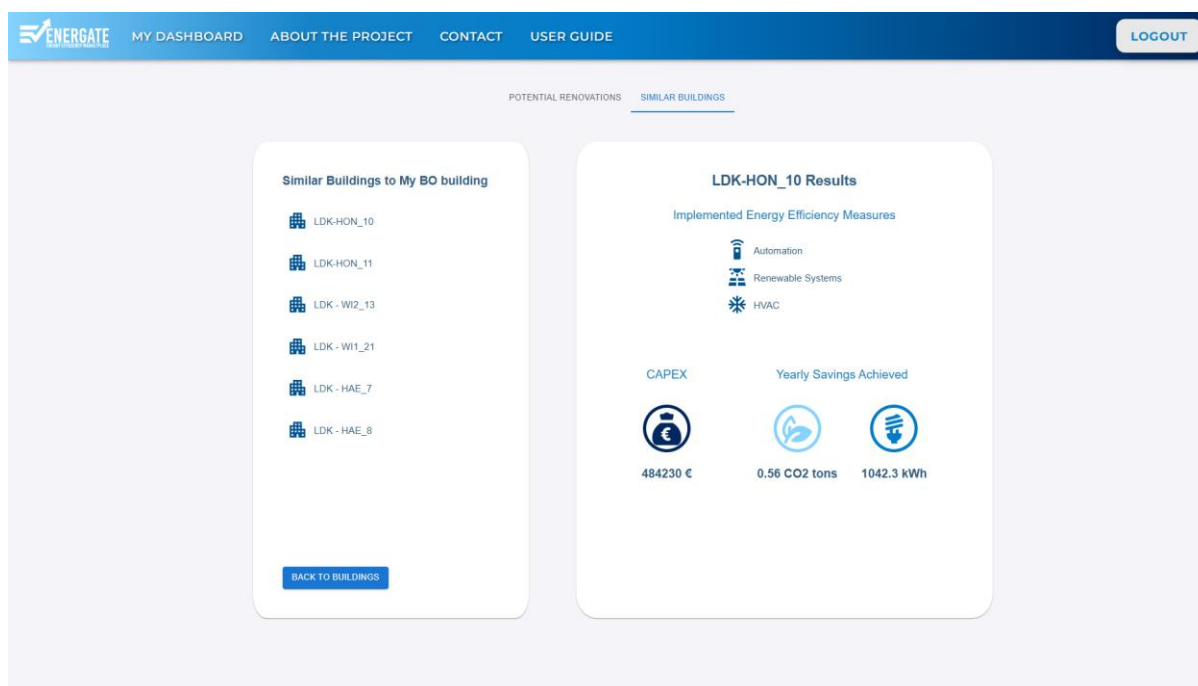


Figure 6: ENERGATE platform's "Savings Estimator"

2.10 ReLIFE

About the project:

ReLIFE aims to improve data accessibility in the EU construction sector by providing ready-to-use resources for financial institutions and other stakeholders. Its open-source platform serves as a central hub for crucial building information, including financial and technical details, enabling better decision-making for key stakeholders such as banks, energy service companies, and building owners.

Insights from the meetings:

ENERGATE and ReLIFE share common goals in terms of facilitating the decision making for stakeholders involved in the energy efficiency value chain. Therefore, the projects have shared knowledge about their findings and approaches, which has also resulted in a synergy. Specifically, part of the different services and methodologies that ReLIFE provides is the ARV (After-Renovation Value) service, which estimates the market price of a property following an energy performance upgrade. Contrary to simple rule-based calculations, ARV is derived from market-sensitive factors that reflect how buyers and investors perceive the value of a property in relation to its physical, technical, and energy performance characteristics. This makes the model particularly useful as a decision-support tool in contexts where financial risk needs to be managed, such as in energy efficiency investments, renovation planning, or property portfolio assessments. This service has been integrated in ENERGATE's "Deliver Stage".

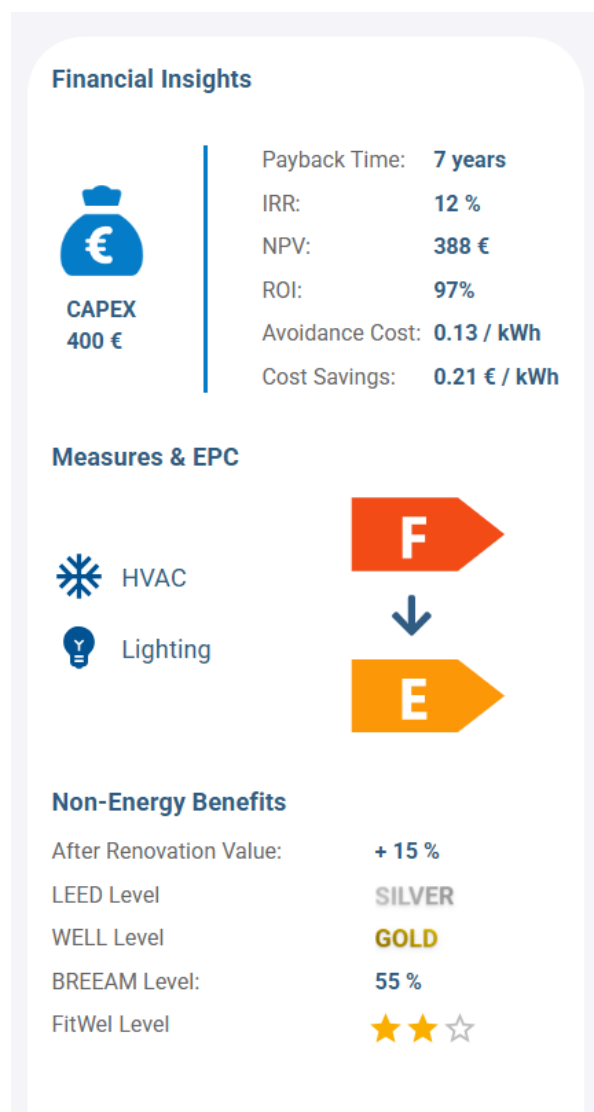


Figure 7: Financial Insights using data from ENERGATE and the ReLIFE ARV service.

2.11 SRI ENACT

About the project:

The [SRI ENACT](#) project focuses on enabling the large-scale adoption and use of the SRI. The project aims to engage stakeholders in national and EU level to co-create tools and services for the SRI uptake.

Insights from the meetings:

To support the practical application of this indicator, SRI-ENACT has developed a digital platform that turns the SRI methodology into an accessible, interactive tool, available [here](#). Through this platform, building owners, auditors, and energy experts can perform SRI assessments by entering the key characteristics of a building and its technical systems. The

platform guides users through the full evaluation workflow, from identifying smart devices to rating their functionality levels and aggregating these ratings into a final SRI score. The platform also acts as a decision-support tool that can highlight how specific upgrades and smart technologies would increase a building's SRI score. Additionally, the platform supports multiple countries, allowing the methodology to be adapted to different regulatory frameworks, climates, and building typologies across Europe. Lastly, it includes features for training and certifying auditors so that SRI assessments remain consistent and reliable regardless of the market in which they are performed.

Having discussed with partners from the SRI ENACT team about potential ways of enabling the users of ENERGATE to take advantage of the SRI calculation methodology, it was decided that the best approach would be to redirect them to the tool itself. Hence, ENERGATE offers a direct link for Implementors who wish to perform an SRI assessment for their buildings. They are able to navigate to the SRI-ENACT assessment platform through an integrated link during the offer finalisation. This external tool will guide them through the official SRI evaluation process, including the definition of the building's technical systems, the selection of smart functionalities, and the automated calculation of the final SRI score. Once the assessment is complete, the Implementor will be able to input the resulting SRI score in ENERGATE if they wish to include it in their offer and make it available to Financiers.

3. Standardisation activities

3.1 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.

The primary objectives of the HSBooster engagement were to:

- Identify standardisation domains of relevance to the ENERGATE platform and its associated services.
- Assess the alignment of ENERGATE with existing regulatory and standardisation frameworks, particularly in relation to building performance, smart readiness, and user-input validation.
- Provide expert guidance on potential contribution pathways to standardisation bodies and ongoing initiatives.
- Support the development of a structured standardisation strategy tailored to the project's scope and level of maturity.

These objectives were addressed through a two-phase approach consisting of an initial scoping and assessment stage followed by a more detailed analysis and preparation of recommendations.

Activities Performed

1. Initial Scoping Meeting (10 June 2024)

A one-hour online meeting was held to introduce the ENERGATE project, clarify its objectives, and explore initial standardization considerations. Key discussion points included:

The status of ENERGATE developments, particularly the platform architecture, user-provided data, alignment with EU Taxonomy, and the risk assessment methodology derived from previous projects.

Challenges related to the validation and quality assurance of user-submitted data in the absence of live metering information.

The distinction between regulatory frameworks and standardisation processes, along with the need for ENERGATE to remain compliant with both.

The expert proposed three thematic areas for further exploration:

- Standards related to the Energy Performance of Buildings Directive (EPBD), including the ISO 52000-series.
- Standardisation activities related to the Smart Readiness Indicator (SRI) and its associated working groups.
- Potential standardised approaches for the validation of user-provided data.

It was agreed that the HSBooster service would be organised into two stages:

- (i) an initial overview of standardisation opportunities and working approach, and
- (ii) a more focused analysis culminating in recommendations for ENERGATE's standardization engagement.

2. Expert Analysis Prior to the Second Meeting

Between the first and second meetings, the expert conducted an in-depth review of relevant standardization frameworks. This included:

The EPBD and associated building performance standards (ISO 52000-1, 52003-1, 52010-1, 52016-1, 52018-1).

The SRI ecosystem, including Member State test phases, LIFE project clusters, and stakeholder working groups.

Other relevant standardisation development organizations (SDOs) and potential contribution processes. Preliminary analysis of methodologies for assessing the validity of user-submitted information.

Consideration of finance-related sustainability regulation, later determined to be outside the scope of ENERGATE's core objectives.

3. Presentation of Findings and Consultation (9 July 2024)

A second one-hour meeting was held to present the expert's findings and obtain feedback from the consortium. The presentation covered:

- Detailed mapping of EPBD and SRI standardisation activities.
- Overview of ongoing work within the SRI platform working groups.
- Identification of standardisation bodies and opportunities for engagement.
- Intermediate conclusions and references for further investigation.

Feedback from ENERGATE focused on:

- Excluding standardisation activities related to financial/ROI assessments.

- Exploring alignment with overarching ISO standards linked to the EPBD.
- Investigating standardisation aspects related to data validation and the contractual or business-model frameworks relevant to ENERGATE's matchmaking role.
- Coordinating future work with the CEN/CENELEC CWA initiative on SRI audits, where ENERGATE team members are already involved.

It was agreed that the consortium would define priorities for the second part of the HSBooster support. Two options for the next expert activity were proposed:

- (i) elaboration of selected standards and associated processes, or
- (ii) review of specific standards contributions drafted by the project.

Finally, the consortium agreed to proceed with the integration of EU taxonomy in the platform (see section 3.2) as well as collaborate with other projects on the SRI (See section 2.11).

3.2 EU Taxonomy & Standardisation closed workshop

Projects involved: ENERGATE and DATAWiSE DECODIT DEDALUS ENPOWER HYCOOL IT MODERATE RESCHOOL RESONANCE WeFORMING

The integration of the EU Taxonomy for sustainable activities and the increasing role of standardisation are becoming highly relevant for Horizon Europe and LIFE Clean Energy Transition (CET) projects, particularly those addressing climate action, energy efficiency, and the digital transition. In this context, the closed workshop held on 23 May 2025 brought together representatives from ten EU-funded projects to exchange experiences, identify shared challenges, and discuss how these frameworks are being interpreted and applied in practice.

The objectives of the workshop were to:

- Explore how projects are addressing EU Taxonomy and standardisation requirements;
- Highlight barriers and challenges encountered during implementation;
- Facilitate peer learning and the sharing of practical recommendations;
- Lay the groundwork for potential future collaboration or joint actions.

During the workshop, the activities already implemented within ENERGATE were presented, including:

- Establishment of the ENERGATE Task Force with relevant partners, meeting on a monthly basis;
- Participation in and contribution to the expert talk on standardisation at the REHVA Brussels Summit;
- Application to the Horizon Booster, resulting in dedicated standardisation support;
- Pursuit of synergies with other EU projects and initiatives, including co-organised events (e.g. EN-TRACK, InEExS);

- Engagement with the CEN-CENELEC Working Group on Energy Efficiency and Management;
- Monitoring of the activities of the European Energy Efficiency Financing Coalition.

The workshop also introduced the work carried out with the HSBooster service, as outlined in the previous section of this deliverable. This included support related to:

- The Energy Performance of Buildings Directive (EPBD);
- Buildings' Smart Readiness Indicator (SRI);
- Sustainability-related financial regulation, including:
 - EU Taxonomy Regulation,
 - Sustainable Finance Disclosure Regulation (SFDR),
 - Corporate Sustainability Reporting Directive (CSRD).

Furthermore, the integration of the EU Taxonomy within the ENERGATE platform was presented (See also D2.6 Report on Specifications for Project Entries, User Profiles, Use Cases and User Ranks-final version²)

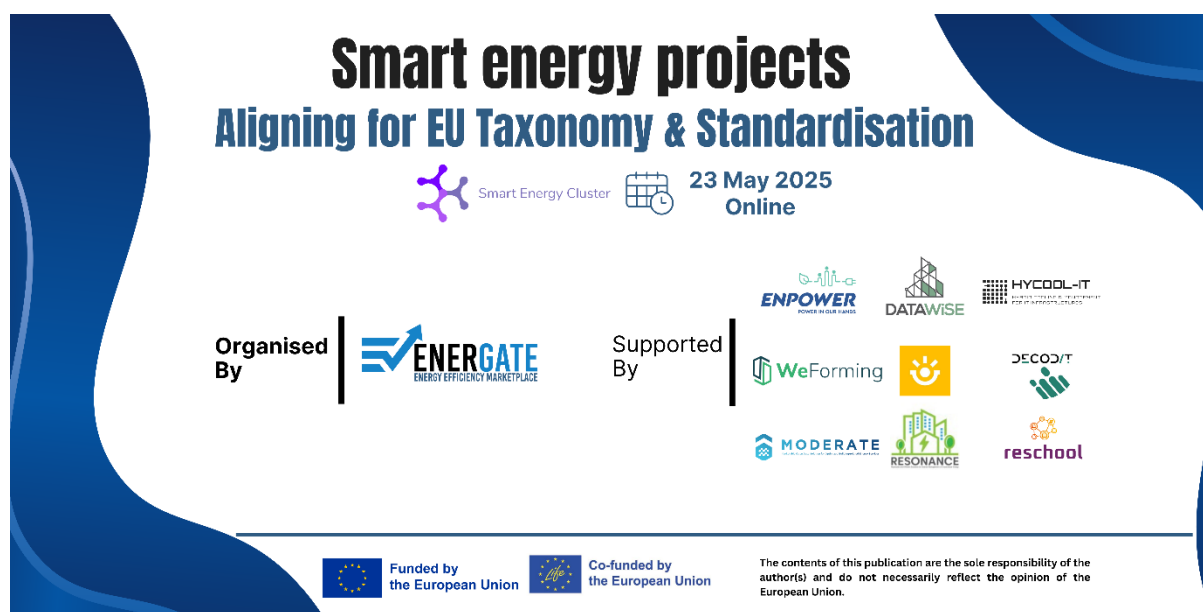


Figure 8: Standardisation workshop banner

²<https://energate-project.eu/sites/default/files/results/D2.6-Report%20on%20Specifications%20for%20Project%20Entries,%20User%20Profiles,%20Use%20Cases%20and%20User%20Ranks-final%20version-v1.00.pdf>

4. 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.

4.1 The Smart Energy Cluster

About



Smart Energy Cluster

The Smart Energy Cluster (<https://smartenergycluster.eu/>), initiated by the InEEExS LIFE project and coordinated by NTUA and IEECP.

The **Smart Energy Cluster**, initiated through the LIFE InEEExS project and coordinated by NTUA and IEECP, has grown into a major European collaboration hub for projects working on integrated energy services, digitalisation, flexibility, distributed generation, and consumer-centric innovation. What started as a small coordination activity has now evolved into a **pan-European ecosystem of 57 EU-funded projects**, including **37 ongoing and 20 completed** initiatives. Together, they address the challenges of market fragmentation, limited cross-sector collaboration, and the need to scale innovative solutions across Europe's energy system. The projects that are members of the cluster can be found at: <https://smartenergycluster.eu/our-cluster>.

The Cluster's overarching mission is to **amplify the collective impact** of EU-funded smart energy projects by:

- Establishing synergies between projects with common themes, methodologies, and KPIs.
- Facilitating knowledge exchange on communication, stakeholder engagement, technical work, and market uptake.
- Creating shared strategies for joint dissemination, cross-promotion, and events.
- Highlighting innovative services that deliver energy savings, cost reductions, flexibility benefits and added value for end users.
- Strengthening the visibility and replication potential of project results.

By merging energy efficiency, digital technologies, new business models, and non-energy benefits, the Cluster provides a common ground for collaboration among different actors, segments, and technologies.

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.

Meet our cluster!

Follow the **#SmartEnergyCluster** on social media & visit our website at **smartenergycluster.eu** !



Figure 9. Smart Energy Cluster

Smart Energy Cluster Website

The Smart Energy Cluster's online presence has expanded rapidly and now includes:

- A dedicated website featuring project profiles, news, events, and services.
- A **Pilot Visualisation Map** presenting pilots across 25 countries and enabling filtering by project or location (<https://smartenergycluster.eu/pilots-map>).
- A dissemination request service through which projects can share news or activities directly on the Cluster's communication channels (<https://smartenergycluster.eu/services>)
- The **#SmartEnergyCluster** and **#MeetOurSmartEnergyCluster** social media campaigns, widely used to highlight project achievements and collaboration opportunities.
- A huge chance to join the cluster (<https://smartenergycluster.eu/join>)

The website has attracted more than **3,800 unique users**, and more than **375 social media posts** have promoted Cluster activities and projects.

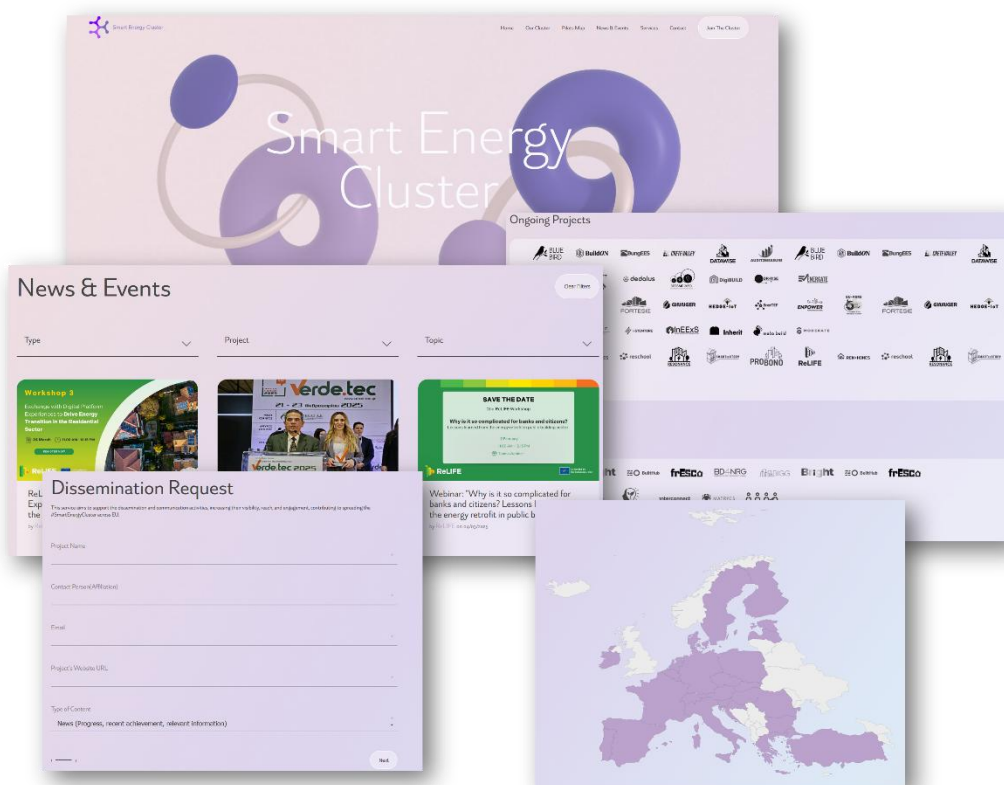


Figure 10. Smart Energy Cluster Website

Smart Energy Cluster Common Topics

To support cooperation across diverse topics, the Smart Energy Cluster developed a structured framework that groups projects under **21 thematic categories**, such as digital building solutions, flexibility markets, citizen engagement, artificial intelligence, renovation concepts, smart district approaches, and energy communities.

Each project joining the Cluster completes an application form that enables the coordination team to identify its thematic overlaps with others. These thematic links are used to initiate:

- Technical collaborations
- Joint events and workshops
- Shared communication actions
- Material co-development
- Cross-project replication activities

This structured approach has been essential to continuously expanding the Cluster, now representing an impressive portfolio of projects covering technologies and pilots across more than **30 countries**.

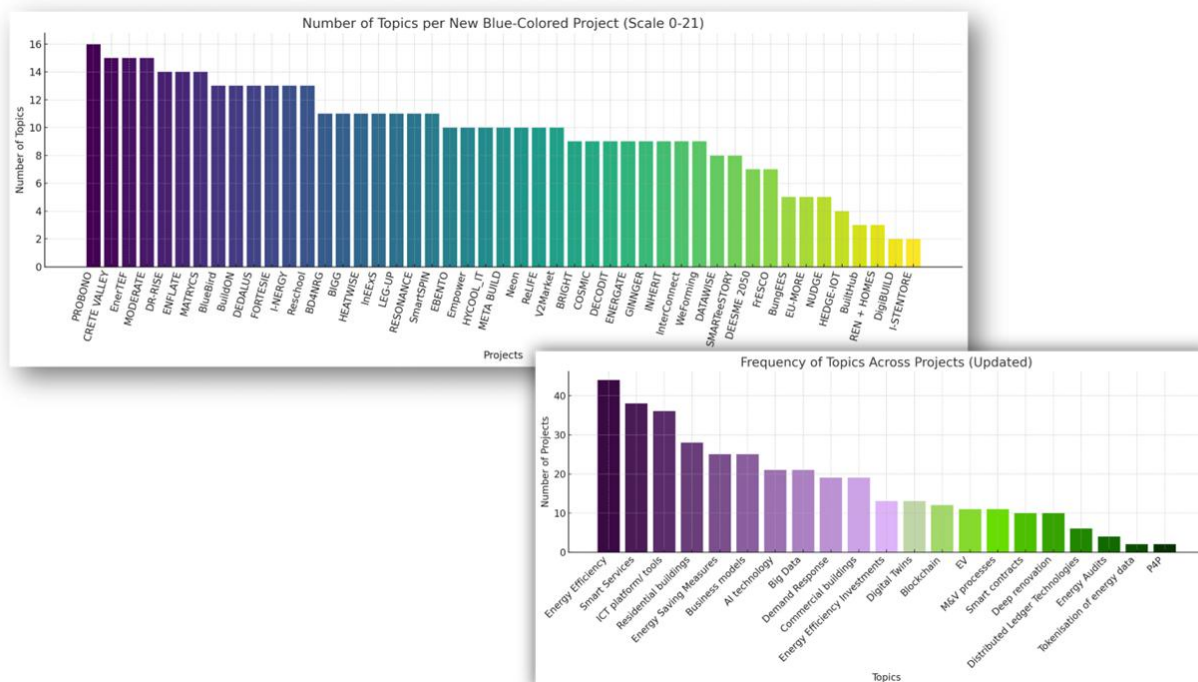


Figure 11. Smart Energy Cluster themes

Smart Energy Cluster events:

The Cluster has organised **three major Collaboration Workshops**, which have become key moments for aligning activities among projects. During these workshops, new projects are introduced, collaboration opportunities are presented, and working groups are formed around specific themes or dissemination needs.

Beyond the formal workshops, numerous **bilateral and multilateral discussions** have taken place between project consortia. These have resulted in:

- Shared participation in EU conferences and webinars
- Coordinated release of communication materials
- Joint press articles and social media campaigns
- Technical exchanges supporting replication and standardisation
- Preparation of thematic sessions for major events such as Sustainable Places and Enlit Europe

Since its creation, the Smart Energy Cluster has become a powerful platform for coordinated dissemination and outreach, organising and contributing to a wide range of joint events.

In each event the Cluster is represented by some of the projects, while all of the Cluster projects gain visibility.

The following events are joint events among ENERGATE and some projects of the cluster:

16th International Conference on Information, Intelligence, Systems and Applications (IISA 2025), July 2025, Mytilene, Greece

Projects involved: ENERGATE and InEEExS, i-STENTORE, HEDGE-IoT, DEDALUS, ENPOWER

ENERGATE co-organised the 5th International Workshop on AI & Data Analytics in the Energy Sector, held during IISA 2025 in Mytilene, Greece. As part of the event, a dedicated Smart Energy Cluster session explored how a group of EU-funded initiatives is advancing Europe’s energy transition through the combination of smart infrastructure, community engagement, and data-driven innovation. The session highlighted the increasing convergence between citizen-centred approaches, such as participatory energy tools, incentive mechanisms, and socially informed design, and advanced technical solutions including AI-enabled grid orchestration, digital marketplaces for energy efficiency investment, and next-generation energy storage systems.

Together, these initiatives form a coherent ecosystem working to overcome technological, financial, regulatory, and behavioural barriers, while aiming to deliver solutions that can scale across Europe. The workshop emphasised how integrating community-led models with robust digital foundations can create more flexible, resilient, and efficient energy systems. Participants were introduced to two complementary themes: empowering communities to actively participate in energy markets and shaping a smarter demand-side, and building the digital and infrastructural foundations required for a resilient, data-driven energy system. Overall, the session provided valuable insights into how technical innovation and social participation can be combined to co-create the energy systems of the future.

ENERGATE partners presented also a paper with the title: “Decision Support System for Optimised Selection of Financing Tools for Energy Efficiency Projects”, I. Andreoulaki, A. Papapostolou, V. Kotrogiannis, D. Stoian, J. Psarras.

Find more information [here](#).



Figure 12: Snapshots from ENERGATE participation at IISA Workshop 2025

CLIMA2025 Conference, June 2025, Milan, Italy

*Projects involved: **ENERGATE** and MODERATE.*

The joint workshop organised by REHVA and the projects ENERGATE and MODERATE, brought together stakeholders from the real estate, energy, and finance sectors to explore how digital innovation and financial mechanisms can accelerate building energy efficiency across Europe.

Key Outcomes:

- **Transforming Europe's Building Stock:** Opening remarks by *Frank Hovorka* (AICVF & FPI France) underscored the urgency of large-scale renovation, highlighting the role of data-driven and finance-ready approaches in scaling energy efficiency actions.
- **MODERATE – Data-Driven Decision Support:** *EURAC* (Cristian Pozza & Daniele Antonucci) demonstrated how MODERATE's digital tools enhance access to and use of building performance data, enabling better investment and policy decisions.
- **ENERGATE – Unlocking Finance for Renovation:** *NTUA* (Katerina Papapostolou) presented ENERGATE's financial innovation framework, focusing on risk reduction and investor confidence through the integration of market actors and tailored financing solutions.

Panel Discussion Highlights: Moderated by *Frank Hovorka*, the panel addressed both opportunities and persistent challenges in the digitalization of energy renovation:

- *Sara Canepa (Prelios Integra)* – Real estate asset managers see growing value in energy efficiency but face operational and ROI-related constraints.
- *Gabriele Fregonese (SINLOC)* – Emphasized the need for project aggregation and robust business models to link digital solutions with financing.
- *Francesca Hugony (ENEA)* – Called for stronger policy alignment and standardization, advocating One-Stop Shops to build trust and coherence.
- *Csaba De Csiky (Enersave Capital)* – From an investor's view, clear value propositions and de-risked investment pipelines are key to mobilizing private capital.

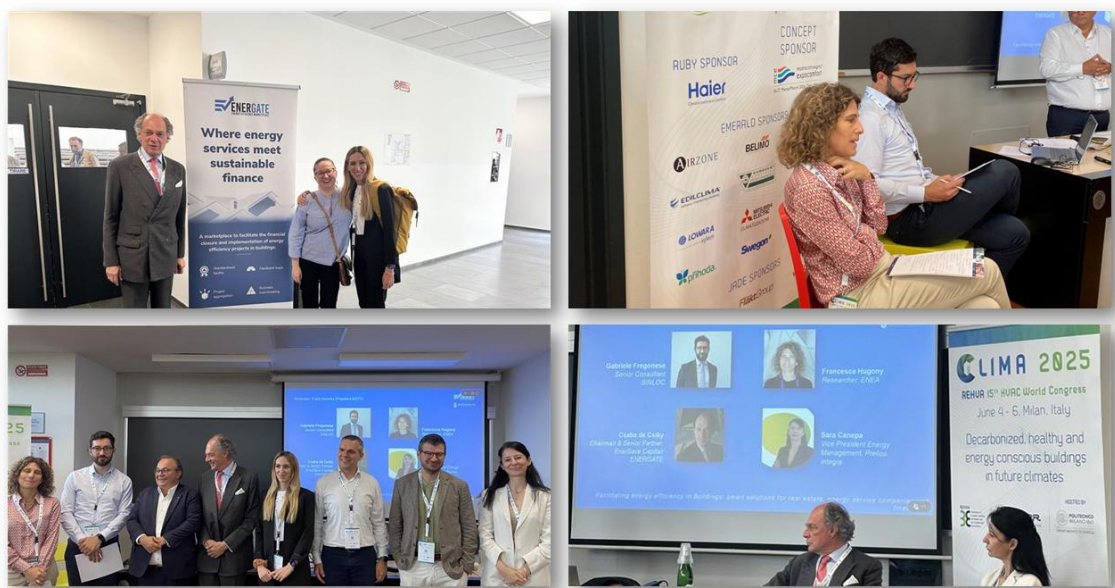


Figure 13 MODERATE & ENERGATE Workshop at CLIMA2025

Stakeholder pilot assessment Latvian workshop, April 2025, Riga, Latvia

Projects involved: ENERGATE and INHERIT, SRI-ENACT

On 30 April 2025, ENERGATE took part in a national-level Stakeholders' Meeting held at the European Union House in Riga, co-organized by the Riga Planning Region in collaboration with SRI ENACT and InHerit. The event brought together representatives from state institutions, municipalities, ESCOs, building owners, and public financing bodies to discuss smart building approaches and the role of ENERGATE in supporting energy-efficiency renovation projects.

The meeting focused on sharing knowledge across three complementary EU-funded initiatives, highlighting the importance of smart, data-driven, and heritage-sensitive approaches to building renovation.

Participants received an in-depth introduction to the ENERGATE platform, including user profiles, real-time navigation of the platform, example use cases for building owners, ESCOs, and investors.

Stakeholders emphasised the importance of improved coordination across digital tools and EU projects. The workshop underscored the value of combining SRI assessments, heritage-focused methodologies, and ENERGATE's marketplace to empower public bodies in developing more mature, data-driven renovation projects. Enhanced collaboration between ENERGATE, SRI ENACT, and InHerit was viewed as key to supporting smarter, more transparent, and more efficient renovation practices for Latvia's public building stock.

ENERGATE is positioned to become a valuable pipeline of public building renovation projects, contributing directly to national efforts to identify and plan energy-efficiency improvements in line with the National Energy and Climate Plan.

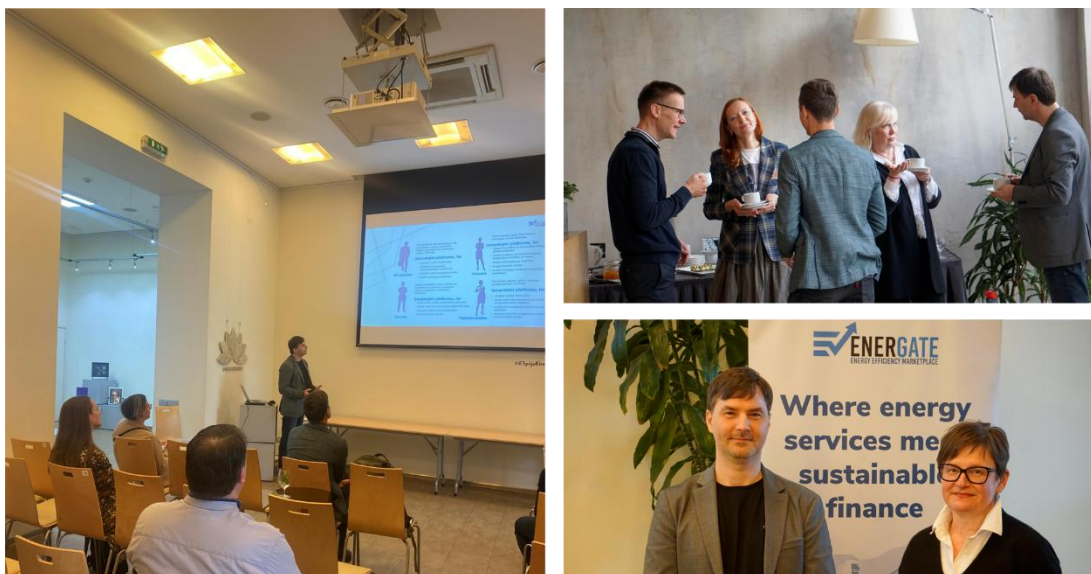


Figure 14: SEFA and SRI-ENACT Meeting, organised by Riga Planning Region

7th International Verde.tec Exhibition in Athens, February 2025, Athens

Projects involved: **ENERGATE** and InEEExS

At the 2025 Verde.tec International Exhibition in Athens, ENERGATE co-organised a dedicated workshop with the InEEExS project titled *“From Innovation to Market: New Advanced Services for the Energy Upgrade of Buildings”*, held in partnership with the LIFE-funded InEEExS project. ENERGATE’s participation positioned the platform at the centre of discussions on digitalisation, investment readiness, and the practical acceleration of building renovation activities in Greece. The ENERGATE team delivered a comprehensive presentation demonstrating how the digital platform supports project development, matchmaking between building owners, implementors, and financiers, and the use of structured data to improve investment quality and reduce perceived risks. A live demonstration showcased core platform workflows, including project creation, project aggregation, investor engagement, and evaluation of energy and financial indicators, giving participants a clear view of how ENERGATE can streamline the preparation and financing of renovation projects.

During the high-level panel discussion that followed, ENERGATE contributed to a wide-ranging exchange between policymakers, national agencies, energy companies, and LIFE project partners. The debate highlighted the systemic barriers facing the Greek renovation market, lack of building data, administrative inefficiencies, limited project maturity, and weak links between innovation and financing, and emphasised how digital tools such as ENERGATE can help close these gaps. Panelists acknowledged the platform’s value in supporting aggregation, simplifying monitoring and verification practices, and enabling collaboration between the public and private sectors. ENERGATE was awarded with the **Greek Green Award** as the best EU project for Energy and Environment.

Find more information [here](#).

Find the Key Takeaways of the event [here](#).



Figure 15: ENERGATE at Verde.tec International Exhibition in Athens, February 2025



Figure 16: ENERGATE Factsheet from Verde.tec International Exhibition in Athens

BIGG project Final Conference, November 2024, online

Projects involved: ENERGATE and BIGG, MODERATE, DigiBUILD



Figure 17. BIGG Final Conference

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, 2024. 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.

Enlit 2024, October 2025, Milan, Italy

Projects involved: ENERGATE and i-STENTORE WeForming EVELIXIA HEDGE-IoT AGiSTIN META BUILD

At Enlit Europe 2024, ENERGATE was featured in the Smart Buildings EU Projects Zone, and had a session titled "Powering the Green Transition with Innovative energy solutions", with Alexandra Hedesiu (EnerSave capital) as ENERGATE's speaker. The presentation highlighted ENERGATE's core vision of enabling easy, predictable, and risk-weighted investment in energy-efficiency upgrades through a digital marketplace that connects building owners, implementors, and financiers.

ENERGATE's participation at Enlit Europe enhanced its visibility among energy-sector stakeholders and positioned the platform as a practical, market-ready solution capable of unlocking sustainable finance for building renovation projects across Europe.

Beyond the presentation, the ENERGATE team held targeted meetings with smart-building associations, energy-efficiency service providers, technology firms, municipal energy agencies, and financiers. These discussions confirmed strong market interest in digital renovation pipelines and provided valuable feedback on integration needs, investor expectations, and collaboration pathways across Europe's energy-efficiency ecosystem.

Find more information [here](#).



Figure 18: ENERGATE at Enlit Europe 2024

15th International Conference on Information, Intelligence, Systems and Applications (IISA 2024), July 2024, Chania, Greece

Projects involved: ENERGATE and DEDALUS, ENPOWER, DigiBUILD, EnerTEF, CRETE VALLEY, META BUILD, BuildON

The workshop provided a platform for sharing the latest advancements, exchanging insights, and fostering collaboration across academia, industry, and policy.

The **4th International Workshop on Data Analytics in the Energy Sector** in Chania, Crete, delved into several themes shaping the evolution of the energy landscape. Discussions highlighted emerging analytical techniques, intelligent energy management frameworks, digitalisation pathways, interoperability challenges, and the integration of AI and advanced modelling in support of efficient, flexible, and sustainable energy systems. Participants engaged in meaningful dialogue on how data-driven innovation can accelerate the energy transition, enhance system resilience, and unlock new opportunities for optimisation across the energy value chain.

Overall, the workshop offered valuable perspectives on the role of data analytics in enabling the next generation of smart, decarbonised, and user-centric energy systems.

ENERGATE partners presented also a paper with the title: “A Decision Support Tool for Aggregation and Prioritisation of Energy Efficiency Investments in Buildings”, I. Andreoulaki, D. Stoian, A. Papapostolou, A. Stavrakaki, V. Marinakis.

Find more information [here](#).



Figure 19: Snapshots from ENERGATE participation at IISA Workshop 2024

ENERGATE, InEEExS, FORTESIE webinar on accelerating building energy efficiency through ict solutions, May 2024

Projects involved: ENERGATE and InEEExS, FORTESIE

In a pioneering collaboration aimed at addressing the challenge of energy efficiency in buildings, ENERGATE launched a joint initiative with InEEExS 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.

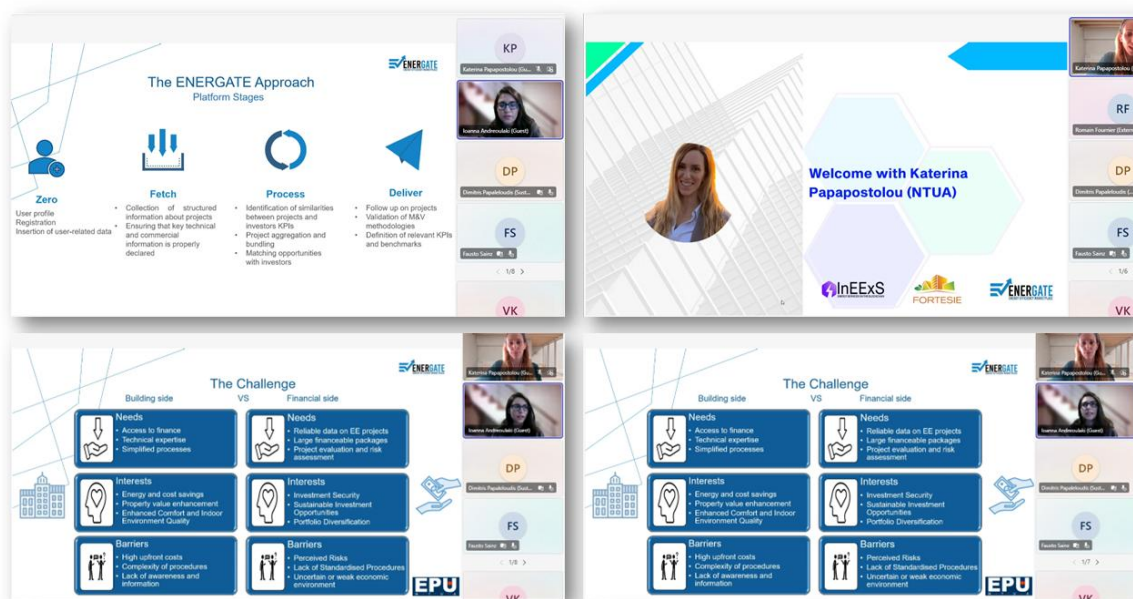


Figure 20. InEEsS, FORTESIE and ENERGATE webinar

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.

InEEsS and FORTESIE, key partners in this collaboration, also made significant contributions. InEEsS 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, CO₂ 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](#).

14th International Conference on Information, Intelligence, Systems and Applications (IISA 2023), July 2023, Volos, Greece

Projects involved: **ENERGATE** and **MATRYCS**, **BD4NRG**, **DigiBUILD**

ENERGATE project participated in the 14th International Conference on Information, Intelligence, Systems and Applications (IISA 2023), which took place on July 10 – 12, 2023, technically co-sponsored by IEEE, the University of Piraeus and the University of Thessaly.

ENERGATE was part of the [Special Session](#) co-organized by MATRYCS, BD4NRG and DigiBUILD projects which focused on highlighting applications and cases that make use of data and appropriate techniques for the decision support of energy stakeholders, through the use of the latest technology.

The project manager, Katerina Papapostolou from NTUA presented a paper related to ENERGATE advances, with the title "*An Energy Efficiency Marketplace for Buildings: The ENERGATE System Architecture*".

See more [here](#).



Figure 21. Snapshots from ENERGATE participation at IISA Workshop 2023

Other Smart Energy Cluster events

Apart from the events co-organized by ENERGATE with other projects from the Cluster and its participation in major events and exhibitions, other projects from the Smart Energy Cluster represented the entire Cluster at the following events:

Enlit Europe 2024

- Title: Unlocking the Power of Smart Energy: A New Era in Efficiency, Flexibility & Innovation
- Date: 24.10.2024

- Cluster representatives: FORTESIE, InEExS, DigiBUILD, RESONANCE, EU-MORE, ReSCHOOL
- [Link](#)

SmartSPIN Final Event (Sustainable Places 2024)

- Title: Innovation Through Collaboration: The Smart Energy Cluster Fueling the Smart Energy Transition
- Date: 26.09.2024
- Cluster representatives: SmartSPIN, InEExS
- [Link](#)

InEExS – BungEES Webinar

- Title: Energize Your Business: Innovative Models for a Sustainable Future
- Date: 10.12.2024
- Cluster representatives: InEExS, BungEES
- [Link](#)

InEExS – DigiBUILD Replication Workshop

- Title: Digital Technologies & Energy Efficiency in Buildings: From Theory to Practice
- Date: 04.02.2025
- Cluster representatives: InEExS, DigiBUILD
- [Link](#)

Sustainable Places 2025

- Title: Advanced Digital Technologies, Citizen Engagement & Innovation Ecosystems
- Date: 08.10.2025
- Cluster representatives: CRETE VALLEY, DEDALUS, EnerTEF, ENPOWER
- [Link](#)

InEExS Final Event – Replication Workshop

- Title: Advancing InEExS Business Models & Their Replication Through Innovative Solutions and Interactive Dialogue
- Date: 15.10.2025
- Cluster representatives: InEExS, DATAWiSE, ENPOWER, DEDALUS, BlueBird
- [Link](#)

Smart City Congress 2025

- Title: Pioneering Urban Energy Efficiency & Innovative Solutions
- Date: 04.11.2025
- Cluster representatives: InEExS, GINNGER
- [Link](#)

Enlit Europe 2025

- Title: From Buildings to Communities: Innovation in Energy Efficiency & Grid Integration

- Date: 18.11.2025
- Cluster representatives: CRETE VALLEY, ENPOWER, DEDALUS, SMARTeeSTORY, META BUILD, ReSCHOOL
- [Link](#)



Figure 22. Snapshots from Smart Energy Cluster events (1/2)



Figure 23. Snapshots from Smart Energy Cluster events (2/2)

4.2 Clustering Activities with other EU-Funded Projects and initiatives

ENERGY EFFICIENT MORTGAGES INITIATIVE

About the project:

EEMI has been the catalyst for the growth of a **new, integrated, multi-stakeholder energy efficient mortgage ecosystem**. The EEMI seeks to introduce a greener, more sustainability focused means of buying, renovating and living in our homes.

ENERGATE was invited to participated on 30 April 2025 in the fifth edition of the EEMI Sustainability & Digitalisation Pavilion at the Stavros Niarchos Foundation Cultural Center in Athens, held in parallel with the 36th European Covered Bond Council (ECBC) Plenary Meeting. As the key biannual gathering for the covered bond sector, the ECBC meeting attracted more than 300 high-level stakeholders, including banks, issuers, investors, policymakers, regulators, analysts, and media representatives, from over 45 jurisdictions. The Pavilion brought together prominent organisations such as Bloomberg, ADEAL Systems, Harley&Dikkinson, Helaba, vdp Research, VIDA and UFHC, offering a unique forum to discuss how the mortgage and covered bond industries can support the green transition through sustainable and digital innovation.

Throughout the event, ENERGATE maintained a dedicated stand where the team actively approached financial institutions, building long-form discussions with banks, investors, and covered bond issuers on how the ENERGATE Platform can enhance energy efficiency investment workflows. Live demonstration in the ENERGATE stand showcased the platform's functionality, its ability to standardise project data, and its potential for supporting green lending, portfolio decarbonisation, and investment-readiness processes. These interactions provided an opportunity to introduce ENERGATE to stakeholders who play a central role in shaping Europe's sustainable finance landscape.

In addition to the stand, ENERGATE delivered a dedicated pitch presentation to the Pavilion audience, highlighting the platform's capacity to aggregate renovation projects, increase transparency, and facilitate connections between building owners, ESCOs, and financiers. The pitch reinforced ENERGATE's relevance for institutions exploring new digital tools to strengthen their green mortgage and covered bond strategies.

ENERGATE's Project Manager, Katerina Papapostolou from NTUA, also gave an interview during the event. She outlined the project's objectives, the importance of digitalisation in driving the EU's building-renovation agenda, and the value of standardised data and transparent financing mechanisms.

Find more information [here](#).

Find the interview [here](#).



Figure 24: ENERGATE at EEMI 2025

CROSSFIT

About the projects:

CROSSFIT seeks to transform how energy efficiency projects are handled in the public sector with the set-up of a one-stop shop in the public sector, where complexities in procurement are simplified, and opportunities are seized.

Joint events:

The ENERGATE project participated in the workshop, organised by **SEFA** (ENERGATE supporter and AB Member) as part of the Sustainable Energy Days of EUSWE, where CROSSFIT project also participated, titled: "[Empowering Public Buildings Development: Financing Energy Efficiency Through One-Stop Shops and Urban-Industrial Partnerships](#)", on 24 April 2025 from 14:00 - 15:30 CET.

This workshop focused on advancing energy efficiency in public buildings. ENERGATE coordinator, Katerina Papapostolou, was invited to present ENERGATE's innovative approach and solution facilitating sustainable public building renovations and retrofits, contributing significantly to achieving European energy and climate objectives.

The recommendations from ENERGATE, presented during the workshop, that could help strengthen the role of platforms like ENERGATE in supporting public authorities with energy efficiency projects are as follows:

- **Raise public procurement thresholds for energy efficiency works.** Although EU-level thresholds are already relatively high, further increases, particularly at the national level, would reduce administrative burdens and make it easier for public bodies to carry out renovation projects.
- **Simplify procurement processes for projects with strong environmental standards.** Fast-track procedures and standardised templates could help cut red tape and accelerate renovations of public buildings.

- **Introduce specific exemptions for financed energy efficiency solutions.** Public authorities should be allowed to use simplified procedures, or even bypass traditional procurement, when partnering with ESCOs or using platforms like ENERGATE. This flexibility would make financed solutions more attractive and facilitate faster implementation.
- **Enable aggregation of projects.** Bundling renovation efforts across multiple public buildings or municipalities could unlock better pricing and economies of scale. Current procurement rules often hinder this approach. Addressing this would allow platforms like ENERGATE to support joint procurement and amplify impact.



Figure 25: SEFA's webinar at Sustainable Energy Days

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, 2024 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.

Webinar Highlights

- **Introduction:** A brief welcome and an overview of the webinar's goals.
- **Market Needs:** Challenges and needs faced by building owners and financial institutions.
- **Project Presentations:** Innovative solutions and tools developed by EN-TRACK and ENERGATE.
- **Q&A Session:** Discussion with our experts allowing you to delve deeper into the subject matter.



Figure 26. 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](#).

5. Conclusions

Throughout the reporting period, ENERGATE has successfully strengthened its presence within the European research and innovation landscape by actively engaging in collaborations, standardisation efforts, and clustering activities. These actions have not only expanded the project's visibility but have also generated concrete opportunities for shared experiments, data interoperability, and methodological alignment with other EU-funded initiatives. The standardisation work provides a foundation for ensuring long-term compliance and adoption of ENERGATE's outputs, while the clustering activities demonstrate the project's role in fostering a unified and cooperative community focused on digital solutions for the energy transition.

The collective impact of these activities confirms that ENERGATE is well-positioned to contribute meaningfully to Europe's climate and energy objectives. By building strong partnerships, aligning with emerging standards, and embedding its solutions within a wider ecosystem of stakeholders, the project is laying the groundwork for scalable, durable, and market-relevant results.

OUR TEAM

Project Coordinator



See you online!

