



iBRoad2EPC: EU-Focused Stakeholder Engagement and Dissemination

EU events, networking and final conference briefing

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Photo from crossCert, EPC RECAST, EUB SuperHub and iBRoad2EPC projects' joint final conference, 23 May 2024

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EXECUTIVE SUMMARY

This report details the activities carried out to support the dissemination of information beyond the countries involved in the iBRoad2EPC project, targeting EU authorities, associations, and other organisations with an EU-wide perspective. Consortium members have organised (9 events) and participated (31 events), both virtually and physically, in a number of EU/international events throughout the project to present iBRoad2EPC and disseminate the project results.

During the course of the project, the consortium has conducted a series of targeted dissemination campaigns aimed at an EU-focused network of stakeholders. These campaigns included news alerts, press releases, articles, posts, and outreach emails related to policy recommendations designed to maximise the EU-wide uptake of the iBRoad2EPC renovation passports. Additionally, the consortium carried out targeted campaigns on specific Twitter lists and LinkedIn groups and formed partnerships with EU collaborative platforms.

iBRoad2EPC leveraged its participation in the Next Generation EPCs cluster of projects, with the contribution of iBRoad2EPC consortium partners to several communication and dissemination activities. In total, the project was represented in 19 collaborative events in this context—conducted in person, hybrid, and online—including webinars, workshops, and conferences. The events showcased new EPC templates, tools, and policy recommendations aimed at enhancing energy efficiency in buildings, featuring discussions with experts and representatives from various EU projects. At the events, partners disseminated project findings, presented iBRoad2EPC and/or its specific modules and possible applications, and participated in panel discussions and Q&A sessions. Additionally, the consortium published joint articles, special newsletter issues, and shared brochures.

As key outcome of the projects' clustering, the dedicated joint final conference of four EU-funded Horizon 2020 projects—crossCert, EPC RECAST, EUB SuperHub and iBRoad2EPC—on 23 May 2024 titled “*Next Generation Energy Performance Certificates Conference – EPBD recast edition*” brought together more than 90 physical participants and at least as many online viewers, and discussed valuable insights and applicable outcomes in the context of the 2024 recast Energy Performance of Buildings Directive. The conference was coordinated and timed to follow two related Brussels events, namely the CINEA Cross-programme Buildings Clustering Meeting (21-22 May) and the tunES project event Tuning EPC and SRI Practices and methods to analyse national challenges (22 May, afternoon).

Two peer-reviewed conference papers were published and presented at the European Council for Energy Efficient Economy (ECEEE) Summer Study editions in 2022 and 2024. The papers introduce the iBRoad2EPC concept and demonstrate how it can accelerate deep renovation by adapting existing EPC schemes to the needs of Member States. This adaptation involves more in-depth and targeted consultations, linking with existing energy-related programmes and instruments, and implementing incentive schemes. The papers examine the current use of EPCs in incentive programmes and explore how the iBRoad2EPC approach can improve incentive programmes in the six iBRoad2EPC pilot countries—Bulgaria, Greece, Spain, Poland, Portugal, and Romania. This analysis is based on a literature review and qualitative input from country experts.

To advance discussions on energy performance certificates, building renovation passports, deep renovation and energy efficiency, the project successfully maintained an ad hoc presence at major third-party EU-level events and disseminated the iBRoad2EPC concept, as well as insights and results. This included presentations, booths and/or participation at the panel discussions in three editions of EU Sustainable Energy Week (EUSEW) in 2021, 2022, and 2024, two editions of Sustainable Places in 2021 and 2022, two plenary meetings of the Concerted Action on the Energy Performance of Buildings Directive (CA EPBD) in 2021 and 2023, and at the Smart Readiness Indicator's third plenary meeting, participation to CLIMA 2022, the 14th REHVA HVAC World Congress, and more.

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ABBREVIATIONS

BRP	Building Renovation Passport
CA EPBD	Concerted Action on the Energy Performance of Buildings Directive
CINEA	European Climate, Infrastructure and Environment Executive Agency
ECEEE	European Council for Energy Efficient Economy
EED	Energy Efficiency Directive
EPBD	Energy Performance of Buildings Directive
EPC	Energy Performance Certificates
EUSEW	EU Sustainable Energy Week
IEQ	Indoor Environmental Quality
MS	Member States
NDA	Non-Disclosure Agreement
RED	Renewable Energy Directive
SRI	Smart Readiness Indicator
ZEB	Zero-Emission Building

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INTRODUCTION

Background and context

The iBRoad2EPC project, funded by the EU's Horizon 2020 programme (2021-2024), aims to support the decarbonisation of the EU building stock by bridging the gap between EPCs and renovation passports. This integration improves EPCs' effectiveness in supporting staged energy renovations, offering a tailored, step-by-step renovation journey. The project has developed and tested adaptable, modular components to meet the diverse needs of EU Member States. By combining the strengths of EPCs and renovation passports into a single flexible tool, it enhances renovation advice and motivates building owners towards energy-efficient renovations. It consists of a basic module, which incorporates the staged renovation advice as an output and is essential for all users, and additional on-demand modules covering energy demand, investment, indoor environmental quality (IEQ), smart readiness indicator (SRI), measured energy performance indicator (MEPI) and other areas that can be added where needed. With these features incorporated, **iBRoad2EPC is a ready-to-use flexible, adaptable, modular and affordable model renovation passport, designed to be optionally integrated into existing EPC schemes.**

Objectives of this report

Communication and dissemination are key to the success of the project, providing the tools to support awareness, recognition, interest and participation, and to promote the project results at local and EU level. This report presents how the project has established an EU-focused network of stakeholders and targeted them with tailored dissemination campaigns, including outreach emails, social media campaigns, partnerships with EU collaborative platforms, and collaboration with the Next Generation EPCs cluster of projects. It also shows how iBRoad2EPC was presented at various EU level events such as EU Sustainable Energy Week (EUSEW), European Council for Energy Efficient Economy (ECEEE), Sustainable Places, etc., and at specific high impact meetings such as EPBD Concerted Action plenary meetings and NDA workshops of the Next Generation EPCs cluster of projects.

Activities

iBRoad2EPC leveraged its participation in the Next Generation EPCs cluster of projects, with the contribution of iBRoad2EPC consortium partners to several communication and dissemination activities. Ever prior to the beginning of the project, the consortium, and in particular the Coordinator Sympraxis, exploited opportunities to inform about the project and its objectives and contribute to the policy discussions around the EPBD and renovation passports. Main (but not only nor final) outcome of this collaboration was the successful organisation of the joint final conference with three siter projects as part of a series of EU events that took place in Brussels that same week with the support of CINEA and DG ENER.

The consortium successfully maintained an ad hoc presence at major third-party EU-level events to disseminate iBRoad2EPC results, such as in three editions of EU Sustainable Energy Week (EUSEW) in 2021, 2022, and 2024 and two editions of Sustainable Places in 2021 and 2022 and participated in a range of other significant EU-level events to advance discussions on energy performance certificates, building renovation passports, and energy efficiency.

Partners ifeu and BPIE published and presented two peer-reviewed conference papers at the ECEEE Summer Study editions in 2022 and 2024.

Finally, BPIE built on its established network at EU level to create a pool of relevant stakeholders to be targeted with specific messages based on the project results.

Structure

The report is structured around two key sections:

- EU-focused network of stakeholders, targeted with tailored dissemination campaigns;
- European events, incl. Final conference.

Additional details are presented in the Annexes.

EU-FOCUSED NETWORK OF STAKEHOLDERS, TARGETED WITH TAILORED DISSEMINATION CAMPAIGNS

Outreach emails and press releases

The report EU Roadmap to Policymakers describes how to best prepare the ground and maximise the use of iBRoad2EPC to accelerate deep renovation in the EU. This roadmap report is intended as an implementation guide for EU renovation policy. It is based on the experience of the iBRoad2EPC project under the Horizon 2020 research and innovation programme, which has been running for three years in six EU countries (Bulgaria, Greece, Poland, Portugal, Romania and Spain), and a detailed analysis of the different EU directives, such as Energy Performance of Buildings Directive (EPBD), Energy Efficiency Directive (EED) and Renewable Energy Directive (RED). In order to disseminate the findings of this EU Roadmap report to an EU-focused network of stakeholders, a think piece was produced which also provides a broader context for iBRoad2EPC. The full piece can be found in Annex I. This article is shared in EU dissemination portals like BUILD UP, the ECEEE website, and on BPIE's blog and iBRoad2EPC's website, as well as through social media.

A press release on the iBRoad2EPC field test results was drafted and shared with multiple media outlets to showcase the positive outcomes of the test carried out in the six pilot countries (see Annex II). The news was shared with the Horizon magazine, the BUILD UP portal, the Balkan Green Energy News, ECEEE, and CORDIS, as well as BPIE's and iBRoad2EPC's website.

Campaigns targeting specific Twitter lists and LinkedIn groups

Most of the project outputs, such as deliverables, reports, test results, webinars and conferences, were promoted on the iBRoad2EPC LinkedIn and X channels as well as shared or promoted on the BPIE LinkedIn and X social media channels. Screenshots of the posts can be found in Annex III.

Partnership with EU collaborative platforms, etc.

iBRoad2EPC partnered with various EU collaborative networks and platforms, such as BUILD UP, Leonardo Energy, TIMEPAC Academy, Climate Alliance and Energy Cities and similar associations, to promote and showcase iBRoad2EPC. Also the collaborative activities with the Next Generation EPCs cluster of projects can be considered relevant partnerships. Please see Table 1 and Table 2 for more details.

Clustering activities with sister projects

Between 2019 and 2024, the Commission has funded several projects under the Horizon 2020 and Horizon Europe programmes that focused on EPCs and related concepts, such as Building Renovation Passport (BRPs). These projects, collectively known as Next Generation EPCs cluster of projects, aim to improve the quality, reliability, and usability of EPC schemes and EPCs. They also explore links between EPCs and other key policy instruments, such as BRPs, Smart Readiness Indicators (SRIs) and Digital Building Logbooks (DBLs). This will maximise their potential as a tool to trigger deep renovation and overcome barriers such as access to information and finance. For example, some projects have developed tools for automated renovation advice and quality control for EPCs, and added new indicators such as the SRI and the Comfort Indicator to EPCs. Some projects are connected to BRPs, including iBRoad2EPC.

iBRoad2EPC has contributed to or participated in a series of Next Generation EPCs cluster projects dissemination activities, such as conferences, workshops, joined papers and webinars. This included four (of the five) internal (NDA-non-disclosure agreement) workshops to share information and insights among the cluster project partners. A summary of related activities, covering both internal and public, is given in Table 1.

Table 1: Summary of iBRoad2EPC's contribution to activities with the Next Generation EPCs cluster of projects.

Event title	When, where and who participated	Event summary
2nd NDA web workshop Next Generation EPCs cluster of projects	24 June 2021, virtual; Alexander Deliyannis and Marianna Papaglastra led the discussions within the cluster on behalf of iBRoad2EPC and proposed specific outreach activities	Organised by REHVA on behalf of EPC-Recast in order to enable exchanges and discussion under non-disclosure agreement with sister projects
Web workshop Building Energy Performance Certificates: Convergent evolution?!	01 July 2021, virtual; participation Sympraxis	Online workshop on the harmonisation of building performance assessments organised by U-CERT and EPB Center with participation of 5 other H2020 projects of the Next Generation EPCs cluster of projects to discuss what the best path forward is for a convergent evolution of building assessment methodologies.
Sustainable Places conference 2021 "Building Energy Performance Certificates: The Enabler Smart Readiness Indicator" workshop	29 September 2021, virtual; Alexander Deliyannis from Sympraxis represented iBRoad2EPC in the panel discussion + Q&A	As integral part of the Sustainable Places 2021 conference, this workshop was set against the backdrop of the ongoing Smart Readiness Indicator (SRI) implementation and further development (future-proofing) at both EU and national levels. The members of the Next Generation EPCs cluster of projects joined forces with the SmartBuilt4EU team with the main scope of providing support to the European Commission services (& contractors) and the EU's Member States in the upcoming SRI national testing and the ongoing development of the SRI method
EUSEW 2021 extended programme session hosted by BUILD UP The next generation EPCs: Making buildings fit for the energy transition	14 October 2021, virtual; co-organised by Sympraxis, Alexander Deliyannis from Sympraxis represented iBRoad2EPC in the panel discussion	REHVA, BPIE, FEDARENE and Sympraxis Team, hosted by the BUILDUP Portal, brought together key actors from the Next Generation EPCs cluster of projects for a lively and informative moderated panel discussion between the project's representatives with 2 prior short 'setting the scene' keynotes from DG ENER and BPIE to benefit all EPBD stakeholders, with a slightly enhanced focus on EU Member States and specifically decision-makers and influencers of the EPBD revision process.
Enlit Europe	1 December 2021, Milan Italy; R2M representing iBRoad2EPC per proxy at a joint Next Generation EPCs cluster of projects' booth	Enlit Europe 2021, held from November 30 to December 2 in Milan, brought together over 18,000 energy professionals, including industry leaders, disruptors, and startups. The event provided a platform for participants to discuss current and future opportunities in the energy transition, covering various aspects such as decarbonisation, innovation, and the role of new technologies. It aimed to inspire the next generation of energy leaders through networking, collaboration, and showcasing cutting-edge solutions in the power and utility sectors.
TIMEPAC-2021 International Workshop: Dynamic EPC as enabler of Smart Energy Services – Energy Efficiency,	14 December 2021 in Ljubljana, Slovenia/virtual; A highlight was Alexander Deliyannis' presentation on Building Renovation Passports titled "iBRoad2EPC Setting Building Renovation Passports (BRPs) up for success – Frameworks, measures and	The TIMEPAC-2021 workshop in Ljubljana and online focused on advancing Energy Performance Certificates (EPCs) as tools for smart energy services, energy efficiency, and renewable energy integration. It covered legislative frameworks, data integration, and the management of active buildings, bringing

Integration of RES in Buildings and Demand Response	elements in support of stepwise deep renovation of the EU building stock", which emphasised frameworks and measures supporting stepwise deep renovation in the EU.	together experts to discuss innovative approaches and future collaborations in energy performance assessments.
D^2EPC workshop: Integrating human comfort into energy certification	08 June 2022, virtual; Vivian Dorizas from BPIE presented iBRoad2EPC and its indoor environmental quality (IEQ) module.	During the D^2EPC workshop "Building performance assessment towards Next generation EPCs" on 8 June a fruitful discussion took place about the necessity of enriching the Energy Performance Certificates with additional indicators, characterising the actual energy, comfort and indoor air quality, smartness and sustainability performance of buildings.
X-tendo and U-Cert final conference "The road to enhanced and future-proof energy performance certificates"	6 July 2022, Brussels; Zsolt Toth from BPIE participated in the programme and represented iBRoad2EPC in the Q&A/discussion.	The X-tendo and U-CERT final conference, held in July 2022, marked the conclusion of EU Horizon 2020-funded projects aimed at advancing energy performance certificates (EPCs). The event highlighted the achievements of the X-tendo and U-CERT projects, which focused on innovative approaches to building performance assessment, and discussed the future of EPCs at both the EU and national levels. The conference featured presentations, panel discussions, and poster sessions, offering insights into next-generation EPCs and their role in enhancing energy efficiency across Europe.
Sustainable Places 2022	6-9 September 2022, Nice France; Alexander Deliyannis from Sympraxis represented iBRoad2EPC in the panel discussion	The members of the Next Generation EPCs cluster of projects joined forces with FRESCO, BEYOND and MODERATE projects and brought together a few guest speakers to set the scene on the topic of measuring building performance and adding operational rating to the already commonly used asset rating in the EPBD related Energy Performance Assessment and Certification Schemes, against the backdrop of the ongoing EPBD revision.
EUSEW 2022: Long-term planning and digitalisation as key enablers for successful energy renovations	20 September 2022, virtual; Alice Corovessi from INZEB presented iBRoad2EPC	As part of the extended EUSEW programme, this session showed how future-proof planning and digitalisation can support authorities and citizens in reducing energy demand of EU buildings in the context of high energy prices, the EPBD revision and optimising living conditions by showcasing best practices and initiatives that are already in place at national, regional and building level to inspire further action.
Deep Renovation of buildings: what Energy Performance Certificates can do, QualDeEPC final Conference	15 November 2022, Brussels Belgium; Vivian Dorizas from BPIE represented iBRoad2EPC and participated in panel discussion "How can the projects of the Next Generation EPCs cluster use QualDeEPC's results to carry enhancements further? "	The event was the final conference of the QualDeEPC project, held on 15 November 2022. It focused on improving Energy Performance Certificate (EPC) schemes to accelerate deep building renovations in Europe. The event showcased new EPC templates, tools, and policy recommendations aimed at enhancing energy efficiency in buildings, featuring discussions with experts and representatives from various EU projects. The conference also explored how these improvements could support broader renovation efforts.

3 rd NDA workshop Next Generation EPCs cluster of projects	13 December 2022, online; Alexander Deliyannis presented iBRoad2EPC through an elevator pitch and led the discussions within the cluster on behalf of iBRoad2EPC. He contributed with specific outreach activities including the mapping of topical and geographical dimensions covered by sister projects.	Organised by REHVA on behalf of EPC-Recast. Internal workshop of the EPC cluster to explore synergies and join forces in implementing project results to maximise collective impact.
D ² EPC, E-DYCE & ePANACEA joint final conference Next Generation Energy Performance Assessment, Rating and Certification: Towards a Smart and Decarbonised Future for European Buildings	23 May 2023, Brussels Belgium; BPIE represented iBRoad2EPC	The event brought together numerous stakeholders from across Europe eager to gain insights into Next Generation EPCs. Specific EPC cluster project insights were presented, synthesised and discussed at a round table.
Grafting Cities, joint conference by Climate Alliance and Energy Cities	18-19 October 2023 in Modena, Italy; iBRoad2EPC Coordinator Alexander Deliyannis was invited by the Climate Alliance and Next Generation EPC Cluster project crossCert to contribute to the Energy Performance Focus Group organised by crossCert.	The Focus Group brought together experts from several organisations and projects, for an in-depth discussion on the evolution of EPCs.
TIMEPAC 2023 hybrid workshop: "Towards a dynamic and enhanced EPC: advanced procedures for building assessment and certification"	21 November 2023 in Vienna, Austria/hybrid; Sympraxis contributed a few lines on iBRoad2EPC as input to the session and presentation "Setting the scene: Making use of data repositories for generating renovation roadmaps." and related discussions.	The TIMEPAC 2023 hybrid workshop, held on 14-15 June 2023 in Vienna, focused on advancing the methodologies for Energy Performance Certificates (EPCs). The event brought together experts to discuss integrating dynamic EPCs with smart readiness indicators, digital tools, and data management strategies. Participants explored innovative approaches to enhancing building energy performance assessments, aiming to improve the accuracy and relevance of EPCs in supporting the EU's climate and energy goals.
4 th NDA workshop Next Generation EPCs cluster of projects	23 December 2023; online; Alexander Deliyannis and Marianna Papaglastra led the discussions within the cluster on behalf of iBRoad2EPC.	Organised by REHVA on behalf of EPC-Recast. Internal workshop of the EPC cluster to explore synergies and join forces in implementing project results to maximise collective impact.
crossCert webinar "Funding options for Energy-Efficient Building Renovations across Europe"	27 February 2024, virtual; ADENE partner Rui Fragoso was key speaker representing iBRoad2EPC	The "Funding Options for Energy-Efficient Building Renovations" webinar, hosted by crossCERT, explored various funding schemes across Europe and the crucial role of Energy Performance Certificates (EPCs). Key speakers discussed integrating funding programmes with regulatory frameworks, information centers, and training initiatives. The webinar emphasised the need for long-term funding plans and streamlined administrative processes to support effective building renovations, with EPCs playing a significant role in accessing these funds.

5 th NDA workshop Next Generation EPCs cluster of projects	18-19 March 2024, online; Alexander Deliyannis and Marianna Papaglastra participated and actively contributed to the discussions, undertaking to lead a working group on renovation passports and EPCs, as support to the Commission.	Organised by REHVA on behalf of EPC-Recast. Internal workshop of the EPC cluster to explore synergies and join forces in implementing project results to maximise collective impact.
EUSEW 2024	11 June 2024; Brussels Belgium; iBRoad2EPC featured by EPB Center per proxy	This policy session, organised by EPB Center and the Next Generation EPCs cluster of projects in collaboration with EPBD.wise, aimed to address the EU-wide transposition and practical implementation challenges of the EPBD Recast. It explored the complexities involved in aligning diverse legal and regulatory frameworks across EU Member States, integrating multiple stakeholder inputs, ensuring practicality and feasibility, harmonising efforts, and effectively disseminating information. The session made salient the results and ongoing work of the Next Generation EPCs cluster of projects and EPBD.wise projects.

EUROPEAN EVENTS, INCLUDING FINAL CONFERENCE

Consortium members have organised or participated in a total of 40 events –nine of which were organised by the consortium and 31 where one or more partners participated– either virtually or in person, throughout the project. These events where iBRoad2EPC was represented included conferences, workshops, training sessions, brokerage events, pitch events, trade fairs and activities, whether or not conducted in collaboration with other EU projects. A summary of some major events is presented below.

Third party EU level events

The project successfully maintained an ad hoc presence at major third-party EU-level events to disseminate iBRoad2EPC results. This included participation in three editions of the EU Sustainable Energy Week (EUSEW) in 2021, 2022, and 2024; and two editions of Sustainable Places in 2021 and 2022. The discussions at these events included insights on how EPCs can serve as a central reference for policy instruments and financing, promoting a holistic and future-proof approach to building energy efficiency. Additionally, sessions covered future-proof planning to support the implementation of minimum energy performance standards and deep renovation projects, while digital tools and data assisted both authorities and citizens in planning and executing building renovations. At these events, partners disseminated project findings, presented iBRoad2EPC and its specific modules, and participated in panel discussions and Q&A sessions. Partners participated in a range of significant EU-level events to advance discussions on energy performance certificates, building renovation passports, and energy efficiency. This included presentations and panel discussions at two plenary meetings of the Concerted Action on the Energy Performance of Buildings Directive (CA EPBD) in 2021 and 2023, a Web Workshop on Building Energy Performance Certificates – Convergent Evolution?! which focused on harmonising EU building performance assessments and other. iBRoad2EPC was also present with a booth at Enlit Europe in Milan and, at a later stage, at the Energy Efficiency in Buildings conference in Athens. The project was presented at the Residential Energy Efficiency Community of Practice Online Workshop on Building Renovation Passports, highlighting energy poverty issues in Greece. Participation extended to CLIMA 2022, the 14th REHVA HVAC World Congress, and the European Federation of Associations of Insulation Contractors (FESI) Autumn Meeting in Athens. At the Stand Up For Europe, Climate for Change Campaign in Brussels, project representatives contributed to discussions on sustainable cities and climate change. Representatives also engaged in Enlit 2022 in Frankfurt and the Smart Readiness Indicator's third plenary meeting in Brussels, where iBRoad2EPC was briefly mentioned. Additionally, the project was featured in the Path2LC Training, with a presentation and a workshop on integrating home electrical installation data into building performance instruments. Involvement continued with the BUS Forum in Sofia and the 10th Zero Emission Building Academy. Most recently, the iBRoad2EPC project was presenter at the Climate Action Network Europe, EPBD Workshop, focusing on Building Renovation Roadmaps (BRPs) for deep renovations and has reserved a place in Sustainable Places 2024.

Further details are mentioned in the following subsections.

EUSEW Sustainable Energy Days

2021 Edition

During [EUSEW 2021 Sustainable Energy Week](#), REHVA, BPIE, FEDARENE and Sympraxis Team, hosted by the BUILDUP portal, brought together key actors from the Next Generation EPCs cluster of projects for a lively and informative moderated panel discussion between the project's representatives. Two keynote speeches from DG ENER and BPIE set the scene, with a slightly enhanced focus on EU Member States and specifically decision-makers and influencers of the EPBD revision process. The event highlighted the integration of various Horizon 2020 projects, emphasising how EPCs can enhance building performance assessment and support the EU's climate goals. The discussion included insights on how EPCs can be used as a central reference for policy instruments and financing, promoting a holistic and future-proof approach to building energy efficiency.

Alexander Deliyannis from Sympraxis co-organised the event and represented iBRoad2EPC in the panel discussion

2022 Edition

iBRoad2EPC has been presented in an event as a part of the [EUSEW 2022 Sustainable Energy Week](#). This session demonstrated how future-proof planning and digitalisation supported authorities and citizens in reducing energy demand in EU buildings amidst high energy prices and the EPBD revision, by showcasing successful practices and initiatives at various levels. Future-proof planning supported the implementation of minimum energy performance standards and deep renovation projects, while digital tools and data assisted both authorities and citizens in planning and executing building renovations.

The agenda, recordings and the slides from the presentations can be accessed from here - https://european-sustainable-energy-week.b2match.io/agenda?session=c2Vzc2lvbjoxMjMxMzc%3D&topic_id=97&track_id=21187

Alice Corovessi from INZEB presented iBRoad2EPC – Building Renovation Passports – The iBRoad & iBRoad2EPC projects.

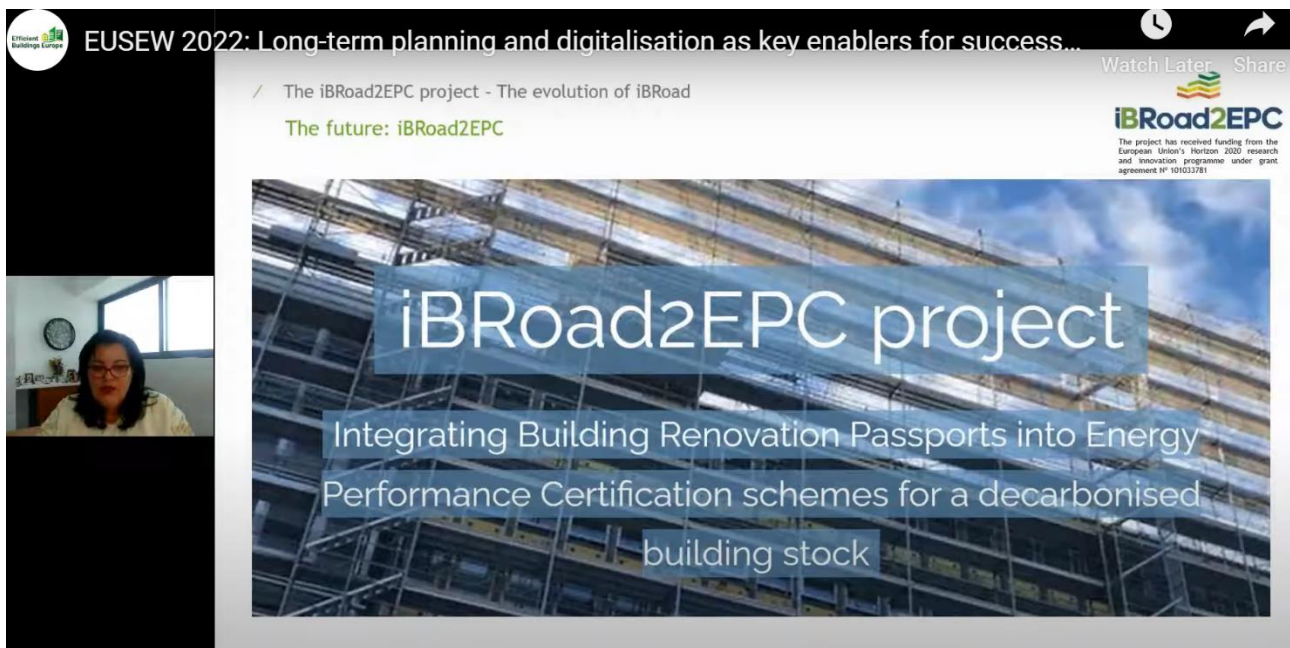


Figure 1: Screenshot from the webinar: Long-term planning and digitalisation as key enablers for successful energy renovations

2024 Edition

iBRoad2EPC has been presented at two occasions during the [EUSEW 2024 Sustainable Energy Days](#):

- In an event which “seeks to shine a spotlight on renovation roadmaps, emphasising the need for these communication instruments to be thoughtfully designed to accelerate renovations on a large scale. It emphasises the importance of combining technical and social expertise to ensure an inclusive approach, that focuses mostly on the most vulnerable citizens, aiming to leave no one behind. By coming together for this occasion, the four projects – [RENOVERTY](#), [iBRoad2EPC](#), [RENOCALLY](#), and [GREEN Home](#) – will unveil their recent results related to the development of effective renovation roadmaps in each case under study.” The agenda, recordings and the slides from the presentations can be accessed from here: <https://ieecp.org/events/renovation-roadmaps-transforming-europes-building-landscape-to-leave-no-one-behind/>

Emily Bankert from BPIE presented *iBRoad2EPC – the missing link between EPCs and the renovation passport?*

- At a policy session, organised by EPB Center and the Next Generation EPCs cluster of projects in collaboration with EPBD.wise, aimed to address the EU-wide transposition and practical implementation challenges of the EPBD Recast. It explored the complexities involved in aligning diverse legal and regulatory frameworks across EU Member States, integrating multiple stakeholder inputs, ensuring practicality and feasibility, harmonising efforts, and effectively disseminating information. The session made salient the results and ongoing work of the Next Generation EPC cluster of projects and EPBD.wise.

iBRoad2EPC was featured by EPB Center per proxy



Fig.2: Screenshot from joint webinar *Renovation Roadmaps: Transforming Europe's Building Landscape to Leave No One Behind*

ECEEE Summer Study

2022 Edition

Peter Mellwig from ifeu presented a peer reviewed paper [iBRoad2EPC – Upgrading EPCs to support Europe's climate ambitions](#) at the ECEEE Summer Study 2022. This paper presents the conceptualisation and design of integrating BRP elements into EPCs. This comprises the question of information depth in the iBRoad2EPC which is determined by the targeted market coverage on the one hand and by the effort that the required added information causes on the other hand. As the aims of EPCs differ slightly across the Member States, information depth of the iBRoad2EPC has to adapt flexibly to the specific country requirements. The paper also presents the BRP and Building Logbook developed in the predecessor project iBRoad.

2024 Edition

Peter Mellwig from ifeu presented a peer reviewed paper [iBRoad2EPC: Enhancing EPCs with BRP elements to accelerate deep renovation – implementation and alignment with national plans and incentive programmes](#) at the ECEEE Summer Study 2024. This paper introduces the iBRoad2EPC concept and shows how it could accelerate deep renovation by adapting the existing EPC schemes to the needs of Member States, through deeper and more targeted consultation, linkage with existing energy-related programmes and instruments, and incentive schemes. It examines the current use of EPCs in incentive programmes and how the iBRoad2EPC approach can help in designing better incentive programmes in the six iBRoad2EPC pilot countries – Bulgaria, Greece, Spain, Poland, Portugal and Romania – based on a literature review and qualitative input from country experts.



Figure 3: Peter Mellwig presenting iBRoad2EPC at ECEEE Summer Study 2024

Sustainable Places

2021 Edition

As part of Sustainable Places 2021, iBRoad2EPC participated in a virtual workshop, [Building Energy Performance Certificates: The Enabler Smart Readiness Indicator](#) on 19 November 2021. The workshop focused on integrating Energy Performance Certificates (EPCs) with the Smart Readiness Indicator (SRI) to support the digital transformation and sustainable development of the EU's building stock. EPCs were highlighted as central to the EPBD, linking various policy instruments and enabling coherent frameworks for assessing and certifying building performance, ultimately contributing to achieving the EU's climate and energy goals by 2050. It also focused on the Smart Readiness Indicator (SRI) implementation and future-proofing at EU and national levels. It brought together experts to support the European Commission and Member States in national SRI testing and developing an integrated energy performance framework for buildings. The workshop emphasised co-creation to maximise quality and effectiveness, aiming to achieve digital transformation of the EU's building stock for healthy, efficient, and zero-emission buildings by 2050. **Alexander Deliyannis from SYMPRAXIS represented iBRoad2EPC and participated in a panel discussion and Q&A session.**

2022 Edition

As part of Sustainable Places 2022, iBRoad2EPC participated in a Next Generation EPCs cluster of projects hybrid workshop on [Measuring Building Performance and Operational Rating](#) on 7 September 2024. Against the backdrop of the ongoing EPBD revision at the EU level, the Next Generation EPCs cluster of projects collaborated with the FRESCO, BEYOND, and MODERATE projects to discuss measuring building performance and adding operational ratings to the EPBD's Energy Performance Assessment and Certification Schemes. This workshop aimed to create an open co-creation process to enhance the quality, relevance, and effectiveness of policies, supporting the digital transformation of the EU's building stock. The outcome emphasised the need for a coordinated approach to achieve the EU's climate and energy goals, ensuring buildings are healthy, safe, efficient, and zero-emission by 2050. **Alexander Deliyannis from SYMPRAXIS presented a pitch for iBRoad2EPC.**

C4E Forum

At a panel titled "Governments leading in climate policies" chaired by Rockwool, Alexander Deliyannis from Sympraxis presented how iBRoad and iBRoad2EPC can support implementation.

CA EPBD Plenary meetings

Sixth Plenary Meeting of the Concerted Action V on Energy Performance Buildings Directive (EPBD)

The iBRoad2EPC concept and approach was presented, upon invitation, by Marianna Papaglastra, Sympraxis, at the Sixth Plenary Meeting of the Concerted Action V on the Energy Performance Buildings Directive (CA EPBD) on 9 December 2021, under the session “Linking finance & EPCs for energy renovations with energy savings”. The session was opened by representatives from DG ENER, followed by presentations from iBRoad2EPC and EPC RECAST. Both projects participated in a panel discussion together with DG ENER.

First Plenary Meeting of the Concerted Action VI on Energy Performance Buildings Directive (EPBD)

iBRoad2EPC was discussed at a session on renovation passports under the topical lead of ADENE on 18 April 2023 at the First Plenary Meeting of the Concerted Action VI on the Energy Performance Buildings Directive (CA EPBD).

Other events

Other events where iBRoad2EPC participated are shown in Table 2.

Table 2: List of EU-level events

Event title	Date and place	Event summary
Web workshop Building Energy Performance Certificates: Convergent evolution?!	01 July 2021 Web workshop	The "Building Energy Performance Certificates – Convergent Evolution?!" workshop discussed harmonising building performance assessments across the EU. Featuring the EPC RECAST project and other H2020 initiatives, it focused on developing a unified framework for Energy Performance Certificates (EPCs) to support the EU's climate goals and digital transformation of buildings. The workshop emphasised leveraging existing standards and fostering collaboration to enhance building performance coherence. iBRoad2EPC participated in this workshop.
Residential Energy Efficiency (REE) Community of Practice Online Workshop	02 March 2022 Virtual	At the "REE Community of Practice Online Workshop", Alice Corovessi from INZEB participated and presented on Building Renovation Passports within the iBRoad and iBRoad2EPC projects. The focus was on supporting residential energy efficiency and addressing energy poverty in Greece. She shared survey results highlighting citizens' needs and priorities for tackling energy poverty, aiming to raise awareness and inform future initiatives.
CLIMA 2022: the 14th REHVA HVAC World Congress	May 2022, Rotterdam, Netherlands	CLIMA 2022 was an international scientific conference held in Rotterdam, focused on advancements in heating, ventilation, and air conditioning (HVAC). Experts from around the world gathered to discuss energy efficiency, smart building technologies, and indoor environmental quality, aiming to inspire innovation and promote sustainable practices in the industry. Project partners participated and represented iBRoad2EPC.
European Federation of Associations of Insulation Contractors Autumn Meeting 2022	7 October 2022 Athens, Greece	The "European Federation of Associations of Insulation Contractors (FESI) autumn meeting" was held in Athens, Greece, on 6&7 October 2022. Hosted by the Hellenic Association of Insulation Companies, the event featured INZEB's Managing Director, Alice Corovessi. She discussed the connection between buildings, energy use, and the energy crisis, emphasising the revision of the EPBD 2021. She highlighted the role of Building Renovation Passports and Energy Performance Certificates as promoted by the iBRoad and iBRoad2EPC projects in enhancing energy performance schemes and certifications.

Stand Up For Europe, Climate for Change Campaign	26 October 2022 Brussels, Belgium	On 26 October 2022, from 9:30 to 15:30 CET, a free event was held at Stam Europa in collaboration with Association Européenne pour la Démocratie Locale (ALDA) and Veltha as part of the "Climate of Change" campaign. The event featured expert panelists discussing how to tackle climate change in the construction and sustainable cities sectors. Among the speakers was Paraskevi Vivian Dorizas, Programme Manager at BPIE – Buildings Performance Institute Europe, who contributed to the discussions with her expertise.
Enlit	29 - 1 November 2022 Frankfurt, Germany	The event brought together energy professionals and focused on innovations like smart meter gateways and powerline communications, addressing key challenges in the energy sector such as grid observability and e-mobility solutions. It provided a platform for showcasing cutting-edge technologies aimed at driving the energy transition. Project partners participated and represented iBRoad2EPC.
Smart Readiness Indicator – Third plenary meeting	22 March 2023 Brussels, Belgium/hybrid	Hosted by the European Commission, the meeting provided updates on SRI policy, test phases in various EU countries, and progress from four LIFE projects. Expert working groups discussed the SRI calculation methodology and support measures, while survey results on SRI implementation were shared. The event served as a platform for stakeholders to exchange knowledge and foster collaboration. iBRoad2EPC was briefly mentioned in the SRI2MARKET presentation (where ADENE is also a partner)
Path2LC Training – Learning Municipality Networks	28 March 2022 Virtual	TU Wien is a common partner in the project. During the virtual training session, iBRoad2EPC and the concept of staged renovation and building renovation passports were presented.
Workshop: Home electrical installation data – A missing piece in EPC and other building performance instruments	27 April 2023 Virtual	ifeu presented the iBRoad2EPC and the concept of staged renovation and BRP as well as the approaches to include additional building equipment in iBRoad2EPC.
15th Build Up Skills Europe (BUS EU) Exchange Meeting	26 October 2023 Sofia, Bulgaria	Dragomir Tzanev from EnEffect presented iBRoad2EPC project results, during his presentation on the topic of learning approaches for new generation EPCs and the SRI during the first day of the meeting.
10th Zero Emission Building Academy	28 March 2024 Virtual	In the event, “Decarbonising the EU building stock under the EPBD: Bringing together Energy Performance Certificates and Renovation Passports”, Peter Mellwig from ifeu presented the iBRoad2EPC and the concept of staged renovation and BRP as well as the approaches to include additional building equipment in iBRoad2EPC.
Climate Action Network Europe, EPBD Workshop	20 July 2024 Virtual	Peter Mellwig, ifeu, presented the iBRoad2EPC project: Using Building Renovation Roadmaps (BRPs) to enable deep renovations
Energy Efficiency in Buildings Conference	5 April 2024 Athens, Greece	Project coordinator Sympraxis held a booth with a roll up banner, flyers and information on iBRoad2EPC during this important full day conference on energy efficiency in buildings.

Dedicated final conference

Under the lead coordination of Sympraxis, four EU-funded Horizon 2020 projects – [crossCert](#), [EPC RECAST](#), [EUB SuperHub](#) and [iBRoad2EPC](#)– joined forces in organising a final conference titled “**Next Generation Energy Performance Certificates Conference – EPBD recast edition**”. The event was held on 23 May 2024, physically at Mundo Madou in Brussels, and live streamed online. The aim of the conference was for the projects to bring forward valuable insights and applicable outcomes in the context of the 2024 recast Energy Performance of Buildings Directive and to discuss these with their peers.

The conference was coordinated and timed to follow two related Brussels events, namely the CINEA [Cross-programme Buildings Clustering Meeting](#) (21-22 May) and the [tunES](#) project event [Tuning EPC and SRI Practices and methods to analyse national challenges](#) (22 May, afternoon).

The conference was organised in four parts, starting with the policy context, moving onto overall project outcomes, then focusing on specific Key Exploitable Results, and concluding with extensive discussions with national energy agencies and market representatives.

The event was live-streamed and recorded and is now available to be watched on demand.

A full event summary including related material can be found in Annex IV.

The conference brought together more than 90 physical participants and at least as many online viewers.

All project partners were physically present, with partners INZEB and ADENE in a moderating position, partners BPIE, Sympraxis (x4) and ifeu as speakers/presenters, and partner KAPE taking part in one of the panel discussions.



Figure 4: Pau Garcia Audi, from the European Commission, DG ENER/B.3, on the recast Energy Performance of Buildings Directive and broader regulatory framework at the Next Generation Energy Performance Certificates Conference – EPBD recast edition



Figure 5: Sylvain Robert, Project Manager at CINEA, on relevant Horizon 2020, Horizon Europe and LIFE calls for proposals funding and the respective projects at the Next Generation Energy Performance Certificates Conference – EPBD recast edition



Figure 6: Alexander Deliyannis, Sympraxis, iBRoad2EPC Coordinator, introducing the project early on during the Next Generation Energy Performance Certificates Conference – EPBD recast edition.



Figure 7: Marianna Papaglastra, Sympraxis, on Overview of insights and outcomes from the iBRoad2EPC project at the Next Generation Energy Performance Certificates Conference – EPBD recast edition



Figure 8: Peter Mellwig, ifeu on iBRoad2EPC key outputs at the Next Generation Energy Performance Certificates Conference – EPBD recast edition



Figure 9: Partner Rui Fragoso, ADENE moderating the Panel “From project results to EPBD implementation: The Energy Agencies perspective” at the “Next Generation Energy Performance Certificates Conference – EPBD recast edition” with representation of The Polish National Energy Conservation Agency by iBRoad2EPC partner KAPE Karolina Junak.



Figure 10: Part of the “Next Generation Energy Performance Certificates Conference – EPBD recast edition” conference Q&A and discussion: Relevant points raised by Horia Petran from iBRoad2EPC partner INCD URBAN-INCERC.

SUCCESS FACTORS AND OUTCOMES

By organising and participating in various events, iBRoad2EPC has significantly advanced the discourse on deep renovation and energy performance certification across the EU. The project's findings and methodologies have been widely disseminated through think pieces, press releases, and targeted social media campaigns, enhancing visibility and raising awareness among policymakers, industry experts, and the public. Key partnerships with EU platforms and collaborative networks have further amplified these efforts, facilitating joint events and discussions that highlight iBRoad2EPC's contributions and insights.

Moreover, the project has played a pivotal role in influencing policy and practice by contributing to the EU Roadmap to Policymakers and participating in workshops focused on the 2024 Energy Performance of Buildings Directive (EPBD) recast. Through active engagement in the Next Generation EPCs cluster of projects, iBRoad2EPC has fostered valuable collaborations and shared innovative tools and frameworks, in particular for the link between EPCs and renovation passports. These efforts have not only supported the integration of new indicators and methodologies into EPCs but also built a network of stakeholders, driving progress towards more effective and comprehensive renovation strategies in the EU.

By organising and participating in 40 events, the iBRoad2EPC project has effectively disseminated its results and raised awareness about the role of Energy Performance Certificates (EPCs) and Building Renovation Passports (BRPs). These events provided platforms for meaningful discussions on advancing building energy efficiency, digital tools for renovations, and aligning policy instruments with future-proof building standards. Major achievements include contributing to EU policy dialogues, fostering collaboration with other EU projects, and promoting the iBRoad2EPC modules to policymakers, industry experts, and citizens at conferences such as the EU Sustainable Energy Week, the Sustainable Places conference, and ECEEE.

ANNEX I: THINK PIECE

A blueprint for success: How a modular renovation passport can accelerate deep renovation

[The building stock is far off track](#) to achieve climate neutrality by 2050. Beyond decarbonisation, we also know that the [negative consequences of unrenovated buildings on human health](#) are significant, and rising energy prices are having a significant negative impact on [citizens' purchasing power](#).

The 2024 recast of the Energy Performance of Buildings Directive (EPBD) has responded to this, laying the framework for an ecosystem of tools that should in principle upscale deep renovation, fast. Among other elements, for the first time ever, it introduces a framework for renovation passports in Article 12 as a voluntary tool, to facilitate and simplify the renovation process for building owners.

Renovation passports – a valuable tool for decision making in the renovation journey and asset valuation

The renovation passport is a valuable tool for building owners and investors to make informed decisions. It provides high-quality recommendations for staged deep renovations and actionable information to implement them.

[Financial actors](#) could use renovation passports as a fundamental tool for asset valuation and link them to green mortgage programmes, taking advantage of the ongoing programmes and in line with the EU taxonomy. The integration of EPC and renovation passports with incentive programmes could improve their effectiveness by (1) prescribing clearer guidelines for public administrations on what renovation interventions should be incentivised with priority; (2) tying the exact amount of funds to specific and measurable energy improvements; and (3) providing building owners with clear, reliable and actionable information, thus making renovations more accessible.

Member States are now required to establish a scheme of renovation passports based on the common framework set out in EPBD Annex VIII, effectively enabling owners and investors to plan their renovation measures over time to transform existing buildings into Zero-Emission Buildings (ZEBs) well before 2050. In addition, the EPBD recognises the potential synergies between renovation passports and Energy Performance Certificates (EPCs) and encourages their joint development and issuance.

iBRoad2EPC: effective EPBD compliance through a modular approach

The [iBRoad2EPC](#) project, funded by the EU's Horizon 2020 programme, developed an affordable, adaptable and modular renovation passport that helps Member States meet most of the mandatory and optional requirements for renovation passports listed in EPBD Annex VIII, according to their national priorities and targets. This approach also helps Member States to bridge the gap between EPCs and renovation passports, integrating them to motivate building owners to undertake staged deep renovations.

A user-friendly web interface at the front-end of the iBRoad2EPC renovation passport guides energy professionals through the data entry and editing process. The back-end tool of the renovation passport produces standardised online, but printable, output documents that are easier to navigate and update than paper formats. Building owners receive high quality recommendations consistent with the deep renovation and national building renovation plans. The renovation passport can be issued as an attachment to the EPC or as an additional output page through a URL or QR code in their EPC. It offers a Basic Module which incorporates the staged deep renovation advice as an output. Additionally, upon demand, add-on modules currently include the Investment Cost module, Energy Demand module, Indoor Environmental Quality module (IEQ), Smart Readiness Indicator module (SRI) and Measured Energy Performance Indicator module (MEPI). Other modules can be added into the basic application as needed. The modular structure allows easy integration with other existing tools such as EPC software and databases through Extensible Markup Language (XML), XLS, or Application Programming Interface (API) integration.

Critical lessons and priorities for effective implementation of renovation passports

Experience in the six iBRoad2EPC pilot countries highlight [main results](#), critical lessons and priority actions for effective implementation of renovation passports. Member States can benefit from understanding these key priorities

and enablers for national roll-out. By focusing on these insights, Member States can efficiently adapt the iBRoad2EPC concept to their own priorities and advance the implementation of renovation passports to support the achievement of their climate targets.

Awareness & information: National campaigns are crucial to promote deep renovation benefits and increase trust in tools like the EPC and the renovation passport, emphasising non-energy benefits such as indoor environmental quality and health alongside energy efficiency to enhance public perception and stakeholder buy-in.

Market introduction & training: Clear strategies for the adoption of renovation passports, focusing on capacity-building among energy auditors, construction professionals, and municipalities are needed. Training initiatives should support large-scale certification and renovation efforts.

Requirements for in-person onsite visits: It is necessary to ensure that both EPCs and renovation passports are issued following an onsite visit to improve the quality of data and the condition of the building. This approach will enable tailored renovation advice and enhance trust in the certification process.

Integration with EPCs: Positioning renovation passports within existing EPC frameworks is key. For example, there is a strategic market placement of the iBRoad2EPC renovation passport for every Member State, based on their existing and envisaged policy framework: iBRoad2EPC can be integrated as a mandatory component of the EPC, as a voluntary complement of the EPC, as a standalone tool, or anything in between.

Tools/Platforms: A user-friendly digital platform, like the iBRoad2EPC renovation passport assistant, is needed to create and manage passports.

Linkages with EPC databases: Seamless integration of the renovation passport with existing national EPC databases and frameworks will provide reliable information, avoid duplication and leverage on existing infrastructure. Ensure compatibility with various data sources to support efficient renovation planning and implementation.

Financial incentives: Access to financial support for deep renovations, including for renovation passports and implementation of recommended measures, needs to be simplified. Prioritise support for vulnerable groups to encourage widespread uptake of deep renovation measures.

As the transposition and implementation phase of key EU directives, such as the Energy Performance of Buildings Directive, the Renewable Energy Directive and the Energy Efficiency Directive, are imminent, Member States should take hold of out-of-the-box solutions like that offered by iBRoad2EPC. [A recent EU roadmap from BPIE](#) shows how Member States can use the iBRoad2EPC renovation passport to support the implementation of the EPBD and other key directives.

The ball is now in the court of the Member States to implement effective solutions, who have two years (until 29 May 2026) to establish a renovation passport scheme. Member States should seek not only to comply with EPBD requirements, but to ensure the tools they develop in this time will achieve maximum impact. iBRoad2EPC offers a novel solution for renovation passports that enables Member States to comply with – and go well beyond – EPBD requirements. The blueprint for success is there – it's now time to transform this vision into reality.

ANNEX II: FINAL PRESS RELEASE



iBRoad2EPC

Positive perspectives for the iBRoad2EPC model Renovation Passport following field testing in six EU countries

Field studies confirm iBRoad2EPC as a useful tool supporting the deep renovation of the EU building stock under the provisions of the 2024 Energy Performance of Buildings Directive (EPBD) recast.

Press release, Brussels 29/08/2024

Energy experts in Bulgaria, Greece, Portugal, Romania and Spain have successfully tested and positively assessed the iBRoad2EPC model building Renovation Passport, developed as part of the iBRoad2EPC Horizon 2020 funded project. The comprehensive field test involved 48 energy experts and 37 building owners who evaluated the application of iBRoad2EPC in 57 residential and non-residential buildings between July 2023 and March 2024. Energy experts found iBRoad2EPC easy to use, and building owners found the output extremely informative and useful in planning a step-wise deep renovation of their building. Overall, the field test demonstrates that the iBRoad2EPC Renovation Passport, together with the Energy Performance Certificate, has significant potential to support the implementation of the 2024 EPBD recast and help meet the EU's building decarbonisation targets.

THE TOOL

The ambition of the iBRoad2EPC project has been to develop a capable tool that is sufficiently flexible and affordable to trigger a major increase in the number of deep (nearly zero or zero emissions) building renovations, across varying country contexts. In this sense, it was conceived as a complement to existing national Energy Performance Certificate (EPC) schemes, to be jointly issued by a qualified or certified energy expert, following an on-site visit.

The developed iBRoad2EPC is a flexible model Renovation Passport that brings together the benefits of the EPC, as an established tool to assess the energy performance of a building, with those of a tailored roadmap for its deep renovation in a maximum number of steps, significantly improving the building's energy performance. Adding new components to this combined approach—covering, e.g., Energy Demand, Investment Cost, Smart Readiness, Indoor Environmental Quality, Measured Energy Performance and others—iBRoad2EPC aims to give renovation a significant push and contribute to the improvement of the energy performance of European buildings, while providing for health, comfort, cost-effectiveness and energy security.

Designed as a modular tool, the iBRoad2EPC Renovation Passport allows adaptation to various existing EPC schemes or country-specific ambitions and contexts. Such flexibility is now reflected in the provisions of the 2024 EPBD recast that allow Member States to determine the extent to which Renovation Passports and EPCs should be linked. As such, the results of the iBRoad2EPC project are highly relevant and provide Member States with a set of solutions that can be immediately applied to the transposition and/or implementation of this, as well as other, important EU policy instruments.

TESTING

A field test in six pilot countries (Bulgaria, Greece, Poland, Portugal, Romania and Spain) examined how iBRoad2EPC is perceived by relevant end-users (energy experts and building owners/building managers).

Prior to field testing, a total of 202 energy experts in the six pilot countries were trained on how to issue the iBRoad2EPC. The overall evaluation following the training showed predominantly positive feedback:

- 86 % of trained experts saw potential in merging iBRoad2EPC and EPCs
- 91 % said they would offer an iBRoad2EPC to their clients

Of the energy experts trained, in total 48 participated in the field test and issued 57 iBRoad2EPCs, covering a built area of almost 280,000 m², of both residential and non-residential buildings, with particular focus on public buildings. An overview and main highlights of the iBRoad2EPC field test are summarised in Table 1 (see next page).

OUTCOMES

The experience of the experts and the building owners/building managers who took part in the testing was collected through a survey. The key findings of the evaluation are the following:

- 85 % of the experts and 70 % of the owners said that iBRoad2EPC provides the building user/owner with very or extremely useful information.
- 87 % of the experts and 78% of the owners said that iBRoad2EPC provides the building user/owner with an outline of a long-term renovation plan for their building.
- 98 % of the experts and 83 % of the owners found the detailed description of single renovation steps in iBRoad2EPC very or extremely useful.
- The highest rated feature of iBRoad2EPC was the description of preparatory measures for later renovation steps (notes to avoid lock-ins), with 37 % of the experts rating these extremely useful, and another 46 % very useful.
- At least half of the building owners felt motivated to conduct concrete renovation measures through the iBRoad2EPC, while 63 % of the experts believe the tool will motivate owners to renovate.
- 91 % of the experts would recommend the tool to their clients and 93 % to their colleagues
- 80 % of the building owners would recommend the tool to other building owners
- Both experts and owners favoured the voluntary integration of iBRoad2EPC alongside the EPC, reflecting the tool's potential to enhance energy efficiency and cost-effectiveness in building renovations.
- In terms of pricing, 35 % of the experts and 31 % of the building owners consider a surcharge of more than 100 % on top of the price of the EPC to be reasonable. This demonstrates the perceived value and potential of iBRoad2EPC in contributing to energy-efficient renovations and climate protection.

Table 1: Overview and main highlights of the iBRoad2EPC field test.

country	# energy experts	# buildings	type of buildings	m ²	# regions	# climatic zones	project partner	Main highlights
Bulgaria	13	13	Multi-family buildings, Research and education buildings, Sports buildings, Office buildings, Administrative buildings	43,146	4	3	Center for Energy Efficiency - EnEffect	Among others, the homeowners in 3 multi-family buildings now have the opportunity to improve the energy efficiency in their buildings even further, after participating in a national financing programme.
Greece	3	9	City halls, Cultural centres	12,894	4	2	INZEB	Field tested buildings in Greece include schools, city halls and cultural centers in Thessaly and Attica. Testing has recently been (and/or is still being expanded) with public buildings in the area of Chania, Crete, as well as major landmarks like the building of the research centre EKETA in Ptolemaida and the BENAKI museum in Athens which is widely recognised and protected as a cultural heritage.
Poland	10	10	Multi-family buildings, Office buildings, Administrative buildings, Sports buildings	20,400	1	1	The Polish National Energy Conservation Agency - KAPE	In order to test the versatility of iBRoad2EPC, multi-family dwellings representing typical building types in Poland were selected for the field test.
Portugal	10	10	Office buildings, Research and education buildings	46,340	3	2	Agência para a Energia - ADENE	Headquarters of the Construção Pública E.P.E. office building with more than 30.000 m2 floor area. This is the entity responsible for programmes and projects for construction, requalification, maintenance and conservation of public buildings and equipment, with a focus on schools. The proposed upgrade of the building relates to a total refurbishment of the heating and cooling systems together with an advanced Building Automation and Control System, improving the building from C to B class and removing fossil fuel use in location. The SRI value will be upgraded from 4.1 to 83.9 and IEQ from 4.6 to 6.0. Privately rented small multi-family apartment building in an old neighbourhood of Lisbon. Likely energy poverty situation of the residents combined with building pathologies. The iBRoad2EPC renovation passport suggests a path for renovation from energy label F to A+ in a total of 4 steps by 2050 at a relatively low cost of 3.700€ per dwelling, per step.
Romania	2	5	Research and education buildings, Office buildings, Multi-family buildings	2,335	2	2	INCD URBAN-INCERC	One school, one municipal office building and three residential buildings have been tested in the elaboration of the roadmap for nZEB renovation.
Spain	10	10	Multi-family buildings, Office buildings, Administrative buildings, Sports buildings	155,380	3	3	Cíclica Arquitectura SCCL - Cíclica & Green Building Council España - GBCE	Three major public buildings and seven multi-family buildings have participated in this testing to discover their potential for long-term improvement.

ADDITIONAL INSIGHTS

Some other interesting outcomes of the survey are summarised below.

- Building owners reported that their main motivation for renovating is to save on energy costs, followed by introducing qualitative improvements to their building and contributing to climate change mitigation. While energy and cost considerations were important across all pilot countries, climate protection was more important in some than in others; this suggests different national priorities. During the development of iBRoad2EPC, cost-effectiveness was not the priority focus, because cost-effective renovations do not always meet climate targets: there is a clear discrepancy between renovation costs and incentives on one hand, energy and CO₂ pricing on the other. However, to meet the market demand for information on cost savings through renovation, as evidenced in the field tests, a more detailed cost calculation for the first renovation step can be implemented in iBRoad2EPC as an additional improvement. The short timespan until this first step allows for more reliable predictions and increases the confidence in the results of such a cost calculation.
- Building owners and property managers are largely supportive of the mandatory on-site visit component of iBRoad2EPC, despite the extra work involved for the experts.
- Overall, end users agree on the usefulness of iBRoad2EPC for multi-family and public/administrative buildings, recognising its ability to provide essential insights for long-term renovation planning and proactive mitigation of lock-in situations. Feedback from energy experts and building owners, alongside considerations for the iBRoad2EPC pricing structures, underscore the perceived value and potential of iBRoad2EPC in facilitating energy-efficient renovations and climate change mitigation efforts.

FURTHER READING

- The iBRoad2EPC overall concept is described in the report *“Conceptualising iBRoad2EPC — How Energy Performance Certificates (EPCs) can be upgraded with Building Renovation Passport (BRP) elements”*.
- Material on how to use iBRoad2EPC is available as part of the *“iBRoad2EPC training toolkit”*.
- For the full iBRoad2EPC training evaluation please see the report *“Evaluation of iBRoad2EPC training”*.
- The full iBRoad2EPC test results are included in the report *“iBRoad2EPC field test results”*.
- Guidance for policy makers on how to maximise the use of iBRoad2EPC and best prepare the ground for the transposition of the EPBD recast, in terms of the design and uptake of a Renovation Passport to accelerate deep renovation, is available in the report *“Accelerating deep renovation in the EU with Renovation Passports — EU roadmap proposing concrete measures to maximise the uptake of iBRoad2EPC schemes”*. This also includes a detailed analysis which shows the iBRoad2EPC solution for each relevant article of the EPBD recast.
- The iBRoad2EPC report *“Enhancing incentives through iBRoad2EPC — How to best use financial and non-financial incentives for renovation in implementing markets”* lists various examples of incentives linked with EPCs or improvements in energy performance and offers ways to best use iBRoad2EPC in incentive schemes for renovation.
- National guides on the roll out of iBRoad2EPC in the six implementing countries are included in the report *“iBRoad2EPC: Public authorities views on the integration potential”*.

The iBRoad2EPC series of useful resources can be accessed at the iBRoad2EPC website www.ibroad2epc.eu.

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ANNEX III: INDICATIVE SOCIAL MEDIA MESSAGES

 Horizon 2020 iBRoad2EPC project
230 followers
22h · Edited · 

💡 iBRoad2EPC Advisory Package for #publicauthorities - the third iBRoad2EPC #training toolkit!

<https://lnkd.in/dgbENrRn>


This Advisory Package is specifically designed for public authorities involved in #planning, #design, #implementation and #monitoring of #energy-related programmes to enhance their expertise, capacity and access to resources for the design and implementation of efficient #deeprenovation policies through the integration of #EPCs and #renovationpassports.

The other iBRoad2EPC training includes:


- 👉 training toolkit for energy assessors: <https://lnkd.in/dTrvcBrW>
- 👉 training construction professionals: <https://lnkd.in/dKsFYzWE>


Center for Energy Efficiency EnEffect


#EPBD #EED #RED #EUGreenDeal #Fitfor55 #Renovationwave #buildings
#energypolicy #climateaction #energyefficiency #energyperformance
#Horizon2020 #HorizonEurope



Integrating Building Renovation Passports into Energy Performance Certification schemes for a decarbonised building stock




 with You and 19 others
Advisory Package for public authorities


 Horia Petran and 11 others

<https://www.linkedin.com/feed/update/urn:li:activity:7237084854327144448>

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3d • 

 Roadmap launch – How to accelerate deep renovation in the EU with the iBRoad2EPC renovation passport 

 <https://lnkd.in/dCpqY-Y6>

 iBRoad2EPC is a ready to use model [#renovationpassport](#), designed to integrate within varying contexts. It already complies with 11 out of 14 mandatory requirements and 7 out of 15 optional requirements for Renovation Passports set out in Annex VIII of the [#EPBD](#) recast and supports implementation of key EU Directives 



This roadmap provides guidance to policymakers on how to optimally prepare the ground for national roll-out and maximise the use of iBRoad2EPC to accelerate [#deeperenovation](#) and achieve the EU's [#decarbonisation](#) goals 

BPiE - Buildings Performance Institute Europe
Sympraxis Team

[#EPBD](#) [#EED](#) [#RED](#) [#EPCs](#) [#EUGreenDeal](#) [#Fitfor55](#) [#Renovationwave](#), [#buildings](#), [#energypolicy](#) [#climateaction](#) [#energyefficiency](#) [#energyperformance](#) [#Horizon2020](#) [#HorizonEurope](#)



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👉 Positive perspectives for the iBRoad2EPC model [#renovationpassport](#) following field testing in six [#EU](#) countries

👉 <https://lnkd.in/d6zEtGWZ>

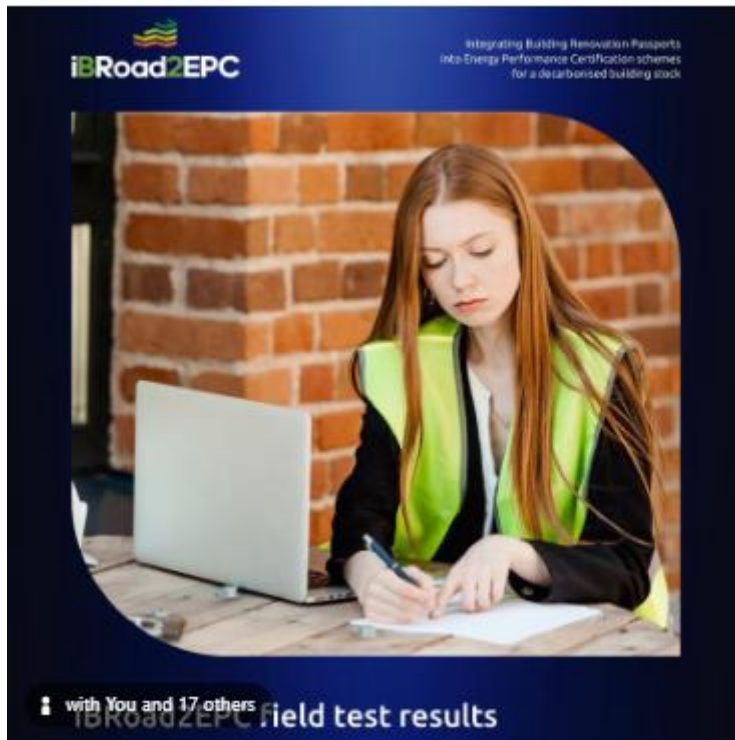
👉 Field studies confirm that the iBRoad2EPC [#renovationpassport](#) supports the [#deeprenovation](#) of the EU building stock under the provisions of the [#EPBD 2024](#) recast.

48 [#energy](#) experts and 37 [#building](#) owners in [#Bulgaria](#) [#Greece](#) [#Poland](#) [#Portugal](#) [#Romania](#) [#Spain](#) have successfully tested iBRoad2EPC in 57 [#residential](#) and [#nonresidential](#) buildings covering a built area of almost 280,000 m2 📄 🏠 🌟

Energy experts found iBRoad2EPC easy to use, and building owners found the output extremely informative and useful in planning a step-wise deep renovation of their building 🌟

Overall, the field test demonstrated that iBRoad2EPC, together with the [#EPC](#), has significant potential to catalyse [#decarbonisation](#) of the EU building stock 🌟

[#EPBD](#) [#EED](#) [#RED](#) [#EUGreenDeal](#) [#Fitfor55](#) [#Renovationwave](#), [#buildings](#), [#energypolicy](#) [#climateaction](#) [#energyefficiency](#), [#energyperformance](#), [#Horizon2020](#) [#HorizonEurope](#)



 Stellina Patelida and 13 others

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Horizon 2020 iBRoad2EPC project

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1mo •

The primary added value of #iBRoad2EPC is that it can significantly enhance the quality of #EPCs and the effectiveness and acceleration of #deeprenovations.

Financial and non-financial #incentives play a key role in facilitating deep renovations, which are associated with high costs 📉.


💡 This report shows how to make the most of such incentives for renovation using iBRoad2EPC in the project's 6 pilot countries (Bulgaria, Greece, Spain, Poland, Portugal and Romania).

🔗 https://lnkd.in/d5_fVP45

#buildings, #energyefficiency, #energyperformance, #certificate, #renovationpassport, #EPBD, #Fitfor55, #GreenDeal, #Horizon2020



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 Horizon 2020 iBRoad2EPC project
230 followers
2mo · 🌐

Renovation passports stimulate #deeprenovation in buildings 🏠 and #constructionprofessionals 🛠️ are key in designing and implementing renovation works 🙌.

💡 That's why the Horizon 2020 iBRoad2EPC project has developed #training for construction professionals that shows how to use the iBRoad2EPC renovation passport and integrate staged deep renovation in their daily practice.

Discover the different training modules here:
<https://lnkd.in/d/KsFYzWE>

#buildings, #energyefficiency, #energyperformance, #certificate, #renovationpassport, #EPBD, #Fitfor55, #GreenDeal, #Horizon2020



iBRoad2EPC
Integrating Building Renovation Passports
into Energy Performance Certification schemes
for a decarbonised building stock

**Training module for
with Ciclica Arquitectura SCCL and 9 others
construction professionals**

7 1 repost

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Horizon 2020 iBRoad2EPC project

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Did you know that **Horizon 2020 iBRoad2EPC project** has developed a training toolkit to teach energy assessors how to use our **#renovationpassport** to complement **#EnergyPerformanceCertificates**?

<https://lnkd.in/dTrvcBrW>

The toolkit includes:

- 📖 iBRoad2EPC handbook for energy auditors
- 📖 iBRoad2EPC training presentations for energy auditors
- 📖 Checklist for the preparation of the iBRoad2EPC on-site visit
- 📖 Blank template for the on-site visit

If you are an **#energy #expert** or an institution organising regular **#training** for energy experts or EPC issuers, go check 🌟 **Training toolkit – Horizon 2020 iBRoad2EPC project**

<https://lnkd.in/dTrvcBrW>

#buildings, #energyefficiency, #energyperformance, #certificate, #renovationpassport, #EPBDRecast, #Fitfor55, #GreenDeal, #Horizon2020



Alexander Deliyannis and 18 others

1 comment • 3 reposts

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Horizon 2020 iBRoad2EPC project

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Field #testing of the Horizon 2020 iBRoad2EPC project #renovationpassport completed in Poland.

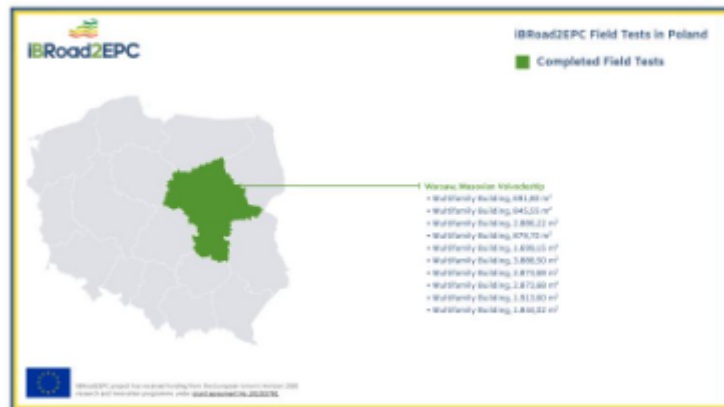
The tool was tested by 10 energy assessors in 10 buildings of a total floor area of 20,400 m².

The testing in Poland was led by project partner [The Polish National Energy Conservation Agency \(KAPE\)](#).

In order to test the versatility of iBRoad2EPC, multi-family dwellings representing typical building types in Poland were selected for the test.

Follow us to learn about the testing outcomes!

#buildings, #energyefficiency, #energysperformance, #certificate, #renovationpassport, #EPBDRecast, #Fitfor55, #GreenDeal, #Horizon2020



Jonathan Unit and 7 others

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 **Horizon 2020 iBRoad2EPC project**
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Last week, at the European Council for an Energy Efficient Economy (ecee), our partners from ifeu - Institut für Energie- und Umweltforschung Heidelberg gGmbH and BPIE - Buildings Performance Institute Europe presented how iBRoad2EPC complies with the requirements of the 2024 #EPBDrecast for #renovationpassports.

Project partners demonstrated that the Horizon 2020 iBRoad2EPC project provides solutions for EU countries to implement the #EPBDrecast to accelerate #deeprenovation and meet #decarbonisation targets. How? By introducing country-specific #renovationpassport schemes, improving energy advice, and linking to existing #EPCs, energy-related programmes, and incentives.

Follow all our developments here
👉 <https://lnkd.in/dDgH87pu>



#ECEE2024





👤 with Cícica Arquitectura SCCL and 10 others

👤 Alexander Deliyannis and 16 others

<https://www.linkedin.com/feed/update/urn:li:activity:7208923735536369664>

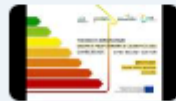
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Many thanks [EPC-RECAST](#) for the flash interview opportunity at the "Next Generation Energy Performance Certificates Conference - EPBD Recast Edition"!

 **EPC-RECAST**
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🔥 Did you miss the "Next Generation Energy Performance Certificates Conference – EPBD Recast Edition"? No worries! 🔥
This event, co-organised by [Horizon 2020 iBRoad2EPC project](#), [crossCert Project](#), [EPC-RECAST](#), and [#EUBSuperHub](#), was a fantastic opportunity to dive deep into the latest in EPC RECAST outcomes & the EPBD Recast!
🎤 We had the chance to interview the coordinators! Watch now:
<https://lnkd.in/d6yMDAiy>

Thank you all for the availability and support! [Alexander Deliyannis Norberto Fueyo](#) [Peter Gyuris Ulrike Nuscheler](#) [CINEA - European Climate, Infrastructure and Environment Executive Agency](#) [Olivier Greslou](#) [Geonardo Environmental Technologies](#) [Sympraxis Team](#) [Universidad de Zaragoza](#) [CSTB](#)
[#EPC](#) [#EnergyPerformance](#) [#Sustainability](#) [#Horizon2020](#) [#EPBDRecast](#) [#iBRoad2EPC](#) [#crossCert](#) [#EUBSuperHub](#)

 **Next Generation EPC Conference, EPBD Recast Edition, May 2024**
[youtube.com](https://www.youtube.com)

 [Andrei Vladimir Litiu](#) and 4 others 1 repost

<https://www.linkedin.com/feed/update/urn:li:activity:7208918493050642432>



Horizon 2020 iBRoad2EPC project
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Field #testing of the Horizon 2020 iBRoad2EPC project #renovationpassport completed in Portugal, where the tool was tested by 10 energy assessors in 10 buildings of a total floor area of 46.340 m2 covering 3 regions and 2 climatic zones.

The testing in Portugal was led by project partner **ADENE - Agência para a Energia**.

Among the main highlights:

👉 Headquarters of the Construção Pública E.P.E. office building with more than 30.000 m2 floor area. This is the entity responsible for programmes and projects for construction, requalification, maintenance and conservation of public buildings and equipment, with a focus on schools. The proposed upgrade of the building relates to a total refurbishment of the heating and cooling systems together with an advanced Building Automation and Control System, improving the building from C to B class and removing fossil fuel use in location. The SRI value will be upgraded from 4.1 to 83.9 and IEQ from 4.6 to 6.0.

👉 Privately rented small multi-family apartment building in an old neighbourhood of Lisbon. Likely energy poverty situation of the residents combined with building pathologies. The iBRoad2EPC renovation passport suggests a path for renovation from energy label F to A+ in a total of 4 steps by 2050 at a relatively low cost of 3.700€ per dwelling, per step.

Follow us to learn more about the testing outcomes!

#buildings, #energyefficiency, #energysperformance, #certificate, #renovationpassport, #EPBDRecast, #Fitfor55, #GreenDeal, #Horizon2020



Rui Fragoso and 15 others

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 Horizon 2020 iBRoad2EPC project
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Field #testing of the Horizon 2020 iBRoad2EPC project #renovationpassport completed in Bulgaria.

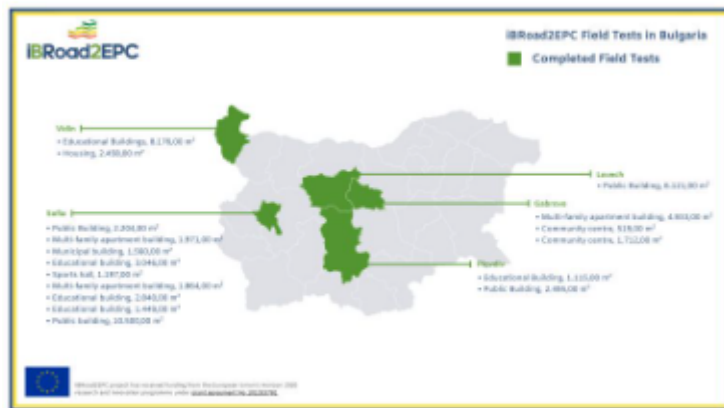
In Bulgaria, the tool was tested by 13 energy assessors in 15 buildings of a total floor area of 43.146 m2 covering 4 regions and 3 climatic zones.

The testing was led by project partner [Center for Energy Efficiency EnEffect](#).

Among others, the homeowners in 3 multi-family buildings now have the opportunity to improve the energy efficiency in their buildings even further, after participating in a national financing programme.

Follow us to learn about the testing outcomes!

#buildings, #energyefficiency, #energyperformance, #certificate, #renovationpassport, #EPBDRecast, #Fitfor55, #GreenDeal, #Horizon2020



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Horizon 2020 iBRoad2EPC project
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Field #testing of the Horizon 2020 iBRoad2EPC project #renovationpassport completed in Spain!

The tool was tested by 10 energy assessors in 10 buildings of a total floor area of 155.380 m2 covering 3 regions and 3 climatic zones.

The iBRoad2EPC testing in Spain was led by project partners [Cíclica Arquitectura](#) [SCCL](#) and [Green Building Council España \(GBCE\)](#).

Three major public buildings and seven multi-family buildings have participated in this testing to discover their potential for #longterm improvement.

Follow us to learn about the testing outcomes!

#buildings, #energyefficiency, #energysperformance, #certificate, #renovationpassport, #EPBDRecast, #Fitfor55, #GreenDeal, #Horizon2020



Ander Bilbao Figuera and 5 others

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Horizon 2020 iBRoad2EPC project
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At the end of last week's busy schedule in Brussels, the [Horizon 2020 iBRoad2EPC project](#) consortium had the chance to get together for its final physical General Assembly meeting.

🙌 Thank you [BPIE - Buildings Performance Institute Europe](#) for kindly hosting the meeting at your premises!

👉 Proud that the [iBRoad2EPC #renovationpassport](#) optimally aligns with the [#EPBDrecast](#) and market needs.

👉 Discussions between partners focused on the final steps and adaptation requirements to further support tailored [#transposition](#) and [#implementation](#) on the ground in Member States.

👉 Stay tuned during the last months of the project to find out how!

👉 It is such a pleasure to be part of the [iBRoad2EPC consortium!](#)
[Sympraxis Team](#) , [BPIE - Buildings Performance Institute Europe](#) , [ifeu - Institut für Energie- und Umweltforschung Heidelberg gGmbH](#) , [INZEB](#), [The Polish National Energy Conservation Agency \(KAPE\)](#), [ADENE - Agência para a Energia](#), [Technische Universität Wien](#), [Blue Planet Academy & Consulting](#), [Center for Energy Efficiency EnEffect](#), [INCD URBAN INCERC](#), [Green Building Council España \(GBCE\)](#), [Cíclica Arquitectura SCCL](#)

[#buildings](#), [#energyefficiency](#), [#energyperformance](#), [#certificate](#),
[#renovationpassport](#),
[#EPBDRecast](#), [#Fitfor55](#), [#GreenDeal](#), [#Horizon2020](#)



🌐 Rui Fragoso and 27 others

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 Horizon 2020 iBRoad2EPC project reposted this

 **Andrei Vladimir Lițiu** • 1st
Executive Director / Building Performance Adviser / PhD Candidate
3mo • 

🔥 Join us in Brussels and online for our upcoming policy session at #EUSEW2024, organized by the EPB Center & the #NextGenEPC cluster! 🌍

💡 This session provides support in tackling the challenges of #transposing & #implementing the #revised #EPBD across the EU, featuring insights from Horizon 2020, Horizon Europe, and LIFE Programme projects. We will highlight the EU_BUILD UP Portal as a vital resource that can offer a #singleentry #point for accessing #comprehensive #EPBD #guidance #documents and other resources to support Member States and the stakeholder community. 📄

♥️ Capture the opportunity to learn more, engage with experts and actively contribute to the transposition & implementation of the revised EPBD. 🗣️

✅ Register now & be part of the process! ⚙️
👉 <https://lnkd.in/dnKkedSj>

Stefan Moser | Ulrike Nuscheler | Afroditi Psatha | Georg Vogt | EPC-RECAST | crossCert Project | #EUBSuperHub | Horizon 2020 iBRoad2EPC project | TIMEPAC | #CHRONICLE | SmartLivingEPC | iEPB EU project | SmarterEPC | tunES | EPBD.wise | CINEA - European Climate, Infrastructure and Environment Executive Agency | European Commission



11-13 JUNE 2024
EUROPEAN SUSTAINABLE ENERGY WEEK
Welcome to the Summit in Brussels & Livestreamed

11 June 2024
14h30-16h00 CEST
Brussels & Livestreamed

From Directive to Action: Supporting the Revised EPBD Transposition and Implementation

Policy Session
Chairwoman: Annette Rodehiser

Policy Session EUSEW 2024
11 June 2024, 14:30-16:00 CEST
EPB Center & NextGenEPC Cluster

From Directive to Action: Supporting the Revised EPBD Transposition and Implementation Programme

- 14:30-14:45: Introduction by the event organizer, Andrei Vladimir Lițiu, Executive Director of the Performance Partner EPB Center / ANEG
- 14:45-14:50: Welcome: Transposing and implementing the revised EPBD. Ulrike Nuscheler, Head of the EPC, Buildings and Energy Efficiency, EPB Center
- 14:50-14:55: Roundtable: Policy support and EPBD experts of the EU Build UP Portal and the EU Build UP Energy Efficiency and Energy
- 14:55-15:00: Ulrike Nuscheler, Deputy Executive Director, CINEA/CEA - LIFE Energy Efficiency Cluster, Topic: EPBD Support
- 15:00-15:15: The EPBD.wise & the NextGenEPC cluster are supporting the transposition of EPBD
- 15:15-15:30: Roundtable: Project and Policy Manager, Addressing Energy Performance Gaps
- 15:30-15:45: Roundtable: The NextGenEPC cluster is supporting the EPBD EPC
- 15:45-16:00: Georg Vogt, Head of EPC, Infrastructure and Environment, CINEA
- 16:00-16:05: Roundtable panel discussion on the EPBD
- 16:05-16:10: Closing remarks by the chair

EPB Center | Horizon 2020 | Horizon Europe | LIFE Programme | EPC-RECAST | crossCert Project | #EUBSuperHub | Horizon 2020 iBRoad2EPC project | TIMEPAC | #CHRONICLE | SmartLivingEPC | iEPB EU project | SmarterEPC | tunES | EPBD.wise | CINEA - European Climate, Infrastructure and Environment Executive Agency | European Commission

Ander Bilbao Figuera and 64 others

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Horizon 2020 iBRoad2EPC project

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The "Next Generation Energy Performance Certificates Conference – EPBD recast edition", co-organised by [Horizon 2020 iBRoad2EPC project](#) with [crossCert Project](#), [EPC-RECAST](#) and [#EUBSuperHub](#) provided the opportunity for a deep dive into iBRoad2EPC's building [#renovationpassport](#) and its connection to the [#EnergyPerformanceCertificate](#), supporting the [#EPBD](#) transposition and implementation to boost the [#decarbonisation](#) of the EU's [#building](#) stock.

🌟 iBRoad2EPC was represented by project partners [Sympraxis Team](#), [BPIE - Buildings Performance Institute Europe](#), [ifeu - Institut für Energie- und Umweltforschung Heidelberg gGmbH](#), [The Polish National Energy Conservation Agency \(KAPE\)](#), [INZEB](#) and [ADENE - Agência para a Energia](#). Many thanks as well to all other iBRoad2EPC partners contributing to the project work: [Technische Universität Wien](#), [Blue Planet Academy & Consulting](#), [Center for Energy Efficiency EnEffect](#), [INCD URBAN INCERC](#), [Green Building Council España \(GBCE\)](#) and [Cíclica Arquitectura SCCL](#)

🙌 Our particular appreciation to [Sylvain Robert](#), [Pau Garcia Audi](#) and [Ulrike Nuscheler](#) for their active support and onsite presence!

🙌 Kindly hosted by [Climate Alliance](#) at [Mundo Madou!](#)

[#energyefficiency](#), [#energyperformance](#), [#Fitfor55](#), [#certificate](#), [#renovationpassport](#), [#EPBDRecast](#), [#Horizon2020](#)






👤 with [Pau Garcia Audi](#) and 5 others

👤 Alexander Deliyannis and 46 others

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23 May 2023 in Brussels & livestreamed, our joint final conference #NextGenEPCs co-organised with Horizon 2020 iBRoad2EPC project | crossCert Project | #EUBSuperHub




We closed the day with a couple of moderated panel discussion with energy agencies (national level perspective) and EPBD stakeholders (EU level perspective) geared again on supporting the upcoming revised EPBD transposition and implementation!

Rui Fragoso | Nicole Hartl | Andreas Androutsopoulos | Fabio Zanghirella | Karolina Junak | Valérie Plainemaison | Jean-Marie SIMON | Rémi Collombet-Gourdon | Spyros Mathioudakis | Ulrike Nuscheler | Sylvain Robert


ADENE - Agência para a Energia | Austrian Energy Agency | Centre for Renewable Energy Sources and Saving (CRES) | ENEA | The Polish National Energy Conservation Agency (KAPE) | EFIEES - European Federation of Intelligent Energy Efficiency Services | EPRA (European Public Real Estate Association) | Efficient Buildings Europe | European Builders Confederation EBC | CINEA - European Climate, Infrastructure and Environment Executive Agency


The slide deck and the recording will be made available soon! Stay tuned!



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23 May 2023 in Brussels & livestreamed, our joint final conference hashtag #NextGenEPCs co-organised with Horizon 2020 iBRoad2EPC project | crossCert Project | #EUBSuperHub


We continued the day with an overview of insights and outcomes and a deep dive into the key exploitable results which can be immediately leveraged by EU Member States and the wider EPBD-related stakeholder community!

[Olivier Greslou](#) | [Norberto Fueyo](#) | [Alexander Deliyannis](#) | [Marianna Papaglastra](#) | [Peter Gyuris](#) | [Alice Corovessi](#) | [Andrea Moro](#) | [Elena Mocchio](#) | [Sarah Noyé](#) | [David Jenkins](#) | [Gunnar Grün](#) | [Ulrike Nuscheler](#) | [Sylvain Robert](#)

[CSTB](#) | [Zaragoza University](#) | [Sympraxis Team](#) | [Geonardo Environmental Technologies](#) | [INZEB](#) | [iiSBE Italia R&D](#) | [ifeu - Institut für Energie- und Umweltforschung Heidelberg gGmbH](#) | [UNI Ente Italiano di Normazione](#) | [TECNALIA Research & Innovation](#) | [Heriot-Watt University](#) | [Fraunhofer Institute for Building Physics IBP](#) | [CINEA - European Climate, Infrastructure and Environment Executive Agency](#)


Stay tuned!





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 **EPC-RECAST**
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23 May 2023 in Brussels & livestreamed, our joint final conference #NextGenEPCs co-organised with Horizon 2020 iBRoad2EPC project | crossCert Project | #EUBSuperHub


We started the day with a few keynotes setting the scene of the revised EPBD and the upcoming implementation to which the results of our projects can be directly leveraged by EU Member States and the wider EPBD-related stakeholder community!


- Pau Garcia Audi, European Commission
- Sylvain Robert, CINEA - European Climate, Infrastructure and Environment Executive Agency
- Hélène Sibileau, BPIE - Buildings Performance Institute Europe

Stay tuned!

Alexander Deliyannis | Marianna Papaglastra | Ulrike Nuscheler | Olivier Greslou | Peter Gyuris | Norberto Fueyo | Andrei Vladimir Lițiu



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 **Horizon 2020 iRoad2EPC project**
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In Brussels last week, the [Horizon 2020 iRoad2EPC project](#) had the opportunity to contribute to discussions on the future of the EU's building stock, during three consecutive events in the context of the recast Energy Performance of Buildings Directive:

- 👉 CINEA's Building Clustering meeting: iRoad2EPC participated in the Buildings Rating Instruments group, along with sister projects [CHRONICLE](#), [crossCert Project](#), [EPBD.wise](#), [EPC-RECAST](#), [#EUBSuperHub](#), [iEPB EU project](#), [OneClickRENO](#), [SmarterEPC](#), [SmartLivingEPC](#), [TIMEPAC](#) and [tunES](#)
- 👉 [tunES](#) event "Tuning EPC and SRI. Practices and methods to analyse national challenges"
- 👉 The "Next Generation Energy Performance Certificates Conference – EPBD recast edition", co-organised by [Horizon 2020 iRoad2EPC project](#) with [crossCert Project](#), [EPC-RECAST](#), and [#EUBSuperHub](#).

🙌 Special thanks go to CINEA - European Climate, Infrastructure and Environment Executive Agency and the European Commission for giving project partners the opportunity and support to exchange and interact!

[#energyefficiency](#), [#energyperformance](#), [#certificate](#), [#renovationpassport](#), [#EPBDRecast](#), [#Fitfor55](#), [#GreenDeal](#), [#Horizon2020](#)



 with [Ulrike Nuscheler](#) and 10 others

 [Alexander Defiyannis](#) and 32 others

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Horizon 2020 iBRoad2EPC project
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Curious to find out how the #EPBDrecast upcoming implementation can be supported through #Horizon2020 projects? Join [Horizon 2020 iBRoad2EPC project](#), [crossCert Project](#), [EPC-RECAST](#), and [EUB SuperHub](#), four Horizon 2020 projects working on the [#NextGenerationEnergyPerformanceCertificates](#) at this joint [#conference](#)!

📅 May 23rd, 2024
📍 @Mundo Madou, Brussels & livestreamed
🕒 09h00 - 17h30 CEST

Register here <https://lnkd.in/exPaPbvQ>

[#energyefficiency](#) [#energyperformance](#) [#Fitfor55](#) [#certificate](#)
[#renovationpassport](#) [#EPBDRecast](#) [#Horizon2020](#)



Next Generation Energy Performance Certificates
CONFERENCE – EPBD Recast Edition 23 May 2024, 9:00 - ...
ec.europa.eu

 Alexander Deliyannis and 29 others 6 reposts

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 Horizon 2020 iRoad2EPC project
230 followers
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During the joint EPBD.wise and Horizon 2020 iRoad2EPC project Policy Forum Greece, organised on 17 May 2024 in Athens by INZEB, we had the pleasure to discuss with high level national stakeholders about the future of #EnergyPerformanceCertificates and #RenovationPassports in the context of the #EPBDRecast. Extremely proud to receive such positive and useful feedback by three of the energy assessors that contributed to #testing the #iRoad2EPCrenovationpassport in Greek real case #buildings! Thank you INZEB and EPBD.wise!

Follow us to find out more about the future of iRoad2EPC in Greece's national context.

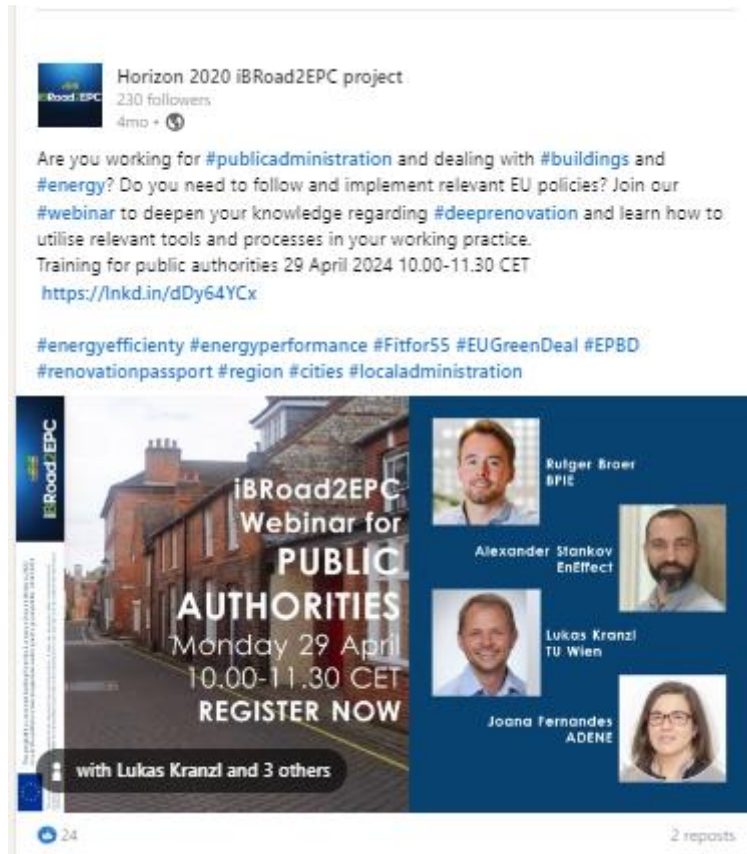
#energyefficiency #energyperformance #Fitfor55 #EUGreenDeal
#renovationpassport #EPBDRecast #Horizon2020



with Alice Corovessi and 3 others

👍 10

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Horizon 2020 iBRoad2EPC project
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Are you working for **#publicadministration** and dealing with **#buildings** and **#energy**? Do you need to follow and implement relevant EU policies? Join our **#webinar** to deepen your knowledge regarding **#deeprenovation** and learn how to utilise relevant tools and processes in your working practice.
Training for public authorities 29 April 2024 10.00-11.30 CET
<https://lnkd.in/dDy64YCx>

#energyefficiency #energyperformance #Fitfor55 #EUGreenDeal #EPBD #renovationpassport #region #cities #localadministration

iBRoad2EPC Webinar for PUBLIC AUTHORITIES
Monday 29 April
10.00-11.30 CET
REGISTER NOW

with **Lukas Kranzl** and 3 others

Rulger Braer
BPIE

Alexander Stankov
EnEffect

Lukas Kranzl
TU Wien

Joana Fernandes
ADENE

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IRI UL - Institute for Innovation and Development of University of Lj...
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📅 Mark your calendars for the 2024 Next Generation Energy Performance Certificates Conference on May 23, 2024! Hosted in #Brussels at Mundo Madou and available online, this is designed for those interested in the future of building energy performance. 🌍 🏠

📄 As part of the recast of the Energy Performance of Buildings Directive (EPBD), this conference brings together the results of four Horizon 2020 projects: [crossCert Project](#), [EPC-RECAST](#), [EUB SuperHub](#), and [Horizon 2020 iBRoad2EPC project](#). Each project offers unique insights into the development and implementation of Energy Performance Certificates (EPCs).

✅ Participation is free, but registration is essential to secure your spot or to receive a streaming link to follow the conference online.

👉 Register now <https://lnkd.in/exPaPbvQ> and be part of shaping the future of energy performance in buildings!

#EnergyEfficiency #Sustainability #EPBDRecast #Horizon2020 #EPCConference2024

EPC RECAST **crossCert** **iBRoad2EPC** **EUB SuperHub**



THE NEXT GENERATION ENERGY PERFORMANCE CERTIFICATES CONFERENCE EPBD RECAST EDITION

23 MAY 2024
Mundo Madou, Brussels and online

Funded by

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 **Horizon 2020 iBRoad2EPC project**
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Are you an architect, engineer (in HVAC, construction, building physics, electrical), site manager, construction coordinator, building inspector, or otherwise related construction professional?



The second in the series of two iBRoad2EPC webinars for [#construction](#) [#professionals](#) takes place on Thursday 25 April 2024 10.00-11.30 CET: <https://lnkd.in/dpsjJXU>

Follow this short webinar series to learn why [#deeprenovation](#) is important and what is needed to implement step-by-step renovation to boost the [#decarbonisation](#) of EU's [#building](#) stock!


[#energyefficiency](#) [#energyperformance](#) [#Fitfor55](#) [#EUGreenDeal](#) [#EPBD](#)
[#renovationpassport](#)



The graphic features a street scene with a brick building. Text on the graphic includes: 'iBRoad2EPC Webinar for CONSTRUCTION PROFESSIONALS Part 2', 'Thursday 25 April 10.00-11.30 CET', 'REGISTER NOW', and 'with Eleftheria Touloupaki and 1 other'. Three speaker portraits are shown with their names and affiliations: Alexander Stankov (EnEffect), Eleftheria Touloupaki (INZEB), and Karolina Junak (KAPE).

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Last chance to register: <https://lnkd.in/dW99efsQ>


Tomorrow is the first in a series of two iBRoad2EPC webinars for **#construction** **#professionals**. If you are an architect, engineer (in HVAC, construction, building physics, electrical), site manager, construction coordinator, building inspector, or otherwise related construction professional follow this short webinar series to learn why **#deeprenovation** is important and what is needed to implement step-by-step renovation to boost the **#decarbonisation** of EU's **#building** stock.

Part I. 24 April 2024 10.00-11.30 CET
<https://lnkd.in/dW99efsQ>

Part II. 25 April 2024 10.00-11.30 CET
<https://lnkd.in/dpsjJXU>

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Join our dedicated training [#webinar](#) series for [#construction](#) [#professionals](#) and [#public](#) [#authorities](#) to boost [#deeprenovation](#) of the European [#buildings](#) stock.

Training for construction professionals Part I. 24 April 2024 10.00-11.30 CET
<https://lnkd.in/dW99efsQ>

Training for construction professionals Part II. 25 April 2024 10.00-11.30 CET
<https://lnkd.in/dVjRRFj>

Training for public authorities 29 April 2024 10.00-11.30 CET
<https://lnkd.in/dDy64YCx>

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with Alexander Deliyannis and 7 others


      

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During today's iBRoad2EPC General Assembly virtual meeting, partners discuss the national implementation of our simplified **#renovationpassport**, also following the **#EPBD** vote last Friday. The tool has by now been tested and found useful by 48 experts in a total of 57 **#buildings** in 6 countries!
It is suitable for both single and multi-family, and for various types of public buildings.
#energyefficiency #energyperformance #EUGreenDeal #Fitfor55



with You and 18 others

👍 46 5 reposts

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iBRoad2EPC attended the #EEB24 #EnergyEfficiency in #Buildings conference in Athens, represented by Sympraxis Team
Among other key stakeholders we met Nikos Chrysogelos recently appointed Deputy Mayor of City of Athens, Greece for #ClimateGovernance and #SocialEconomy
We wish him much success in his duties which include critical issues such as #EnergyPoverty and #CivilProtection


#ClimateAction #EnergyPerformanceCertificates #DeepRenovation




 with Alexander Deliyannis and 1 other

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 **Horizon 2020 iRoad2EPC project**
230 followers
5mo · 🌐

Excited for iRoad2EPC to be part of this webinar joining 4 projects contributing to the much needed #justtransition to #sustainableenergy!
We hope to see you there!

 **RENOVERTY Project**
670 followers
5mo · 🌐

🎯 Join us for our event "Renovation Roadmaps: Transforming Europe's Building Landscape!"





📄 The upcoming #RenovationWave for Europe requires strategic planning to ensure a just transition. Our new event puts the spotlight on effective #renovation roadmaps designed to leave no one behind.

Key topics:

- 🔗 Developing inclusive renovation roadmaps for a large-scale building transformation.
- 👉 Combining technical expertise with social considerations for vulnerable populations.
- 🔥 Learning from the experiences of EC-funded projects **RENOVERTY Project**, **Horizon 2020 iRoad2EPC project**, **#RENOCALLY**, and **#GREENHome**.



🌟 Register now and be part of the discussion! <https://lnkd.in/d/jNee6bh>

#renovationwave #buildings #energyefficiency #sustainability #RENOVERTY
Institute for European Energy and Climate Policy Foundation (IEECP) Climate Alliance TEESlab - Technoeconomics of Energy Systems laboratory Focus, društvo za sonaraven razvoj / Focus Association for Sustainable Development European LEADER Association for Rural Development - ELARD ISR-UC UC Aisfor srl North West Croatia Regional Energy and Climate Agency (REGEA) Ecoserveis Cultura Energètica LIFE Programme CINEA - European Climate, Infrastructure and Environment Executive Agency #LifeAmplifiers


**Renovation Roadmaps
Transforming Europe's
Building Landscape to Leave
No One Behind**

22 May 2024, 10:00-12:00 CET, online


👍 0

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Horizon 2020 iBRoad2EPC project
230 followers
5mo • 🌐

Don't miss tomorrow's webinar on linking [#BuildingRenovationPassports](#) with [#EnergyPerformanceCertificates](#) to decarbonise the EU building stock, ...more



International Copper Association Europe
5,432 followers
5mo • 🌐


📅 Join us this week for the 10th Zero Emission Buildings Academy, and learn about Energy Performance Certificates [#EPCs](#) and Renovation Passports in the context of the implementation of the Energy Performance of Buildings Directive. The revised [#EPBD](#) is going through its final stages of approval, making it a crucial time for European building policy.

🗣️ **Speaker:** Peter Mellwig, Senior Project Manager, ifeu - Institut für Energie- und Umweltforschung Heidelberg gGmbH

Moderation: [Quentin de Hults](#), Director of the Green & Healthy Buildings, ECI

Register to webinar: 'Decarbonising The Eu Building Stock Under The EPBD: Bringing Together Energy Performance Certificates And Renovation Passports' 28 March, 14h CET <https://lnkd.in/eEX3wgev>

[#ZEBAcademy](#) [#iBRoad2EPC](#) [Horizon 2020 iBRoad2EPC project](#)
[#renovationwave](#) [#zeroemissionbuildings](#) [#decarbonisation](#) [#renewableenergy](#)
 Renovate Europe [BPiE - Buildings Performance Institute Europe](#) [The Coalition for Energy Savings Efficient Buildings Europe](#) [ECTP - European Construction and sustainable built environment Technology Platform](#) [Leonardo ENERGY](#) [Olivier Tissot](#)



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Horizon 2020 iBRoad2EPC project reposted this


INZEB
1,940 followers
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🌱 Today, INZEB participates in the "Supporting the Implementation of the Fair Transition in Greece: Good Practices to Climate Neutrality" event organised by Δίκτυο ΔΑΦΝΗ / DAFNI Network.

Our Managing Director [Alice Corovessi](#), will take the stage to unveil the outcomes and progress of the [Horizon 2020 iBRoad2EPC project](#) in [#Greece](#) and present the look and feel of the Building Renovation Passports, showcasing the testing results in 10 public buildings across Greece.

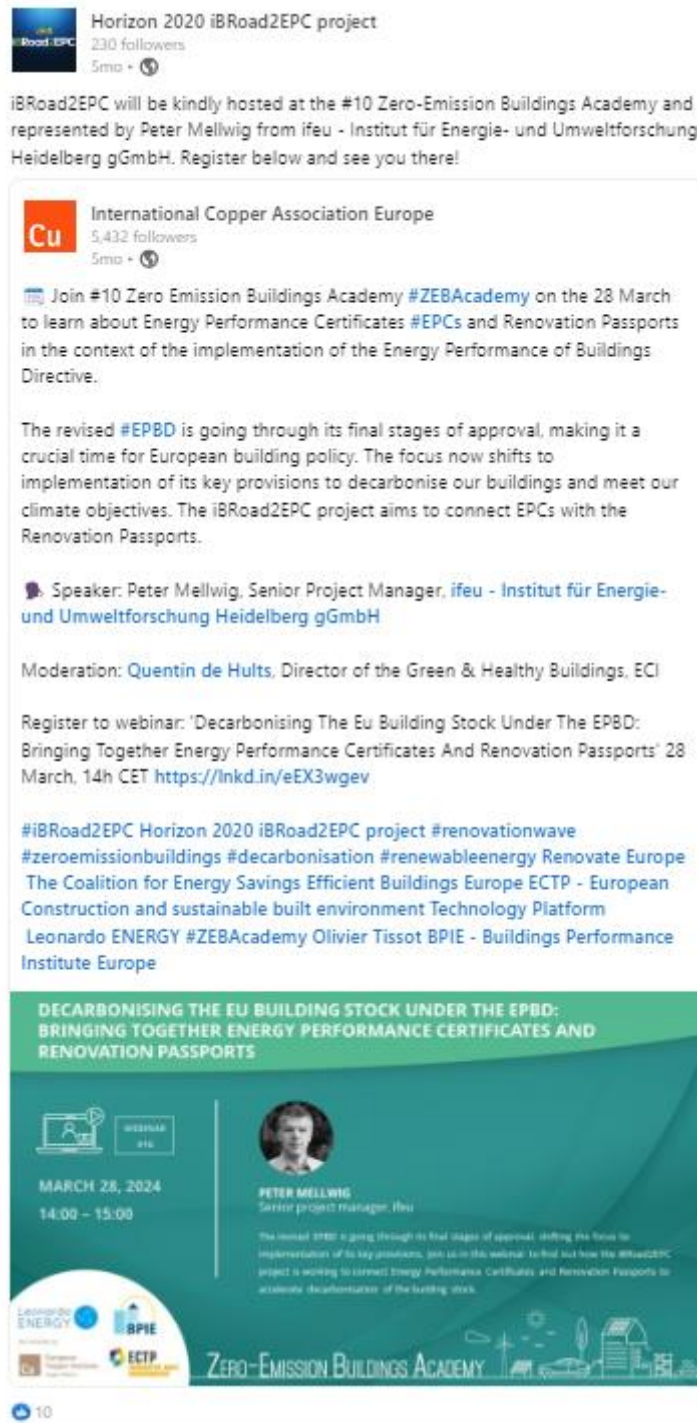
🌱 Building Renovation Passports are not simple documents but roadmaps towards energy efficiency, reduced carbon footprint, and enhanced living standards.

[#EnergyEfficiency](#) [#BuildingRenovationPassports](#) [#ClimateNeutrality](#) [#SustainableDevelopment](#) [#Greece](#) [#H2020](#) [#Horizon2020](#)



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Horizon 2020 iBRoad2EPC project
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iBRoad2EPC will be kindly hosted at the #10 Zero-Emission Buildings Academy and represented by Peter Mellwig from ifeu - Institut für Energie- und Umweltforschung Heidelberg gGmbH. Register below and see you there!

International Copper Association Europe
5,432 followers
5mo · 🌐

📅 Join #10 Zero Emission Buildings Academy #ZEBAcademy on the 28 March to learn about Energy Performance Certificates #EPCs and Renovation Passports in the context of the implementation of the Energy Performance of Buildings Directive.

The revised #EPBD is going through its final stages of approval, making it a crucial time for European building policy. The focus now shifts to implementation of its key provisions to decarbonise our buildings and meet our climate objectives. The iBRoad2EPC project aims to connect EPCs with the Renovation Passports.


🎤 **Speaker:** Peter Mellwig, Senior Project Manager, ifeu - Institut für Energie- und Umweltforschung Heidelberg gGmbH


Moderation: Quentin de Hults, Director of the Green & Healthy Buildings, ECI

Register to webinar: 'Decarbonising The Eu Building Stock Under The EPBD: Bringing Together Energy Performance Certificates And Renovation Passports' 28 March, 14h CET <https://lnkd.in/eEX3wgev>




#iBRoad2EPC #Horizon 2020 #iBRoad2EPC project #renovationwave #zeroemissionbuildings #decarbonisation #renewableenergy #Renovate Europe #The Coalition for Energy Savings Efficient Buildings Europe #ECTP - European Construction and sustainable built environment #Technology Platform Leonardo ENERGY #ZEBAcademy Olivier Tissot #BPIE - Buildings Performance Institute Europe

DECARBONISING THE EU BUILDING STOCK UNDER THE EPBD: BRINGING TOGETHER ENERGY PERFORMANCE CERTIFICATES AND RENOVATION PASSPORTS

 **WEBINAR**
MARCH 28, 2024
14:00 - 15:00


PETER MELLWIG
Senior project manager, ifeu

The revised EPBD is going through its final stages of approval, shifting the focus to implementation of its key provisions. Join us in this webinar to find out how the iBRoad2EPC project is working to connect Energy Performance Certificates and Renovation Passports to accelerate decarbonisation of the building stock.

ZERO-EMISSION BUILDINGS ACADEMY

👍 10

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 Horizon 2020 iBRoad2EPC project
230 followers
5mo • 

At #iBRoad2EPC we aim to boost deep #renovation in Europe by integrating building renovation passports into energy performance certificates.

Our project partner IFEU recently led a report looking into how to do this for multi-family and public buildings.



Take a look at these important findings here: <https://lnkd.in/d5MJiv4i>

#energyefficiency #greendeal #renovationwave #fitfor55 #horizon2020

 Extending the iBRoad Building Renovation Passport I
ibroad2epc.eu

 7

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 Horizon 2020 iBRoad2EPC project
230 followers
6mo • Edited • 


Our project aims to integrate building renovation passports into energy performance certificates #epc to help:

- ✔ Improve #renovation recommendations & ensure they match climate goals
- ✔ Outline individual #building long-term renovation strategy

Click here to find out more in our #iBRoad2EPC in depth report : <https://lnkd.in/dJxvDjIS>

#energyefficiency #greendeal #renovationwave #fitfor55 #horizon2020

 iBRoad2EPC in depth
ibroad2epc.eu

 9

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ANNEX IV: FINAL CONFERENCE SUMMARY








THE NEXT GENERATION ENERGY PERFORMANCE CERTIFICATES CONFERENCE
EPBD RECAST EDITION

23 MAY 2024 **Mundo Madou, Brussels** **and online**

These projects have received funding from the European Union's Horizon 2020 programme. 

EVENT SUMMARY

EU-funded projects focused on next generation Energy Performance Certificates (EPCs), present their results in support of the implementation of the recast Directive on Energy Performance of Buildings

Four EU-funded Horizon 2020 projects –[crossCert](#), [EPC RECAST](#), [EUB SuperHub](#) and [iBRoad2EPC](#)– joined forces in organising a final conference titled “*Next Generation Energy Performance Certificates Conference – EPBD recast edition*”. The event was held on 23 May 2024, physically at Mundo Madou in Brussels, and live streamed online. The aim of the conference was for the projects to bring forward valuable insights and applicable outcomes in the context of the 2024 recast Energy Performance of Buildings Directive and to discuss these with their peers.

The conference was coordinated and timed to follow two related Brussels events, namely the CINEA [Cross-programme Buildings Clustering Meeting](#) (21-22 May) and the [tunES](#) project event [Tuning EPC and SRI Practices and methods to analyse national challenges](#) (22 May, afternoon).

The conference was organised in four parts, starting with the policy context, moving onto overall project outcomes, then focusing on specific Key Exploitable Results, and concluding with extensive discussions with national energy agencies and market representatives.

The event was live-streamed and recorded and is now available to be watched on demand.

During **Part 1 – Common context** and under the moderation of **Andrei Vladimir Litiu**, [EPB Center](#), invited guest speakers summarised the overall policy context.

- **Pau Garcia Audi** from the **European Commission**, [DG ENER/B.3](#), focused on [the recast Energy Performance of Buildings Directive and broader regulatory framework](#).
- **Sylvain Robert**, Project Manager at **CINEA**, focused on [relevant Horizon 2020, Horizon Europe and LIFE calls for proposals funding and the respective projects](#).
- **Hélène Sibileau** from the **Buildings Performance Institute Europe – BPIE**, focused on [important links and potential gaps or missing elements between Energy Performance Certificates and Renovation Passports](#).

A [quick introduction to each of the four organising projects, including their complementary perspectives](#), was presented by the coordinators:

- On behalf of [crossCert](#), by **Norberto Fueyo**, [University of Zaragoza](#)
- On behalf of [EPC RECAST](#), by **Olivier Greslou**, [CSTB](#)
- On behalf of [EUB SuperHub](#), by **Peter Gyuris**, [Geonardo](#)
- On behalf of [iBRoad2EPC](#), by **Alexander Deliyannis**, [Sympraxis](#)

→ *Part 1 of the conference is available to view on demand via YouTube [here](#).*

Part 2 – Overview of insights and outcomes was moderated by **Alice Corovessi**, [INZEB](#), provided a bird's eye view of the four project's perspectives and results.

The [Horizon 2020 project crossCert](#) was presented by **Norberto Fueyo**, [University of Zaragoza](#). The project contributes to the next generation of EPCs by performing a detailed, bottom-up analysis of EPC methodologies in ten participating EU countries. The key elements of this approach are:

- Cross-testing, mainly by energy agencies or similar entities, of current EPCs and new EPC initiatives, on around 140 buildings in ten European countries;
- Analysing and comparing the results from the different national approaches;
- Identifying, in the process, good practices that include potential improvements on accuracy, usability and harmonisation;
- Outreach, which includes the creation of a public repository of building data, and the engagement of networks and alliances of third-party actors for analysis.

The [Horizon 2020 project EPC RECAST](#), presented by **Olivier Greslou**, [CSTB](#), sets a structured process and toolbox supporting the implementation and validation of a new generation of Energy Performance Assessment and Certification for residential buildings, for which retrofit is a challenging and pressing issue. By improving the usability, reliability and comparability of EPCs, and linking them to renovation roadmaps and digital logbooks, EPC RECAST contributes to improved working practices of EPC assessors and user awareness of building efficiency.

The [Horizon 2020 project EUB SuperHub](#) consortium carried out an extensive exercise, involving building experts and policy experts, to conclude a set of 21 Key Performance Indicators for building assessments that go beyond building energy performance and set a holistic view on buildings according to the EPBD. The indicators are tested on more than 100 buildings across various European climates. This assessment process is supported by the Digital Building Logbook developed by the project. The social acceptance studies of the project characterised the stakeholders' motivation towards EPCs and analysed public engagement and education programmes to develop guidelines. The presentation was given by **Andrea Moro**, [iSBE Italy](#).

The [Horizon 2020 project iBRoad2EPC](#) was presented by **Marianna Papaglastra**, [Sympraxis](#). iBRoad2EPC developed and tested a flexible and affordable model building Renovation Passport that integrates with the Energy Performance Certificate (EPC), to guide and motivate building owners to undertake staged deep renovations. iBRoad2EPC adds an appropriate individual building renovation plan as well as new indicators –for Indoor Environmental Quality, Smart Readiness, Measured Energy Performance and others– into the established national EPC schemes in a modular and expandable fashion. An integral part of the long-term renovation plan provided by iBRoad2EPC are future legal regulations and obligations resulting from European or national legislation, e.g., phase-out of fossil fuel fired boilers, national implementation of minimum energy performance standards (MEPS) as foreseen in the 2024 recast EPBD, etc. iBRoad2EPC also establishes links with other official tools, like national EPC calculation software or EPC databases, as well as with the iBRoad (predecessor of iBRoad2EPC project) Digital Building Logbook, One-Stop-Shops and others. iBRoad2EPC is hereby fully aligned with the policy discussions and targets and promotes decarbonisation of the European building stock while supporting additional benefits to the building owners/tenants, improving energy advice, comfort, access to energy related programmes, incentives and finance, and alleviating energy poverty.

Following presentations of the individual projects, [a summary overview mapping the four projects' focus](#) on common and complementary aspects was presented by **Alexander Deliyannis**, [Sympraxis](#).

→ *Part 2 of the conference is available to view on demand via YouTube [here](#).*

In **Part 3**, moderated by **Gunnar Grün**, [Fraunhofer IBP](#), each project dived deeper into its **Key Exploitable Results**, in particular:

The [key outputs from crossCert](#) as presented by **Professor David Jenkins**, [Heriot-Watt University](#):

- A comparative analysis of the EPC methodologies in participating countries.
- A quantitative estimation of the so-called performance gap in participating buildings, and an analysis of its possible sources, together with a discussion of the relevance of the performance gap as a metric for EPC effectiveness.

- An analysis of the new scales and Key Performance Indicators either as proposed in EU R&D projects or being discussed in participating countries.
- Proposals for increasing the value of EPCs through their use in databases, and their linkage with energy audits, Digital Building Logbooks, and building Renovation Passports.
- An analysis of current EPC designs and their user experiences, and guidelines and recommendations for development of people-centred EPC products and services.
- Recommendations for EPC harmonisation, and for a harmonised EPC verification framework for quality checking EPC outputs.
- An openly-accessible database of building data for selected buildings in the EU and UK countries participating in crossCert, the European OpenAIRE programme.
- The Knowledge Exchange Centre, a web-based repository of information on next generation Energy Performance Certificates for buildings in the European Union.
- A wide-ranging engagement of stakeholders through multiple channels (social media, website, newsletters, national stakeholder events, and international focus groups, networking events and policies conferences).

The [key outputs from EPC RECAST as presented by Sarah Noyé, Tecnalía](#):

- An integrated methodology and workflow to improve daily working practices of EPC assessors with a set of digital tools and protocols, from the on-site visit to the issuing of the EPC and renovation recommendations.
- A common data model of the building for EPCs implemented in XML format as the core/foundation of EPC RECAST's digital toolbox and integrated workflow.
- Conversion algorithms and some 'standard values' to connect the data model with dynamic energy simulation engines, ensuring compliance with ISO/CEN standards developed under the European Commission mandate to CEN M/480.
- Input/output data interfaces in the EPC RECAST toolbox and strategies to connect the data model and digital tools, following the principles of a common data environment.
- The BIMEO application on iPad for on-site data collection, with geometrical scanning functionalities to evaluate the building geometry and user-friendly questionnaires to facilitate the building inspection.
- On-site measurement protocols of thermal characteristics of the building envelop with heat-flux meters and remote data collection.
- A calibration toolbox to fine-tune some simulation input parameters, reducing the gap between simulation results and measured energy consumptions.
- A simulation chain connecting results of on-site data collection to dynamic energy simulation with the COMETH computing core with minimum work required to the EPC assessor.
- A new and detailed certificate template for next-generation EPCs developed in accordance with the recast EPBD (Article 19 and Annex V), including new key performance indicators (thermal comfort score, SRI, metered energy and operational rating, costs reporting considering the owner-tenant dilemma).
- A user-friendly renovation roadmap tool (equivalent to the core of a Renovation Passport) relying on the same data model and simulation engine as the EPC.
- Extensive tests of the EPC RECAST tools on 55 pilot sites consisting of three multi-family buildings as a whole, 40 apartments and 12 single-family houses spread over the six participating countries by trained EPC assessors and project partners.
- Long-term monitoring implemented in 50% of the pilot dwellings and direct feedback from EPC assessors.
- Policy and market uptake recommendations related to the transposition of the recast EPBD.

[EUB SuperHub's key outputs as presented by Elena Mocchio and Fabio Rossi, UNI](#) include:

- Selected KPIs, plus qualification needs of experts to use building KPIs according to EU norms (EN ISO), leading to development of the EUB SuperHub CEN Workshop Agreement to assess and certify buildings by skilled professionals (exploiting the TRAIN4SUSTAIN project CWA 17939-2022).
- KPIs meeting with the EPBD 2024 provisions for applications that also go beyond building energy performance, including life-cycle approach (GWP), quality of life for occupants (IAQ), climate and future proof indicators (SRI, resilience).

- Storage and management of geo-referenced EPCs on an online platform, further supplying building information and supported by a Digital Building Logbook, boosted with the project specific KPIs and the EUB Passport, as annex in a One-Stop Shop (building certification, marketplace, training).
- A set of 21 KPIs needing upskilled assessors, trained to use the necessary –online– tools as well.
- Training material, assessment and testing results on 100+ case study buildings across seven EU Member States on different European climates, also used to upgrade the method.
- Social acceptance studies constituting
 - i. Mapping of stakeholders and understanding of the needs of market actors with respect to EPC certificates and assessment schemes
 - ii. Principles, guidelines for public engagement and education.

For iBRoad2EPC, the key outputs were presented by Peter Mellwig, ifeu:

- iBRoad2EPC's adaptable database of country specific renovation advice, including climatic regions, energy classes, milestones, MEPS, obligations, targets, technical specifications, costs, etc.
- iBRoad2EPC Assistant: the software used by energy assessors to produce the Renovation Passport, consisting of a basic standardised country-specific module, expandable upon demand with various additional modules, including the currently developed Indoor Environment Quality module, Measured Energy Performance Module, Smart Readiness Indicator module, Energy Demand module, and Cost-Investment module.
- iBRoad2EPC: the Renovation Passport itself, as an online document and printable page, complementing the EPC with a step-by-step renovation plan to fulfil national obligations and own targets, improve conditions for the building user, avoid mis-investments, and including information/advice on indoor quality, smart readiness, cost, etc.
- The iBRoad2EPC API: an interface forging links within differing country contexts and tools, e.g., connecting the Renovation Passport with the EPC calculation data file, database or software, with One-Stop Shops, the Digital Building Logbook or other instruments.
- iBRoad2EPC's training material for energy assessors guiding them on how to jointly produce the EPC and Renovation Passport.
- iBRoad2EPC training module for construction professionals improving their skills for the design and implementation of staged deep renovation.
- iBRoad2EPC advisory package for public authorities assigned with energy planning on how iBRoad2EPC can support them in their functions
- iBRoad2EPC's EU roadmap on accelerating deep renovation with Renovation Passports
- iBRoad2EPC's national guides for the roll-out of iBRoad2EPC within national contexts
- iBRoad2EPC's guide on the use of financial and non-financial incentives to increase and deepen renovation

→ Part 3 of the conference is available to view on demand via YouTube [here](#).

Finally, the interactive **Part 4 – Third party feedback and views**, moderated by Rui Frago, [ADENE](#), gathered input from energy agencies and market representatives, organised around two panel discussions:

- Panel "From project results to EPBD implementation: The Energy Agencies perspective" with representatives from the [Austrian Energy Agency \(Nicole Hartl\)](#), the Greek Centre for Renewable Energy Sources and Saving – [CRES \(Andreas Androutsopoulos\)](#), the Italian National Agency for New Technologies, Energy and Sustainable Economic Development – [ENEA \(Fabio Zanghirella\)](#) and The Polish National Energy Conservation Agency – [KAPE \(Karolina Junak\)](#)
- Panel "A market look at the recast EPBD implementation: how can the four projects' outcomes help?" with representatives from EuroACE – [Efficient Buildings Europe \(Rémi Collombet\)](#), European Builders Confederation – [EBC \(Spyros Mathioudakis\)](#) and the European Federation of Intelligent Energy Efficiency Services – [EFIEES \(Valérie Plainemaison\)](#)
- Verbal statement by the European Public Real Estate Association – [EPRA \(Jean-Marie Simon\)](#)

The event concluded with closing remarks from **Ulriche Nuscheler**, Project Manager at **CINEA**.

→ Part 4 of the conference is available to view on demand via YouTube [here](#).

The full conference recording is available to view on demand via YouTube [here](#).

Photos from the event are available [here](#).

For further information on each project please contact:

- For crossCert: Eva Suba e.suba@climatealliance.org
- For iBRoad2ePC: Alexander Deliyannis a@sympraxis.eu
- For EPC RECAST: Olivier Greslou olivier.greslou@cstb.fr / Dominique Caccavelli, dominique.caccavelli@cstb.fr
- For EUB SuperHub: Peter Gyuris peter.gyuris@geonardo.com



iBRoad2EPC

www.ibroad2epc.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 101033781

