



June 2024

Dear reader,

Summer is here, but we are still working hard on the Next Generation EPC! It is already the second half of the project and we have one more year to go. Have a look into our latest work through the submitted deliverables, see what events we've been to, and do not forget to check out our recently released video!

M24 of the project!

DELIVERABLES

D1.3

SmartLivingEPC pilot analysis, Use case scenarios and Framework Architecture v2

CERTH

The D1.3 outlines the architecture for the SmartLivingEPC platform, detailing activities from T1.3 and T1.4. It includes specifications, functionalities, and technical characteristics defined by project partners. The deliverable highlights a four-layer Conceptual Architecture Framework: Data Collection, Information Management, Processing, and UI/Demonstration. This framework ensures efficient interaction of components to meet project goals. The analysis covers Functional, Information, Deployment, and Dynamic viewpoints, detailing component roles, information flow, and Business Scenarios and Technical Use Cases. This comprehensive architecture provides a robust foundation for the SmartLivingEPC platform's development and implementation.

[Read more](#)

D2.4

Asset methodology assessment in building level v2

FRC

Deliverable 2.4 includes the results from WP2 tasks, focusing on the asset methodology at the building level. It includes the analysis and integration of Smart Readiness Indicators (SRI), examining smart technologies and their incorporation into energy certification. It also covers the assessment of energy and non-energy resources, life-cycle environmental impact, and sustainability ratings using BIM environments, including the development of backend processes to extract the SRI of buildings from IFC literacy. Additionally, it details the integration of technical audits and inspections into the SmartLivingEPC rating scheme. This second version applies and calculates these indicators for SmartLivingEPC pilot buildings, demonstrating their practical implementation.

[Read more](#)

D2.5

Asset methodology assessment in building complex level v2

UDEUSTO

This document presents the final asset indicators at the neighborhood level for the SmartLivingEPC project, aimed at developing a methodology to evaluate energy performance and sustainability at the neighborhood scale. This report is the continuation of deliverable 2.2 "Asset assessment methodology in complex level v1".

[Read more](#)

D2.6

Asset rating calculation methodology of SmartLivingEPC v2

AIIRFV

Deliverable D2.6 is created within WP2, which focuses on developing methods for assessing building performance. In this work package, D2.6 is important since its goal is to define the asset rating computation method in the context of SmartLivingEPC. This deliverable primary goal is to conceive a comprehensive and internationally accepted method for assigning asset ratings in conjunction with the proposed weighting mechanism. A variety of performance measures, including energy efficiency, environmental sustainability, smart readiness, and non-energy aspects like indoor environmental quality and accessibility were included in the suggested method. This deliverable is an updated version of the deliverable D2.3.

[Read more](#)

D3.4

Operational assessment methodology in building level v2

FRC

Deliverable 3.4 presents the analysis of the SmartLivingEPC operational methodology at the building level, including the results from WP3. It details the methodology for assessing indoor environment quality (IEQ), including virus risk mitigation, through a combination of CO2 and occupancy data, thermal comfort, air quality, and other IEQ factors. The deliverable also covers the operational level energy analysis, emphasizing the use of smart meters and IoT sensors and the utilization of operational level energy indicators. Additionally, it includes the financial analysis based on Life Cycle Costing (LCC), highlighting cost elements, financial variations, and indicators specifically designed to aid user awareness and smart planning. In this second version of the deliverable, the indicators mentioned above are applied and calculated for the SmartLivingEPC pilot buildings, demonstrating their practical implementation and effectiveness.

[Read more](#)

D3.5

Operational assessment methodology in complex level v2

UDEUSTO

This report is the continuation of deliverable 3.2 "Operational assessment methodology in complex level v1". Its main axis is the description of the final operational indicators of the SmartLivingEPC project, whose objective is to develop a methodology to evaluate energy performance and sustainability at the neighborhood level.

[Read more](#)

D3.6

Operational rating calculation methodology of SmartLivingEPC v2

FRC

D3.6 is an updated version of D3.3 Operational rating calculation methodology of SmartLivingEPC v1, submitted in M15.

[Read more](#)

D4.1

SmartLivingEPC CIEM & Building Dynamic Behaviour Monitoring Platform v1

CERTH

The D4.1 deliverable presents the work from T4.1 and T4.2, detailing the development of the Common Information Exchange Model (CIEM) and the Building Dynamic Behaviour Monitoring System for the SmartLivingEPC project. It describes the CIEM's architecture, functionality, and data schemas, emphasizing data transformation for other platform components. The Building Dynamic Behaviour System models energy usage, indoor conditions, and occupancy to understand building behavior. This framework integrates BIM and IoT data, supported by a robust data model and management strategies. The deliverable outlines methodologies, algorithms, and the current implementation state, with a final version due by M22.

[Read more](#)

D4.3

EPCs calculation and APIs v1

IESRD

This report describes the work related to the initial development of the Energy Performance Certificates (EPCs) calculation of SmartLivingEPC, as well as the related Application Programming Interfaces (APIs) tailored for integration with third-party applications. The EPCs calculation process relies on the ongoing methodologies produced in Work Packages 2 and 3 for both schemes, Asset and Operational respectively. This computational infrastructure will be an integral part for the final visualization and Internet of Things (IoT) platform of SmartLivingEPC.

[Read more](#)

D4.4

SmartLivingEPC CIEM & Building Dynamic Behaviour Monitoring Platform v2

CERTH

The D4.4 deliverable presents the final development of the Common Information Exchange Model (CIEM) and the Building Dynamic Behaviour Monitoring System for the SmartLivingEPC project. It details the CIEM's architecture, sub-component functionality, and data schemas, focusing on reformulating static and real-time building data for platform use. The Building Dynamic Behaviour System models energy usage, indoor conditions, and occupancy, emphasizing occupant impact. This framework integrates BIM and IoT data for a cohesive ecosystem, supported by a robust data model and management strategies. The document explores methodologies, algorithms, and data acquisition specifics, providing a comprehensive overview of the final implementations and connections with pilot sites.

This deliverable is not publicly available

D6.2

SmartLivingEPC Pilot Planning and Setup

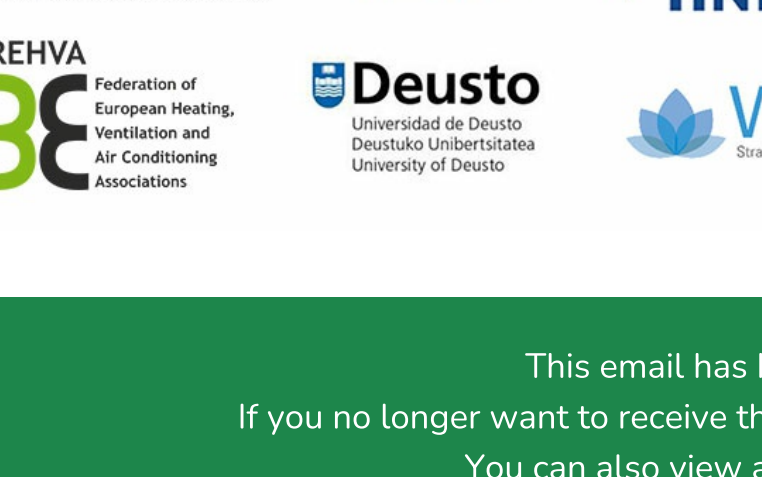
TalTech

Overview of the planning and setup activities related to the pilot buildings. The main objective is to compile the concise plans outlining each pilot metering equipment and the planning for future installations. Furthermore, the objective is to give an overview of the status of the communication methods and data exchange with SmartLivingEPC's Common Information Exchange Model (CIEM). A short description of each pilot is included, addressing the metering equipment, the connection readiness to CIEM, and what needs to be installed in the future. The installation plan is based on the integrated solution that is delivered in D5.1.

[Read more](#)

NEWS & EVENTS

Transposing and implementing the EPBD Recast



The NextGenEPC partners gathered in Brussels for the EPBD Recast edition conference. The event provided some common context related to EU policy, EPBD recast, and introduction to EU-funded NextGenEPC projects, then showed an overview of insights and outcomes of 4 projects and later on deep dived into the Key Exploitable Results. The event concluded with the third-party feedback and views. The SmartLivingEPC project presented its roll-up during the network drinks at the end of the event. We always enjoy seeing progress of our sister projects!

Smart Readiness Indicator Joint Event

The SRI Joint event brought together the projects from the SRI cluster, the CINEA, and the DG ENER, but also related projects including SmartLivingEPC. The focus was on the interconnected energy systems and the pivotal role of smart technologies in the clean energy transition. Dimosthenis Ioannidis from CERTH was representing the SmartLivingEPC project during the Roundtable Discussion.



The 4th Plenary meeting

SmartLivingEPC partners met in Delft, The Netherlands for the 4th Plenary meeting. The meeting was hosted by our Dutch partner DEMO Consultants. We came together to discuss the steps taken in advancing energy performance certification.

The meeting was successful, and we again had a great opportunity to improve the bond between the consortium partners even further.

SmartLivingEPC video is out!

SmartLivingEPC project in a nutshell!

Check out the 3-minute video, where the goals and concept of the project are presented - click on the button below!

[Video](#)

This project has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement no 101069639.

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