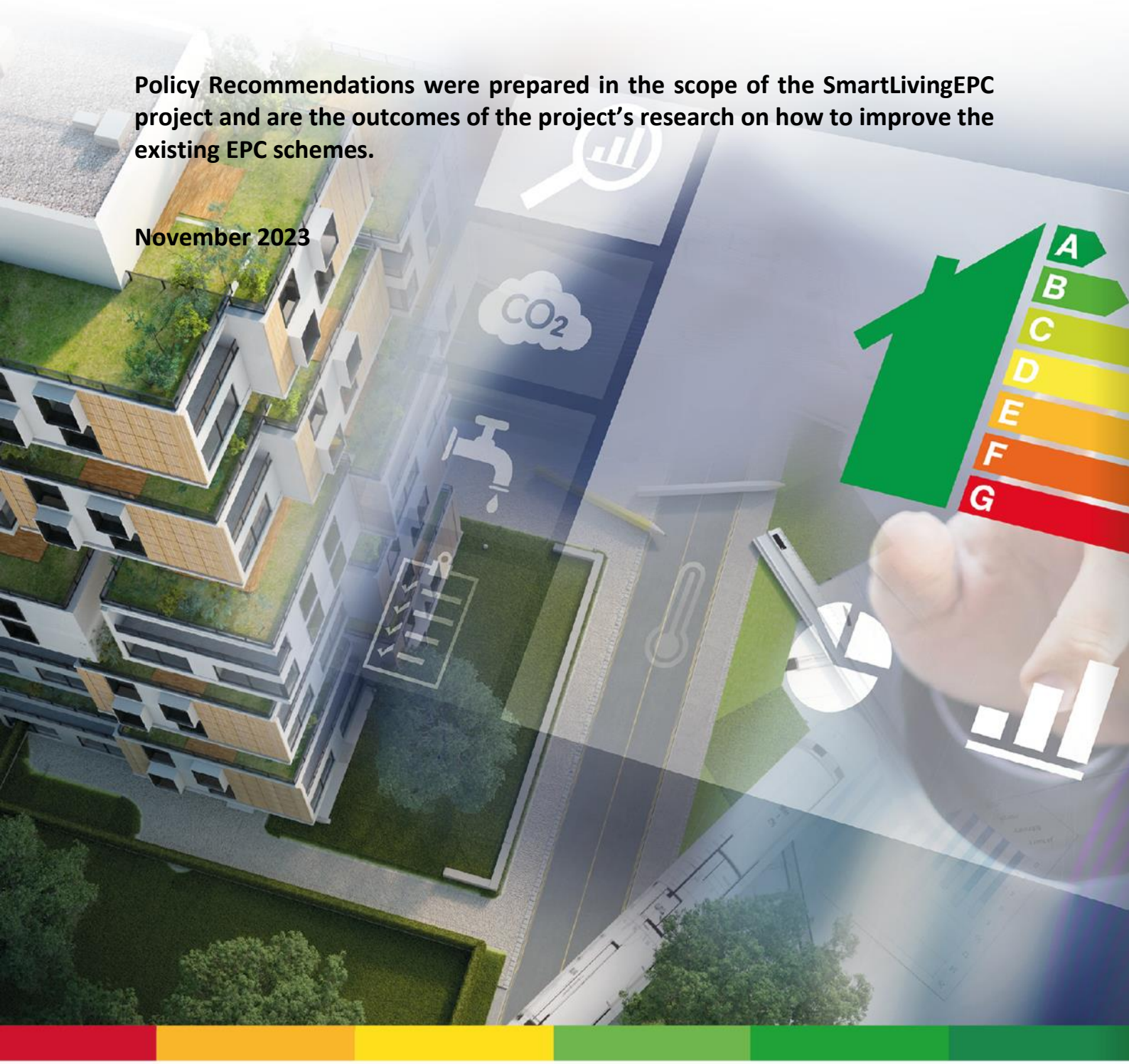
SmartLivingEPC Policy Recommendations

Policy Recommendations were prepared in the scope of the SmartLivingEPC project and are the outcomes of the project's research on how to improve the existing EPC schemes.

November 2023



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PR#1: Integrated Lifecycle Energy Assessment: Advancing Holistic Building Evaluations through IoT and AI.

Recommend the adoption of an integrated energy performance assessment methodology that considers the building's entire lifecycle data. This should leverage IoT and AI tools to evaluate a building's holistic energy performance, encompassing elements such as air quality, comfort, and well-being of occupants.

PR#2: Empowering EPC with SRI: A Blueprint for Enhanced Energy Savings

Endorse the integration of the Smart Readiness Indicator (SRI) scheme into the Energy Performance Certificate (EPC) calculation procedure. The SRI, being a measure of building intelligence, should influence the final EPC rating to promote energy savings in the building sector.

PR#3: Sustainability Meets Energy: Incorporating Level(s) Indicators into Future Energy Performance Certificates.

Advise integrating sustainability indicators from the Level(s) scheme into future EPCs. This will harmonize building energy performance considerations with European Union sustainability initiatives and support a life cycle approach to building evaluation.

PR#4: Revolutionizing EPCs: Merging Periodic Building Technical Systems Audits for Accurate Energy Classification.

Encourage the incorporation of building systems' periodic audit results into the EPC calculation process. This ensures that the operational energy efficiency of building technical systems is actively considered when certifying a building's energy performance.

PR#5: Digital Construction in EPCs: Leveraging Industry 4.0 Tools for Precision-Certification.

Advocate for the inclusion of digital construction practices from Industry 4.0 in the certification process. EPCs should be compatible with tools like Building Information Modelling (BIM) and be informed by real-time data from smart sensors and digital twins.

PR#6: EPCs and Digital Logbooks: Enhancing Building Transparency through Integrated Frameworks.

Propose that future EPCs are designed to be compatible with digital building logbooks. This will enhance transparency and decision-making by consolidating building lifecycle information and integrating it with established frameworks.

PR#7: Neighborhood-Scale Energy Classification: Pioneering District-Wide Efficiency Assessments.

Support the establishment of a neighborhood-scale energy classification methodology. Such a scheme should evaluate individual building units in context with their wider energy community, promoting district-level energy efficiencies.

PR#8: Advancing Operational Rating: Establishing Robust Methodologies and Practices for Comprehensive Building Evaluations.

Operational ratings offer an authentic evaluation of a building's energy usage and environmental impact. Key recommendations include developing standardized operational rating assessment methodologies, integrating real-time data, and promoting interdisciplinary collaboration for refining rating practices.

Advanced Energy Performance Assessment towards Smart Living in Building and District Level

https://www.smartlivingepc.eu/en/

https://www.linkedin.com/company/smartlivingepc/

https://twitter.com/SmartLivingEPC

https://www.youtube.com/channel/UC0SKa-20tiSabuwjtYDqRrQ

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