JOINT FINAL CONFERENCE

Next Generation Energy Performance Assessment, Rating and Certification

Towards a Smart and Decarbonised Future for European Buildings

Part 1: Overall context Quick introduction and perspectives: D^2EPC, E-DYCE & ePANACEA

24 May 2023 Brussels and online

EDYCE: Energy flexible DYnamic building Certification: Greater temporal resolution of energy performance

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EDYCE coordinator



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Brussels, 24th of May 2023



Content

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- Motivation
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- Concept
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EDYCE: Energy flexible DYnamic building Certification: Greater temporal resolution of energy performance

irant number:	893945
12020 call:	H2020-LC-SC3-EE-2019
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U contribution:	2,495,177.50
countries:	Denmark, Italy, Switzerland, Greece, Germany



EDYCE consortium



➢ 2 Universities

> 5 SMEs

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- ➤ 2 Municipalities
- ➤ 1 National Agency



#	NAME	COUNTRY
١	AALBORG UNIVERSITET	Denmark DK
2	POLITECNICO DI TORINO	Italy IT
3	CORE INNOVATION CENTER NPO (CORE IC)	Greece GR
4	ЕМТЕСН GMBH	Germany DE
5	ESTIA	Switzerland CH
6	ENEA*	Italy IT
7	GENIKI EXYPP PROSTASIA S.A. (GEP)	Greece GR
8	OFFICE CANTONAL DE L'ÉNERGIE GENÈVE	Switzerland CH
9	ТРМ	Italy IT
10	NEOGRID TECHNOLOGIES APS	Denmark DK

Motivation



Gram-Hanssan and Hansen, 2016

230k buildings with EPC 135k buildings with metered heat



Key objectives

- Methodology for dynamic certification of buildings based on openly available resources and tools.
- To develop integration framework.
- Increase the user's awareness about real energy and IEQ (both expert and tenant).
- To facilitate the shift from standard to adapted condition of use.
- Methodology application in demonstration buildings

How?

Dynamic modelling Monitoring – use of operational data

Middelware solution - FusiX Store and link monitoring and simulation outcome

DEPC protocol for end users (KPIs)

Understand performance gap Detect operational savings potential Promote free running

Test the methodology and tools using different real case buildings

Concept



EDYCE Demonstrations





Energy flexible DYnamic building CErtification



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