

Interreg - IPA CBC 
EUROPEAN UNION



CCI 2014 TC 16 I5CB 009

BENEFIT

BENEFIT

Building ENergy EFficiency Improvement: Demonstration for public buildings



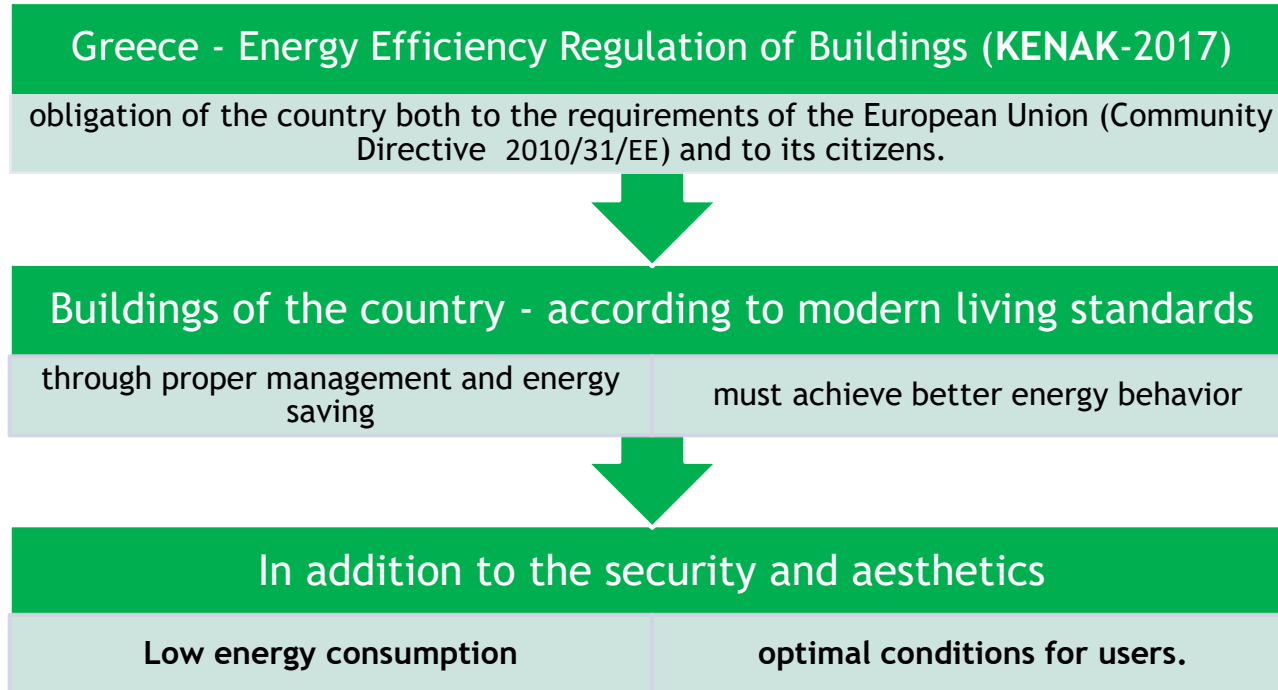
Kozani, 21 September 2019

Energy upgrading policy in Europe and Greece

- ▶ At national and European level, the **building sector** is responsible for about **40%-45% of total energy consumption**. In particular the need for heating of houses in Greece is around 70% of their total energy consumption.
- ▶ Energy consumption in buildings is steadily increasing, which results to a significant **financial burden**, due to the high cost of energy, and to the **pollution of the atmosphere** concerning mostly emissions of carbon dioxide .
- ▶ Thus, **saving energy** in buildings is imperative and is ensured by the **appropriate design** of buildings and the **use of energy-efficient building components and systems**.



Energy performance of buildings high on the European Union's (EU) priorities



Clear direction for the EU's transition by 2020 in new buildings with almost zero energy balance (passive buildings)

BENEFIT Project: objectives, main outputs & results

BENEFIT project basic info	
Project acronym & title	BENEFIT > Building ENergy EFficiency ImprovemenT: Demonstration for public buildings
Project budget	1.170.475,00€
Project duration	24 months starting from 01.09.2018 to 31.08.2020
Priority axis	2. Protection of Environment - Transportation
Specific Objective	2.1 Upgrade public infrastructure to improve road travel time, safe border crossing and promote energy efficiency towards green transport

Partnership



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΥΠΟΥΡΓΕΙΟ ΕΣΩΤΕΡΙΚΩΝ
(ΜΑΚΕΔΟΝΙΑΣ-ΘΡΑΚΗΣ)



ΚΑΠΕ
CRES

ΚΕΝΤΡΟ ΑΝΑΝΕΩΣΙΜΩΝ ΠΗΓΩΝ & ΕΞΟΙΚΟΝΟΜΗΣΗΣ ΕΝΕΡΓΕΙΑΣ
CENTER FOR RENEWABLE ENERGY SOURCES & SAVING



MUNICIPALITY OF BITOLA

Public enterprise for urban planning,
architectural design and engineering Bitola

Project presentation: objectives, main outputs & results

Overall objective:

to strengthen the capacities of public authorities in the cross-border area of Greece-Republic of North Macedonia towards **energy-efficiency planning for upgrading public buildings' energy performance**, as well as to **increase energy awareness** of the wider society on benefits from energy-efficiency.

Project presentation: idea, objectives, main outputs & **results**

Main expected results

- ▶ Improved capacities of public authorities for **EE planning and energy retrofit projects** for public buildings
- ▶ **Exchange of experience** within networks of public authorities/stakeholders
- ▶ **Increase energy-awareness** at local/regional/national level through demonstration of ‘landmark’ public buildings’ energy retrofit projects in the CB area
- ▶ **Decrease in primary energy/CO2 emissions/operating costs** for 2 energy upgraded pilot buildings (Dioikitirio Thessaloniki, Sports House Bitola)
- ▶ **Boosting building industry in the field of EE materials/technologies** leading to growth and employment creation
- ▶ Attraction of investments through the preparation of bankable projects
- ▶ Multidimensional **contribution to goals** of Greece and North Macedonia towards 2020
- ▶ Contribution to **energy security & climate change mitigation** in Greece & North Macedonia

Project presentation: idea, objectives, main **outputs** & results

- * Strategic assessment of energy-saving potential through energy-efficiency improvements
- * Identification of financial mechanisms for EE interventions
- * Transnational guidelines for energy-efficiency planning for public authorities

Project presentation: objectives, main outputs & results

WP	Title	Start	End	Cost
WP 1	Project Management & Coordination	01/09/2018	31/08/2020	90.568,00 €
WP 2	Communication & Dissemination	01/09/2018	31/08/2020	99.406,00 €
WP 3	Mapping of energy efficiency for public buildings	01/09/2018	31/08/2020	113.135,00 €
WP 4	Energy efficiency planning for Regions and Municipalities	01/02/2019	28/02/2020	51.378,00 €
WP 5	Pilot Buildings' Energy Efficiency projects implementation in the cross-border area	01/11/2018	31/05/2020	772.452,00 €
WP 6	Policy uptake and community engagement	01/11/2018	31/07/2020	43.536,00 €
			Total Budget	1.170.475,00 €



*Ministry of Interior (Sector
Macedonia and Thrace)*



Sports House - Bitola

The study will focus on 3 main aspects affecting energy consumption

the proposed measures will relate and improve the following issues:



Windows energy behavior (glasses and framing included)



Illumination of the offices and free/common areas



Automated measurement and optimizing adjustment of the heating system operation

The initially expected improvements are the following:

-20%

- 20% reduction of gas energy consumption

-20%

- 20% reduction of illumination costs

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THE BENEFIT PROJECT

Kozani, 21 September 2019

www.benefitproject.eu

Thank you!!!