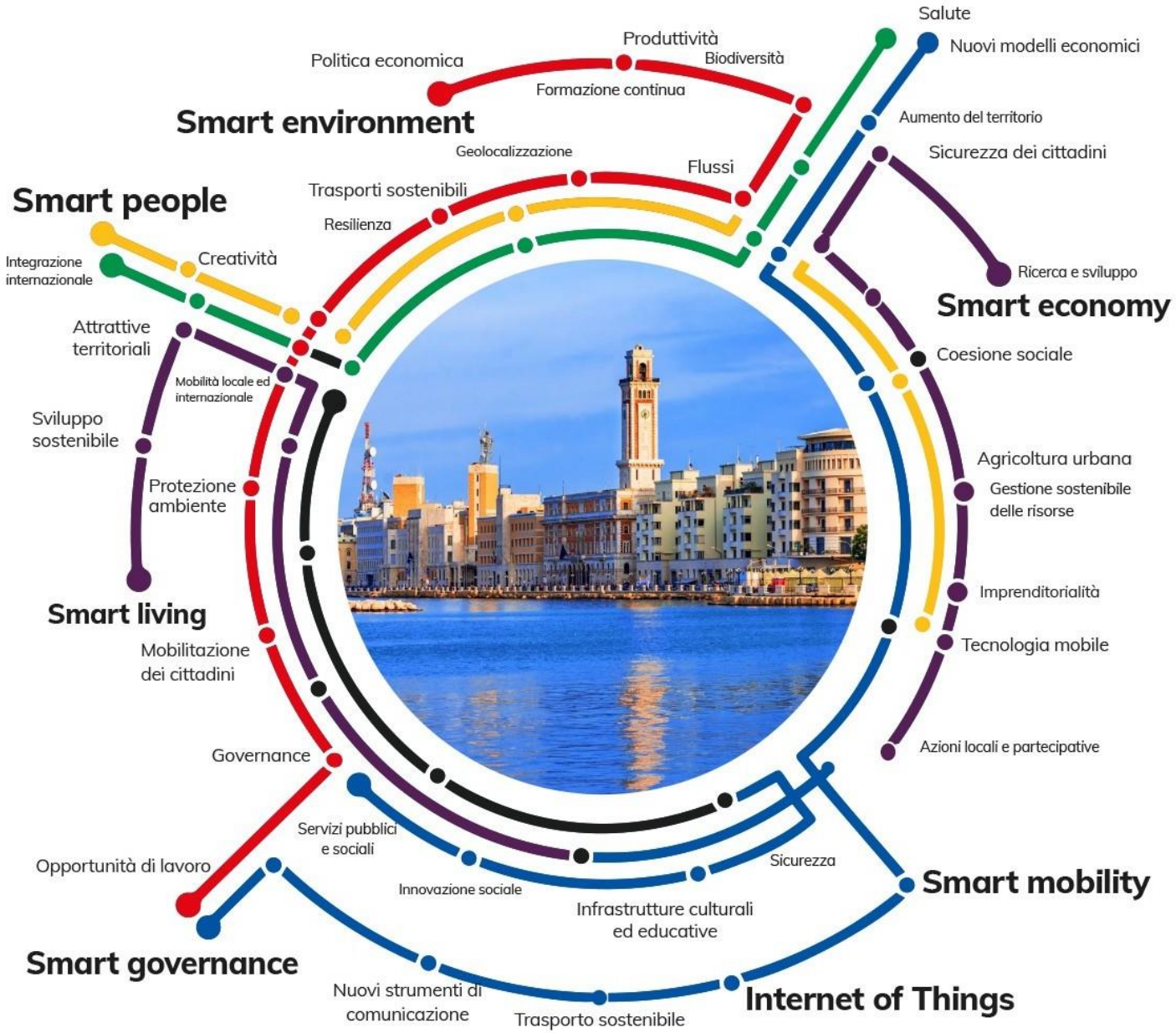


BARI SMART CITY CONFERENCE

11 Maggio 2022
Politecnico di Bari

12 Maggio 2022
Fiera del Levante Bari

Evento organizzato da

SMART BUILDING ITALIA
Powered by Pentastudio

In collaborazione con

Politecnico di Bari

SBA SMART BUILDINGS ALLIANCE FOR SMART CITIES

Smart Communities Tech

Partner

EDISON

cellnex
driving telecom connectivity

citelum
EDF GROUP

EMERSON

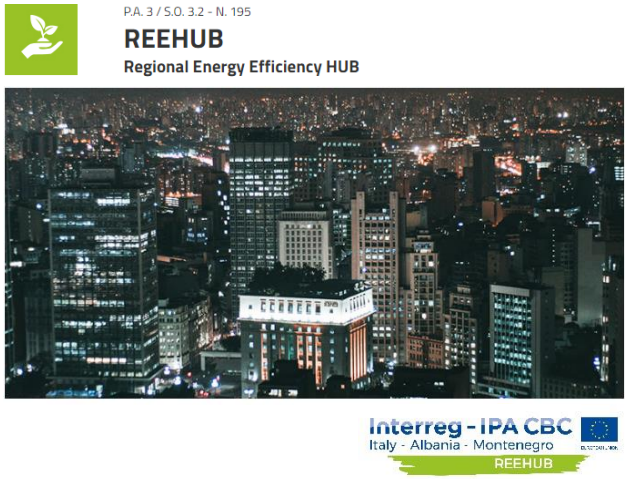
SIEMENS

TARGA SYSTEM

MAIN GOAL OF REEHUB PROJECT

INCREASE ENERGY EFFICIENCY OF PUBLIC BUILDINGS IN COUNTRIES & REGIONS OF THE PROGRAMM AREA

ACHIEVED THROUGH:

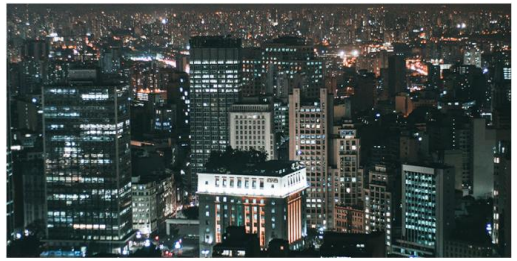


PROJECT OUTPUTS

- **SELECTION** OF A **HUB** INSIDE A PUBLIC BUILDING FOR EACH PARTNER / REGION
- HUB ADOPTED FOR **TRAINING ACTIVITIES/CAPACITY BUILDING/ROADSHOW/WORKSHOPS**
- HUB EQUIPED WITH **PROFESSIONAL INSTRUMENTS** FOR **MEASUREMENT CAMPAIGN**
- A JOINT **AUDIT METHODOLOGY DRAFTED** FOR ALL PARTNERS
- BASED ON ENERGY AUDIT DATA WERE IMPLEMENTED THE **INFRASTRUCTURE INTERVENTIONS** IN EACH HUB

REEHUB PROJECT

P.A. 3 / S.O. 3.2 - N. 195
REEHUB
Regional Energy Efficiency HUB



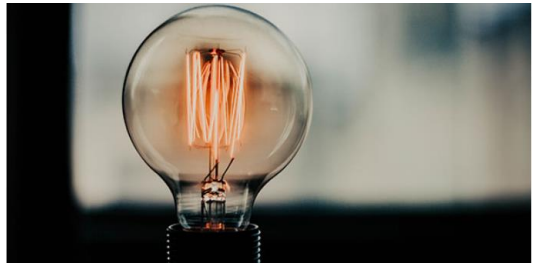
OUTPUTS

Interreg - IPA CBC
Italy - Albania - Montenegro
REEHUB

- EXISTING HUB / PARTNER
- EXISTING PROFFESSIONAL EQUIMPENT
- EXISTING AUDIT METHODOLOGY

REEHUB PLUS PROJECT

P.A. 3 / S.O. 3.2 - N. 436
REEHUB PLUS
Regional Energy Efficiency HUB Plus



INPUTS

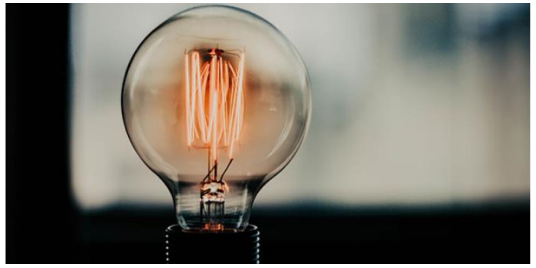
Interreg - IPA CBC
Italy - Albania - Montenegro
REEHUB PLUS

PROJECT START DATE: **01 SEPTEMBER 2020**

INSTITUTI PËR KËRKIM DHE ZHVILLIM BIRD

REEHUB PLUS PROJECT -> SHORT BIO

P.A. 3 / S.O. 3.2 - N. 436
REEHUB PLUS
Regional Energy Efficiency HUB Plus



PROJECT DURATION	**01 SEPTEMBER 2020 – 31 AUGUST 2022**
TOTAL BUDGET	**718.200,00 EUR**
EU CONTRIBUTION	**IPA co-financing 85%**
MAIN OUTPUT	**REEHUB network for new energy policy and EE approach**

PROJECT PARTNERSHIP

LEAD PARTNER

- BARLETI INSTITUTE FOR RESEARCH AND DEVELOPMENT

PROJECT PARTNERS

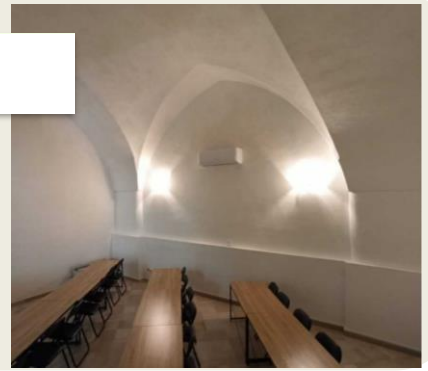
- ALBANIAN MINISTRY OF INFRASTRUCTURE AND ENERGY
- DISTRETTO TECNOLOGICO NAZIONALE SULL'ENERGIA SCARL
- UNIVERSITY OF MONTENEGRO FACULTY OF ARCHITECTURE
- MUNICIPALITY OF AGNONE

ASSOCIATED PARTNERS

- ENERGY REGULATORY AUTHORITY OF ALBANIA

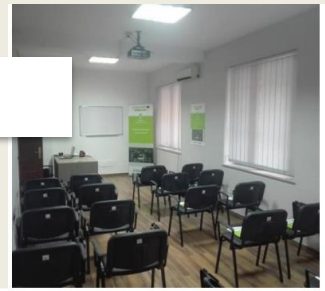
INPUT No.1 : EXISTING HUB / PARTNER

BRINDISI



MONTENEGRO

ALBANIA



AGNONE

HUB STRENGTHEN

- HUBS GET MORE CONSOLIDATED
- HUBS IN USE TO PROMOTE IN LARGER SCALE THE IMPORTANCE OF EE

No.2 : ENERGY EFFICIENCY DIAGNOSES

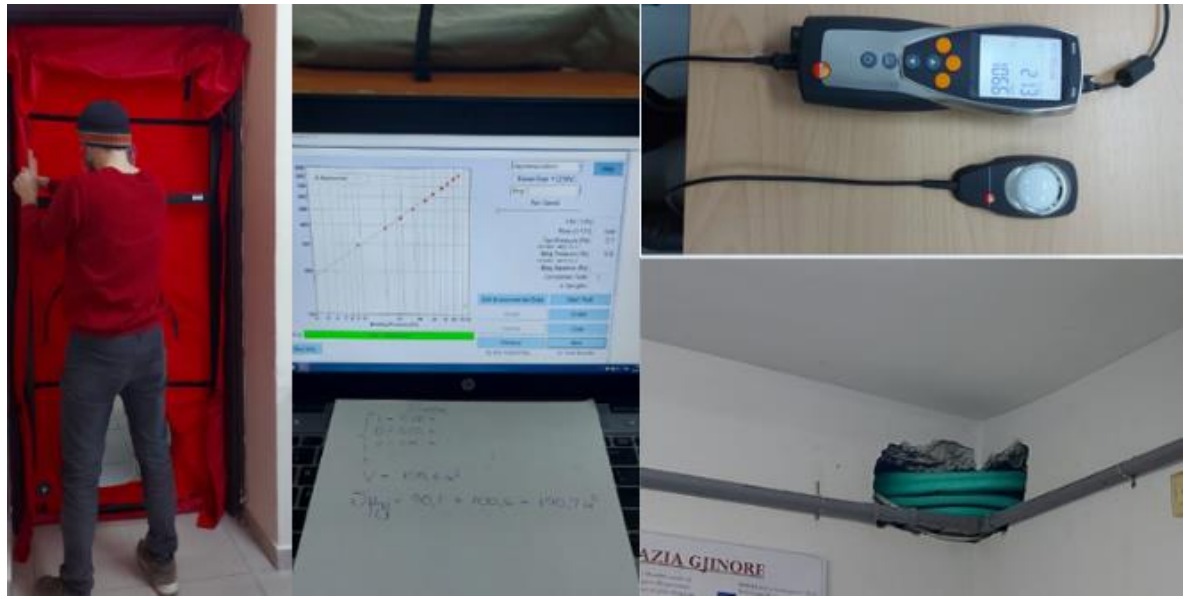
DIRECTED BY

DiTNE.

FROM A SMALL SCALE ENERGY DIAGNOSES OF A SINGLE PART OF A BUILDING

SHIFT TO

LARGE SCALE ENERGY DIAGNOSES OF THE WHOLE PUBLIC BUILDING (11 PUBLIC BUILDINGS IN ALL COUNTRIES)



No.2 : ENERGY EFFICIENCY DIAGNOSES

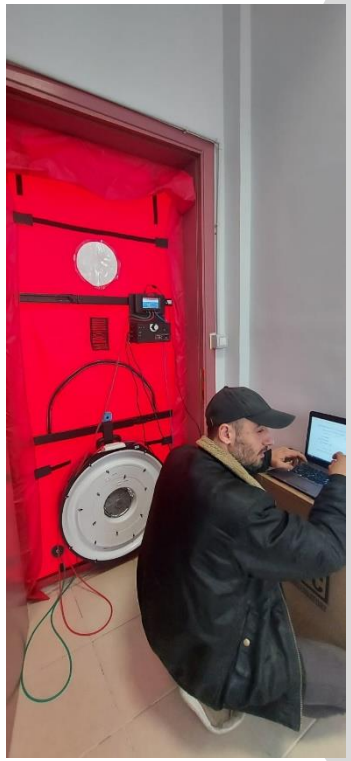
DIRECTED BY

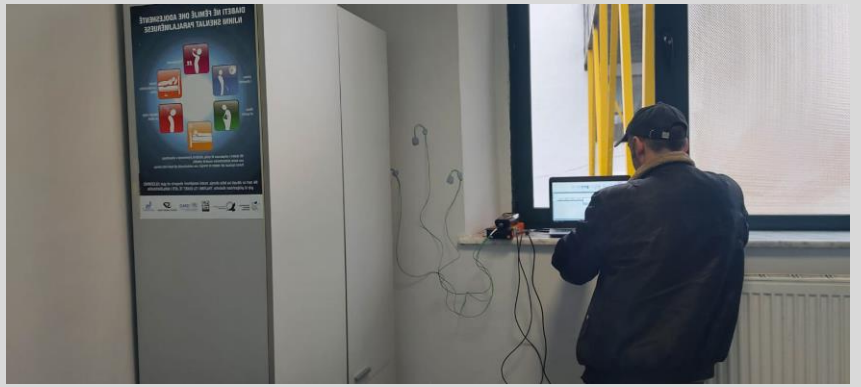
DiTNE

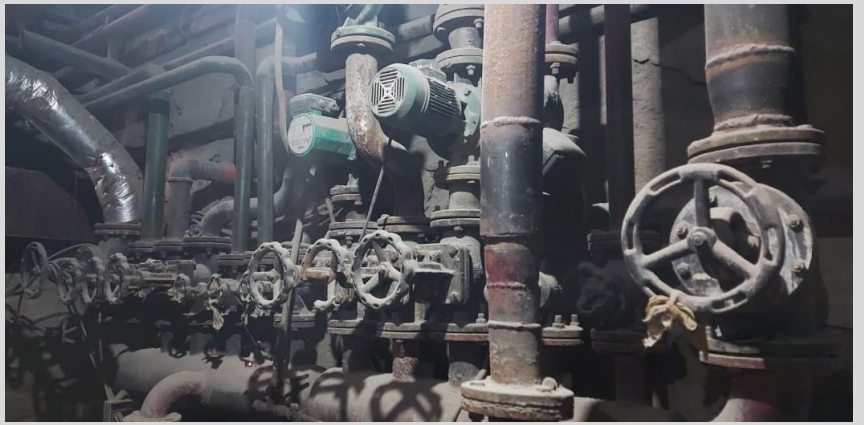
FROM A SMALL SCALE ENERGY DIAGNOSES OF A SINGLE PART OF A BUILDING

SHIFT TO

LARGE SCALE ENERGY DIAGNOSES OF THE WHOLE PUBLIC BUILDING (11 PUBLIC BUILDINGS IN ALL COUNTRIES)







No.2 : ENERGY EFFICIENCY DIAGNOSES

DIRECTED BY

DI.T.N.E.

FROM A SMALL SCALE CALCULATIONS OF A SINGLE PART OF A BUILDING

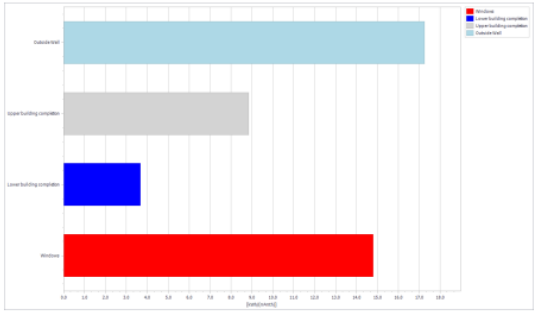
SHIFT TO

LARGE SCALE CALCULATIONS OF THE WHOLE PUBLIC BUILDING (11 PUBLIC BUILDINGS IN ALL COUNTRIES)

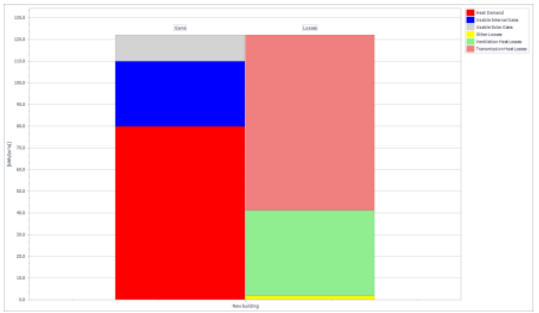
2 ANALYSIS OF ENERGY CHARACTERISTICS OF THE BUILDING

Visiting the site and collecting the necessary data about the building		
Date of visit #1	15 April 2021	*Auditor B. Gligorić visited the building and collected the available project documentation.*
Date of visit #2	29 April 2021	*Two audit team members visited the site to collect the necessary data about the building and survey the current condition.*
MANAGEMENT OF CONSUMPTION AND COSTS		
Data on the person responsible for energy management in the building		
Short description of the characteristics of energy consumption and cost management		
Funding energy costs	Energy costs are covered by the University of Montenegro.	
System of making decisions on investments in the building's maintenance	-	
Functioning of the system of information about energy consumption		

Transmission heat losses



Heat balance



2.1 Analysis of thermal insulation characteristics of the building envelope

Building Components

Name	Area [m²]	U value [W/(m²K)]	Max U value [W/(m²K)]	Orientation	Incline
SZ1 External Wall North	84.35	0.6239218	0.6	North	Incline 90
SZ1 External Wall East	75.95	0.6239218	0.6	East	Incline 90
SZ1 External Wall South	83.06	0.6239218	0.6	South	Incline 90
SZ1 External Wall West	75.95	0.6239218	0.6	West	Incline 90
SZ2 External Wall North	32.98	1.770268	0.6	North	Incline 90
SZ2 External Wall East	41.37	1.770268	0.6	East	Incline 90
SZ2 External Wall South	1.67	1.770268	0.6	South	Incline 90
SZ2 External Wall West	41.38	1.770268	0.6	West	Incline 90
SZ3 External Wall South	88.06	0.5275112	0.6	South	Incline 90
SZ4 External Wall North	0.98	1.451108	0.6	North	Incline 90
SZ4 External Wall East	5.04	1.451108	0.6	East	Incline 90
SZ4 External Wall South	5.04	1.451108	0.6	South	Incline 90
SZ4 External Wall West	5.04	1.451108	0.6	West	Incline 90
SZ5 External Wall North	7.56	2.137133	0.6	North	Incline 90
SZ5 External Wall East	7.56	2.137133	0.6	East	Incline 90
SZ5 External Wall West	7.56	2.137133	0.6	West	Incline 90
UZ1 Wall to Ground	132.93	0.6239218	0.5		
POD1 Ground Floor	113.06	0.6526799	0.5		

POD2 Ground Floor	310.07	0.6464451	0.5		
KROV1 Flat Roof	347.9	0.6617205	0.4	Horizontal	
KROV2 Flat Roof	86.98	0.5702437	0.4	Horizontal	
PR1 Window West	50.81	3.13397	1.5	West	Incline 90
PR1 Window North	50.81	3.13397	1.5	North	Incline 90
PR1 Window East	50.81	3.13397	1.5	East	Incline 90
KPR3 Roof Window	4.5	3.86	0.4	Horizontal	
V1 External Door	6.2	3.13397	1.5	South	Incline 90

2.1.1 *External walls (EW)*

EW1

AB 25 cm, Polystyrene 5 cm, Mortar 2.5 cm

EW1 is an external AB wall 25 cm thick, with installed thermal insulation – polystyrene (expanded polystyrene - EPS) 5 cm thick. However, the insulation thickness **does not meet the minimum requirements laid down in the Rulebook on minimal energy efficiency requirements in buildings**

Note

Orientation	N	NE	E	SE	S	SW	W	NW	Minimal U-value W/m²K	Total surface area
Wall surface area (m²)	84.35		75.95		83.06		75.95			***319.31***
U-value (W/m²K)	0.624		0.624		0.624		0.624		>0.4	

EW2

AB 60 cm, Mortar 2.5 cm

EW2 is an external AB element, a column 60 cm thick, without thermal insulation. The wall **does not meet the minimum requirements laid down in the Rulebook on minimal energy efficiency requirements in buildings**

Orientation	N	NE	E	SE	S	SW	W	NW	
Wall surface area (m²)	32.98		41.37		1.67		41.38		***117.40***
U-value (W/m²K)	1.770		1.770		1.770		1.770		>0.4

EW3

BRICK 20 cm, Polystyrene 5 cm

This wall is situated on the south side. Compared to other walls, it has the best thermal characteristics concerning the minimum requirements laid down in **the minimum requirements laid down in the Rulebook on minimal energy efficiency requirements in buildings**

Orientation	N	NE	E	SE	S	SW	W	NW	
Wall surface area (m²)					88.06				***88.06*** entrance façade
U-value (W/m²K)					0.482				>0.4

EW4

AB 80.5 cm, Mortar 2.5 cm

This position is not a typical external wall but a surface at the junction between the external wall EW1 and the vertical AB elements situated between the windows. Due to the number of elements, we have decided to calculate the surface, although external envelope elements of this kind can also be calculated through thermal bridges.

Orientation	N	NE	E	SE	S	SW	W	NW	
Wall surface area (m²)	0.98		5.04		5.04		5.04		***16.11*** 8 pieces 0.16x3.94
U-value (W/m²K)	1.451		1.451		1.451		1.451		>0.4

EW5

AB 44 cm, Mortar 2.5 cm

The same as for EW4.

Orientation	N	NE	E	SE	S	SW	W	NW	
Wall surface area (m²)	7.56		7.56				7.56		***22.69*** 12 pieces 0.16x3.94
U-value (W/m²K)	2.137		2.137				2.137		>0.4

563.574

	N	NE	E	SE	S	SW	W	NW
TOTAL SURFACE AREA	125.87	0.00	129.93	0.00	177.83	0.00	129.94	0.00

The general condition of the external walls is good. The structure is in good condition with no visible damage.

Photographs of the external walls

Image 1: External walls

No.2 : ENERGY EFFICIENCY DIAGNOSES

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FROM A SMALL SCALE CALCULATIONS OF A SINGLE PART OF A BUILDING

SHIFT TO

LARGE SCALE CALCULATIONS OF THE WHOLE PUBLIC BUILDING (11 PUBLIC BUILDINGS IN ALL COUNTRIES)

meet the minimum values of the structure's thermal conductivity. The table below provides information about existing roof types:

structure	ROOF1		minimal U-value [W/m²K]	total surface area [m²]
	AB plate 20 cm, thermal insulation EPS 5 cm			434.88
	Roof surface area [m²]	347.90		
	U-value [W/m²K]	0.614	>0.4	

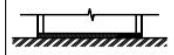
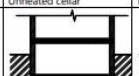
structure	ROOF2		
	AB beam 60 cm, TI 5cm		
	Roof surface area [m²]	86.98	86.976
	U-value [W/m²K]	0.518	>0.4

*12 ribs*0.20 m = 4.8 m*
~20% of the total surface area

2.1.6 *Floor structure above the outer and inner space*

The building does not have this type of structure.

2.1.7 *Floor or wall in contact with the ground*

Floor type FL1 The floor on the ground	Floor type FL2 Unheated cellar	Floor type FL3 Heated cellar
		
Average temperature [°C]		19
The height of the floor surface above the outer ground level [m']		0.55
Cellar depth below ground level [m']		2.46
The height of the cellar room [m']		3.01

structure	FLOOR1		minimal U-value [W/m²K]
	AB 10 cm, TI 5 cm, ceramic tiles		
	Floor surface area [m²]	113.06	
	U-value [W/m²K]	0.585	>0.5

structure	[illegible], linoleum	
	[illegible]	310.07
		0.646 >0.5

The floors on the ground are divided into two parts, one situated below the basement, with a surface area of 113.06 m², and the other below the ground floor, covering an area of 310.07 m². Both floors have layers of thermal insulation 5 cm thick, which is insufficient to meet the minimum requirements laid down in the Rulebook. Because of the specific character of the floor structure, we will not propose measures for this structural part.

Photographs

Image 16: Floor on the ground - basement

Image 17: Floor on the ground - ground floor

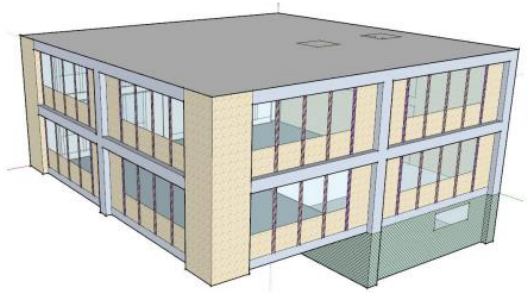


Image 26: North and west façades

7.8 Annex: An overview of the use of the rooms in the building

DETAILED ENERGY AUDIT

BUILDING TOWN: FACULTY OF ARCHITECTURE, UNIVERSITY OF MONTENEGRO
Podgorica
YEAR: 2021

currently unheated

ANALYSIS OF SURFACES

No	FLOOR	ROOM	NET FLOOR AREA m2	HEATED NET AREA m2	Height between the floor structures m'	Height with the floor structure thickness m'	HEATED NET VOLUME m3	HEATED GROSS VOLUME m3
1	Basement	Lobby with staircase	14.71	14.71	3.01	3.18	44.28	79.11
2	Basement	Hallway	4.70	4.70	3.01	3.18	14.15	25.28
3	Basement	Female toilet	25.59	25.59	3.01	3.18	77.03	137.63
4	Basement	Teachers' toilet	4.42	4.42	3.01	3.18	13.30	23.77
5	Basement	Male toilet	9.98	9.98	3.01	3.18	30.04	53.67
6	Basement	Kitchenette	10.08	10.08	3.01	3.18	30.34	54.21
7	Basement	Caretaker's room	6.44	6.44	3.01	3.18	19.38	34.64
		TOTAL NET AREA	**75.92**	**75.92**			**228.52**	**408.31**
		Total GROSS surface area	**128.4**	**128.40**				

1.691

RB	FLOOR	ROOM	NET FLOOR AREA m2	HEATED NET AREA m2	Height between the floor structures m'	Height with the floor structure thickness m'	HEATED NET VOLUME m3	HEATED GROSS VOLUME m3
1	GROUND FLOOR	Lobby with staircase	15.72	15.72	3.83	4.00	60.21	74.50
2	GROUND FLOOR	Library	38.18	38.18	3.83	4.00	146.23	180.93
3	GROUND FLOOR	Professor's office	17.56	17.56	3.83	4.00	67.25	83.21
4	GROUND FLOOR	Professor's office	14.66	14.66	3.83	4.00	56.15	69.47
5	GROUND FLOOR	Professor's office	22.61	22.61	3.83	4.00	86.60	107.15
6	GROUND FLOOR	Professor's office	7.77	7.77	3.83	4.00	29.76	36.82
7	GROUND FLOOR	Student administration office	15.72	15.72	3.83	4.00	60.21	74.50
8	GROUND FLOOR	Workroom	102.24	102.24	3.83	4.00	391.58	484.50

No.2 : ENERGY EFFICIENCY DIAGNOSES

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FROM A SMALL SCALE CALCULATIONS OF A SINGLE PART OF A BUILDING

SHIFT TO

LARGE SCALE CALCULATIONS OF THE WHOLE PUBLIC BUILDING (11 PUBLIC BUILDINGS IN ALL COUNTRIES)

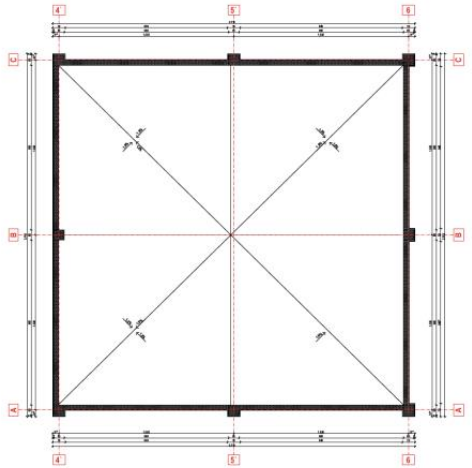

Image 30: Roof plan

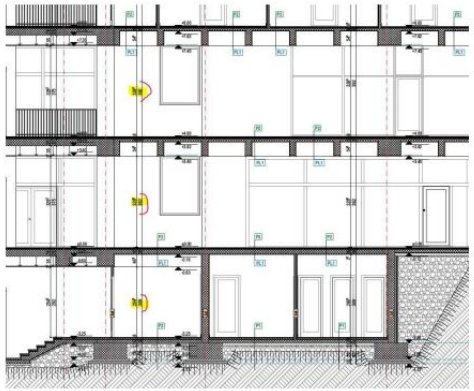

Image 31: Cross-section of the planned extension that incorporates the present building

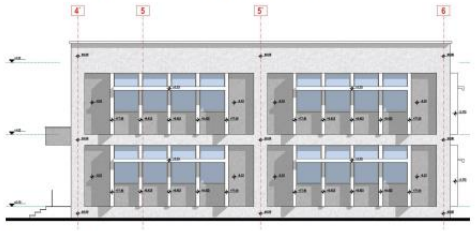

Image 32: East façade

9	GROUND FLOOR	Workroom	95.82	95.82	3.83	4.00	366.99	454.08
10	GROUND FLOOR	Hallway	31.62	31.62	3.83	4.00	121.10	149.84
		TOTAL NET AREA	**361.90**	**361.90**			**1386.08**	**1715.00**
		Total GROSS surface area	**428.75**	**428.75**				

1.185

No	FLOOR	ROOM	NET FLOOR AREA m2	HEATED NET AREA m2	Height between the floor structures m'	Height with the floor structure thickness m'	HEATED NET VOLUME m3	HEATED GROSS VOLUME m3
1	1st FLOOR	Lobby with staircase	32.48	32.48	3.83	4.00	124.40	143.86
2	1st FLOOR	Dean's office	18.73	18.73	3.83	4.00	71.74	82.96
3	1st FLOOR	Secretary	19.37	19.37	3.83	4.00	74.19	85.79
4	1st FLOOR	Professor's office	23.50	23.50	3.83	4.00	90.01	104.08
5	1st FLOOR	Accounting office	14.43	14.43	3.83	4.00	55.27	63.91
6	1st FLOOR	Hallway	4.73	4.73	3.83	4.00	18.12	20.95
7	1st FLOOR	Professor's office	20.32	20.32	3.83	4.00	77.83	90.00
8	1st FLOOR	Professor's office	14.96	14.96	3.83	4.00	57.30	66.26
9	1st FLOOR	Workroom	101.76	101.76	3.83	4.00	389.74	450.71
10	1st FLOOR	Workroom	99.90	99.90	3.83	4.00	382.62	442.47
11	1st FLOOR	Hallway	37.03	37.03	3.83	4.00	141.82	164.01
		TOTAL NET AREA	**387.21**	**387.21**			**1483.01**	**1715.00**
		Total GROSS surface area	**428.75**	**428.75**				

1.107

TOTAL **NET FLOOR** AREA m2	TOTAL **NET HEATED** AREA m2
825.03	**825.03**

TOTAL **NET** HEATED VOLUME m3	TOTAL **GROSS HEATED** VOLUME m3
3097.61	**3838.31**

0.807

TOTAL **GROSS FLOOR** AREA m2	TOTAL **GROSS HEATED** AREA m2
985.90	**985.90**

7.9 **Annex: An overview of available project documentation**

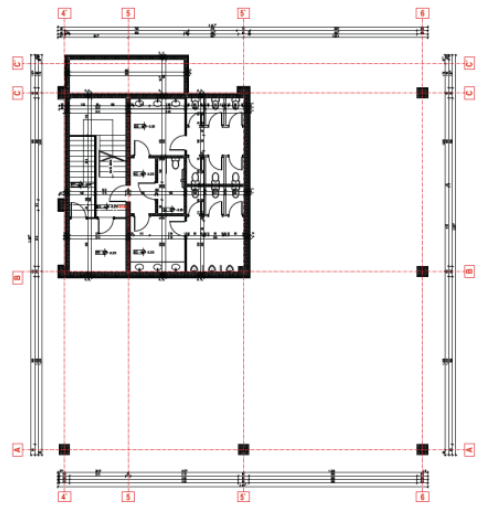

Image 27: Basement floor plan

INPUT No.2 : PROFESSIONAL EQUIPMENT

DIRECTED BY

Di.T.N.E.

RELATED TO MEASUREMENT CAMPAIGN & HUB STRENGTHEN WERE AQUISTED OTHER & MORE PROFESSIONAL EQUIPMENT FOR ENERGY EFFICIENCY DIAGNOSES










INSTITUTI PËR KËRKIM DHE ZHVILLIM BIRD

SHARED TRAINING PROGRAM FOR ENERGY AUDIT

DIRECTED BY

UCG
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WITHIN REEHUB PLUS PROJECT WAS DRAFTED AND LAUNCHED THE SHARED TRAINING PROGRAM ON ENERGY AUDIT FOR ALL PROJECT PARTNERS SHOWING THE DETAILED RESULTS AND ISSUES OF THE AUDIT METHODOLOGY PROGRAMM

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INSTITUTI PËR KËRKIM DHE ZHVILLIM BAREU
BIRD

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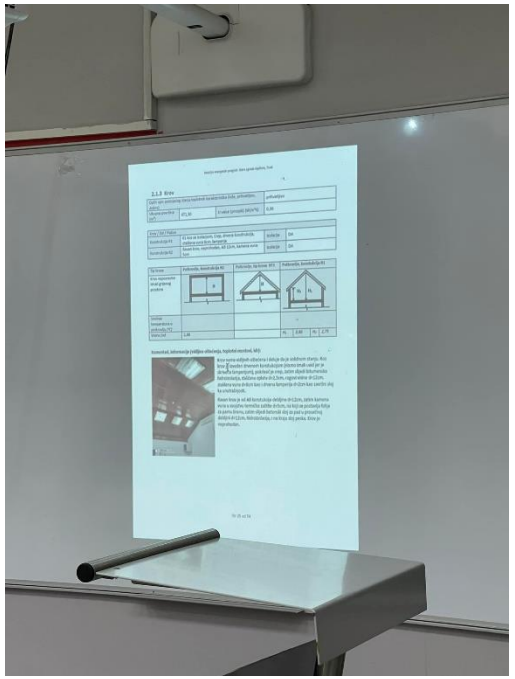
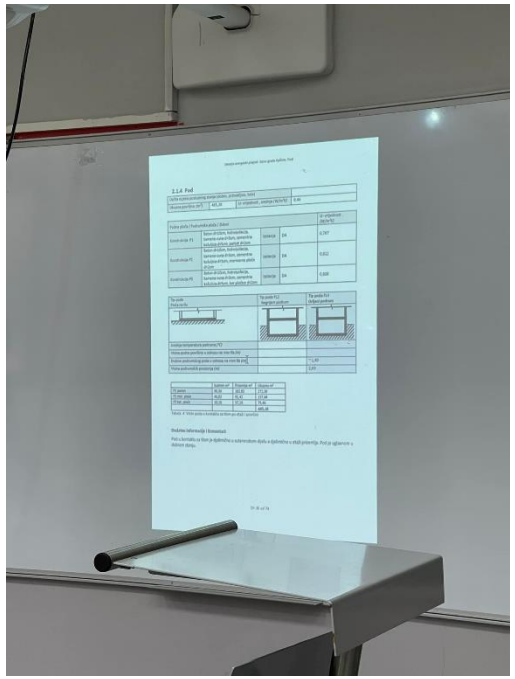
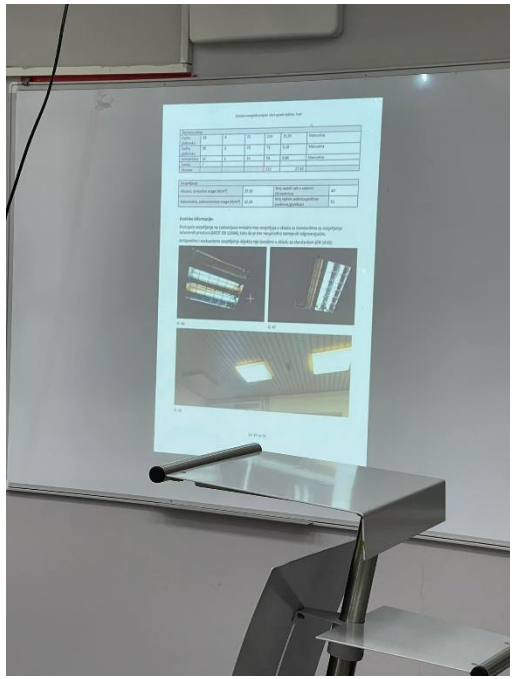
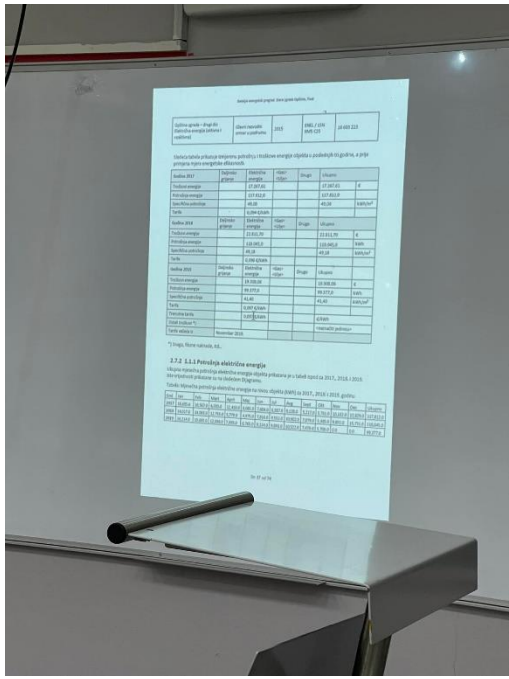
PRESENTATION OF MONTENEGRIN ENERGY EFFICIENCY CERTIFICATE – TRAINING ON AUDIT SOFTWARE

CAPACITY BUILDING / PUBLIC AWARENESS ACTIVITIES

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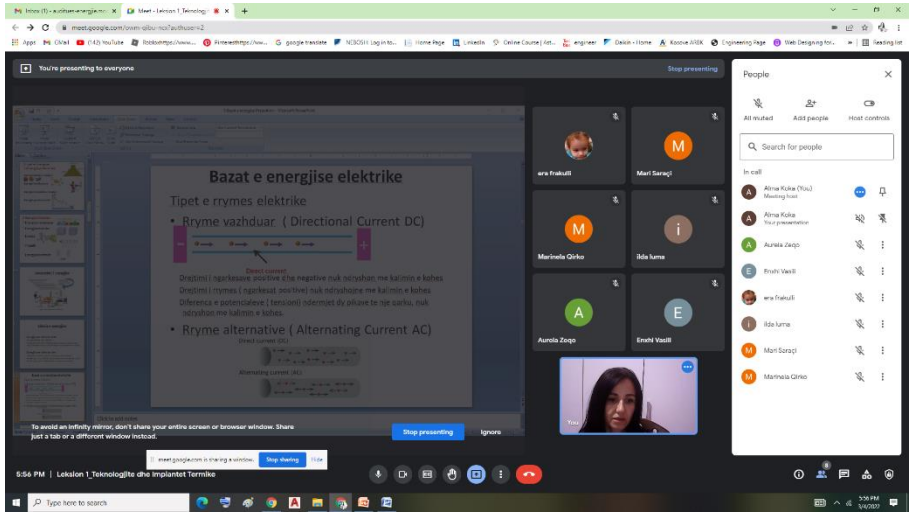
THE ALBANIAN MINISTRY OF INFRASTRUCTURE AND ENERGY ORGANIZED MANY CAPACITY BUILDING AND PUBLIC AWARENESS ACTIVITIES DURING PROJECT IMPLEMENTATION. ACTIVITES DELIVERED ONLINE OR IN LOCAL.



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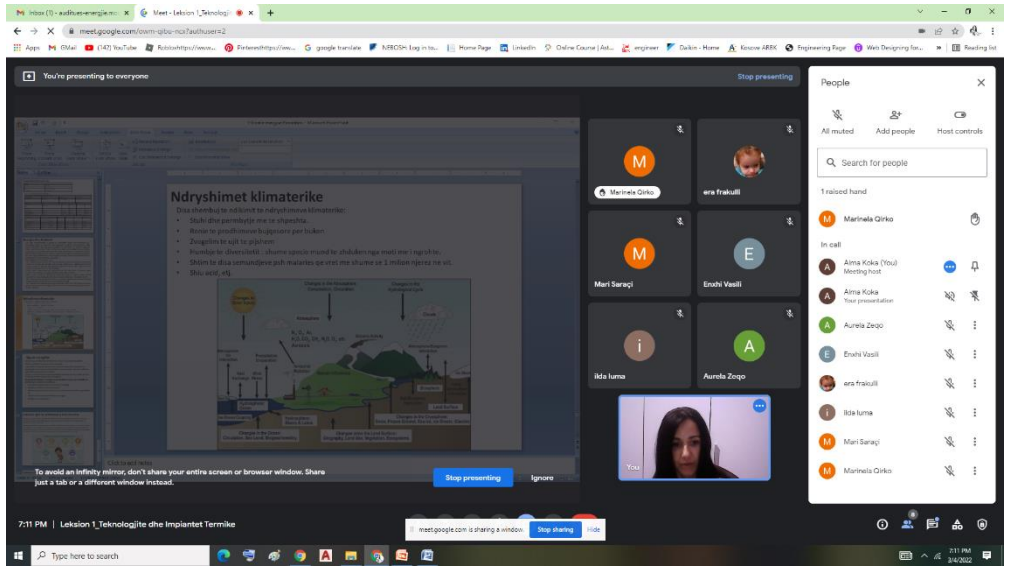

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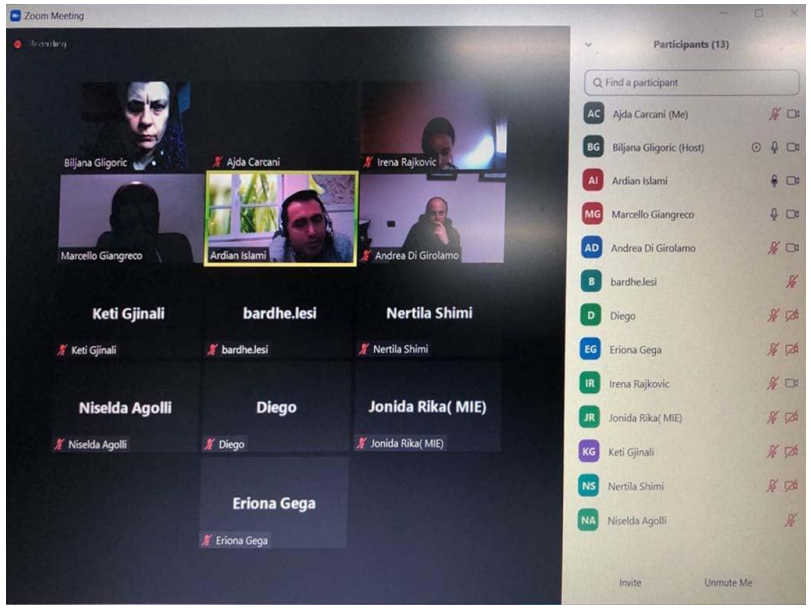

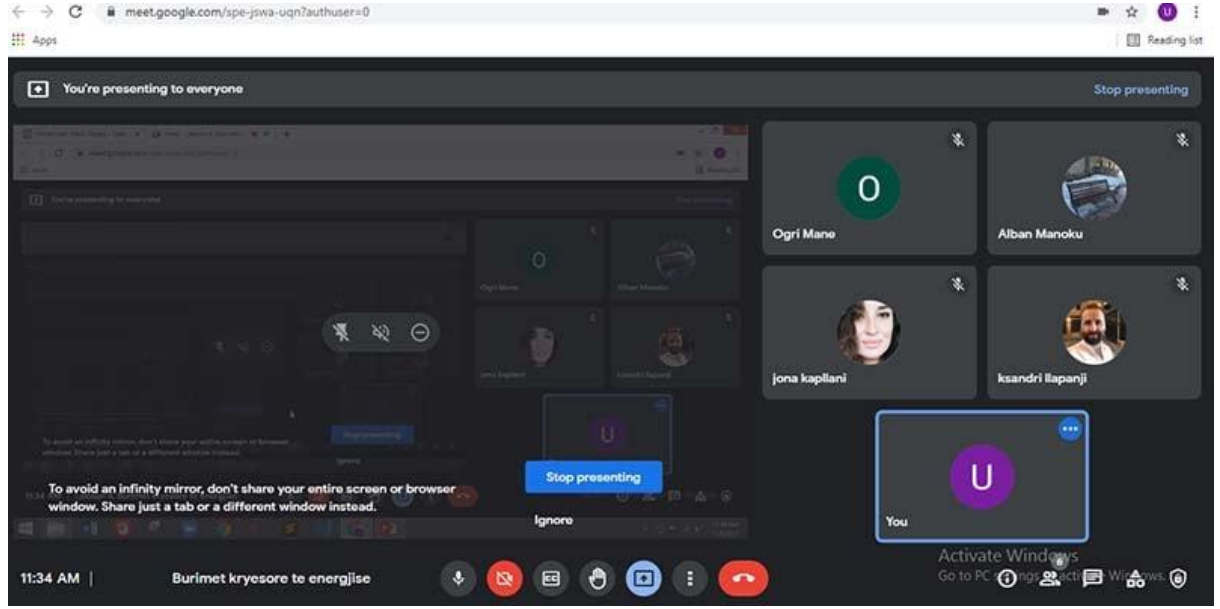

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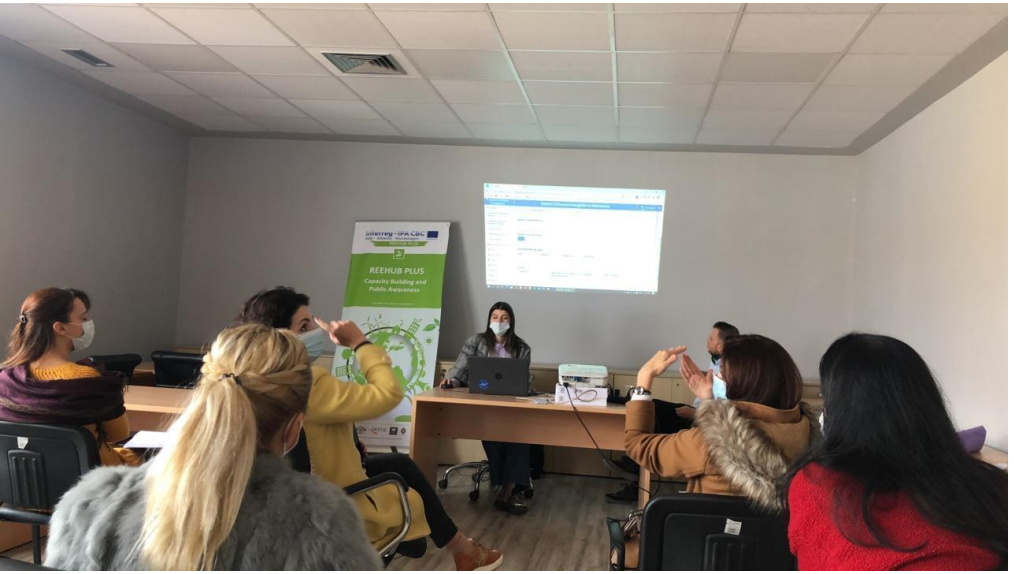

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SMART CITY OPEN INNOVATION FORUM

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BARLETI INSTITUTE FOR RESEARCH AND DEVELOPMENT IN THE FRAMEWORK OF **REEHUB PLUS PROJECT**, ORGANIZED IN COLLABORATION WITH **BARLETI UNIVERSITY** *THE "SMART CITY OPEN INNOVATION FORUM"*

10 DECEMBER 2021

Smart City Open Innovation forum aims at **promoting the application of RES and RUE in public and private sectors** as well as to share ideas, knowledge, experiences and best practices among researchers, professionals, stakeholders, national and local authorities for the efficient use of energy.

IN THIS FORUM WERE DISCUSSED THE **INITIATIVES AND OPPORTUNITIES** for **better implementation** of GOVERNANCE, PROJECT SECTOR AND UNIVERSITY contribution to #**SMARTCITY INITIATIVES**.

THE FORUM COMBINED

- **Governance**
- **Project sector**
- **University**

MAIN OUTPUT **REEHUB network for new energy policy and EE approach**

SMART CITY OPEN INNOVATION FORUM

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ORGANIZED IN THREE PANELS

1st PANEL / Policy and Governance

09.00 – 09.05	Barleti Institute for Research and Development	**Mrs.Ajda Carcani** Project Manager Reehub Plus *Welcome speech*
09.10 – 09.15	Barleti University	**Prof.Dr. Suzana Guxholli** University Rector *Welcome speech*
09.20 – 09.25	BIRD Institute	**Ms. Madlina Puka** BIRD Director *Welcome speech*
09.30 – 09.40	Ministry of Infrastructure and Energy	**Mr. Ardian Islami** Director/Directorate of Conception and Feasibility for Industry and Energy Projects
09.45 – 10.00	Municipality of Tirana	**Mr. Genc Kojdheli** General Director of Integration, Strategic Planning and Economic Development *"Opportunities and challenges of Local Government in implementing Energy Efficiency in a Smart City"*
10.00- 10.05	Ministry of Infrastructure and Energy	**Mrs.Eranda Shalsi** Expert for Energy Efficiency at Ministry of Infrastructure and Energy
10.10– 10.20	Municipality of Agnone	**Mr. Daniele Saia** Mayor of Comune di Agnone
10.25 – 11.00	***COFFEE BREAK***	

2nd PANEL/ EU Projects Implementation

11.00 – 11.15	Joint Secretariat	**Mrs. Aurora Maria Losacco** Project Officer *"The new 2021-2027 Italy-Albania-Montenegro programme"*
11.20 –11.35	EU projects consultant	**Arch./Eng. Mario Martelli** *"How a reconstruction after a powerful earthquake may be steered, funded and managed / A comparison between an intervention in Peru and in Haiti"*
11.40 – 11.55	DiTNE	**Mr. Angelo Raffaele Colucci** ECCP Responsible Person/ Reehub Plus Project Manager (DiTNE) *"Smart Cities and Energy efficiency of public buildings"*
12.00 – 12:15	GIZ ALBANIA	**Mr. Rodon Miraj** Coordinator of Open Regional Fund for South East Europe *"Open Regional Fund for South East Europe Energy, Transport and Climate Protection"*
12.20 – 12.35	EIN Advisory Services	**Mrs. Denisa Delija** Expert in Energy Efficiency investments *"Challenges of businesses for implementing smart solutions in buildings"*
12.40 – 12.55	Municipality of Agnone	**Mr. Andrea Di Girolamo** Consultant of Agnone Municipality *"Smart Building Solutions for Small Municipality"*
13.00 – 14.30	***Lunch Break***	

3rd PANEL / Academy

14.30 – 15.30	Faculty of Engineering, Al Ain University, United Arab Emirates	**Ph.D. | P.Eng Moayad Aloqaily** *"Application of Blockchain in Future Energy Systems: From Energy Trading to Energy Sharing"*
15.35 – 15.50	University of Minho, Portugal	**Ph.D. Sandra Monteiro Silva** *"Strategies for having more sustainable buildings and cities"*
15.55 – 16.10	UBT College	**Arch.Msc. Blerta Vula** *"Is Sustainability enough for a citizens well-being"*
16.15– 16.30	Barleti University	**Ph.D. Etleva Dobjani** *"Achieving near Zero Energy Building in Albania"*
16.35 – 16.50	Barleti University	**Ph.D. Saimir Shtylla** *" An Approach for the Retrofit of a Public-School Building"*
16.55 – 17.05	**Questions/End of the Forum**	

Smart City Open Innovation Forum had a **GREAT PARTICIPATION FROM YOUNG PROFESSIONALS, REPRESENTATIVES FROM LOCAL GOVERNMENT, SME'S, SECTORAL AGENCIES, RESEARCHERS.**

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THANK YOU FOR YOUR ATTENTION

REEHUB PLUS PROJECT TEAM