# **Collection of best** practices from EUfunded projects

LIFE20 GIC/HU/001660 -LIFE BIO-BALANCE

# **Final version**







IS FUNDED BY







Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Action	C7.2			
Deliverable	Selection of good practices from EU-funded projects			
Publicity	Public, submitted			
Date	November, 2022.			
Summary	Best practices from EU-funded projects were collected which can reduce, replace solid biomass energy use, or make it more efficient in the field of energy efficiency, energy poverty and heat&power sector.			

#### **INTRODUCTION**

#### About LIFE-BIOBALANCE

Co-funded by the European Union LIFE Programme, the overall aim of the Balancing solid biomass for climate neutrality in CEE countries (LIFE BIO-BALANCE) project is to support EU Member States to shift to a low-carbon and resilient economy by ensuring that solid biomass is produced and used sustainably at all levels.

It builds multi-stakeholder, multi-sector policy and knowledge sharing processes at the national and local level to ensure that biomass is balanced with other feasible alternatives and only solid biomass with a high sustainability safeguard is included in updated national National Energy and Climate Plans (NECP), Long Term Strategies and on local level in the Sustainable Energy and Climate Action Plans. **The aim of this best practice collection** 

The Fit for 55 package requires more ambitious climate targets from Member States, which should be reflected in the revision process of the NECPs in 2023-2024. The higher renewable energy and greenhouse gas reduction target should not lead to decrease the carbon sink in the LULUCF sector, or further increase biodiversity loss. Therefore, it is essential that instead of relying more on forestry biomass, the new policy measures should be more relying on how heat demand could be decreased by energy efficiency, support firewood-dependent energy poor communities, and replace high-risk forestry biomass-based energy production by low-carbon renewable energy sources.

Besides good examples from existing NECPs, collected also by LIFE BIO-BALANCE in other action, there are other innovative ideas, implemented by EU-funded projects which can be transferred to national-level policy measures. In this report, LIFE BIO-BALANCE assessed selected existing NECPs, and collected 35 good practices in the area of energy poverty, energy efficiency, heat & power, and innovative financing.



## CONTENT

INTRODUCTION	2
About LIFE-BIOBALANCE	2
The aim of this best practice collection	2
METHODOLOGY	4
ENERGY POVERTY	6
Empowering Energy Poor Citizens through Joint Energy Initiatives	6
Using Living Labs to roll out Sustainable Strategies for Energy Poor Individuals	7
Community solar solution to energize poor households	9
A social boost to combat energy poverty	10
Increase the use of renewable energies in vulnerable groups	11
Support Network for Household Energy Saving	12
Social entrepreneurs engaging vulnerable households to co-design new business schemes	s 13
ENERGY EFFICIENCY	14
Energy labels for existing heating appliances	14
Standards and requirements for the deep energy renovation	15
Building skills for construction of NZEB	16
One-stop-shop model for energy efficiency	17
Renovation roadmap for deep renovating residential buildings	18
Intervention package for increasing behavioural change	19
Assessing the socioeconomic benefits of improving energy efficiency	20
Enhancing circular renovation process	21
Energy Efficiency Performance-Tracking Platform	22
Harmonizing energy saving calculation under EED	23
HEAT & POWER	24
Securing future-proof environmentally compatible bioenergy chains	24
Promoting replacement of heating, cooling units	25
Peer-to-peer Energy Communities	26
Turning unexploited food waste into biomethane supplied through local filling stations network	27



Supporting Consumer Co-Ownership in Renewable Energies	28
Sustainable supply of woody biomass from agrarian pruning and plantation remova	аl 29
Triggering Sustainable Biogas Energy Communities through Social Innovation	30
Understanding Energy citizenship for promoting Energy citizenship contracts	31
Combined heat system using renewable energy	32
Combined heat system using RE	33
FINANCING	34
One-Stop-Shop for investment in energy efficiency for the Rhodope Region	34
Toolkit and mechanism for Energy Efficiency funding	35
Developing, piloting and standardising on-tax financing mechanism for residential energy efficiency retrofits in European cities	36
Designing the next generation of valuation guidance for sustainability in residential property	37
Crowdfunding renewable investment projects	38
On-bill project for repayment of investment to utilities	39
Utilizing innovative financial tool and attracting private investments	40

#### METHODOLOGY

The EU project database, <u>CORDIS</u>, stores information about all EU-funded projects which were implemented before or under implementation. Projects falls under the following subprogram under the Secure, clean and efficient energy programme, with the total of EUR 5931,2 million fund, were screened:

- 3.3.1 Reducing energy consumption and carbon footprint by smart and sustainable use
- 3.3.5 Robust decision making and public engagement
- 3.3.7 Market uptake of energy innovation building on Intelligent Energy Europe

From the total of 495 projects, 70 were pre-selected for scoring. For this exercise, methodology of similar collection, done by the LIFE Plan Up project was adopted. The scoring methodology was the following.

Торіс	Criteria	Score	Score description
Relevancy	Is the measure relevant to the topic?	1	low extent

	(energy poverty, energy efficiency,		medium extent	
		3	high extent	
		1	only with major changes	
Replicability	Is it possible to replicate the measure in other - especially CEE - countries?	2	yes, in the CEE region	
		3	yes, EU-wide	
	Degree the measure is able to	1	low extent	
	influence energy poverty/energy efficiency (not relevant for heat &	2	medium extent	
Impact	power)	3	high extent	
		1	low extent	
	Degree of ability to reduce forestry biomass demand	2	medium extent	
		3	high extent	
	If it is a technical solution, is it mature	1	low extent	
	enough to implement? - only relevant	2	medium extent	
	for heat & power	3	high extent	
Feasibility		1	implementation possible only with massive investment, long payback period	
	implementation	2	investment is needed, but short (< 10y) payback	
		3	only regulation change is needed	
	Degree to which the measure	1	low extent	
Adaptability	includes procedures for strategic revision and is able to adjust to	2	medium extent	
	changes and challenges	3	high extent	

R

In the field of energy efficiency and heat & power, we have selected 10 practices, and in the field of energy poverty - 8, top scored innovative ideas, and included 7 additional practices in financing, as a horizontal topic. These best practices are presented in the following chapters, ranked by score.



### **ENERGY POVERTY**

Idea	Empowering Energy Poor Citizens through Joint Energy Initiatives					
Project title	POWERPOOR	POWERPOOR				
Involved CEE countries	Estonia, Latvia, Hungary, Croatia, Bulgaria, Greece Under implementation					
Objective	Development of programs/schemes to support energy poor citizens and special use of alternative financing schemes such as creation of energy communities/cooperatives, crowdfunding.					
Scores	Relevancy: 3	Replicability: 3		Impact: 3		
	Feasibility: 3	Adaptability: 3		Sum: 15		
Why is it a good practice?	The POWERPOOR project will facilitate the sharing of experience and knowledge, as well as the implementation of small-scale energy efficiency interventions and the installation of renewable energy sources, increasing the active participation of citizens. Based on the experience gained and lessons learned from the POWERPOOR implementation, EU policy recommendations and 8 national roadmaps will be developed so that policy makers at all levels of government can learn from the project.					
Relevancy for CEE region, replication potential	Broad dissemination and synergy with global and EU initiatives, such as the EU Observatory on Energy Poverty and the (EU and Global) Convention of Mayors on Energy and Climate, as well as the participation of networks in the consortium will enhance the dissemination and use of POWERPOOR results throughout Europe, including in CEE countries, which is why there is a high potential for replication.					



Idea	Using Living Labs to roll out Sustainable Strategies for Energy Poor Individuals			
Project title	STEP IN			
Involved CEE countries	Greece, Hungary		Completed	
Objective	Developing a global methodology for the effective analysis and tackling of energy poverty in three highly challenging locations with diverse characteristic across Europe including: a mountainous region in Greece, a rural area i Hungary and an urban area in the UK with low quality housing.			
Scores	Relevancy: 3	Replicability: 2		Impact: 3
	Feasibility: 3	Adaptability: 3		Sum: 14
Why is it a good practice?	The creation of living labs, including a range of approaches such as energy cafes, advisor visits and ICT systems, will allow local experts and stakeholders to join forces with energy-poor consumers to make effective decisions that will lead to the improvement of the quality of life of participants by maintaining or improving comfort levels and more efficient energy use. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	The CEE region has many locations with similar characteristics – mountainous areas, rural areas and urban areas with different quality of housing that can benefit from the approaches applied in the project leading to energy efficiency, changes in consumer behavior and increasing comfort level.			



ldea	Toolkit for EU fight against energy poverty				
Project title	CEES - Community Energy for Energy Solidarity				
Involved CEE countries	Croatia		Under implementa	ation	
Objective	The overall goal is to facilitate the adoption of behavioral and energy efficiency measures in households with a view to guaranteeing a decent standard of living and health of citizens				
Scores	Relevancy: 3	Replicabil	ity: 3	Impact: 3	
	Feasibility: 2	Adaptabil	ity: 2	Sum: 13	
Why is it a good practice?	The project will be implemented after an in-depth analysis of the most successful cases of community energy initiatives to tackle energy poverty in Europe, validates them academically and empirically, supports the overcoming of regulatory and financial barriers, and then creates a toolkit for EU replication through RESCOOPs network of +3000 energy communities in the context of which measures for behavior and energy efficiency in households will be derived.				
Relevancy for CEE region, replication potential	More information is available here. The project will facilitate the adoption of behavioral and energy efficiency measures in households, create financial and non-financial support schemes to address energy poverty and empower community leaders (and organizations working in adjacent areas such as financial advice, health care or even fire and police services) to identify and deal with energy poverty, establishing quick and responsive networks. The project developers expect to reach more than 19 000 energy poor households and trigger 2M€ of sustainable energy investment with savings of over 7,5 GWh/year. For the CEE region, such a scheme would be relevant and have huge potential for replication.				



ldea	Community solar solution to energize poor households				
Project title	Eurosolar for all: energy communities for a fair energy transition in Europe (Sun4All)				
Involved CEE countries	- Under implementation			ation	
Objective	Develop and design a financial support scheme for renewable energy access for energy-poor households.				
Scores	Relevancy: 3	Replicability: 2		Impact: 3	
	Feasibility: 2	Adaptability: 2		Sum: 12	
Why is it a good practice?	The programme optimizes social subsidies by transforming them into a profitable investment for the beneficiaries. Solar shares are offered to vulnerable consumers instead of a traditional social subsidy (p.e. to pay overdue utility bills). Beneficiaries of the program will be co-owners of a local photovoltaic installation and the revenue generated from the production and sale of energy will be used to reduce energy bills.				
Relevancy for CEE region, replication potential	The project developers envisage replication and up-scaling of the programme is foreseen in at least 10 other EU cities and planned in other cities and regions to become an established programme in Europe.				



ldea	A social boost to combat energy poverty				
Project title	POWER UP: Social Ene	rgy Market	: Players To Tackle E	nergy Poverty	
Involved CEE countries	Czech Republic, North Macedonia		Under implementation		
Objective	Strengthening the role of regional and local public authorities in the fight against energy poverty by creating local players in the energy market with a social agenda.				
Scores	Relevancy: 3	Replicabil	lity: 3	Impact: 2	
	Feasibility: 2	Adaptabil	lity: 2	Sum: 12	
Why is it a good practice?	For energy poor households, pilot schemes for the production of renewable energy and energy efficiency measures will be implemented without having to take the financial risks. Local players in the energy market will be supported with a social program based on a long-term perspective to acquire local knowledge and strengthen the local economy. More information is available <u>here</u> .				
Relevancy for CEE region, replication potential	These schemes will be co-created with energy-poor households and local stakeholders, leading to at least 2,5 Million EUR investment in sustainable energy before the project ends and involving 55 588 energy poor consumers. Supported by a European city network, a leading UK university, a Belgium cooperative and finance expert, the consortium will build the capacity of more than 160 people in local organizations. This will allow these players to either provide cheap energy to fuel poor households, or reinvesting benefits to carry out energy poverty mitigation measures. An opportunity will be created to disseminate the experience of the European members of the consortium to facilitate replication in CEE and other EU countries.				



ldea	Increase the use of renewable energies in vulnerable groups				
Project title	POWERTY: Renewable energies for vulnerable groups				
Involved CEE countries	- Under implementa			ation	
Objective	The overall objective o vulnerable groups by p households.	f POWERT providing s	Y is to increase the afe and clean ener	mix of renewable energy in gy to vulnerable	
Scores	Relevancy: 3	Replicabi	lity: 2	Impact: 2	
	Feasibility: 2	Adaptabi	lity: 2	Sum: 11	
Why is it a good practice?	POWERTY will help tackle energy poverty by promoting vulnerable households with adequate energy supplies thanks to renewable energies. Social innovation measures based on greater participation, integration and empowerment of vulnerable groups will be promoted. The project will develop a complete learning process to facilitate an effective knowledge flow among regions, counting on 6 partners with different complementary expertise and different levels of competences (regional/national) which enriches the transfer of knowledge.				
Relevancy for CEE region, replication potential	The project envisages more than 50 best practices and almost 50 events involving 60 stakeholders will establish 5 Regional Action Plans covering a population of more than 25 million inhabitants. Companies supplying renewable energy will be encouraged through the project to offer technological solutions that are adapted to vulnerable groups, activating their corporate social responsibility. The project considers socio-economic and cultural characteristics of vulnerable groups, so as to redirect actions to tackle energy poverty with a more inclusive approach, adapting forms of financing and technologies to the assessed needs of these groups and using the opportunities offered in this case of renewable energy sources to create employment and integration of these groups in society. Replication will follow.				



Idea	Support Network for Household Energy Saving				
Project title	ASSIST				
Involved CEE countries	Italy & 9 EU countries Completed				
Objective	European market activation and policy orientation project to contribute to tackle energy poverty and support vulnerable consumers adopting an holistic and multidisciplinary approach, addressing both the energy and social aspects of energy poverty.				
Scores	Relevancy: 3	Replicabi	lity: 2	Impact: 2	
	Feasibility: 2	Adaptabi	lity: 2	Sum: 11	
Why is it a good practice?	The built model supports users in need and shows that it can be successfully adopted by various public and private users working in different sectors - from energy to social networks, from banking to healthcare, from non-profit associations to private companies. The ASSIST model is based on the figure of the Home Energy Advisor (HEA) and a 3-step process: education - networking - action. HEA is a professional already working on the ground, able to provide support to people, not only in the energy sector. It has the necessary competences and subject matter knowledge to provide first-hand answers to all questions and needs related to energy poverty: from unpaid bills to contract changes, from requests for financial assistance to using an efficient appliance.				
Relevancy for CEE region, replication potential	<ul> <li>More information is available here.</li> <li>The results achieved have a high level of exploitability, specifically: <ul> <li>tools and documents on the state of energy poverty in Europe,</li> <li>training platform and the training course for the HEAs training as well as the HEAs working ICT environment and all the tools and resources defined for the action,</li> <li>the national scheme of HEA and the relative national network of HEAs,</li> <li>the Policy Framework Paper on energy poverty.</li> </ul> </li> <li>As the tool is being applied in 9 countries, this raises the adaptability and chance that it can be replicated further in the CEE region.</li> </ul>				



Idea	Social entrepreneurs engaging vulnerable households to co-design new business schemes			
Project title	POWER UP: The cataly	st for socia	al innovation in the o	energy market
Involved CEE countries	France, North Macedonia and 6 Under implementation other countries			ation
Objective	The overall objective of POWER UP! is for cities to become local energy market players with a social agenda. This will be realized by pilot schemes for households in energy poverty, developing local energy market players with a social agenda, strengthening the local economy and replication actions.			
Scores	Relevancy: 2	Replicability: 2		Impact: 2
	Feasibility: 3	Adaptability: 2		Sum: 11
Why is it a good practice?	Six pilot schemes are to be developed in six locations across Europe: Eeklo (Belgium), Heerlen (the Netherlands), in the Campania area (Italy), in the Czech Republic, Valencia (Spain) and Skopje (North Macedonia). They will involve local households and stakeholders, including city administrations, utilities, energy communities, etc, and contribute to mobilizing 2.5 million EUR benefitting 55 588 energy poor consumers. A key aspect will be the ability for the generated savings of poor households to be reinvested to implement energy poverty mitigation measures.			
			<u>.</u> .	
Relevancy for CEE region, replication potential	CEE countries are particularly affected by energy poverty and energy poor consumers and households, and the pilot in North Macedonia will showcase how the stakeholder approach and reinvestment mechanisms and incentives may be adopted by CEE energy poor households. The pilots and partnerships can be replicated elsewhere, especially in the Western Balkan countries.			



#### **ENERGY EFFICIENCY**

ldea	Energy labels for existing heating appliances			
Project title	HARP - Motivating con	sumers to use more	efficient	heating systems
Involved CEE countries	-	Already i	Already implemented	
Objective	The main idea behind the project is to motivate individuals to plan the replacement of their often old and inefficient heating appliances, with more efficient alternatives. It is done so by an online tool, where individuals can provide details about their existing heating appliances, and generate an energy label for those, old and inefficient heating appliances, which were installed before the energy labeling obligation.			
Scores:	Relevancy: 3	Replicability: 3		Impact: 2
	Feasibility: 3	Adaptability: 3		Sum: 14
Why is it a good practice?	Energy label is a well-known support decision tool to communicate and motivate the consumer to replace its heating system with modern high-efficiency and renewable solutions.			
Relevancy for CEE region, replication potential	EU-wide, market assu perform energy class region. This such an behaviour and speed u	mptions are that m C or lower. This rate easy tool and simp up the process of ret	nore thar e is proba le inform rofitting t	n 50% of these equipment ably even higher in the CEE nation can drive consumer the existing heating system.



Idea	Standards and requirements for the deep energy renovation			
Project title	EUROPA - Energy Effici Performance Guarante	iency Subscription for Deep Re ee	enovation With	
Involved CEE countries	Latvia	Under implement	Under implementation	
Objective	<ul> <li>The project is intended to define a common set of standards and requirements for the deep energy renovation (the so-called Energy Efficiency Subscription), focusing on: <ul> <li>Products standards</li> <li>Level of expertise of craftspeople and professionals</li> <li>Technical standard investment package for deep renovations</li> <li>Contractual specifications</li> <li>Measurement and verification of the performance.</li> </ul> </li> </ul>			
Scores:	Relevancy: 3	Replicability: 2	Impact: 2	
	Feasibility: 3	Adaptability: 3	Sum: 13	
Why is it a good practice?	The common standard can build trust and transparency between house owners, constructors and financial institutes, and therefore speed-up the deep renovation rate.			
Relevancy for CEE region, replication potential	In the CEE region generally renovations are underregulated or at least the level of enforcement is low, and only incomplete. These kinds of standards can help household owners to decide on well-planned, deep energy renovation, instead of ad-hoc decisions. Replication needs engagement from the government to set these standards in the national regulations.			



Idea	Building skills for construction of NZEB			
Project title	NEWCOM - New compet certified qualification scl	ence for b hemes to ι	uilding professional Ipgrade the qualific	ls and blue collar workers – ation for building nZEBs
Involved CEE countries	Hungary, Slovakia Already implemented			
Objective	NEWCOM focused on the development of missing qualification and certification schemes for blue collar workers and building professionals who inspect and control the most relevant qualities with a specific focus on mutual recognition. To support the construction industry, NEWCOM developed nearly zero-energy building (NZEB) training schemes. The training is modular with units either stand- alone or complementary to pre-existing courses, focusing on three topics. Firstly, Flat Roofs and Roof Waterproofing, taking a lifelong service approach, including planning and installation of green roofs and energy efficiency measures. Secondly, Ventilation Installations, including heat recovery, noise protection, controlled airflow and smart demand systems. Thirdly, Quality Assurance in the planning, construction and operation phase of NZEBs, including aspects on indoor air quality, quality of the thermal building envelope and the energy system, including cost-efficiency measures. In addition, a competence database was created to help standardise mutual recognition of skills across Europe. More information available here. Project also targeting the improvement of construction skills of nZEB buildings includes <u>BUSLeague</u> , <u>SEEtheSkills</u> , <u>Train-to-NZEB</u> and <u>TRAIN4SUSTAIN</u> ,			
Scores	Relevancy: 3	Replicabil	lity: 2	Impact: 3
	Feasibility: 2	Adaptabil	lity: 3	Sum: 13
Why is it a good practice?	Yet, construction of high-quality sustainable buildings suffers from inadequate quality assurance during construction/renovation, a shortage of relevant and up-to-date skill sets as well as low demand from owners and developers. Professional training and standardized skills can fill these gaps.			
Relevancy for CEE region, replicatio n potential	Inadequate quality and l section in the CEE region for improving skills, gov transfer.	ack of qua n. Even tho rernmental	lity control is a huge ugh this and similar l support is needec	e hurdle in the construction r projects built up a scheme d to spread this knowledge



ldea	One-stop-shop model for energy efficiency				
Project title	RenoHUb - Integrated Services to Boost Energy Renovation in Hungarian Homes				
Involved CEE countries	Hungary	Under implementation			
Objective	Creating a "one-stop-shop" scheme, as a form of on-line platform and physical advisory hotspots in order to increase the renovation rate. The renovation hub addresses the entire value chain of home retrofit: from social, behavioural, communication and capacity building aspects through supporting the decision- making and the technical implementation, up to ex-post assessment of energy and cost saving. The project also builds up the business model to be financially sustainable after the project ends. More information available here. There are other projects aiming to create one-stop-shop energy retrofitting models in the CEE region, like <u>Rhodoshop</u> in Bulgaria, the <u>outPHit</u> also under implementation by Bulgarian project partner, and the <u>Save the Homes</u> , and the <u>REFURB</u> project including a partner from Slovenia.				
Scores	Relevancy: 3	Replicabil	ity: 2	Impact: 3	
	Feasibility: 2	Adaptabil	ity: 3	Sum: 13	
Why is it a good practice?	In order to reach the desired level of deep energy renovation rate, complex and integrated assistance are needed for homeowners, currently lacking information about the technical and financial requirements for deep renovation. This is especially true in light of the energy crises.				
Relevancy for CEE region, replication potential	The need for speeding CEE region, where the the EU-average. In th concept can be replica	up the dee energy per e case of ted withou	ep renovation rate i formance of the exi a viable business it governmental su	s especially relevant for the sting building stock is below model, the one-stop-shop oport.	



Idea	Renovation roadmap for deep renovating residential buildings			ntial buildings
Project title	iBROAD - Individual Bu	uilding (Rer	novation) Roadmap	S
Involved CEE countries	Bulgaria, Romania, Po	land	Already implemen	ited
Objective	The project targeted to eliminate barriers to deep (staged) renovation, by developing a renovation roadmap for single-family houses. The roadmap provides a customised renovation plan over a long-term period (10 to 20 years), which considers the occupants' needs and specific situations (e.g. age, financial situation, composition and expected evolution of the household, etc.) and avoids the risk of 'locking out' future renovation solutions due to a lack of foresight. The renovation roadmap is combined with a building logbook, a repository where all the building-related information can be stored and continuously updated. The type of information stored in the logbook and its functionalities can evolve over time and could range from energy production and consumption to equipment maintenance, as well as insurance, property plans and obligations, energy bills, smart meter data and links to available financing options for renovation projects.			
Scores	Relevancy: 3	Replicabi	lity: 2	Impact: 3
	Feasibility: 2	Adaptabi	lity: 3	Sum: 13
Why is it a good practice?	Deep energy renovation of residential flats is complex, expensive and a time consuming hurdle for most of the homeowners. Therefore, most home building renovations are implemented step-by-step over a course of several years. This adds the risk of "lock-in" –making today certain renovation choices which will limit the future renovation potential. The roadmap and logbook can effectively address and overcome this barrier.			
Relevancy for CEE region, replication potential	In the CEE region, mos inappropriate and low the complex manager iBROAD offers a viable legislation could prov replicability across Eur	stly due to v-quality ent ment of eve solution. vide an o cope is ava	lack of financial res nergy renovation is ven residential buil To let it happen on bligation for this. ilable <u>here.</u>	ources, the lock-in effect of a general issue, therefore dings is required. For this, a systematic level, national Report on feasibility and



Idea	Intervention package	for increasing behavioural o	change	
Project title	STEP_BY_STEP - Step by	step commitments for energ	y saving	
Involved CEE countries	Poland	Already implemented		
Objective	The project overall goal is to maximize the percentage of households of a homogeneous area that adopt energy-saving behaviours. In order to do so, a methodological interventions package was developed and piloted to support massive and durable behavioural changes. It starts by door-to-door contact with households in order to propose short interviews. Households are invited to answer several questions and to try out 1 to 3 simple actions. Then, participants are solicited regularly through email or by phone and are coached over a 20-month period towards the adoption of energy-saving practices. The coaching is managed by a digital web-based system based on the behavioural strategy. Suggested actions are personalized to suit their profiles. The actions go from easy (to wash hands with cold water) to more difficult (to turn down heating temperature) and finally become challenges representing an investment decision (to purchase class A dishwasher). The actions are assembled in patterns enabling us to follow different paths to adopt new behaviours step by step. Each household takes its own path.			
Scores	Relevancy: 3	Replicability: 2	Impact: 2	
	Feasibility: 2	Adaptability: 3	Sum: 12	
Why is it a good practice?	The reduction of energy demand due to the high energy prices in 2022-23 proved that compared to the required human and financial resources, there is an enormous potential in behaviour change.			
Relevancy for CEE region, replication potential	In the CEE region, where low, it would be import prices become lower, to fossil fuel lower. Now systematic knowledge practice could overcor engagements from the efficiency obligation sch	e energy prices are generally re ant that when the energy cris o avoid any rebound effect, ar the reduction of consump transfer to the consumers. T me this, however, its effect government, or alternatively neme in place, by market acto	egulated and kept artificially es are over and the market of keep the consumption of tion happens without any he replication of this good ive implementation needs r, where there is an energy rs.	



Idea	Assessing the socioeconomic benefits of improving energy efficiency				
Project title	IN-BEE - Assessing the energy efficiency	intangibles	: the socioeconom	ic benefits of improving	
Involved CEE countries	Bulgaria, Poland	Ilgaria, Poland Already implemented			
Objective	The project described and provided evidence for the many intangible benefits of improving energy efficiency through a multi-disciplinary approach, combining methods, datasets, and techniques from cutting edge research in law and economics, humanities and consumer behaviour, regulation and environmental sciences, as well as engineering. Connected to that, it had to following output: • Developed a set of indicators to measure intangible benefits of energy efficiency. Report available here. • Developed Key Performance Indicators to assess the impact of energy efficiency strategies, available here. • Studied relevant cases and identified best practices. Publications on case studies are here.				
Scores	Relevancy: 2	Replicabilit	ty: 3	Impact: 2	
	Feasibility: 2	Adaptabilit	ty: 2	Sum: 11	
Why is it a good practice?	As investment on energy efficiency is often only assessed by simple payback time by saving fuel, it is important to integrate other benefits into impact assessment of such investments, and also to highlight those, more intangible positive side-effects to the general public.				
Relevancy for CEE region, replication potential	This overly one-sided very relevant in the CE spread energy efficient engagement of multip on national level who financial institutes in investments.	judgement E region. Tl ncy measur le target gro en national order to fu	of benefits of ener he integration of o res. To be replicat oups is needed, as programmes are lly assess the eco	rgy efficiency measures are other side benefits can help ted and implemented, the these benefits are relevant e developed, and also for pnomic benefit of potential	



ldea	Enhancing circular re	enovation pro	ocess		
Project title	DRIVE 0 - Driving de consumer centered a	carbonization	of the EU build ed circular rend	ding stock by enhancing a ovation process	
Involved CEE countries	Estonia, Slovenia	Under implementation			
Objective	The overall aim is to enhance a consumer centered circular renovation process in order to make deep renovation more attractive, environmentally friendly and cost effective, by combining the need for a circular building industry with the identification of specific local drivers, supported by an anthropology based and environmentally friendly approach to make it customer-centred and respectful of local geo-material areas and implementing urban mining and material banks. Specifically, it applies the following 4 - step approach: 1. Developing proven deep renovation products and concepts 2. Developing attractive consumer centered business models based on circular renovation concepts supported by digitalization and gamification. 3. Providing occupants with attractive and understandable information on building performances in use. 4. Providing relevant stakeholders evidence of performance of the developed DRIVE 0 solutions by local study and demonstration cases initiated by 'local drivers'.				
Scores	Relevancy: 2	Replicability:	2	Impact: 2	
	Feasibility: 2	Adaptability:	3	Sum: 11	
Why is it a good practice?	Local, circular economies not only contribute to mitigate emission connected to production and transportation, but also contribute to less environmental impact of mining and waste disposal. The project provides good practice on how this can happen in case of deep renovation, which lowering environmental footprint also shortens the carbon payback-time of energy retrofitting.				
Relevancy for CEE region, replication potential	The lack of circularity i the construction secto transposition of this pr national legislations.	n the econom r in the CEE re roject solution	ic sector is gene egion. However, n requires systen	rally relevant, not only in replication and natic changes in the	



Idea	Energy Efficiency Per	formance-T	racking Platform	n	
Project title	EN-TRACK - Energy Efficiency Performance-Tracking Platform for Benchmarking Savings and Investments in Buildings				
Involved CEE countries	Bulgaria	Under implementation			
Objective	The goal of EN-TRACK is to create a one-stop shop platform with standardized data related to the energy efficiency performance of the public and private building stock. Enabling interoperability with most currently active databases and tools, this will lead to an unambiguous data exchange based services ecosystem with low transaction costs.				
	The EN-TRACK platform will be utilizing big data analytics to support better decision-making on the right energy efficiency investments. In addition to gathering data from large public building owners, EN-TRACK enables interoperability with well-known and trusted databases and tools such as DEEP, eQuad and EnerInvest. This provides an open-source big data platform capable of acquiring and harmonizing data from multiple sources based on international standardized description of building data and energy efficiency measures. Project website is available <u>here</u> .				
Scores	Relevancy: 2	Replicability	<i>y</i> : 3	Impact: 2	
	Feasibility: 2	Adaptability	/: 2	Sum: 11	
Why is it a good practice?	One of the principal challenges to increasing energy efficiency investments is the lack of statistical data on the actual energy and cost savings achieved with them. Data is still hard to access because it is decentralized and in different formats. Consequently, only a small part of this can be used to produce reliable empirical evidence on the performance of the energy efficiency investment. The developed platform will help to overcome this issue.				
Relevancy for CEE region, replication potential	As already implement monitoring lacks or find platform can support of	ted energy ragmented o decisions on	efficiency measu compared to Wes energy efficiency	ures are limited and data stern-Europe, this EU-wide projects.	



Idea	Harmonizing energy saving calculation under EED			
Project title	streamSAVE - Streamli	ning Energy Saving	gs Calculatio	ons
Involved CEE countries	Czechia, Lithuania, Slo	ovenia	Under imp	olementation
Objective	Harmonizing accurate, bottom-up energy savings calculations of technical priority actions under Article 7, as well as Article 3 of Member States' EED reporting in five Priority Actions, namely heat recovery from industry and district heating; Building automation and control Systems (BACS); Commercial and industrial refrigeration systems; Private and public electric vehicles; and Lighting systems including public lighting. For these Priority Actions, standardized calculation methodologies, indicative calculation values including guidelines on Member States' customisation, cost parameters and related CO <sub>2</sub> savings were developed. Click here for more information.			
Scores:	Relevancy: 1	Replicability: 3		Impact: 1
	Feasibility: 3	Adaptability: 3		Sum: 11
Why is it a good practice?	Accounting better energy savings in the identified priority actions can provide important feedback to policy makers and could help to exploit additional energy saving potential of these areas.			
Relevancy for CEE region, replication potential	CEE countries general efficiency. Therefore, t to implement addition actions, as energy effic Replication depends o	Ily lag behind to his good practice c nal energy efficien ciency potential in n the national auth	reach nati an help to r icy measure these prior norities.	onal objectives on energy each this objective and help es in the identified priority ity actions are unexploited.



#### **HEAT & POWER**

ldea	Securing future-proof environmentally compatible bioenergy chains			
Project title	SECURECHAIN -Securir chains - H2020	ng future-p	proof environmenta	lly compatible bioenergy
Involved CEE countries	Hungary		Implemented	
Objective	The measure aims, through pilot projects and clusters for learning, to promote the development and use of sustainable supply chain management for local biomass, mobilizing local biomass suppliers, energy producers and financial sector players.			
Scores	Relevancy: 3	Replicability: 3		Impact: 3
	Feasibility: 3	Adaptability: 3		Sum: 15
Why is it a good practice?	The action employs a multi-stakeholder process for the development and piloting of sustainable supply chain management models for biomass, therefore testing new paths for local bioenergy chains that fosters sustainable, environmentally compatible mobilization of biomass sources and a proactive promotion of the market through conscious investments into the bioenergy sector. If successfully implemented, this can lead to a more circular use of biomass and the decrease in available quality round wood for energy production.			
	More information is av	allable <u>ne</u>	<u>re</u> .	
Relevancy for CEE region, replication potential	Biomass supply chair management model principle and lack of ac longer periods, leading New supply chain ma break current practice	ns in CEE entailing t dded value g to an ava magement s.	countries are not he lack of applica for wood products ilability of high qua models need to b	following a sustainability tion of the cascading use that capture the carbon for lity round wood for energy. the tested and expanded to



Idea	Promoting replacement of heating, cooling units			
Project title	Making heating and co resilient, clean and clir	ooling for E nate-friend	uropean consumer dly	s efficient, economically
Involved CEE countries	Hungary, Bulgaria		Under implementation	
Objective	The measure will implement replacement campaigns in ten target regions by means of action plans fortified with policy and business-related improvements. The project connects all key actors in each region – local governments, consumer associations, developers, energy utilities and professional associations – to steer the direction of a wide range of replacement activities. More information is available <u>here</u> .			
Scores	Relevancy: 3	Replicability: 3 Impact: 2		Impact: 2
	Feasibility: 3	Adaptability: 3 Sum: 14		Sum: 14
Why is it a good practice?	The measure unites all relevant stakeholders in target regions for improving coordination, raising awareness, using technical tools (such as a heating system calculator) to develop real momentum towards collective actions.			
Relevancy for CEE region, replication potential	Lack of awareness of between consumers a bottlenecks for advan dedicated capacity-bu crucial for behaviour of	of alternat nd other ir icing susta uilding me ihange and	ives and coordinated industrial or public st inable heating and asures and knowl advancing implem	tion and lack of dialogue takeholder is one of the key cooling alternatives. Such edge transfer actions are entation of solutions.



Idea	Peer-to-peer Energy Communities			
Project title	Towards a new genera by a gamified platform mechanisms and busir	ition of EU and empo ness mode	peer-to-peer Energ owered by user-cen ls	y Communities facilitated tred energy trading
Involved CEE countries	-		Under implementa	ation
Objective	Develop a platform for collecting experiences from operative peer-to-peer energy communities in Europe, providing smart demand-response mechanisms to optimize energy consumption and peak demand at the community level and for adopting community-based nudging mechanisms for peer-to-peer transactions of renewable energy and to sustain prosumer-friendly business models.			
Scores	Relevancy: 3	Replicabil	lity: 3	Impact: 2
	Feasibility: 3	Adaptability: 3		Sum: 14
Why is it a good practice?	The measure entailed supporting peer-to-peer learning on financial, technical and legal benefits and viability of energy communities, leading to behavioural- based incentives for such communities. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	Energy communities in upscaling and for imp online learning tools ca	n the CEE provement an be easil	region are still scar of technical and t y multiplied.	ce and require support for financial viability and such





Idea	Turning unexploited food waste into biomethane supplied through local filling stations network			
Project title	Turning unexploited for stations network	ood waste i	into biomethane su	pplied through local filling
Involved CEE countries			Implemented	
Objective	The measure entails promoting segregated collection of food waste as energy source, conversion to biogas, and its upgrading to biomethane and utilization in associated network of filling stations.			
Scores:	Relevancy: 3	Replicability: 3		Impact: 3
	Feasibility: 3	Adaptability: 2		Sum: 14
Why is it a good practice?	Due to the availability of food waste, the very limited uptake of investments in biogas plants and the poor stakeholder knowledge of the technical options for usage through local filling stations as a biofuel. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	More information is available <u>here</u> . Biogas plants are rare in the region and it can prove a viable partial solution if used in associated networks locally and not transported for long distances.			



ldea	Supporting Consumer Co-Ownership in Renewable Energies			
Project title	Supporting Consumer	Co-Owner	ship in Renewable I	Energies
Involved CEE countries	Bulgaria, Czechia		Implemented	
Objective	The measure aims at engaging consumers in financing RES, thus becoming "prosumers" which in turn induces positive behavioural changes in energy consumption.			
Scores	Relevancy: 3	Replicability: 3		Impact: 2
	Feasibility: 2	Adaptability: 3		Sum: 13
Why is it a good practice?	The measure activates local authorities and consumers demonstrating the positive impact co-ownership has on consumer behaviour. It shows the ability of this democratic participation model to include women as well as low-income households, in particular unemployed, thus having the potential of a wider societal impact. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	More information is available <u>here</u> . Changes in consumer behaviour are hard to achieve in the CEE region and engaging consumers in concrete actions, such as the demonstration of RE co- ownership locally, will bring along a higher awareness and uptake of sustainable energy productions and efficient use solution.			



Idea	Sustainable supply of woody biomass from agrarian pruning and plantation removal			
Project title	Take-off for sustainabl plantation removal	e supply o	f woody biomass fr	om agrarian pruning and
Involved CEE countries	Ukraine		Implemented	
Objective	Push the development of the bioenergy utilisation of agrarian pruning and plantation removal (APPR) wood obtained from vineyards, olive groves and fruit tree plantations			
Scores	Relevancy: 3	Replicability: 2		Impact: 3
	Feasibility: 3	Adaptability: 2		Sum: 13
Why is it a good practice?	The measure entails a comprehensive approach towards enabling the use of APPR for energy in an intense communication campaign, addressing the policy barriers and on the legal framework currently setting limits and setting up and running new APPR biomass value chains across countries, enabling entrepreneurship in the area. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	More information is available <u>here</u> . The measure entails promoting the use of a type of agricultural biomass which can constitute a viable partial alternative to wood biomass from a GHG and biodiversity perspective. Such biomass types from vineyards and fruit tree plantations are also available in the CEE region.			





ldea	Triggering Sustainable Biogas Energy Communities through Social Innovation			
Project title	Triggering Sustainable	Biogas En	ergy Communities t	hrough Social Innovation
Involved CEE countries	Greece		Implemented	
Objective	The measure aims to reposition Biogas from an economic bio-fuel carrier to a social good and to come up with new community concepts and to build a stronger and wider community engagement in support of biogas.			
Scores:	Relevancy: 3	Replicability: 3		Impact: 3
	Feasibility: 2	Adaptability: 2		Sum: 13
Why is it a good practice?	The measure supports communities on the ground to realise community biogas plans in coordination with all the stakeholders, slashing transaction overheads, while also bringing communities together to exchange and inspire each other on quality sustainability and impact assessment principles. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	More information is available <u>here</u> . Sustainable biogas technologies have been extremely slow and even non existing in CEE and they have to catch up with other community energy developments. Biogas has the potential of partially covering energy needs locally.			



Idea	Understanding Energy citizenship for promoting Energy citizenship contracts			
Project title	GReen Energy Transition	on Actions		
Involved CEE countries	- Under implementation			
Objective	Conduct research to develop models and frameworks that reveal factors impacting both individual and collective energy citizenship actions and developing energy citizenship contracts.			
Scores:	Relevancy: 2	Replicability: 3	Impact: 2	
	Feasibility: 3	Adaptability: 3	Sum: 13	
Why is it a good practice?	Understanding of the conditions and barriers for energy citizenship emergence is crucial for designing support measures. The results are utilised not only for developing energy citizenship contracts that support the transition goals within energy communities, but also for producing recommendations aimed at improving the policymaking process towards stimulating energy citizenship.			
Relevancy for CEE region, replication potential	More information is available <u>here</u> . Understanding and supporting energy citizenship in the CEE region is crucial for the support and uptake of energy transition pathways and solutions available to citizens. Engaging citizens is a replicable and adaptable practice.			



Idea	Combined heat system using renewable energy			
Project title	Combined HEat SySter	n by using Solar Energy and h	eaT pUmPs	
Involved CEE countries	-	Implemented	d	
Objective	Design, implement and promote a reliable, efficient and profitable system able to supply heating and hot water in buildings mainly from renewable sources.			
Scores	Relevancy: 3	Replicability: 3	Impact: 2	
	Feasibility: 1	Adaptability: 2	Sum: 11	
Why is it a good practice?	The measure can deliver a self-contained energy transformation and delivery system relying on renewable energy collected and transformed on-site. The solutions can move us towards nearly zero-energy buildings, energy independence and enhanced grid productivity utilising renewables. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	Decentralising heating and electricity in the CEE region using integrated RE technologies is crucial for energy transition and achieving net zero. Solutions need to be tested and expanded for household communities, office buildings, public buildings and multi-family apartment buildings.			





Idea	Combined heat system using RE				
Project title	IMPLEMENT- Improvin management and cert	g Local End ification	ergy and climate po	licy through quality	
Involved CEE countries	-	-		Implemented	
Objective	Setting up the necessary structures in municipalities for developing and implementing climate and energy strategy using the certification programme European Energy Award (EEA) criteria catalogue.				
Scores	Relevancy: 3	Replicability: 2		Impact: 2	
	Feasibility: 1	Adaptability: 3		Sum: 11	
Why is it a good practice?	External advisors will guide and monitor the continuous progress of developing and implementing the municipality strategies. The certification will ensure that municipalities implement their climate and energy plans to high quality standards. The certification process is ongoing and ensures that municipal climate action progress. More information is available <u>here</u> .				
Relevancy for CEE region, replication potential	Municipalities lack knowledge, capacity and coordination for enabling local energy transition efforts. Sustained quality support is needed in CEE countries and if accompanied by a recognised EU certification process, implementation and follow-through can be more easily achieved.				





#### FINANCING

Idea	One-Stop-Shop for investment in energy efficiency for the Rhodope Region			
Project title	Rhodoshop			
Involved CEE countries	Bulgaria		Completed	
Objective	The objective is to establish a central procurement agency on behalf of local authorities, which could commission and implement energy retrofitting projects, involving public buildings and lighting systems, in compliance with green procurement principles. The project seeks to mobilize more than 7 million EUR of additional energy efficiency investment for the regions, targeting retrofitting of at least 32 public buildings and lighting in 31 settlements.			
Scores:	Relevancy: 3	Replicability: 2		Impact: 3
	Feasibility: 3	Adaptability: 2		Sum: 13
Why is it a good practice?	Mainstreaming the criteria and processes for energy efficiency procurement in relatively remote and understaffed municipal authorities, such as those in the Rhodope mountains, is a great way to pool expertise, tools and resources, as well as raise the overall ability to mobilize funds and implement such projects. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	The CEE region has ma the Rhodopes, which c methods developed ir lighting systems, the in could be replicated in adaptation.	any relativel an benefit f n the projection vestment pi other regio	ly remote and diffi from such pooling ct, such as the in ipelines for project ons in Bulgaria and	cult to reach areas, such as of resources. The tools and ventories of buildings and is and the training materials d CEE, with relatively minor



Idea	Toolkit and mechanism for Energy Efficiency funding			
Project title	FinEERGo-Dom			
Involved CEE countries	Poland, Slovakia, Romania, Bulgaria		Under implementation	
Objective	The project seeks to implement and refine financing schemes for energy efficiency and renewable energy as part of residential and public building stock deep renovation in 5 EU member states, using a concept developed by the Latvian Energy Efficiency Facility (LABEEF).			
Scores	Relevancy: 3	Replicability: 2		Impact: 3
	Feasibility: 3	Adaptability: 2		Sum: 13
Why is it a good practice?	The project helps mobilize and accelerate funding via proven Energy Performance Contracting (EPC+) tools that improve not only energy savings but general living and working conditions in the buildings. The mechanism relies on a stakeholder platform that brings together different stakeholders and increases capacity for overcoming legal and financial obstacles to renovation. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	More information is available <u>here</u> . Good stakeholder-based processes for mobilizing finance are much needed as both financial and social capital needs to be built so that CEE communities can successfully access and utilize European Green Deal energy efficiency and just energy transition-related finance. As the tool is being applied in 5 countries, this raises the adaptability and chance that it can be replicated further in the CEE region.			



Idea	Developing, piloting and standardising on-tax financing mechanism for residential energy efficiency retrofits in European cities			
Project title	EuroPACE			
Involved CEE countries	Poland		Completed	
Objective	The project introduced to the EU the successful American PACE scheme, which seeks to deploy private capital for up-front financing of homeowners with repayment collected by municipalities with the property tax bill.			
Scores	Relevancy: 3	Replicability: 2		Impact: 3
	Feasibility: 3	Adaptability: 2		Sum: 13
Why is it a good practice?	The project seeks to mobilize private funding and offer a realistic method of households repayment with property tax and involving homeowners in a responsible capacity, together with municipalities and service contractors. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	The project developers estimate that by 2025 replication could lead to 5 billion EUR mobilized investments and retrofitting of 300 000 homes, generating 45 000 jobs, if the scheme is adopted in more EU27 countries. For the CEE region, such a scheme would be relevant because households have less disposable income for up-front investments, and some are also less disciplined regarding credit instrument repayment, so they could benefit from the instituted system of on- tax repayment to the municipality.			



Idea	Designing the next generation of valuation guidance for sustainability in residential property			
Project title	ReValue – recognizing energy efficiency as a source of value			
Involved CEE countries	-	Completed	Completed	
Objective	The project seeks to influence financing decisions in real estate, by internalizing the actual value added of energy efficiency in appraisal of residential properties.			
Scores	Relevancy: 3	Replicability: 2	Impact: 3	
	Feasibility: 3	Adaptability: 2	Sum: 13	
Why is it a good practice?	The inherent value of energy efficiency retrofits is often missed in real estate appraisals, and both the investment and the generated value is not internalized. By developing tools that take this into account, this corrects a market failure and generates better market signals and decisions. More information is available <u>here</u> .			
Relevancy for CEE region, replication potential	The CEE countries real estate markets are often less developed and appraisal is not on par with member states with a longer tradition of advanced market economies. In some CEE countries like Bulgaria home ownership is much higher, which necessitates that residential homeowners are acquainted with the value of energy efficiency and renewable energy retrofits when buying or selling their properties, so the potential benefits are even greater. With the help of key industry stakeholders, there may be good replication.			



Idea	Crowdfunding renewable investment projects				
Project title	CrowdFundRES				
Involved CEE countries	Hungary		Completed		
Objective	The project engages renewable energy developers and crowd funders, including developing crowdfunding and microfinance projects for RES development.				
Scores	Relevancy: 3	Replicability: 2		Impact: 2	
	Feasibility: 3	Adaptability: 2		Sum: 12	
Why is it a good practice?	There is an investment gap between utility and larger scale RES projects and their developers and small crowdfunders and microfunders, which needs to be bridged, if private funding for RES households and communities can be mobilized. More information is available <u>here</u> .				
Relevancy for CEE region, replication potential	Because much less disposable income is available for RES investments in CEE households, the crowdfunding approach represents an opportunity for aggregating and capitalizing on small private funds and donations. Similar schemes could help especially vulnerable and energy poor consumers on the road to energy independence. As developers participating in such crowdfunding schemes get experience and confidence that small scale funding and crowdfunding investments pay off, replication will follow.				



ldea	On-bill project for repayment of investment to utilities				
Project title	RenonBill				
Involved CEE countries	Czech Republic, Belarus		Completed		
Objective	Establishing a financing mechanism for utility companies to finance building energy efficiency retrofits and accept repayment with consumer bills.				
Scores	Relevancy: 3	Replicability: 1 Adaptability: 2		Impact: 3	
	Feasibility: 3			Sum: 12	
Why is it a good practice?	On-bill-schemes (OBS) are novel financing mechanisms, which allows the utilities to make up-front cost investments and then collect repayment with the bills. Unlike more established RES generation ESCO schemes, utilities typically disregard pure efficiency and retrofit projects, which could be made profitable via savings. More information is available <u>here</u> .				
Relevancy for CEE region, replication potential	Due to the lesser disposable income in CEE states, finding appropriate schemes to fund the up-front costs by utilities is a solution with great potential. However, different CEE countries have different arrangements for their national electricity and heating utilities, e.g. the household electricity sector has still not undergone market liberalization, or special circumstances apply during the Ukraine war and energy crisis. Thus, replication will take more adaptation to the national regulation and pricing context.				



ldea	Utilizing innovative financial tool and attracting private investments				
Project title	PRODESA - Energy Efficiency Project Development for South Attica				
Involved CEE countries	Greece		Completed		
Objective	The aim was to support seven major municipalities in the Athens Metropolitan area to mobilize private investment and utilize innovative financial tools, helping to renovate 116 municipal buildings, install 3.2 MW of rooftop PV and save 45.6 GWh/y of electricity by pooling resources and project financing.				
Scores	Relevancy: 3	Replicability: 1 Adaptability: 2		Impact: 3	
	Feasibility: 3			Sum: 12	
Why is it a good practice?	Major metropolitan areas are often plagued by fragmented jurisdictions and a multitude of unconnected projects and interventions, which fail to streamline and pipeline funding to the highest priority areas and outcomes. Pooling of projects and resources, streamlining approaches and crowdfunding help to boost the impact and sustainability of project results. The project did this by also linking in the Greek national Revolving Fund for Energy Efficiency and Utility ESCO Fund, which could significantly upscale the investments.				
Relevancy for CEE region, replication potential	Such a collaborative approach is very relevant to CEE countries, who are often benefitting by different EU funding programmes (e.g. Recovery and Resilience Fund, Cohesion Fund, Just Transition Fund in coal regions) at local level without good coordination and good approaches to pool projects and resources and the efforts of adjacent metropolitan municipalities to scale up their impact.				