Citizen financing for energy efficiency



Covenant of Mayors Investment Forum – Energy Efficiency Finance Market Place Brussels 18-19 February 2020 Pablo Alonso // WIP Renewable Energies





WHO

 CitizEE is a 3 years coordination support action funded under H2020 programme and implemented by 8 organisation across 5 EU members states:



















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WHY

Good examples in EU for citizen financing for renewable energy projects





 Citizen Financing Schemes for Energy Efficiency projects is still far from having reached its full potential

1

UNFAVOURABLE BOUNDARY CONDITIONS

Financial and technical barriers for developers and investors

2

SCALE

Lack of large-scale programs to attract investors

3

COOPERATION BETWEEN ACTORS

Citizens should be maximised



STARTING POINT

SUPPORT EUROPEAN PUBLIC AUTHORITIES TO SCALE UP INVESTMENTS FOR ENERGY EFFICIENCY IN THE BUILDING SECTOR BY ATTRACTING CITIZEN PRIVATE INVESTMENTS

Creating national or regional Investment Platforms backed by European Fund for Strategic Investments.

Supporting the integration of tailored and widely adopted citizen financing schemes, crowdfunding and cooperative models, with adequate available or to be developed **Public Financing Instruments** (PFIs).

Enabling the set-up of large-scale community energy efficiency programs that attract private investments while **strengthening know-how** of regional/national key stakeholders.





METHODOLOGY

COMPETITIVNESS EVALUATION

- Analysis of financing products
- Definition of schemes to be developed by the project, so-called "CFs4EE Financing Schemes".

RECOMMENDATIONS

 Develop recommendations for improving the market and regulatory framework.

DISSEMINATION

 Promote the project concepts and its advantages among those who could support citizen financing schemes deployment.



IP PLATFORM SETUP GROUNDWORK

- Establishment of SWG
- Legal, regulatory and market framework characterization

PILOT DEMONSTRATOR

- Implementation of the schemes
- Demonstrate the viability and market potential
- Performance analysis

CAPACITY BUILDING

- Organisation of events
- Webinars
- Toolkit
- Creation of network of experts



TYPES OF PROJECTS













VALUE PROPOSITION



PUBLIC AUTHORITES

- Local, regional and national governments
- Decision makers



PROJECT DEVELOPERS

- ESCO's
- BUILDING OWNERS



FINANCIAL INSTITUIONS

- National promotional Banks
- Public institutions
- Private



CITIZENS FUNDING COMMUNITY

- Crowdfunding platforms &experts
- Energy cooperatives
- Citizens organizations



CITIZEE INVESTMENT PLATFORM

Investment facility channelling public and private financing from several co-investors to provide financial products to designated final beneficiaries and/or projects.

- Identifying market gaps and providing financing or support to sectors and/or projects that are not currently sufficiently serviced by traditional financial intermediaries
- Facilitating the inclusion of investors towards the financing of projects
- Focus on blending/crowding-in public and private funds
- Contributing to aggregation and pooling of projects
- Focus on geographic and/or sectoral/thematic scope (e.g. building renovation)





CITIZEE CFS4EE FINANCING SCHEME

CITIZEN FINANCING SCHEME FOR ENERGY EFFIENCY

FINANCING MECHANISM CONSTITUTED BY CITIZEN FINANCING, CROWDFUNDING OR COOPERATIVE FUNDING,
AND INTEGRATED WITH PUBLIC FINANCING INSTRUMENTS



CREATE A SOUND FINANCIAL AND OPERATIONAL ENVIRONMENT



MORE EFFICIENT
USE OF PUBLIC
FUNDS



ATTRACT INVESTORS



ENHANCE
CAPACITY AND
AWARNESS
TOWARDS CITIZEN
FINANCING



ENABLE HIGHER RENOVATION RATES



WHERE WE ARE



- Stakeholders working groups
- Legal and regulatory framework
- EFSI and IP framework
- Action Plan for the establishment of IP
- Market characterization



The Clean Energy Package // The Crowdfunding Service Providers Regulation // The upcoming InvestEU Programme

Energy related

- Lack of development and completion of national legislation.
- The rules for public procurement of energy efficiency projects
- The energy price and the energy of self-consumption for prosumers is too low so new business models are not stimulated

Investment related

- Investment limitations for individuals that want to become investors as well as for the upscaling of campaigns
- The law on Energy performance contracting (EPC)
- There is a lack of business cases for in depth renovations (with payback times that are 30 years or higher)
- Lack of development of the Law on Consumer Financing and the creation of a basic legal framework for crowdfunding
- High bank and card processing transaction fees and the high price of the loans in some pilot regions

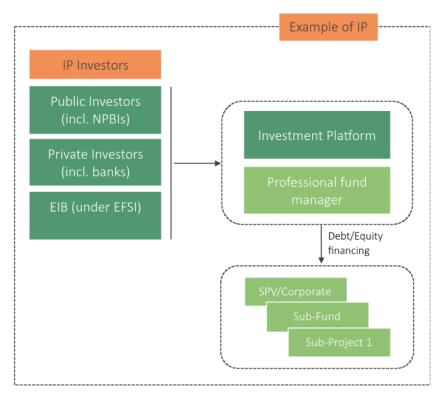


EFSI AND IP FRAMEWORK

INSTITUTIONAL, ORGANISATIONAL AND PROCEDURAL REPORT:

1. EFSI functioning

- Initiative of EC and EIB Based on EU guarantee
- Overcome lack of funding hampering the EU
- Market failures and suboptimal investment situations
- Unlock financing for smaller and /or riskier projects mobilising EUR 500 billion
- Emphasis on Investment Platforms
 - Cooperation with National Promotional Banks as promoters of the IP
 - Flexible structures (Special purpose vehicle, managed account, Contract-based cofinancing, risk-sharing agreement)
 - Provides Financing products
- 2. Analysis Investment platforms under EFSI
- 3. Provide guidelines on how to set-up an EFSI-backed platform
- 4. Outlook to InvestEU





MARKET CHARATERIZATION



- Energy efficiency is gaining dramatic focus of importance
- Both Cooperative and Crowdfunding are highly functional mechanisms
- · Crowdfunding model is scaling



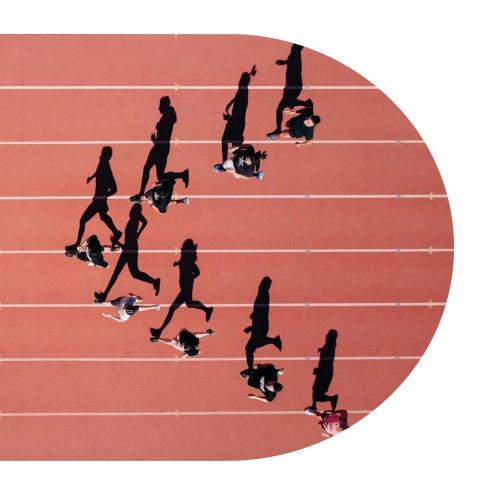
- Crowdfunding business model in Belgium is still evolving (9 platforms recognized with 2 in EE or RES).
- Cooperative: Well developed in the domain of RES, new model in EE
- Higher focus on the potential impact of citizen financing because of the increased number of cooperatives
 - The Crowdfunding initiative has started in Lithuania in 2016. Number of platforms are increasing but still market size is low
 - Market is supported at the highest political level. However, an amendment of the Law on Consumer Financing is needed
 - Cooperative model is not existent



- Crowdfunding is still in its early stages with 2 platforms operating via lending /equity model
- Lack of legal framework, high bank and card processing transaction fees and low levels of know-how and general awareness

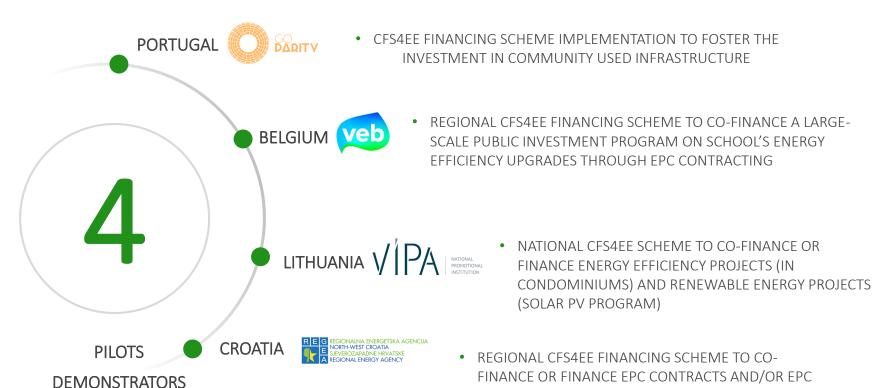


GEARING TOWARDS THE IMPLEMENTATION



- Market opportunities for the citizen financing solutions for energy efficiency
- Map of structured financial solutions for CFs4EE Financing Schemes
- SWG meetings





PORTFOLIOS



WHAT ELSE

- Get involved and subscribe
- Visit <u>www.citizee.eu</u>
- Follow us on social media



@CitizEE_project



Citizen Financing for Sustainable Projects group

Linked Projects



Foster energy democracy through social innovation and the active collaboration between cooperatives, aggregators of renewable energy and crowdfunding platforms

www.socialres.eu



More and better designed public support for energy technology research & innovation

www.smartspend.eu



https://www.bundleup.eu



THANK YOU

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WIP RENEWABLE ENERGIES





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VPA

Public Investment Development Agency

Development

Finance

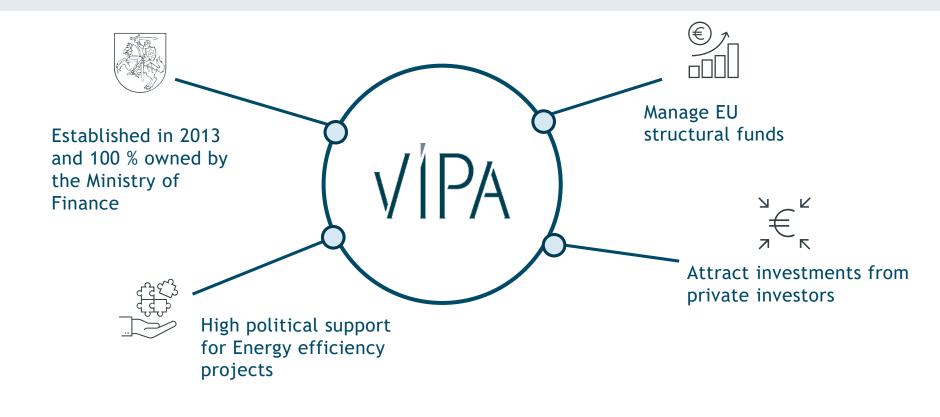
Innovation

Covenant of Mayors Investment Forum

Energy efficiency finance market Place



Who we are

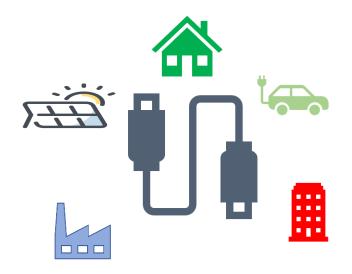


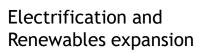
<u>Mission</u> - induce the development of public infrastructure by improving conditions with the help of financial instruments.

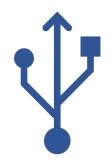
<u>Vision</u> - act as a leader National Promotional Institution in the public infrastructure financing.



There are three major challenges in the energy sector







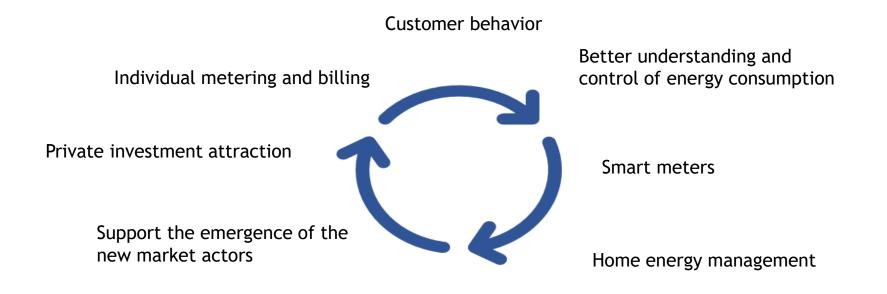
Digitalization



Citizens involvement and decentralization



Principles in energy efficiency in the next 2021 - 2030 and beyond



New connected home devices



Investment platform

VIPA established an <u>investment platform</u> for financing the energy efficiency projects. The legal status of investment platform is under Law on limited partnership. VIPA runs the entity as *general partner* with unlimited liability. Investors can participate as limited partners whereas liability is limited up to investment amount.

Goals of investment platform:



Achieve energy savings



Reduction of CO2 emissions



Financing viable projects (pay back period less than 10 years)



Attracting additional financing sources (EIB/ EBRD) in order to leverage investor's contribution



Support of innovative EE schemes and implementing various projects



Launching new investment strategies



Investment platform

Template Established in 2018

Attracted 10 Million EUR private capital from energy company (Electricity distributor)

VIPA is a platform manager

Attracting a global loan (12.5 M approved from EIB and 12.5 M under negotiation process with **EBRD**

Expanding the investment strategy and attracting more private capital

Stakeholders

VIPA

Functions/Interest

Active management fund

Attracting private and debt capital

Setting up investment strategy and looking for new investment opportunities

Implementing financial instruments

Investors/ private capital

Financial return

Energy savings

Avoiding administrative costs

Leverage effect

Avoiding state aid and direct investment restriction

For energy companies For others investors

Stable financial return

Low risk profile

Reaching energy efficiency goals set by EC

Supporting energy efficiency initiative at EU level

Ensuring leverage effect

Generating profit

Debt capital/ International financial Institution

Investment platform

Management VIPA (General partner) **VIPA** Energy company (Limited partner) Capital/ investments Investor - Energy 10 M EUR company Borrower Debt capital/ 12.5 M EUR approved from EIB Loan International financial 12.5 M EUR under negotiation Institution with EBRD



Structure of **Investment platform**

Investment strategies

Investment platform provides long term loans according to 3 different investment strategies



Loan for energy savings measures direct to Industry company or to ESCO's



Loan for shallow renovation focusing on heating systems

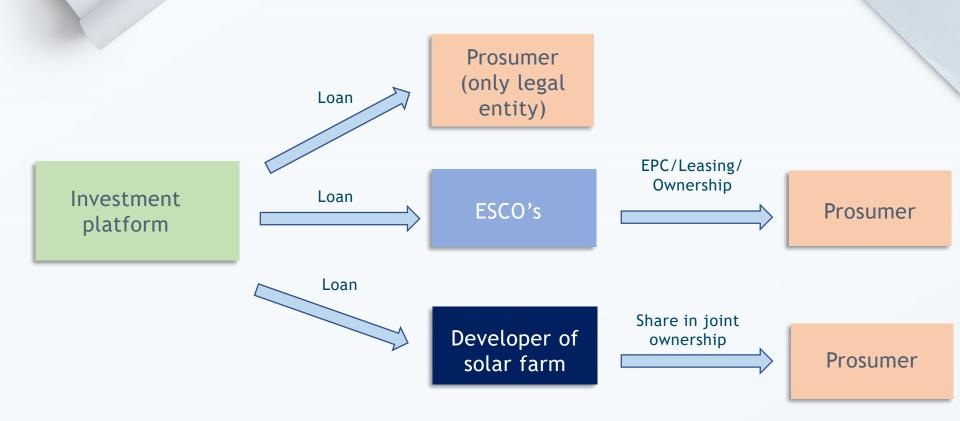


Loan for Prosumers and RES project Developers



Prosumer market

<u>Energy efficiency for Prosumers:</u> Producing companies can receive loan from Investment platform in order to implement energy savings measures. Or ESCO's can receive a long-term loan in order to install their energy efficiency measures.





Prosumer market

<u>Prosumers</u> are persons or legal entities (companies) as well as public sector, who generate electricity from renewable energy sources only for their own energy needs.



<u>Prosumers</u> stay connected to the grid. Approximately 20 proc. of generated green energy is consumed immediately, while the rest of the energy is supplied to the grid and recaptured, when electricity is needed. For this transaction prosumers pay "Net metering payments", which are flexible:



Per kilowatt- hour



Reduced kilowatt- hour plius reduced kilowatt



Per kilowatt



Payment with electricity



Prosumer market

<u>Remote prosumers</u> - producing electricity in one place and using it elsewhere. Energy prosumers will be able to produce and use electricity for their own needs at different location, using net metering principle.





2 REMOTE: Electricity is produced at the renewable plant, that is installed on the prosumer property in one location and consumed elsewhere



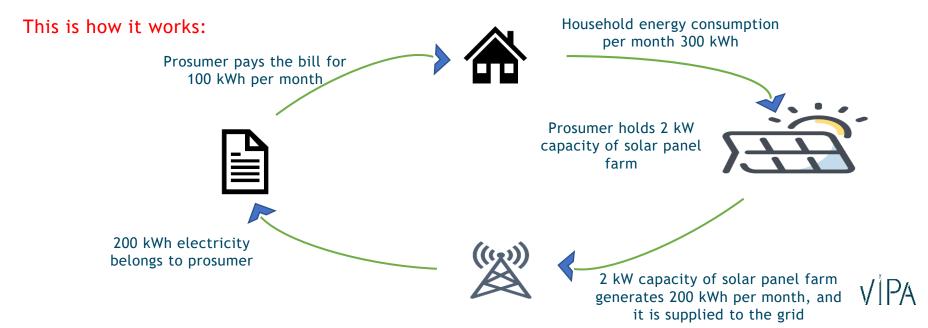
REMOTE renewable farm: Power plant can be developed by third party, while the prosumer acquires or leases some part of it



Prosumer market (remote prosumer)

Remote prosumers - can buy or lease a part of the power plant, which is built by third part (project developer).





Any renewable is a source of generation for prosumer













Wind energy

Hydro energy

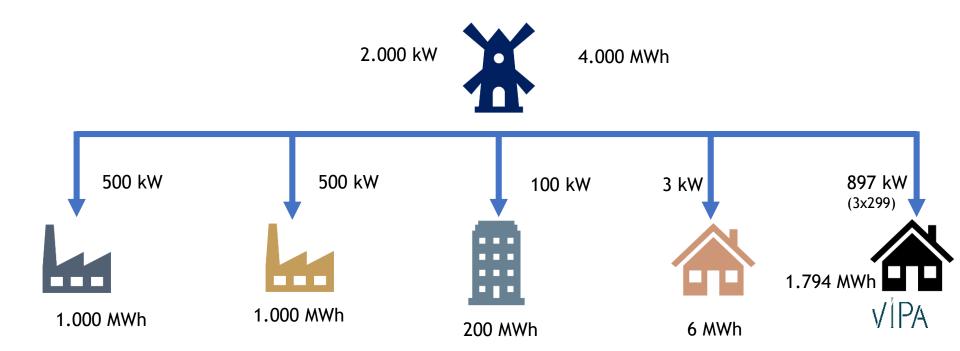
Biogas energy

Solar energy

Geothermal energy

Biomass energy

Example of wind power plant distributed generation



CitizEE project Lithuania

Goal is to develop a regional CF4EE scheme to co-finance or finance energy efficiency and renewable energy projects



Raising additional funding from private financing



Launching new energy projects and sectors



<u>Supporting</u> EE and implementing RES projects



Achieving energy savings, reduction of CO2 emissions and financial profit



Increasing and leveraging
investors' contribution to existing
scheme



<u>Enabling</u> citizens to invest in energy sector

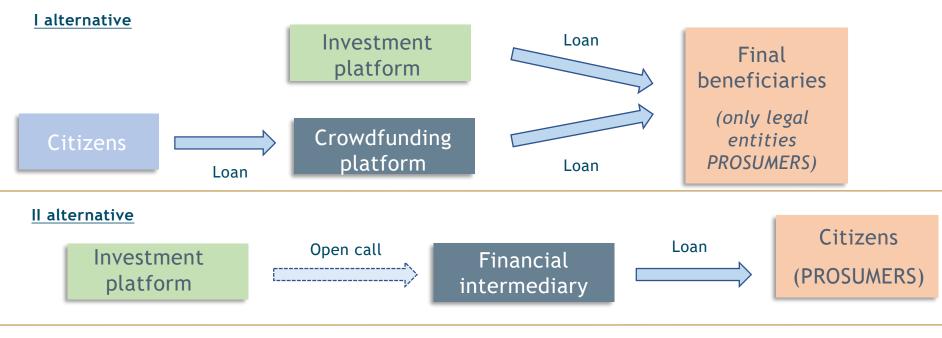


Financing higher risk projects

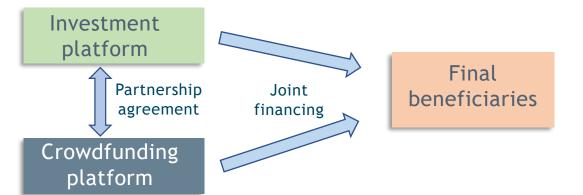


Possible financing scheme for CitizEE

There are III possible alternatives relevant for CitizEE. However these are still under consideration.



III alternative



Joint financing:

- a) At the project level (partial funding)
- b) At the financial measure level



And finally...

- This financial concept opens new opportunities for investors, electricity consumers, project developers and project financers
- Small size projects will be pooling and contributing to aggregation

Demonstrate energy efficiency projects' viability and market potential of crowdfunding financing scheme

Customers may use more green energy in their business and save energy



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Linked in / National promotional institution (VIPA)

