

THE ENERGY EFFICIENCY FINANCE FACILITY FOR RESIDENTIAL BUILDINGS – POLAND

WEBINAR ON INTEGRATED HOME RENOVATION SERVICES IN EUROPE
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Adam Hirny

BNP Paribas Bank Polska SA



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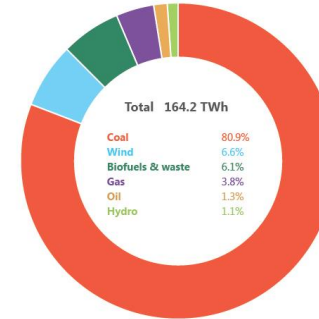
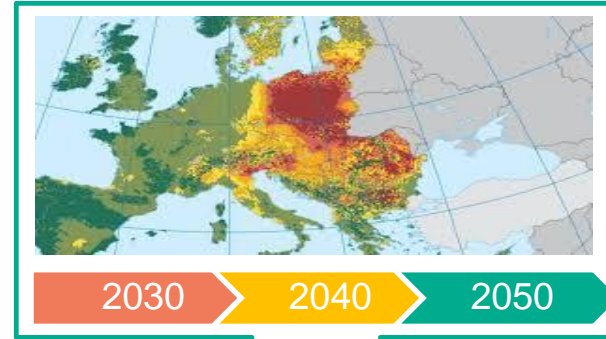


Horizon 2020

The bank for a changing world

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Introduction



2019 c.a.
80% of
energy
mix based
on coal



- Limited awareness and knowledge
- Financial barriers
- Lack of easily accessible technical assistance
- Difficult to access financial schemes



Multi Family Buildings (Housing Associations)

- Lack of technical knowledge among housing associations
- Limited awareness concerning possible EE savings
- The housing associations are more willing to invest in energy efficiency if they see the potential benefits,
- The financial schemes are available for housing associations only if they present the energy audit and investment plan

Name of the project: Energy Efficiency Finance Facility for Residential Buildings

1. Start date: 01/04/2020
2. Duration: 36 + 6 months
3. Budget: EUR 3 500 000
4. Contribution from ELENA Facility: EUR 3 150 000
5. Objectives:
 - a. Creation of package of project development services
 - b. Mobilisation of energy efficiency investments in residential sector.

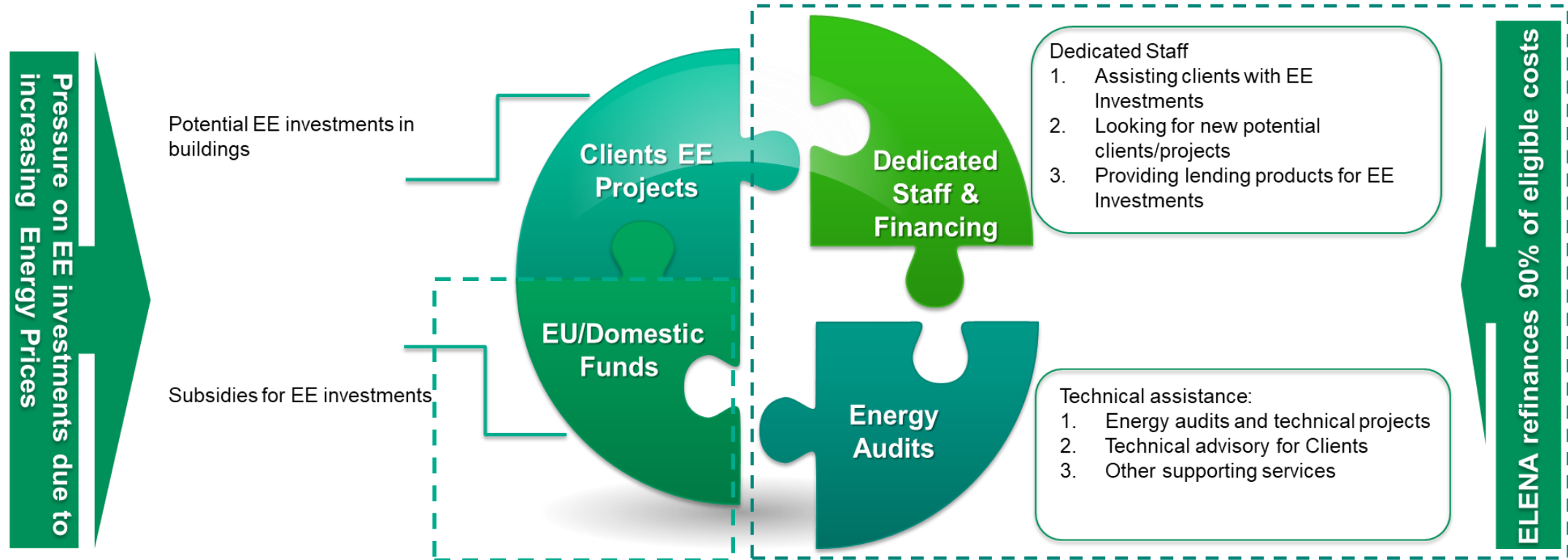
TYPES OF INVESTMENTS SUPPORTED BY EEFBRB

- Comprehensive energy refurbishment, including:
 - Thermal insulation of an envelope,
 - Replacement of windows and external doors,
 - Reconstruction of heating systems,
 - Reconstruction of ventilation and air conditioning,
 - Implementation of energy management systems,
- Renewable Energy Sources integrated with the Buildings:
 - Solar PV installations,
 - Heating pumps,
 - Solar thermal installations for sanitary hot water,
- Other types of investments:
 - Creation of a technical connection to a centralized heat source,
 - Conversion of energy sources to renewable sources, or use of high-efficiency cogeneration,



About EEFRRB

EEFFRB - HOW IT WORKS



EEFFRB = TECHNICAL ASSISTANCE + FUNDING + ENERGY EXPERTS

Internal Capacity - Team of Bank's energy experts:

- Energy Experts in all regions of Poland
- In charge of investment projects development in each region,
- Easily accessible for housing associations,
- Supporting local RM'S in dealing with EE investments,
- Cooperating with external energy experts,
- Providing advice on financial schemes to housing associations,
- Responsible for promotion of EEFFRB,



External Capacity - Team of Energy Engineers:

- Responsible for providing support to Housing Associations in form of:
 - Energy audits,
 - Complex technical design documentation,
 - Dedicated technical assistance and advice to housing associations,
- Closely cooperating with the team of Bank's Energy Experts & RM's,
- Providing workshops for Housing Associations and Bank's staff,



- Dedicated Investment Loans for Housing Associations:

- Up to 20 Y of financing,
- Max amount: PLN 2,6 mln
- Own contribution: not required for loans up to PLN 1 mln
- Interes: floating WIBOR3M + Maring
- Financed investments - all types required for:
 - Comprehensive energy refurbishment,
 - RES integrated with the building,
 - Other types of EE investments

- Grant suport from Polish Development Bank (BGK):

- Grant up to 21% of investment

+ Risk sharing Instrument (PF4EE)

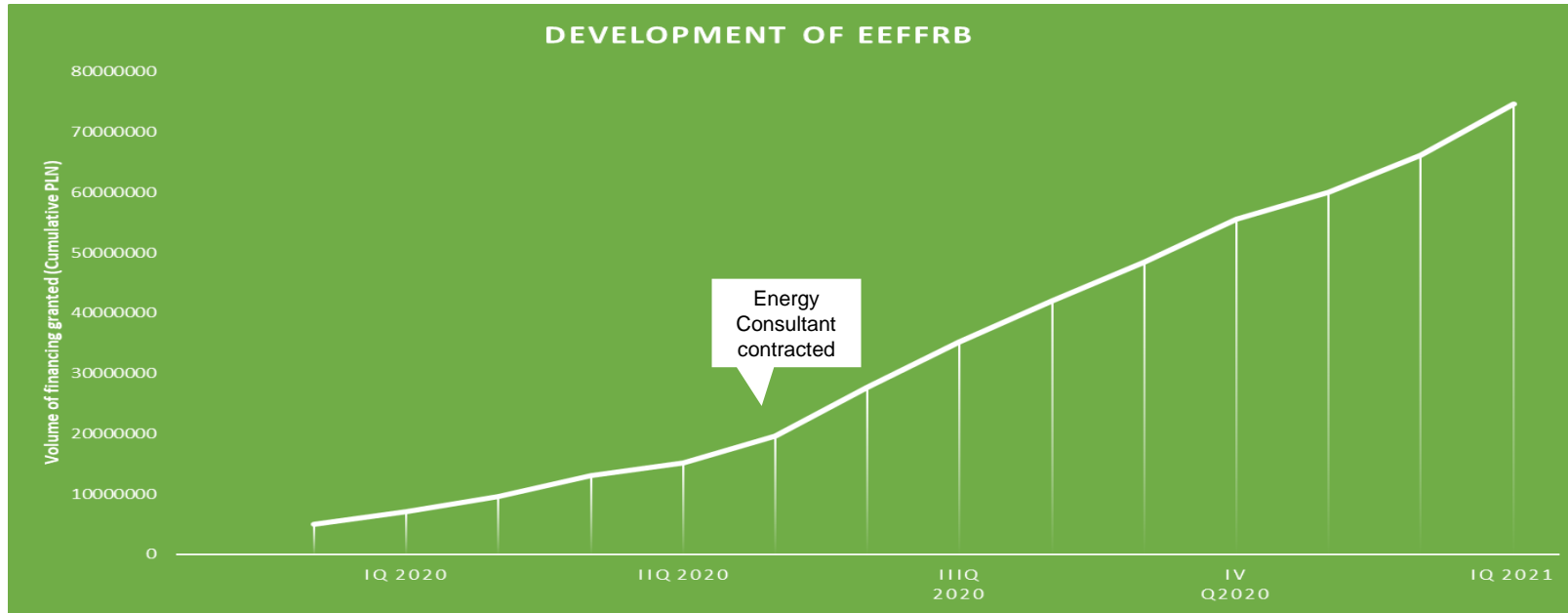


- Risk sharing instrument (PF4EE)
 - Instrument provided by EIB and the European Commission under the Programme for Environment and Climate Action (LIFE Programme),
 - Dedicated for supporting long term financing under favourable conditions of investments in energy efficiency,
- Benefits for Housing Associations
 - Extended tenors,
 - Reduced requirements for own contribution,
 - Decreased cost of funding



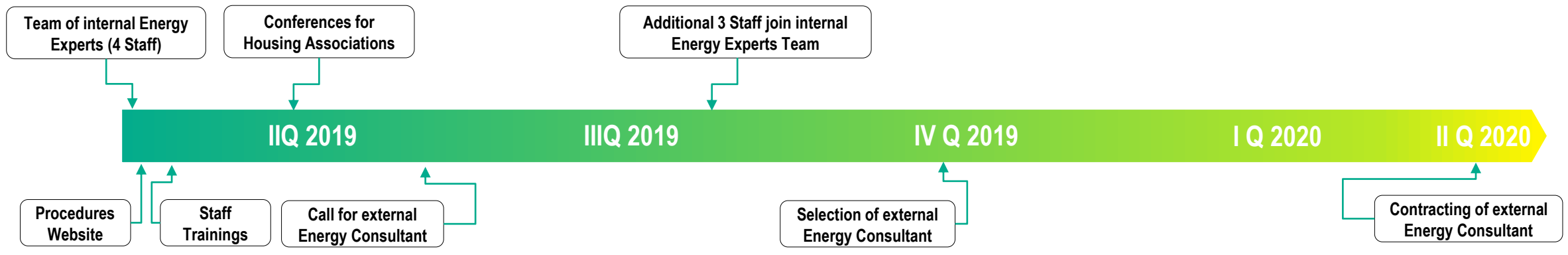
development of EEFFRB

DEVELOPMENT OF EEFBRB (VOLUMES OF FINANCING PLN)



IMPORTANT

- Increase of project portfolio despite Lock-down (however its dynamics are below assumed levels).
- The restrictions imposed by authorities due to pandemic limited the ability to effectively promote the EEFBRB



Conferences for Property Managers



Partnership in ECO-City



organizatorzy



współorganizator



partnerzy strategiczni



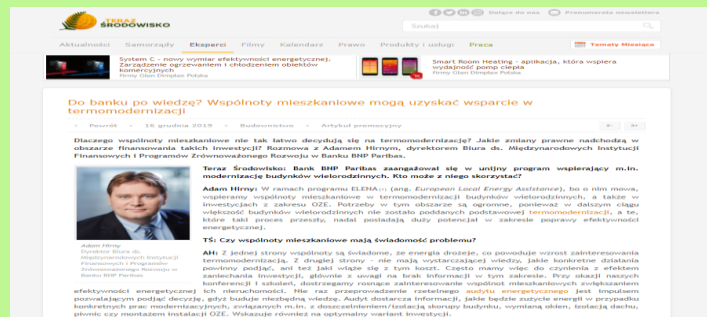
partner komunikacyjny



Sustainability Award 2019 for the best social project from UN Global Compact.



Press releases & interviews



Do banku po wiedzę? Wspólnoty mieszkaniowe mogą uzyskać wsparcie w termomodernizacji

Adem Hirny: W ramach programu ELENA... (ang. European Local Energy Assistance), to o nim mówię, wspólnoty mieszkaniowe w termomodernizacji budynków użyteczności publicznej, a także w inwestycjach z zakresu OZE. Potrzeby w tym obszarze są ogromne, ponieważ w słabym ciągu wspólnoty budynków wielokвартирных nie zostały podjęte żadne działania termomodernizacyjne, a te, które tak, proces przemyślał, nadal posiadają duży potencjał w zakresie poprawy efektywności energetycznej.

Ti: Czy wspólnoty mieszkaniowe mają świadomość problemu?

AH: Z jednej strony wspólnoty są świadome, że energia droższe, co promuluje wzrost zainteresowania termomodernizacją. Z drugiej strony - nie mała wykształcenia inwestorów, jakie konsekwentnie działają powoli podjąć, ani też jak widać się w tym kontekście. Często mamy więcej do dysponowania z efektem zarobkowym inwestycji, głównie z uwagi na brak informacji w tym zakresie. Przy okazji naszych konferencji i szkoleń, dostarczamy również zainteresowanym wspólnot mieszkaniowych instrukcje, porównujemy podjęte decyzje, gdyż bardzo niezbędne wiedzę. Analizy dostarcza informacji, jakie będzie zużycie energii w przypadku konkretnych prac modernizacyjnych, wskazujemy na to, a dofinansowaniem fundację ukraiński budownictwa, wspomaga, wskazuje, wskazując czy montażem instalacji OZE. Wskazuje również na optymalny wariant inwestycji.



Case studies

1. Building's details:

- a. Type: Multifamily Building
- b. Year of construction: 1975
- c. Floor area: 6067square metres
- d. No of units: 100
- e. No of inhabitants: 269

2. Investments undertaken:

- a. Roof isolation
- b. Exchange of Windows
- c. Thermal isolation of envelope

1. Investment's value: PLN 842 000 PLN

2. Financial scheme:

- a. Loan value: PLN 774 000 (92%)
- b. Own funds: PLN 68 000
- c. Loan duration: 15Y
- d. Grant value: PLN 134 000
- e. SPBP: 6,85 Y
- f. Technical documentation: 90% cofinanced from ELENA's funds

3. Expected Results:

- a. Energy savings (%): 40,7%
- b. Energy savings (amount/Y): PLN 123 000



1. Building's details:

- a. Type: Multifamily Building
- b. Year of construction: 70s
- c. Floor area: 3025 square metres
- d. No of units: 48
- e. No of inhabitants: 90

2. Investment:

Hybrid installation (replacing old gas boiler):

- a. Heating Pumps (180 kW)
- b. PV (installed capacity 60 kW)

1. Expected Investment value: PLN 950 000 PLN

2. Proposed Financial scheme:

- a. Loan value: PLN 950 000 (100%)
- b. Own funds: not required
- c. Loan duration: 15Y
- d. Expected Grant: PLN 199 500
- e. Technical documentation: 90% cofinanced from ELENA's funds

3. Expected results:

- a. Energy savings (%): 80%
- b. Energy savings (amount/Y): PLN 108 500



GOAL OF EEFBRB IS TO MOBILISE AS MUCH AS POSSIBLE „BASIC + RES PROJECTS”

Key Facts and Expected results

EEFFRB was introduced to the market in 04/2019

It is expected that the facility will enable to mobilise minimum 800 projects worth 78M EUR until 03/2022

The expected results of the planned projects are:

- Energy Efficiency – Annual total savings in the final energy consumption of 184 GWh
- CO2 reductions – Annual total emission reductions of 47 900 t CO2 eq.

The expertises gained by BNPP will enable it to further expand green financing after EEFFRB expires

