EEFFRB – ENERGY EFFICIENCY FINANCE FACILITY FOR RESIDENTIAL BUILDINGS

COVENANT OF MAYORS INVESTMENT FORUM: FINANCING HOME RENOVATION
BRUSSELS 18 -19 FEBRUARY 2020

Adam Hirny
BNP Paribas Bank Polska SA

BNP PARIBAS

Horizon 2020

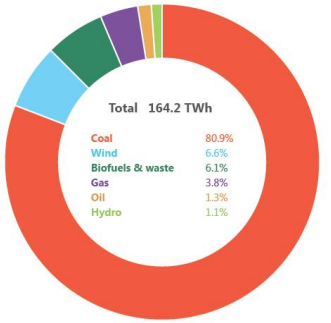
The bank for a changing world

Contents

ALM Treasury

Introduction

THE SURROUNDING



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

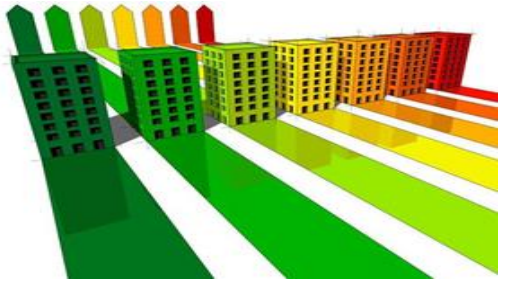
BNP PARIBAS

- **Limited awareness and knowledge**
- **Financial barriers**
- **Lack of easly accesible technical assistance**
- **Difficult to access financial scheemes**

MULTI FAMILY BUILDINGS IN THE SCOPE OF INTERES

ALM Treasury

Multi Family Buildings



Industry / Buildings

Family Buildings

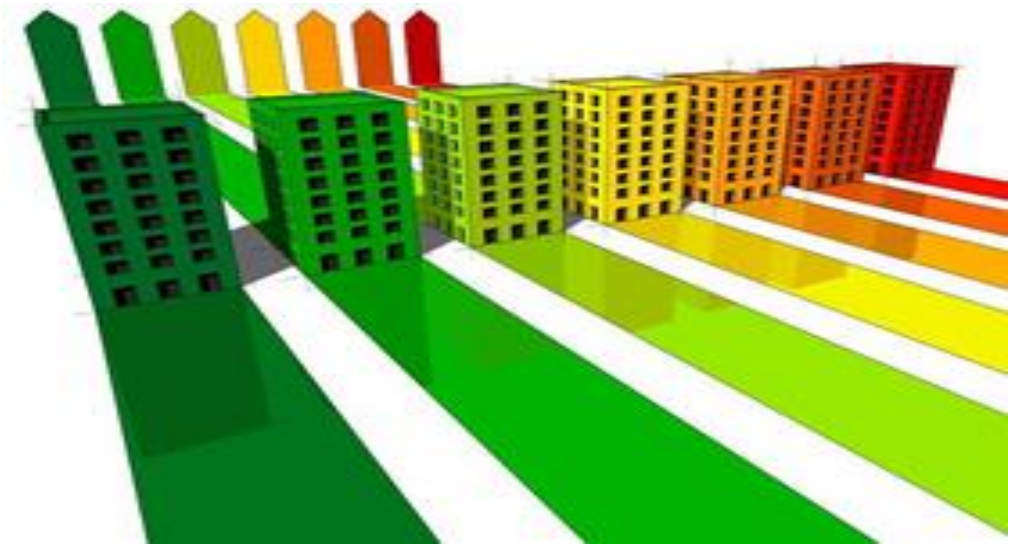
Electro mobility

- Energy Efficiency Renovation of Commercial Buildings,
- Integration of Renewable Energy Sources into the Commercial Buildings,
- **Energy Efficiency Refurbishment of Residential Buildings,**
- **Integration of Renewable Energy Sources into the Residential Buildings,**
- Improved energy performance of industry processes,
- Other Renewable Energy Projects,
- Electro mobility projects,

THE OBSTACLES TO OVERCOME

ALM Treasury

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 scheemes are available for housing associations only if they present the energy audit and investment plan

About EEFFRB

EEFFRB PROJECT – BASIC INFO

ALM Treasury

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

Start date: 01/04/2020

Duration: 36 months

Budget: EUR 3 500 000

Contribution from ELENA Facility: EUR 3 150 000

Objectives:

a. Creation of package of project development services

b. Mobilisation of energy efficiency investments in residential sector.

EEFFRB - HOW IT WORKS

ALM Treasury

European Investment Bank The EU bank

Support

BNP PARIBAS

The Programme is supplemented by:

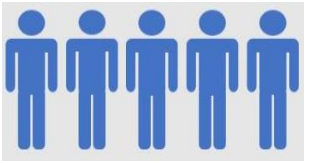
- Dedicated lending offer
- Grant schemes

INTERNAL CAPACITY – TEAM OF ENERGY EXPERTS

ALM Treasury

Team of Bank's energy experts:

- Seven Energy Experts,
- Located in each region of Poland,
- In charge of investment projects development in each region,
- Easly accesible 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,



TECHNICAL ASSISTANCE – EXTERNAL ENERGY CONSULTANT

ALM Treasury

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,

EEFFRB - Types of investments

TYPES OF INVESTMENTS

ALM Treasury

- Comprehensive energy refurbishment, including:
  - Thermal isulation of an envelope,
  - Replacement of windows and external doors,
  - Reconstruction of heating systems,
  - Reconstruction of ventilation and air conditioning,
  - Implementation of energy management systems,
- Renevable 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,








Financial Schemes

FINANCIAL SCHEMES

ALM Treasury

- 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 investments
- Grant suport from Polish Development Bank (BGK):
  - Grant 21% of investment
- Risk sharing Instrument (PF4EE)

FINANCIAL SCHEME – SUPPORTED BY PF4EE

ALM Treasury

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

European Investment Bank The EU bank

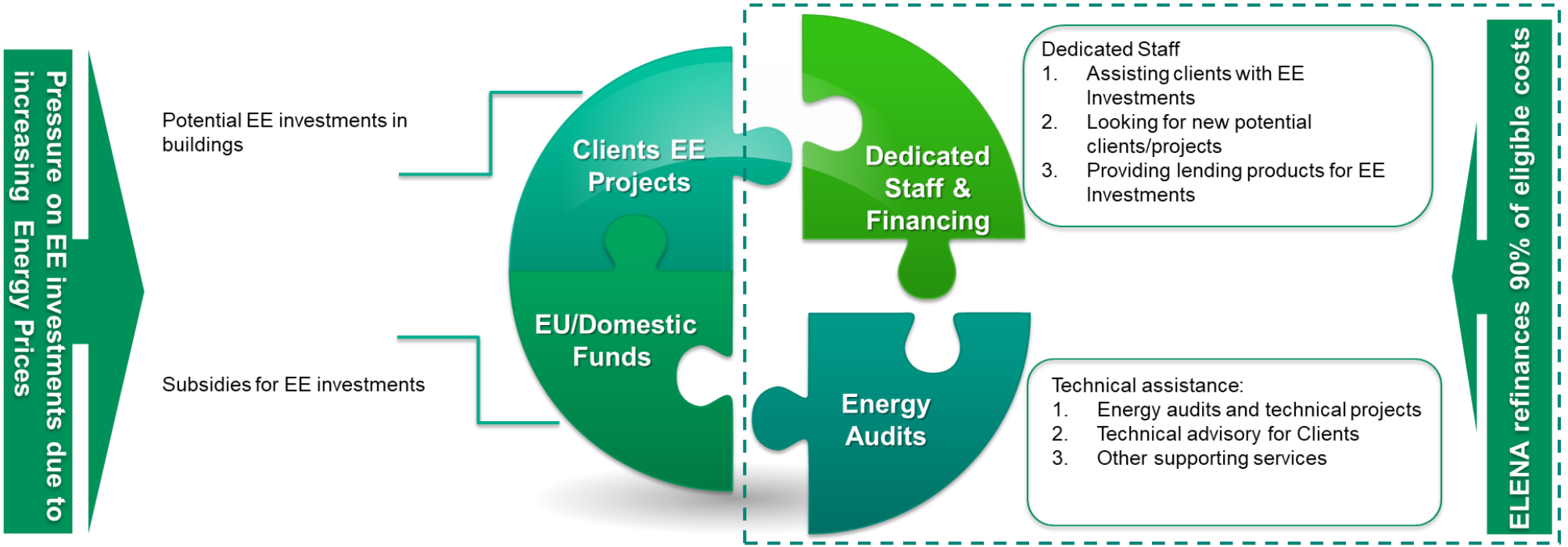
Europska Unija

Life

PF4EE PRIVATE FINANCE FOR ENERGY EFFICIENCY

HOW TECHNICAL ASSISTANCE FITS FINANCIAL SCHEME

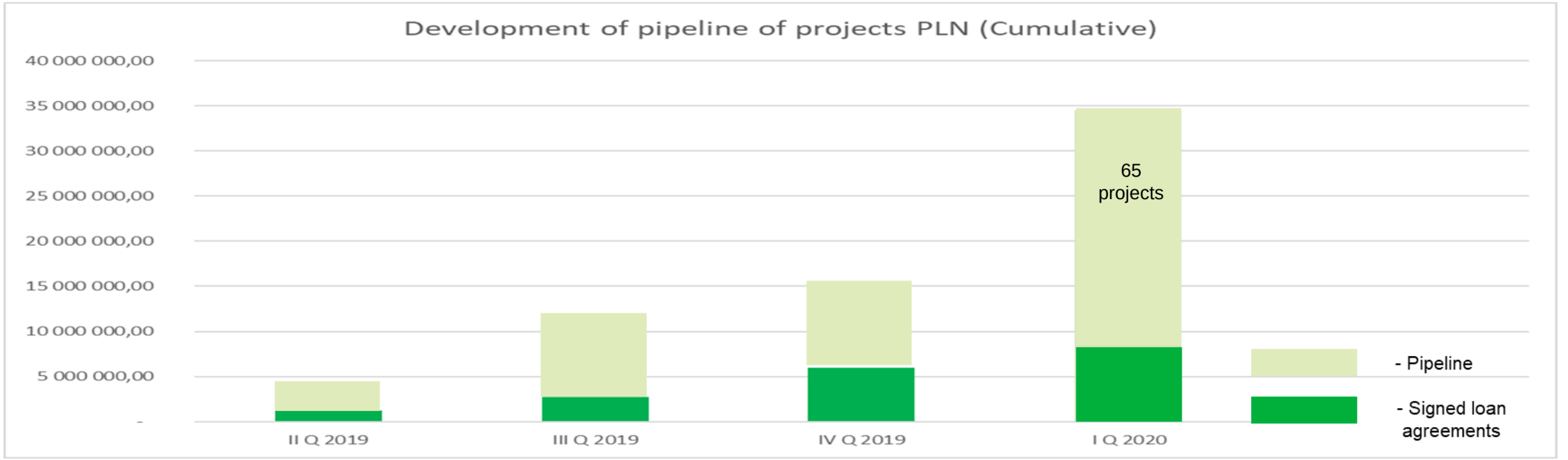
ALM Treasury

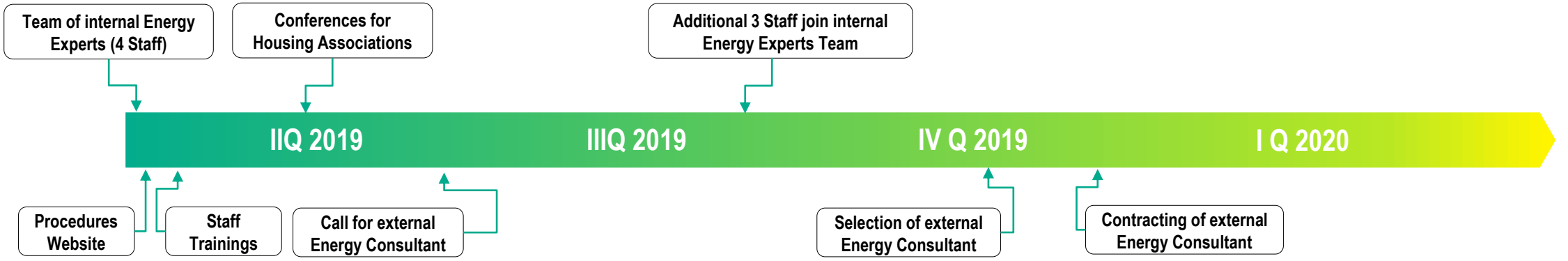


development of EEFFRB

DEVELOPMENT OF EEFFRB (INC. PIPELINE OF PROJECTS)

ALM Treasury



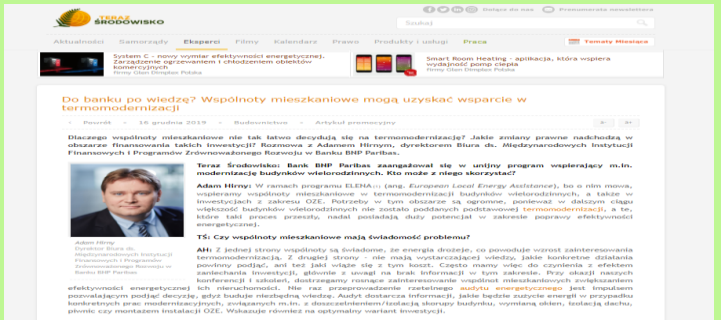


PROMOTION ACTIVITIES

ALM Treasury

Conferences for Property Managers

Press releases & interviews



Partnership in ECO-City

ECO-MIASTO

organizatorzy

GRID WARSZAWA
In partnership with UN Environment

współorganizator

TERAZ ŚRODOWISKO

partnerzy strategiczni

RENAULT

CEETRUS

BNP PARIBAS

Fundacja VEOLIA

partner komunikacyjny

PROPSY PR

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

DEVELOPMENT OF EEFFRB – NEXT STEPS

ALM Treasury

- Continuation of current promotion activities (conferences, press, media, ect.),
- **Set up of cooperation with distributors of EE & RE Technology**
- Creation of additional marketing tools:
  - Succes stories, best practicies,
  - YOUTUBE films, testimonials,
- **Workshops for property managers:**
  - **Focuse on deep retrofit of multi-family buildings,**
- Increase presence in social media, FB, ect.,
- **Constant improvement of knowledge among bank's staff**
  - E-learning, Trainings,

EXAMPLE OF BASIC INVESTMENT

ALM Treasury

1. Building's detailes:
    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 isulation 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

POTENTIAL RES PROJECT (INTEGRATED WITH BUILDING)

ALM Treasury

1. Building's detailes:
    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 EEFFRB 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

THAN merci

mèsi **KKYOUR** chokrane

dhanyavad **AZARI** dzięki**ę**

GRACIAS anke **EYXAPIΣTΩ** **NANDRI**

спасибо **MAÛH** teşekkür

ederim **AQËRËJËF**