





















The BEEF Model Scaling Massively **Multifamily Renovations**

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Director



Who are we? Why focus on buildings? What is a possible model? Its evolution over 10 years EPC+ **EES**



FUNDING FOR FUTURE B.V. (F3)

FUNDING FOR FUTURE Create Value With Your Capital Tal

- F3: Fund Manager
- finances building renovation services and supports EU member countries in their Renovation strategies:
 - pioneered first private finance investment vehicle "LABEEF"
 - co-financed -EBRD- 6 Buildings 20 year contracts
 - Poland –NFOS priority program EPC+
 - France, Italy, Germany, Portugal: EES

Buildings -Energy Drain & Health Hazard And Shortage of homes

EU buildings: climate and societal challenge

- 40% of all energy consumption
- 36% of CO2 emissions across the EU
- Citizens live in degrading, unsafe and unhealthy buildings
- Buildings cost the EU economy approximately
 - €194 billion annually
- Missing investment in housing:

€57 billion annually



The solution <u>is not only</u> how to save energy!

It is, how to save Europe's housing stock!

Energy Efficiency First is the answer.



HEALTH HAZARD & ENERGY DRAIN



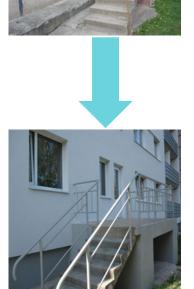
- Buildings in poor condition are health hazard for inhabitants and users
- Poor living and working conditions create financial burden to society
- Buildings consume 40% of energy
- Nearly 70% of buildings are build before 1990s,





Safety. Health. And Comfort™ Guaranteed Savings





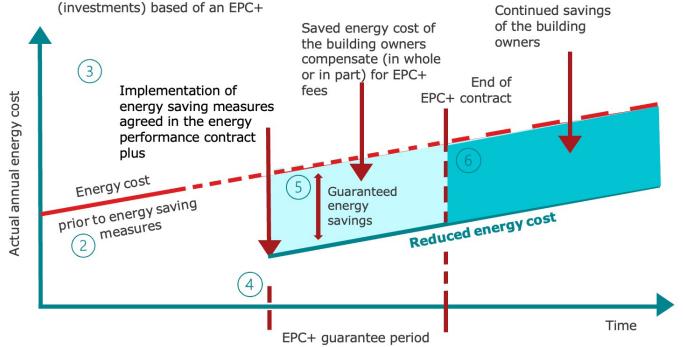
LABEEF EPC+/EES PERFORMANCE CONTRACT: "Complete" Retrofit Subscription Delivered through a digital platform

ENERGY PERFORMANCE CONTRACT Plus (EPC+)

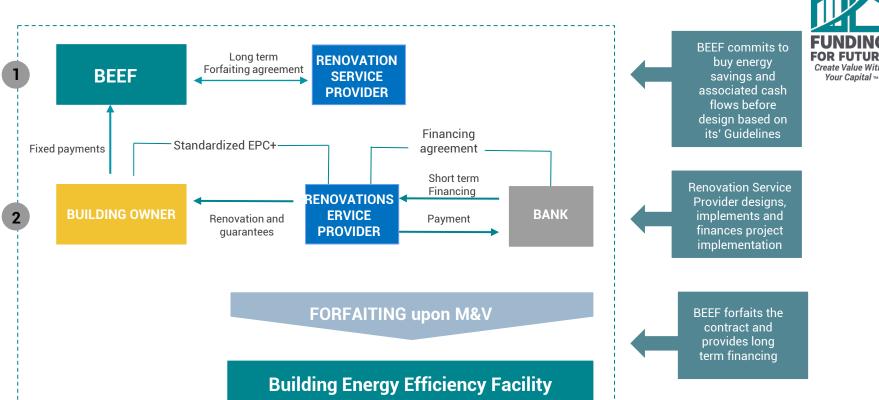
1 THE CONCEPT OF EPC+ FOR BUILDINGS



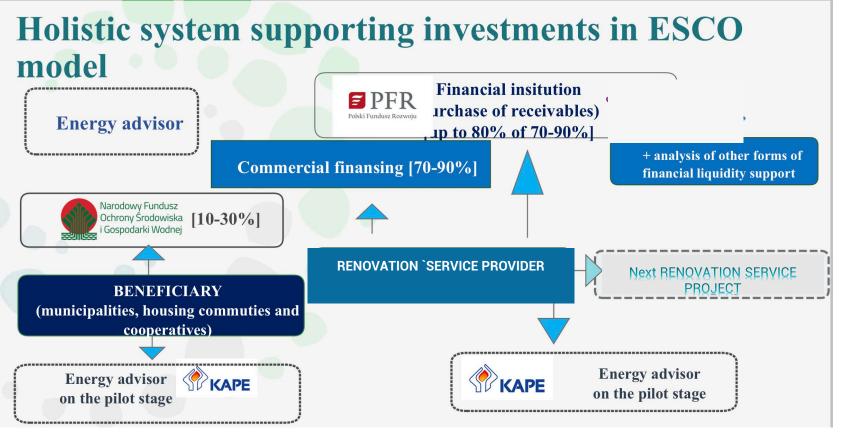
Service provider prepares standardized service-package, including technical improvements and safety measures



BEEF OPERATIONS SCHEME



10

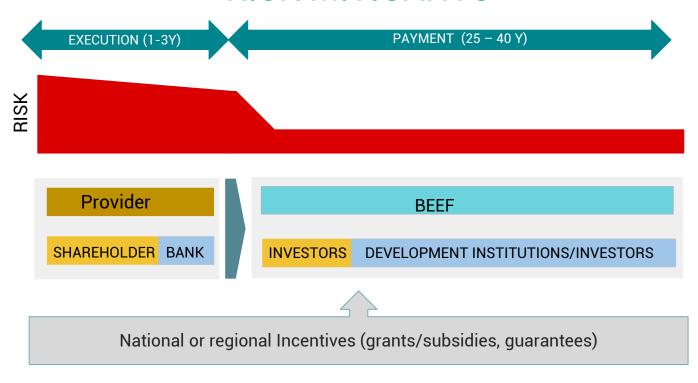








RISK MITIGANTS





EPC+ delivers HEALTH & ENERGY



- The investment risks are transferred from the building owner to the renovation service provider.
- No up-front payment required from the building owner.
- On-Bill payment for services received
- Renovation service provider guarantees EE & safety/comfort improvements which serve as basis for their payments.
- The productivity and value of buildings are increased through professional services.

BEEF EPC PLUS (+) - contract



Guarantees energy savings and the way they are measured and verified



Standardized terms of the contract



Client (apartment owners) and Contractor (Renovation Service provider) clear **rights and obligations**



During the construction period



Operation / maintenance / responsibilities during the contract terms



How to solve disputes, changes in conditions, unexpected problems

"SAFETY, HEALTH & COMFORT" The GUARANTEES



INDOOR AND HOT WATER TEMPERATURE

guarantees

Minimum indoor air temperature Minimum hot water supply (> 55 C)

INDOOR AIR QUALITY

Guarantees number of air exchanges. = good ventilation of the building

SERVICE QUALITY

guarantees that the installed equipment and the used materials for the full length of the contract = 20-40 years

Sustainable BENEFITS FOR RESIDENTS

- ✓ Conservation of their apartment
- ✓ More comfortable and nicer looking house to live in (currently many apartments are severely under-heated).
- ✓ Flat owners receive 25% profit share of Renovation Service Provider's net result
- ✓ 25+ year guarantee on all construction works and therefore less worries and cost for maintenance during the contract period
- ✓ The sales value of their apartment increases by at least 20% right after renovation
- ✓ After 25+ years apartment owners get all the benefits from energy savings (expected 50-80%)



THANK YOU



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ENERGY SERVICES COMPANY

What is an Renovation Service provider?

Energy Service Company is "as a natural or legal person that delivers **energy building services and/or other energy efficiency improvement measures** in a user's facility or premises, and accepts some degree of financial risk in so doing. Payment of provided services (in total or partially) is based on **reached energy efficiency improvements and fulfilment of other criteria** agreed upon regarding these targets" - *Directive EU 2006/32*.

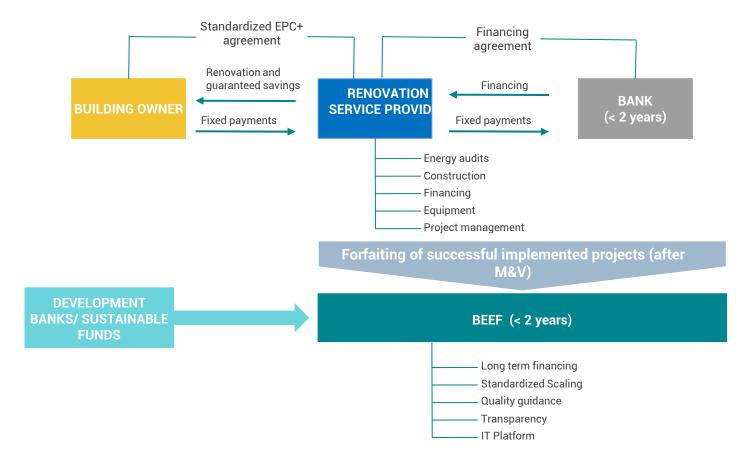


EE Service provider/renovation service provider can provide the whole range of necessary energy services – from planning, management, implementation, and monitoring of energy management services to technical improvements. The company shoulders the associated **economic, technical, and administrative risks** in carrying out the EE improvements.

- → Company arranges the financing and takes on performance risk: if no energy is saved, company does not profit.
- → The company stays involved in the measurement and verification process for the energy savings in the repayment period.
- → There is little upfront cost for the owner. The renovation service provider will assess the efficiency opportunity, purchase equipment necessary to improve performance, and install the equipment.
- → The company provides energy reports and energy savings records.

BUILDING ENERGY EFFICIENCY FACILITY ("BEEF")





SCOPE AND SERVICES OF EPC+





