- GREEN ECONOMY TRANSITION (GET)
- DE-RISKING AND SCALING UP EE INVESTMENTS

Toivo Miller Riga, 11 November 2016









AMBITIOUS

Limit the increase in the average global temperature to 2 degrees C "Pursue efforts" to limit to 1.5 degrees C

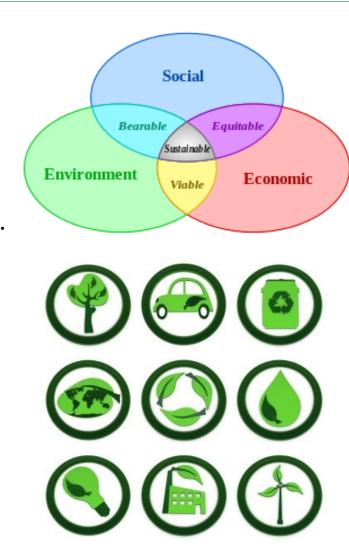
UNIVERSAL

Agreement adopted by 195 countries

The Transition to a Green Economy



- OECD's definition of Green Economy: "... to foster economic growth and development, while ensuring that the Earth's natural assets continue to provide the resources and environmental services on which wellbeing relies"
- Closely interlinked with the 21st Conference of Parties of the UNFCCC aiming to achieve a universally-binding agreement on climate change mitigation and adaptation...
- ...and with the implementation of the **Sustainable**
- Development Goals
 Translates into the investment scale-up in areas such as:
 - -Renewable energy and alternative fuels
 - -Resource (energy, water & material) efficiency
 - -Pollution prevention and control
 - -Sustainable land use
 - -Clean transportation
 - -Sustainable water management
 - -Bio-diversity conservation...



EBRD's Green Economy Transition Initiative: from energy efficiency to sustainability



- The GET aims to further scale up green business volume, and to expand to new areas of activity, such as environmental protection and technology transfer.
- It aims to mainstream and to increase financing for sustainable use of resources across the Bank's operations.
- A key guiding principle is that opportunities for resource efficiency financing exist across all economic sectors and project types unlike until 2006, when energy efficiency was considered in isolation from other sector teams.

1994	2006	2013	2015
	Sustainable Energy Initiative (SEI)	Sustainable Resources Initiative (SRI)	Green Economy Transition (GET)
Energy Efficiency banking team	Energy efficiencyRenewable energy		
		Water efficiency	

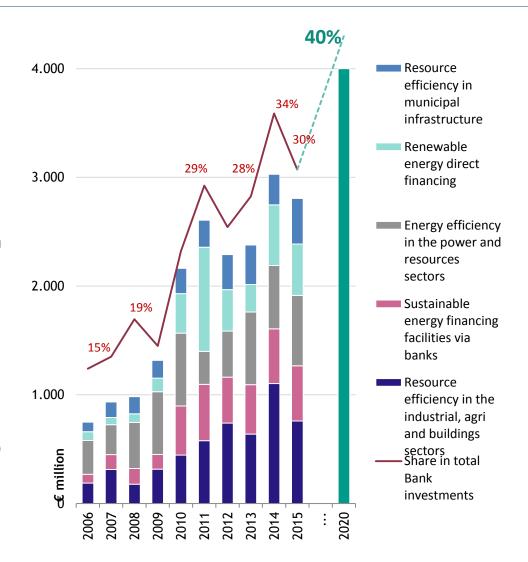
- Material efficiency
- Adaptation to climate change
 - Environmental protection
 - Technology transfer

GET objectives and drivers



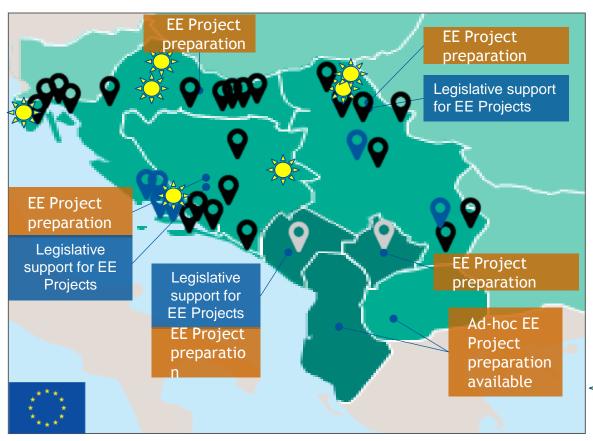
GET objectives:

- further scale-up Bank operational and policy activity to accelerate COO transition to low carbon economy and climate resilience
- broaden green investment activity through environmental dimension
- develop innovative technical and financing products supporting private sector climate action complemented by public sector channels when needed
- in quant terms, increase EBRD environmental climate financing to 40% of total ABI by 2020.



Example of public sector project pipeline: need for technical cooperation support





In Western Balkans:

- 4 street lighting projects implemented
- 2 street lighting projects to be implemented in 2016
- •7 tender under preparation for tendering in Q4/2016
- 14 tenders under preparation, including street lighting Belgrade and Novi Sad
- 8 municipalities indicated interest in projects

Policy dialogue

Legislative support for **EE Projects**

TC assignments

Energy efficiency (EE) Project preparation

Tenders published, contracted or implemented: REEP policy or technical support ESCO tenders under preparation

using REEP resources

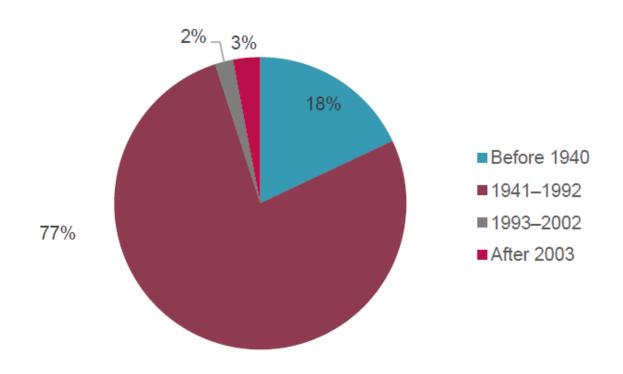
Public authorities indicated interest in

> Feasibility/ scoping studies prepared by REEP

project

Latvian residential building stock is aging: sustainable solution needed



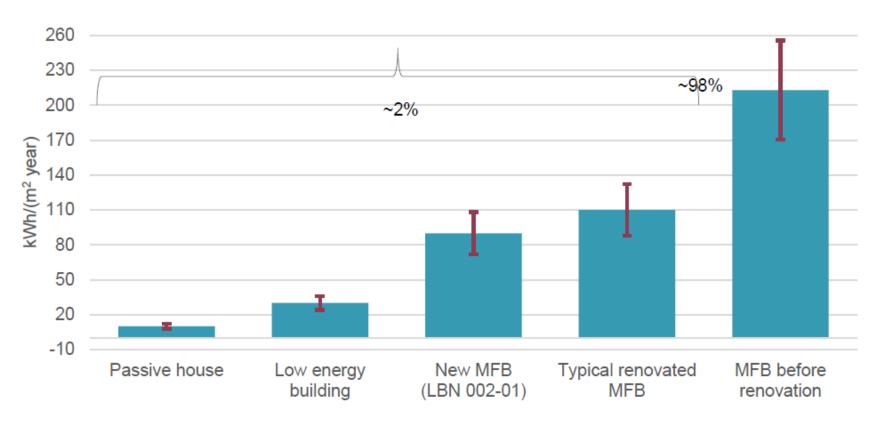


Note: Structure of the housing stock in Latvia in % of m2 Source: Latvian Ministry of Economics

14 November, 2016 11

Significant energy saving potential allows cost savings in multi family buildings (MFB)





Distribution of MFB energy consumption; Source: Ministry of Economics

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Creating opportunities from energy savings: performance based deep retrofits



THE PROBLEM

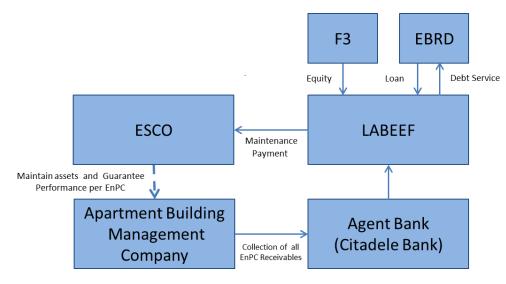
 Multi family buildings (MFB) struggle to initiate, implement and finance deep retrofits.

THE INNOVATIVE SOLUTION

- ESCOs are contracted for the technical design, implementation, financing and energy savings.
- ESCOs are only paid based on performance (=no additional costs for building owners).
- LABEEF purchases implemented and performing ESCO projects.
- This helps ESCOs to have cash for implementing additional projects.

THE EBRD'S ROLE

- Helped develop the financing structure.
- Intention to provide debt-financing to LABEEF for purchasing the receivables of implemented projects.
- Intention to support state to extend concept to public sector buildings and street lighting.



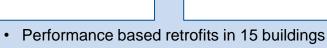


Verified during EBRD due diligence





- · There are 39,000 multi family buildings
- 95% of residential buildings built pre-1992
- 98% consume >200 kWh/sqm*year
- Reconstruction requires approx. EUR 40 billion – ESCO projects only EUR 8 billion = business opportunity



- with 359 apartments implemented
- No defaults since implementation in 2009.
- Buildings will last >30 years.
- No increased cost for residents means no increase of affordability risk.
- 54% energy savings on average.

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Thank you!



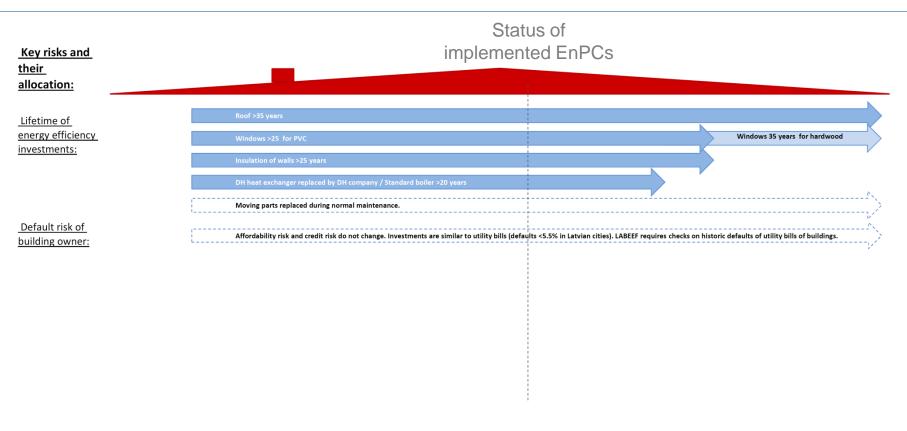
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Risks of performance based deep retrofits

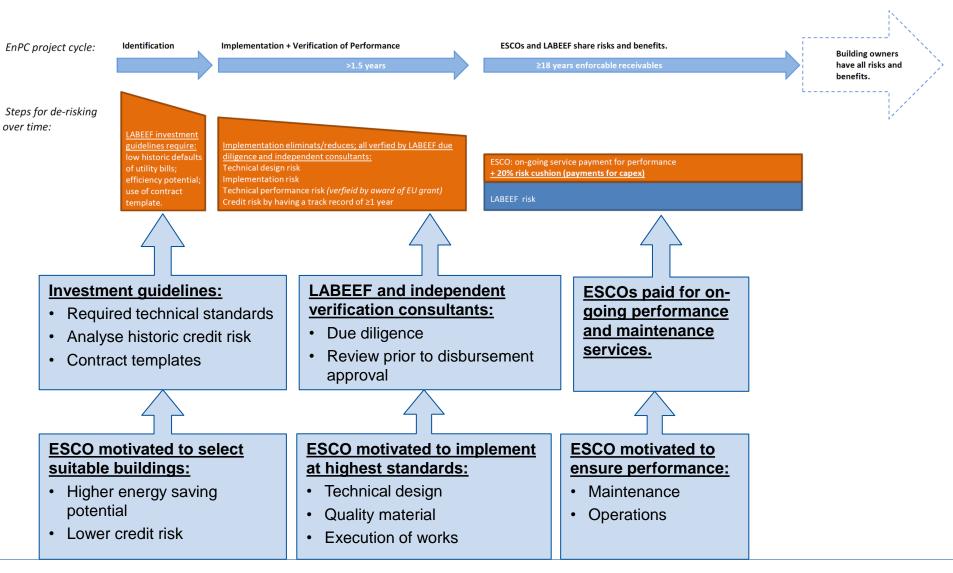




14 November, 2016 16

De-risking investments and scaling up





14 November, 2016

Physical impacts of EBRD green financing



