Western Balkans Regional Energy Efficiency Programme (REEP)

EECG meeting, Vienna 10 March 2016



This project is funded by the European Union

The Programme is funded by EU IPA and the European Western Balkans Joint Fund, and implemented by EBRD in cooperation with the Energy Community Secretariat





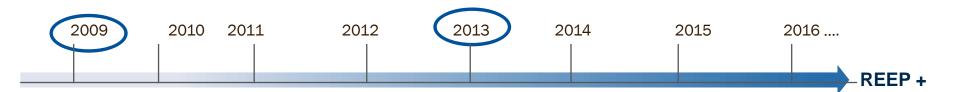
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- Future directions





Emergence of REEP in the Western Balkans



Since 2009, the EBRD has provided dedicated regulatory assistance and financing to energy efficiency (EE) and renewable energy (RE) projects in the Western Balkans.



The Western Balkans Sustainable Energy Financing Facility (WeBSEFF) for small-scale EE/RE projects in commercial sector



The Western Balkans Sustainable Energy Direct Financing Facility (WeBSEDFF) for medium-sized EE/RE projects in commercial and municipal sector RegionalEnergyEfficiencyProgrammein the Western Balkanswith WBIF support of €23.35m

Building on success of WeBSEFF and WeBSEDFF, the REEP was launched to support the sustainable energy transformation of the whole region in a comprehensive manner.

EBRD and Energy Community Secretariat:

- Prepared the concept jointly
- Implementing REEP in partnership

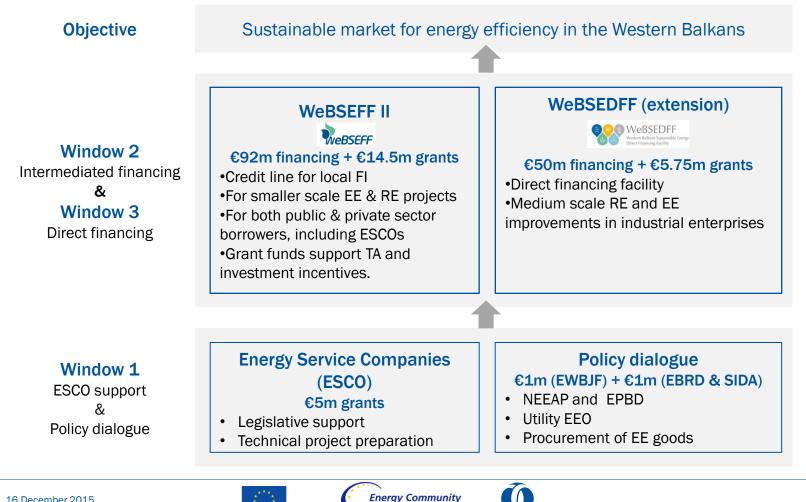
REEP proving to be **successful model of regional cooperation** between the EU, the EBRD, the ECS and BENEFICIARIES: deeply engaged through Technical Working Groups, and the Energy Efficiency Coordination Group.





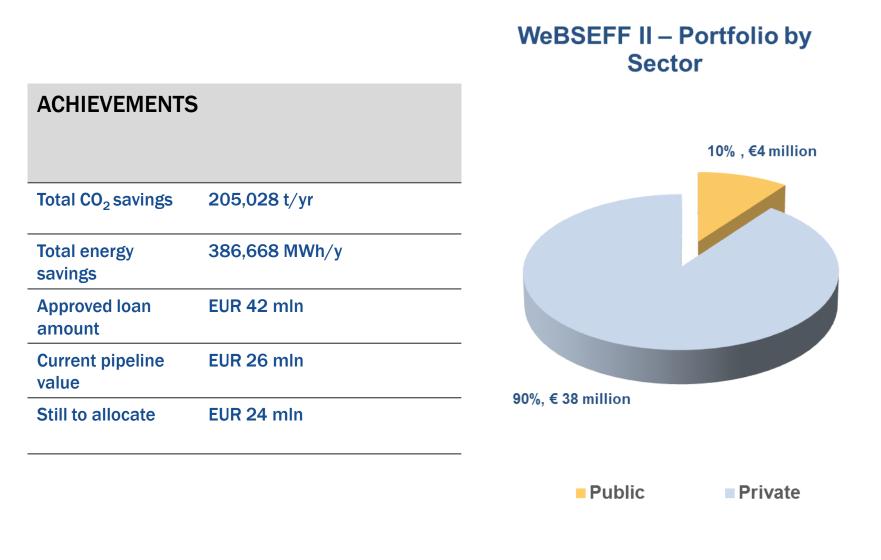
REEP Overview

REEP is an integrated package of finance, technical assistance and policy dialogue, implemented jointly with the Energy Community Secretariat



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Window 2: WEBSEFF II – Results





Window 3: WeBSEDFF II - Progress update

Financial structure

- Direct finance €50m
- Incentives €5.75m
- €1.3m Technical cooperation



Western Balkans Sustainable Energy

Progress

- 4 projects financed to date for a total of €17.9m (SHPP, biomass and biogas)
- 2 more projects approved for a total of €10.2m (SHPP) •
- 3 projects in the pipeline, with indicative loan amount of $\in 6.0m$ (biogas, solar PV) ٠
- CO₂ emissions saved: 308,606 tonnes/year
 - + 22,821 (for the approved projects)





Window 1: Policy Dialogue The role of Energy Community Secretariat

The Energy Community Secretariat

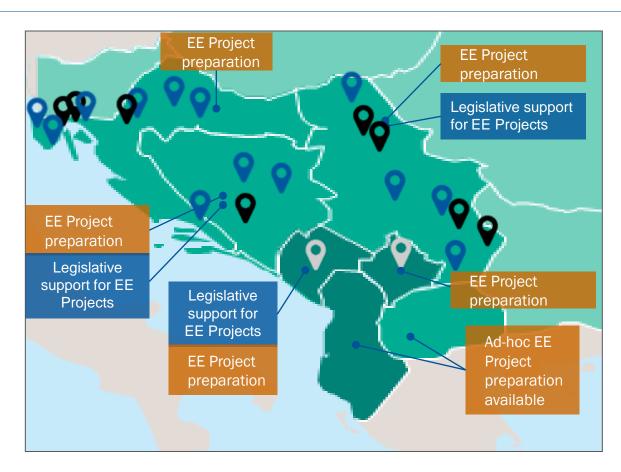
- **Facilitates** the implementation by bridging between beneficiaries, EBRD, the Consultant and the European Commission.
- Works with the beneficiaries to implement the legal and regulatory framework and sector reforms (price, market liberalisation, etc.) that support energy efficiency investments.
- **Convenes** three times a year an Energy Efficiency Coordination Group to discuss progress in REEP and share lessons and models of implementation.
- Monitors the beneficiaries progress and takes action through the dispute settlement procedure against the beneficiaries that are lagging behind the implementation of the energy efficiency acquis, thus providing support to REEP.







Window 1: ESCO Policy dialogue and TC



TC project preparation for ESCO projects:

•2 street lighting projects implemented in Q1/2016

- 1 street lighting project contract to be signed Q1/2016
- 5 could be tendered in Q1/2016
- 5 more tenders are prepared
- 9 more tenders under preparation, including street lighting PPP Belgrade

• 12 additional municipalities indicated interest in projects



Window 2: WeBSEFF II case study A biomass boiler investment pays off in 2 years

CLIENT

A jam producer that uses LFO and electricity for heating and jam production was looking for ways to reduce its energy costs.

PROJECT

- Investing in a biomass boiler that can run on a plum residues and wood pellets
- Insulating walls, ceilings and the cooling chamber
- · Replacing doors and windows

FINANCIAL STRUCTURE

Total Investment	€247,200
EBRD loan	€149,600



EXPECTED IMPACT

- Production cost savings: €140,300/year
- Payback period: 1.7 years
- Emission reductions: 700 tCO₂/year
- Waste reductions: Instead of being wasted, plum stones are utilised as a source of energy.
- Other benefits: thermal comfort in the workplace





Sokolac Energy Supply Contracting project

Baseline

- Biomass district heating system since 1980
- Owner Municipality Sokolac; managed by public enterprise Toplane Sokolac
- Capacity 14,2 MW (in use 6 MW)
- Biomass consumption 25,000 spatial meters





Project:

- Peak and back up in existing boilers
- Expansion of DH network (potentially 60,000 sqm new customers)

Event on 26 February:

- Project scope and commercial concept presented to Stakeholders
- Next step is finalising tender documentation and publishing (municipal decisions have been taken)



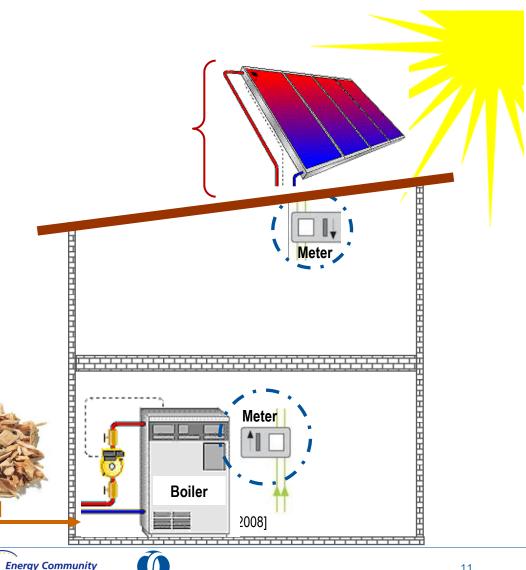




Basics of Energy Supply Contracting (ESC)

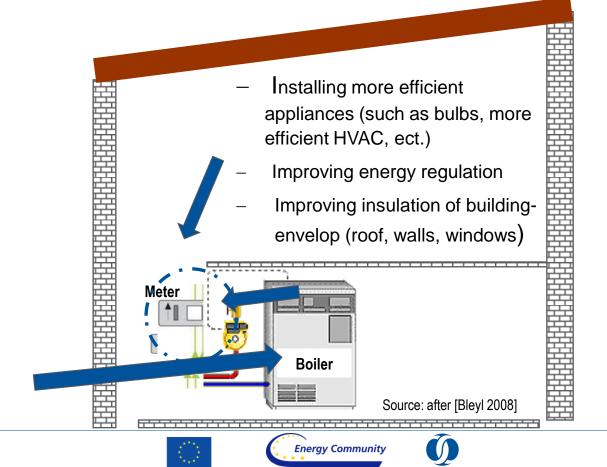
- Supply of useful energy (heat, steam, electricity ...), preferably from renewables
- M&V: MWh delivered (pay for output, not fuel)
- Good business model for Renewables, CHP or heat recovery ...
- But: Limited to supply side efficiency

Source: after [Bleyl 2009]

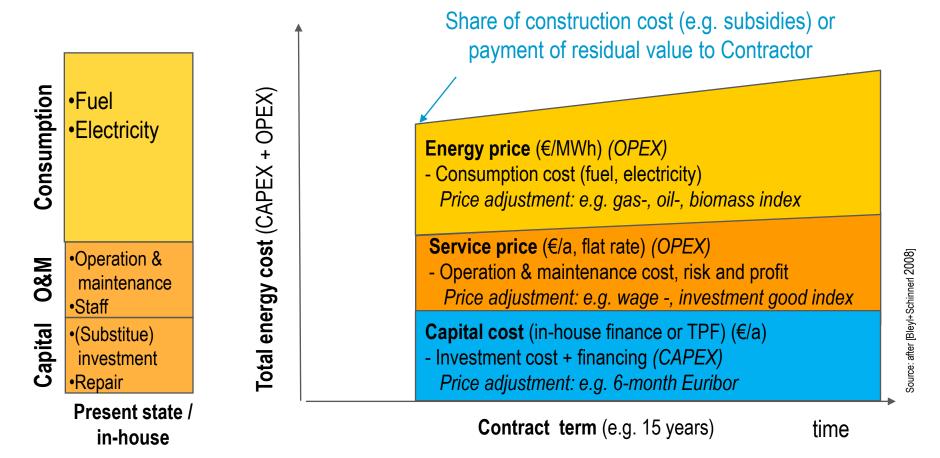


Basics of Energy Performance Contracting (EnPC)

PERFORMING ENERGY SAVINGS - AT SAME LEVEL OF COMFORT BY MEASURES SUCH AS:



ESC – Business model (compared to present state)





Next steps

Scaling up street lighting (EnPC)

- **Croatia:** projects with capex >EUR 12m in pipeline, continue preparation
- Serbia: publishing of first tenders. Prepare tender for Belgrade.
- **Other countries :** on ad-hoc basis support preparation of projects. •

Building EnPC and Energy Supply Contracting (ESC)

Support preparation of ESC and EnPC building projects

Legislative support

Support on ad-hoc basis: e.g. Serbia on ESC contract.









		VISItS by team- members	rough feasibili ty calcul. by team	sibil ity cal	Lol signed by Client	signed	submitte	PPP Propos al	PPP Comm. Agreeme nt		Tender Papers submitt ed by team	Tender
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Window 1: EE policy dialogue Technical assistance assignments

EPBD implementation support

Procurement of EE goods

Utility scheme (EEO) and tariff design

NEEAP development support

TA assignments completed

TA assignments ongoing







Policy Dialogue support Next steps

NEEAP	 Finalisation of draft NEAAP (Mar-Apr 2016) Approval of draft NEEAP (Apr 2016)
Inspection alternatives	• Finalisation of draft 'equivalence report' (March 2016)
Utility schemes and tariffs	 Approval of draft EEO scheme regulation by Minister in Croatia (ASAP) Stakeholder workshop (Mar-Apr 2016) Amendments to Law on End Use Energy Efficiency in Montenegro (2016) Finalisation of draft regulation for EEO in Montenegro (Mar 2016) Approval of draft regulation for EEO in Montenegro (2016)
Procurement of EE goods	 No outstanding work Beneficiaries have now adopted regulations: Serbia 19 Dec 2015 Montenegro 11 Feb 2016
EPBD support	 Deliver calculation software training to Kosovo (already delivered to BiH-Fed and FYR Macedonia) and EPC registry training in BiH-Fed (Q1 2016) Beneficiaries to adopt and implement legislative and regulatory instruments (ASAP) – nothing adopted to date!

Energy Community









Thank you







