REEP & REEP Plus update

Regional Energy Efficiency Programme for the Western Balkans

Funded by the European Union

In cooperation with the Energy Community Secretariat



Nigel Jollands, Ana Bachurova, Veronika Spacapan Energy Efficiency & Climate Change

Energy Efficiency Coordination Group Energy Community Secretariat Vienna 14 November 2018





https://www.ebrd.com/news/video/preparing-zenica-hospital-for-the-future.html







Topics for discussion

- Overview of Regional Energy Efficiency Programme (REEP) and its extension (REEP Plus) in the Western Balkans
- Progress Update on Programme Windows
 - Policy Dialogue & ESCO Support
 - Intermediated Financing
 - Direct Financing
 - Direct Lending to Municipalities
- Donor Visibility







Programme Structure



REEP Structure (2013 – 2016)

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

Objective

Support EU accession in the Western Balkans Sustainable market for energy efficiency in the Western Balkans

Window 2

Intermediated financing

&

Window 3

Direct financing

WeBSEFF II

€117m financing + €14.5m grants

- Credit line for local FI
- For smaller scale EE & RE projects
- For both public & private sector borrowers, including ESCOs
- Grant funds support TA and investment incentives.



WeBSEDFF (ext.)

€50m financing + €6.49m grants

- Direct financing facility
- Medium scale RE and EE improvements implemented by private sector borrowers, incl. via ESCOs.



Window 1

ESCO support &

Policy dialogue

Energy Service Companies (ESCO) €5m grants

- Legislative support
- Technical project preparation

Policy dialogue €1.1m (EWBJF) + €1m (EBRD & SIDA)

- NEEAP and EPBD
- Utility EEO
- Procurement of EE goods







REEP PLUS Structure (2017 – 2019)

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

Objective

Support EU accession in the Western Balkans
Sustainable market for energy efficiency in the Western Balkans

Window 4

Direct Lending to Public Sector

€20m direct EBRD financing €4.5m grants (€2m EU IPA + Other Donors)

- Direct loans to the State, cities or municipal companies
- Focus on public buildings EE
- Capital expenditure grant co-financing and TA

Window 2

Intermediated financing &

Window 3

Direct financing

€135m EBRD & KfW financing via FI €28.05m grants (€22.45 EU IPA + Other Donors)

- SME and public sector lending (KfW)
- Residential sector lending across all 6 WB countries (EBRD).

€30m direct EBRD financing €1m grants (€500k EU IPA + Other Donors)

- Direct lending for Medium scale RE, EE
- Target financing of ESCOs
- TA for project preparation



Window 1

ESCO support &
Policy dialogue

ESCO development €3m grants (€1m EU IPA + Other Donors)

• TA for ESCO projects and tenders preparation

Policy dialogue €3.25m grants (€2.5 EU IPA + Other Donors)

Key focus on residential sector regulations







Window 1
(a)ESCO Support; (b)Policy Dialogue



REEP Window 1 Overview

At a glance: 35 deliverables, including ESCO contract templates for 5 countries, and 28 policy outputs;

28 accepted/ adopted, or likely to be adopted by Jan'2019

Croatia

- 1. ESCO contract template
- 2. ESCO enabling legislation
- 3. EPBD: Inspections
- 4. EPBD: Calc. Software
- 5. EPBD: EPC registry specs
- 6. EED: Article 7 (EEO scheme)

Bosnia and Herzegovina

- 7. Fed/ ESCO contract template
- 8. Fed/ EPBD: Calc. Software
- 9. Fed/ EPBD: EPC reg. specs
- 10. Fed/ EPBD: NCM
- 11. RS/ ESCO contract template
- 12. RS/ EPBD: Inspections

Montenegro

- 13. ESCO contract template
- 14. EED 6: Procurement
- 15. EED 15: EE in transmission
- 16. EED 7: EEO secondary leg.



Albania

- 17. EPBD: Primary Law
- 18. EED: NEEAP

Serbia

- 19. ESCO contract template
- 20. ESCO enabling legislation
- 21. EPBD: Inspections
- 22. EED 6: Procurement
- 23. EED 7: Policy notification
- 24. EPBD: Alternatives to heating inspection

Kosovo

- 25. EPBD: Primary Law
- 26. EPBD: NCM
- 27. EPBD: EPC
- 28. EPBD: MEPS
- 29. EPBD: Inspections
- 30. EPBD: Calc. software

FYR Macedonia

- 31. EPBD: MEPS
- 32. EPBD: NCM
- 33. EPBD: EPC
- 34. EPBD: Inspections
- 35. EPBD: Calc. software

€5 million for Window 1a (EU WBIF), €2 million for Window 1b (EU WBIF, SIDA, EBRD SSF)

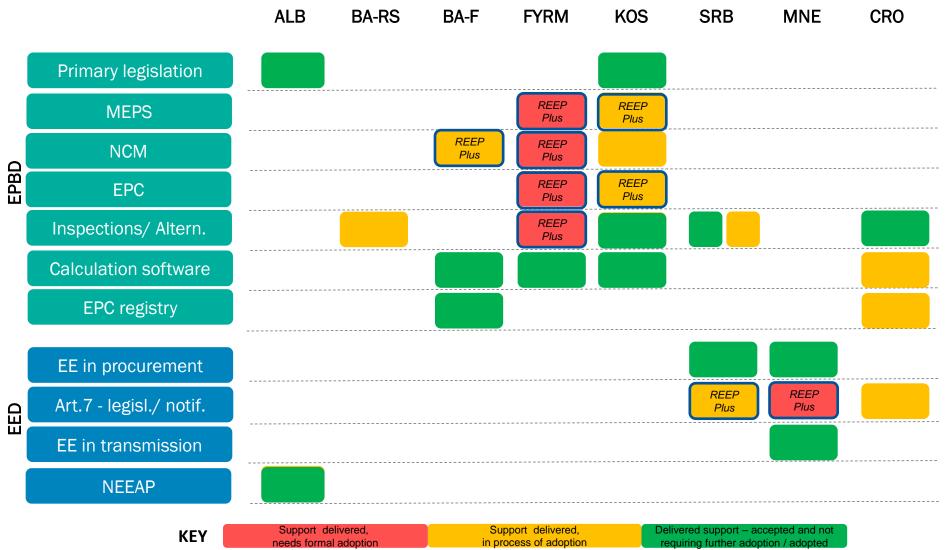






Policy Deliverables under REEP (2013-2016) Themes and Adoption Status









REEP Plus policy assignments build on previous activities and target new policy areas



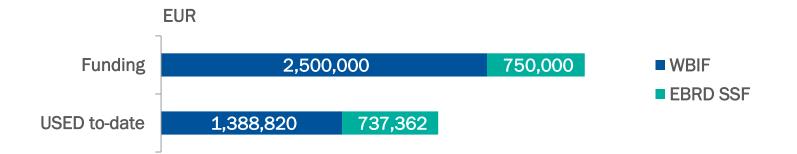
	ALB	BA-RS	BA-F	FYRM	KOS	SRB	MNE	Regional
EE primary legisl. (EED, EPBD)								
EPBD regulations & software			Ext.		Ext.	Ext.		
Building renovation strategies								
nZEB plans								
NEEAP / NECP								,
EE in procurement								
EED Art.7 - legisl./ notification						Ext.		
EE in heating and cooling								
EE in transmission								
Training energy auditors								
Eco-design & Labelling							Ext.	
	Completed/ Ongoing, completion by end-2018							
	Ongoing, expected completion by mid-2019 Scope of support under consideration							

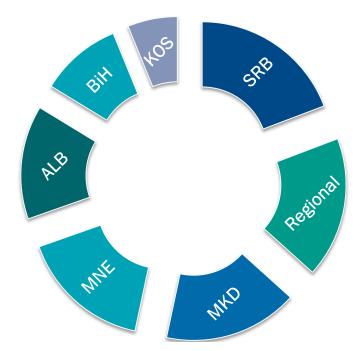




Policy Assignments: Budget allocation

(as of end-OCT'2018)











ESCO Market Development REEP / REEP Plus

OBJECTIVE

- Increase public sector low-carbon investments by using private sector expertise and finance in ESCO projects
- Promote an enabling legislative environment for ESCO business models
- Provide technical support for project/tender preparation.

ACTIVITIES AND RESULTS

- · Legislative support, including
 - Primary and secondary legislation
 - ✓ Procurement, laws, taxation, budgeting
- Model ESCO contract templates
- Legal gap analyses
- Standardising public procurement and contracting documents and processes
- Project preparation support

OUTCOMES

- Total potential capex of >€98m in public sector low- carbon investments
- Preparation of 43 street lighting projects, 4 building and 4 district heating projects



Project preparation

Tendered, contracted or implemented

Feasibility studies done

Tenders under preparation

ESCO policy work

Legal analysis and ESC, EnPC contract templates prepared for all Western Balkan countries.







ESCO support continues under REEP Plus

BACKGROUND

• **EUR 1 million** of technical assistance to support preparation of ESCO projects (additional to EUR 350k remaining funds)

UPCOMING ACTIVITIES

- Deepening the ESCO market development
 - Reducing transaction costs during project preparation by supporting authorities to make approval processes efficient and clarify secondary legislation
- Broadening the ESCO market development
 - Mainstreaming/piloting newer project types (buildings, district heating and water)
 - Mainstreaming additional commercial concepts of energy supply contracting







Window 2 Intermediated Finance



WeBSEFF II - Results Update

TOTAL ACHIEVEMENTS				
Countries	Bosnia & Herzegovina, Croatia, FYR Macedonia, Serbia			
Private Financial Institutions (PFI)s	9 (2 BiH, 3 Croatia, 2 Serbia, 2 FYR Macedonia)			
Total financing available to PFIs	EUR 117 mln			
Total signed sub-loan amount to date	EUR 79.8 mln (additional EUR 0.3mln)			
Total no. of sub-projects to date	306 (additional 2 projects)			
Current pipeline value	EUR 5.16 mln / 9 Sub-projects			
Total CO ₂ savings	117,339 t/year			
Total equivalent primary energy savings (MWh/y):	500,912 MWh/year			
- (which includes Renewable energy capacity added (MW):	54 (MW)			







WeBSEFF II – Current status

- 90% of the funds under the existing facility (EUR 92 million) were utilised, remaining amount unutilised mostly by one PFI in Croatia (~EUR 9 million); funds close to full utilisation in BiH, FYR Macedonia and Serbia
- EUR 25 million extended, of which EUR 15 million was signed in October 2018 with a repeating PFI in Serbia
- Almost EUR 1m TC funds remaining for disbursement of sub-loans (relating to generic tasks such as marketing, pipeline origination, preliminary eligibility, verification etc.)
- Current pipeline, primarily under the above mentioned credit line, stands at EUR 5.16 million for 9 Sub-projects, of which 3 new projects for EUR 0.3m in the public sector (public lighting, waste collection modernisation)







WeBSEFF II Case Study

Agri-pellet combustion chambers in Backi Petrovac, Serbia

CLIENT

Petrovec d.o.o.is a private company established in 2000 dealing with cultivation of crops (cereals, vegetable and fruits). The company also owns a plant for production of agri-pellets from wheat straw and other agricultural waste.

PROJECT

- Two WeBSEFF II sub-loans
- Purchase and installation of agri-pellet furnace and two crop drying chambers
- Decreased energy cost, utilization of its own agricultural waste as biomass, improved product quality.

FINANCIAL STRUCTURE

Total project cost/loan Incentive amount

€443,691/ € 360,000 €36,000 (10%)



EXPECTED IMPACT

• Annual savings: €255,600

Payback period: 1.7 years

• CO2 avoided emissions (t CO2/a): 2,760

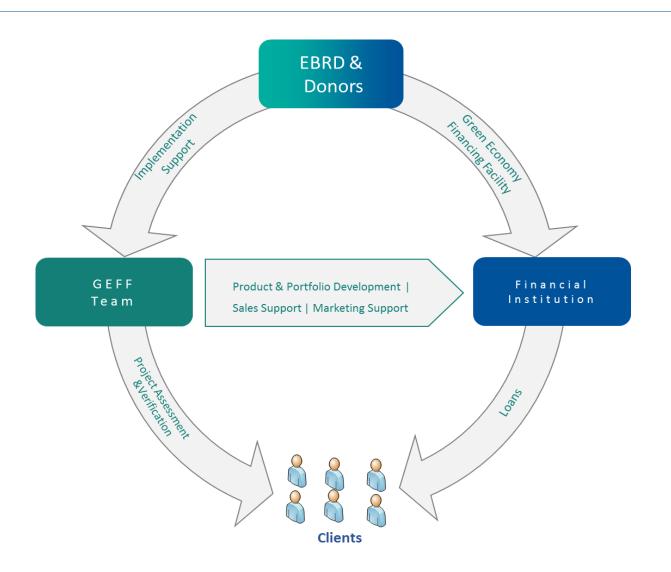
Primary energy savings (MWh/a): 14,280







GEFF Residential – Model & Structure



- financing for residential EE investments across the WB6
- GEFF implementation supported by EU grants:
- ✓ Investment Incentives (EUR 17.5mln)
- ✓ Technical Assistance (EUR 5.1mln)







Funding: Progress to November 2018

Country	Credit lines signed (#)			ned m)	Expected Signing in 2019 (€m)	Total (€m)
	At June 2018	3 At Nov 2018	At June 2018	At Nov 2018		
Albania	0	2	0.0	9.0	3.0	12.0
Bosnia & Herzegovina	4	4	22.0	22.0	0.0	22.0
FYR Macedonia	2	2	4.0	4.0	6.0	10.0
Kosovo	3	3	8.5	8.5	5.0	13.5
Montenegro					2.0	2.0
Serbia	0	2	0.0	10.0	15.5	25.5
Total	9	13	34.5	53.5	31.5	85

- Total signing amount has reached **EUR 53.5 million** with **13 PFIs** by November 2018
- EBRD aims to sign all EUR 85 million with 16-18 PFIs by YE2019







Impact: Progress to November 2018

	Key figures
Countries	5 countries: Bosnia & Herzegovina, FYR Macedonia, Serbia, Kosovo, Albania
Total Financing provided to PFIs	EUR 53.5 million
Total signed sub-loan amount	EUR 4.01 million
Total no. of sub-projects	791
Average sub-loan amount	EUR 5,075
Total GHG emissions avoided	1,411 t/year
Total equivalent primary energy savings (MWh/y):	4,091 MWh/year





Implementation Deliverables (Technical Assistance)

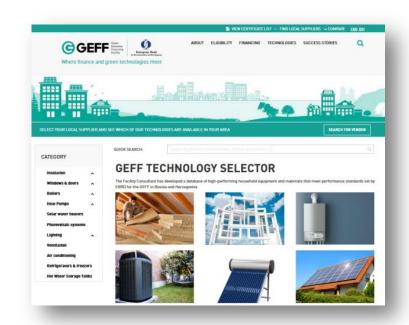
GEFF Technology Selector (online platform of GEFF eligible technologies) launched in 5 countries and available **on local GEFF websites**, supporting the PFI lending process:

Total number of products available: ~7,000

Total number of suppliers: 3,525

Regional hubs: Two regional hub offices established, Belgrade and Tirana





Capacity building to PFIs: trained 1,100 loan officers

in 11 PFIs









Awareness raising & Donor visibility

Participation in fairs: Sfera fair (Mostar) and Energa fair (Sarajevo); Renexpo (Belgrade); Green festival (Pristina); Build & Construction Fair (Skopje); Energy Expo & Forum Fair (Tirana)



GEFF launch events

Sarajevo (November 2017) Pristina (March 2018) Skopje (April 2018) Belgrade (September 2018)



GEFF marketing campaigns following the launch events, including billboards, digital campaigns, TV and radio

appearances









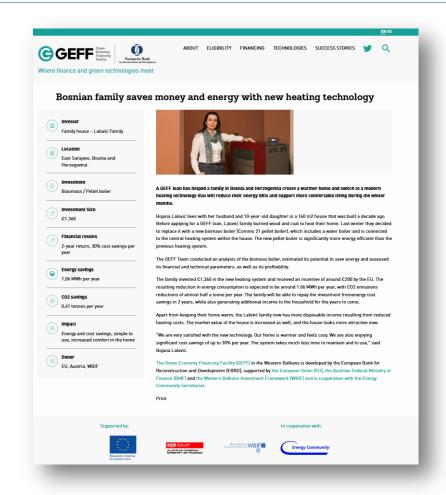


Awareness raising & Donor visibility (cont'd)

Vendor workshops and seminars:

Vendor event in cooperation with "Velux" (Sarajevo); Vendor seminar (Prishtina); Kosovo Sustainable Development Week (Pristina); Series of Educational Events on EE in cooperation with Sparkasse bank for vendors and sub-borrowers (various locations in Macedonia)





Case studies: first three success stories published on GEFF BiH website https://youtu.be/e9XiRZ2YaaY







Window 2: Intermediated Financing KfW

Loan Agreements signed until December 2017

REEP plu SME secto	
Countries	Bosnia & Herzegovina and Serbia
Number of PFIs	2 PFIs (1 BiH and 1 Serbia)
Total Financing provided to PFIs	EUR 16 mln
Total signed sub-loan amount to date	114.913 EUR
Total no. of sub-projects to date	36
Total GHG emissions savings	892 t / year
Total equivalent primary energy savings (MWh/y): - (which includes Renewable energy capacity added (MW):	280 MWh / year







Window 2: Intermediated Financing KfW

Loan Agreements to be signed in December 2018

REEP plus SME sector	
Country	Serbia
Number of PFIs	2 PFIs
Total Financing available to PFIs	EUR 34 mln
Total signed sub-loan amount to date	none
Total no. of sub-projects to date	none
Total CO ₂ savings	Too early to report
Total equivalent primary energy savings (MWh/y): - (which includes Renewable energy capacity added (MW):	Too early to report







Window 3 Direct Financing



WeBSEDFF II (REEP)



FINANCIAL STRUCTURE

Direct finance €50m
Incentives €4.24m
Technical cooperation €2.25m

PROGRESS

- 6 projects financed to date (3 SHPP, 1 biomass, 2 biogas), for a total of €25.9m
 - → 1 new project since the previous SC meeting
- 1 more project approved for up to €6.0m (SHPP)
- All projects are operational, delivering renewable energy broadly in line with original estimates

RESULTS

- 21.2MW installed, equivalent to the annual electricity needed by the street lighting systems of cities the size of Sarajevo, Tuzla and Mostar combined
- CO2 emissions saved: 325,974 tonnes/year

ISSUES

Continuing challenges with identifying suitable ESCO projects for financing







Direct Financing (REEP Plus)

BACKGROUND

- EUR 20-30 million EBRD financing for up to 12 projects, without grant co-financing
- To be utilized for direct loans to developers of renewable energy projects, as well as ESCOs and possibly industrial energy efficiency projects
- The REEP Plus funding will be used for covering due diligence and other finance preparation costs (on a cost sharing basis)

PROGRESS TO OCTOBER 2018

 First project identified – a wind farm in Kosovo of 32 MW (financing parameters to be determined), REEP Plus funding will be used to support the technical due diligence

UPCOMING ACTIVITIES

 Identification of other potential projects for financing and development of a pipeline will take place over the next 12-24 months







Window 4 Direct Lending to Public Sector



Direct Lending to Public Sector

BACKGROUND

- EUR 20 million EBRD financing for up to 4 projects, with EUR 2 million grant co-financing available (ca. 10% grant)
- To be utilized for direct loans to states, cities or municipal companies to improve EE in public buildings (i.e. schools, hospitals, government buildings)

PROGRESS TO OCTOBER 2018

- First transaction signed June 2018: A sovereign EBRD loan of EUR 10 million for EE retrofit of the Zenica Cantonal Hospital.
- The loan is accompanied with a EUR 1 million investment grant (WBIF) and EUR 200k for project preparation and procurement support.
- Zenica is among the most polluted cities in Bosnia, and the hospital second largest polluter.
- The project will result in reduction of energy consumption by 60% and heating demand by 44%.









Direct Lending to Public Sector

CURRENT EBRD-PIPELINE / PREPARATORY ACTIVITIES

• On-going pipeline development under Window 4 (REEP Plus); in 2019 we are expecting to sign a new loan under window 4 which will utilise the full remaining amount;

REEP EVOLUTION

- The EBRD is having active discussions in Kosovo and Bosnia to prepare public buildings EE investments;
- Targeted public buildings are in the municipal, educational, administrative, health sectors;
- Scoping studies will be launched to support the structuring and prioritisation EE investments;
- Demand exceeds the supply thus additional sources of funding (outside REEP) are being investigated by the EBRD for WB6.







Direct Lending to Public Sector

Current KfW-Pipeline / preparatory activities

- In active discussions with all 6 Western Balkan Contracting Parties.
- Mixture of scaling up existing programs and new programs
- Targeted public buildings in the educational, administrative, health and social sector
- Demand exceeds the supply (reduction from originally 25m to 15m EUR)
- Most advanced/ prepared programs in Albania, Serbia and Montenegro
- Standardized Energy Audits partly existing
- For cross-country comparisons, unified calculation methodology and approach applied (room for coordination of promoted approaches across the Balkans)
- Cooperation with Fraunhofer Institute for Building Physics
- Showcases planed to promote "exemplary role of the public sector" (e.g. energy plus, passive house, building automation systems, deployment of RE etc.)







Donor Visibility



EU Visibility and Communications

- Launch events/press: four countries + announcements (press/social media etc)
- Various videos: tell human story and impact
 - Zenica video: 122,000 views
- New colleague: for EU-funded activities (REEP, infrastructure, etc.) in WB
- Continuous promotion: features, photo/AV material, social media, events, etc.



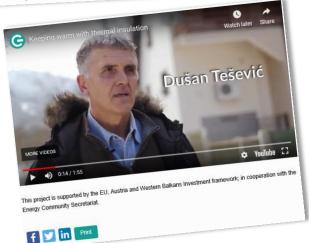


We're supporting investments in #EnergyEfficient technologies in #Kosovo. With @EU_near, #Austria and #WBIF bit.ly/2mB2Cpq















Thank you











