Working with EBRD on Renewable Energy: Experience and Opportunities

Sergiy Maslichenko, EBRD

4th International Renewable Energy & Energy Efficiency Forum Kiev, Hyatt Hotel – 16-17 October 2012



EBRD – a largest financial investor in Ukraine

- International financial institution with highest investment rating (AAA)
- Focus on private sector 75% of portfolio
- In Ukraine over €8 billion (320 projects) committed, including € 1 billion in 2011
- "Sustainable Energy Initiative Phase 3" €4-6 billion investment target in 2012-2014
- Strategy for Ukraine 2011-2014 energy efficiency and renewable energy are key priorities of the EBRD
- Focus on renewable energy in Ukraine since 2007



EBRD involvement in renewables

- Technical Assistance (TA) to the Government and the NERC:
 - Market and regulatory framework assessment, recommendations for the feed-in tariff primary legislation
 - Programme to assist the NERC with development of secondary legislation and workable framework for support of renewable energy development in Ukraine
- USELF Ukraine Sustainable Energy Lending Facility:
 - Global Environmental Facility grant of \$8.5m for TA component
 - Project preparation grant to establish projects pipeline
 - Clean Technology Fund concessional co-financing (€20m)
 - EBRD internal approval of €50m loan facility



USELF Project Support Unit

- USELF was launched in October 2010 www.uself.com.ua
- Project Support Unit (Fichtner/Imepower) is fully operational with a project office in Kiev providing financial, commercial, legal, technical, and environmental advice to project developers
- Marketing strategy and Training needs assessment prepared
- 5 training workshops for project developers, local engineers and consultants (in total 200 participants)
- Developer's Manual for RE projects preparation is under way





Regulatory assistance

- Assistance to the NERC on:
 - Monitoring and reporting
 - Forecasting and Impact Assessment
 - Assessment and Possible Adaptation of Green Tariff Concept
 - Compensation mechanism for connection costs
 - Renewable Energy Operations in the New Electricity Market
 - Accreditation and Certification
- Capacity building activities study tours, trainings, delivering adhoc advice and methodological materials for key stakeholders



Strategic Environmental Review

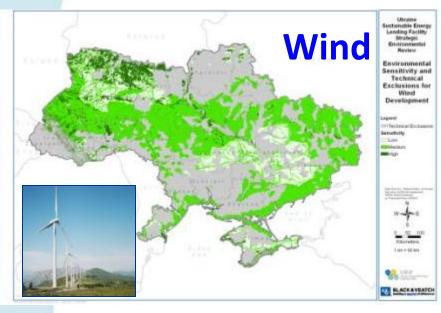
- Strategic Environmental Review focuses on wind, small hydro and solar technologies in selected areas of Ukraine
- SER report disclosed and available for public and expert community: <u>www.uself-ser.com</u>
- Public meetings and capacity building for local experts, authorities and developers: workshops in 3 regions of Ukraine
- SER will result in facilitating national EIA (OVOS) procedure for RE projects; preventing or mitigating potential negative environmental and social impacts of the RE projects; and tools for individual projects screening and due diligence
- Identification of potential environmental, social, economic, and technical constrains for RES projects in Ukraine (next slide)

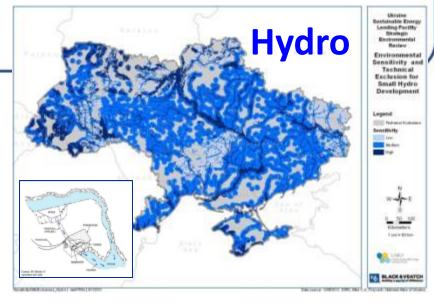


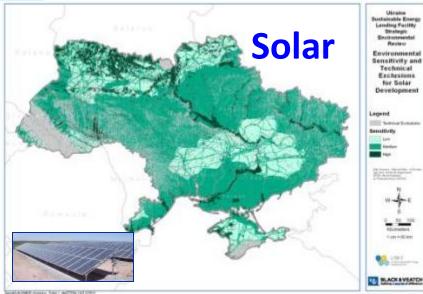


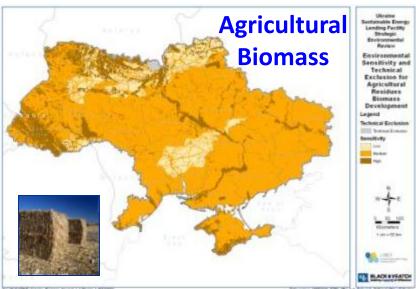
Ukraine Sustainable Energy Lending Facility Strategic Environmental Review Стратегічний екологічний аналіз Програми

стратегічний екологічний аналіз програми фінансування альтернативної енергетики в Україні









www.ebrd.com

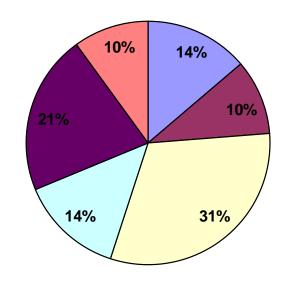
What is USELF?

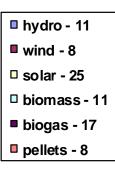
- Direct lending facility operated by the EBRD with help of consultants
- For small and medium-sized renewable energy projects wind, solar, small hydro, biogas, biomass (<10MW)
- EBRD can provide up to 40% of total project costs or max €10 million; CTF provides up to 20%; and balance to be provided by developer's equity (minimum 40%)
- Tenor up to 12 years, hard currency (€), margin based on project assessment and market conditions
- Expected number of projects 8-12



USELF sub-projects

- USELF received total 80 applications/enquiries
- Out of them only 25-30 projects are feasible and most of them require substantial additional preparation work







Projects approved and under preparation

- 2 projects are fully approved with signed loan agreements:
 - Eco-Optima Wind Farm (12.5MW) €9.5m from EBRD and €3.8m from CTF
 - Porogi Solar Project (4.5MW) €4.1m from EBRD and €1.6m from CTF
- 3 more projects under preparation in the EBRD:
 - Ecoprod biogas (2.8MW) waiting for biogas tariff
 - One small hydropower project
 - One solar power project
- 4 more good candidates at the screening stage:
 - 3 solar projects
 - 1 biomass project



USELF: lessons learned

- Most projects have Ukrainian sponsors only a few are foreign investors
- Most developers have insufficient equity (<40%), financially weak and reluctant to look for an equity partner
- Many developers have limited resources for project preparation up to the required standards (wind measurement, feasibility studies, biomass availability assessment etc)
- Lack of experience working with the foreign banks and IFIs requires more time for project preparation
- Many good biogas and landfill gas projects are on hold waiting for the Green Tariff Law amendment (vetoed by President)
- Difficult process of land titles registration delays all other permits and project preparation
- Many regulatory issues such as local share content requirement, connection to the network, compensation for connection costs still remain key barriers



Thank you!

Sergiy Maslichenko

Senior Manager, PhD

Energy Efficiency and Climate Change Team

Email: MaslichS@ebrd.com

EBRD

16, Nemyrovycha-Danchenko Street,

Kyiv, Ukraine 01133

Tel: +380 (44) 277 1100

Fax: +380 (44) 277 1160

