



Fourth International Forum : Energy for Sustainable Development

UNDP WORKSHOP

Energy
Challenges
and
Opportunities
in Transition
Countries



John O'Brien

Regional Technical Advisor, Climate Change Mitigation
Europe & CIS, Bratislava Regional Centre, Slovakia
(email: john.obrien@undp.org)

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UNDP Workshop Session Overview

OVERVIEW OF AFTERNOON SESSION

14.00pm – 16.00pm

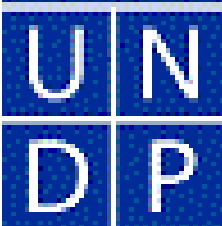
- Overview of UNDP GEF Climate Change Portfolio
- Case Studies of Individual Projects

16.00pm – 16.30pm

- Coffee Break

16.30pm – 17.30pm

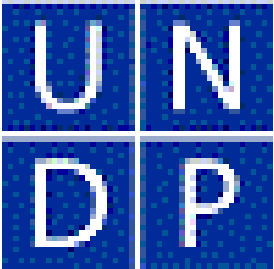
- Sustainable Energy 4 All Initiative
- Modernizing Energy Building Codes
- De-risking Renewable Energy Investment



UNDP Workshop Session Overview

OVERVIEW OF THIS PRESENTATION

1. UNDP and the Global Environment Facility
2. Overview of UNDP GEF Portfolio in ECIS Region
3. Key Issues Addressed by UNDP GEF Projects
4. Key Lessons Learned
5. Questions



UNDP is a key partner of the Global Environment Facility ...

UNDP is an original implementing agency of the GEF. Since 1993, over the past 20 years, UNDP has developed a Portfolio of over \$1 billion USD of GEF climate change projects Around the world. These projects are all aimed at removing Barriers and promoting greater investment in three thematic areas

- Energy-Efficiency
- Renewable Energy
- Sustainable Transport

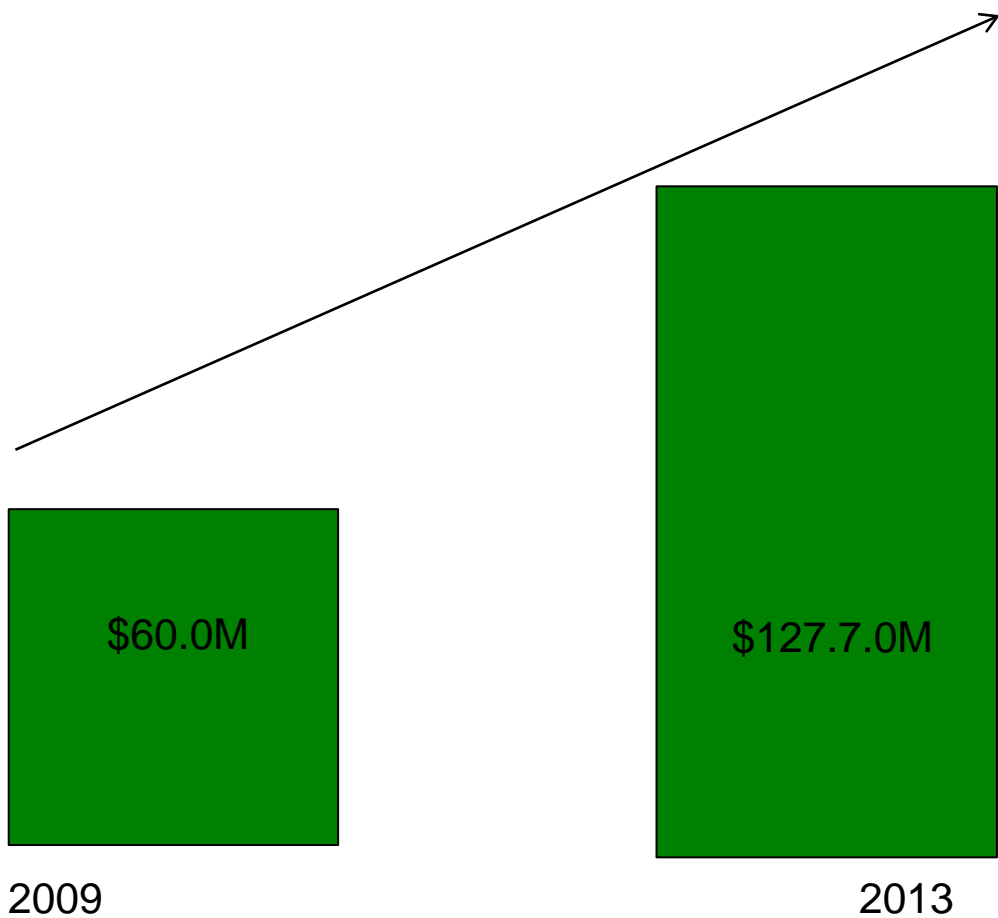
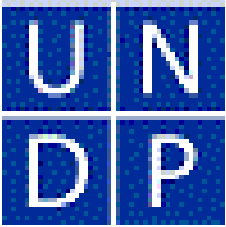


GEF : Key Concepts

- Incremental Costs
- Baseline Costs
- Global Environmental Benefits (tonnes of co2e reduced)



The total UNDP GEF climate change portfolio in Europe & CIS region has grown from \$60 million in 2009 to over \$127 million in 2013 ...



TOTAL PORTFOLIO

Energy Efficiency: \$94.6
 Renewable Energy: \$20.4
 Sustainable Transport: \$12.7
 Total: \$127.7 million

Reasons for focus on EE & On Buildings in Particular

1. High Levels of Energy-Intensity
2. Many Low Cost Solutions
3. Energy Poverty

UNDP Support for Energy & Environment Projects in the Europe & CIS Region

Energy-Efficiency – 24 Projects

Renewable Energy – 8 Projects

Sustainable Transport – 6 Projects

UNDP Support for Energy & Environment Projects in the Europe & CIS Region

Energy-Efficiency

- Residential Buildings
 - Public Buildings
- Energy-Efficient Lighting
- Energy Efficiency Standards & Labels
- Energy Service Companies (ESCOs)
- + new projects related to energy-efficiency in tourism & oil & gas sectors

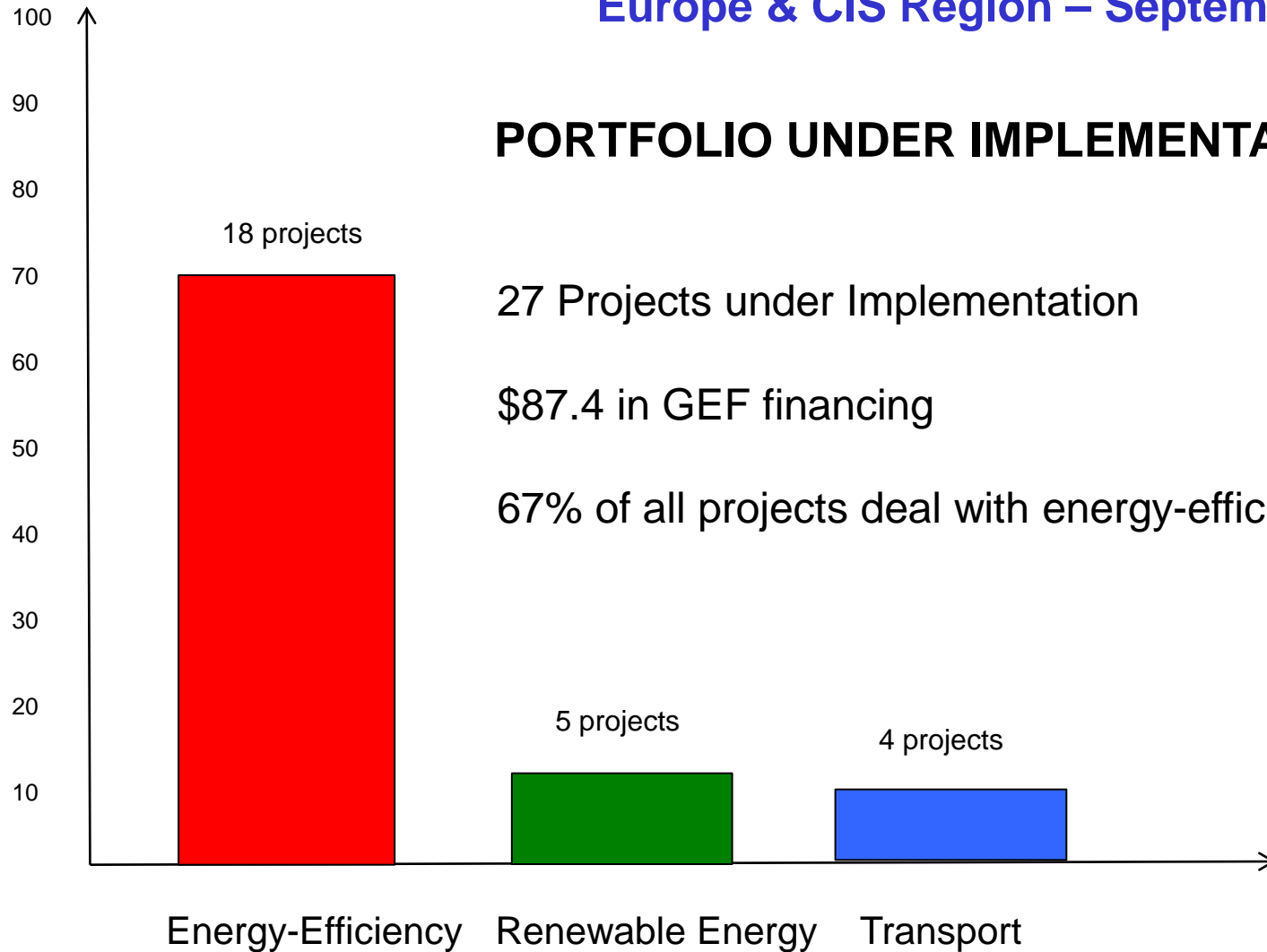
Renewable Energy

- Small Hydro
- Wind Energy
- Biomass Energy



UNDP GEF Climate Change Portfolio Overview Europe & CIS Region – September 2013

PORTFOLIO UNDER IMPLEMENTATION



27 Projects under Implementation

\$87.4 in GEF financing

67% of all projects deal with energy-efficiency



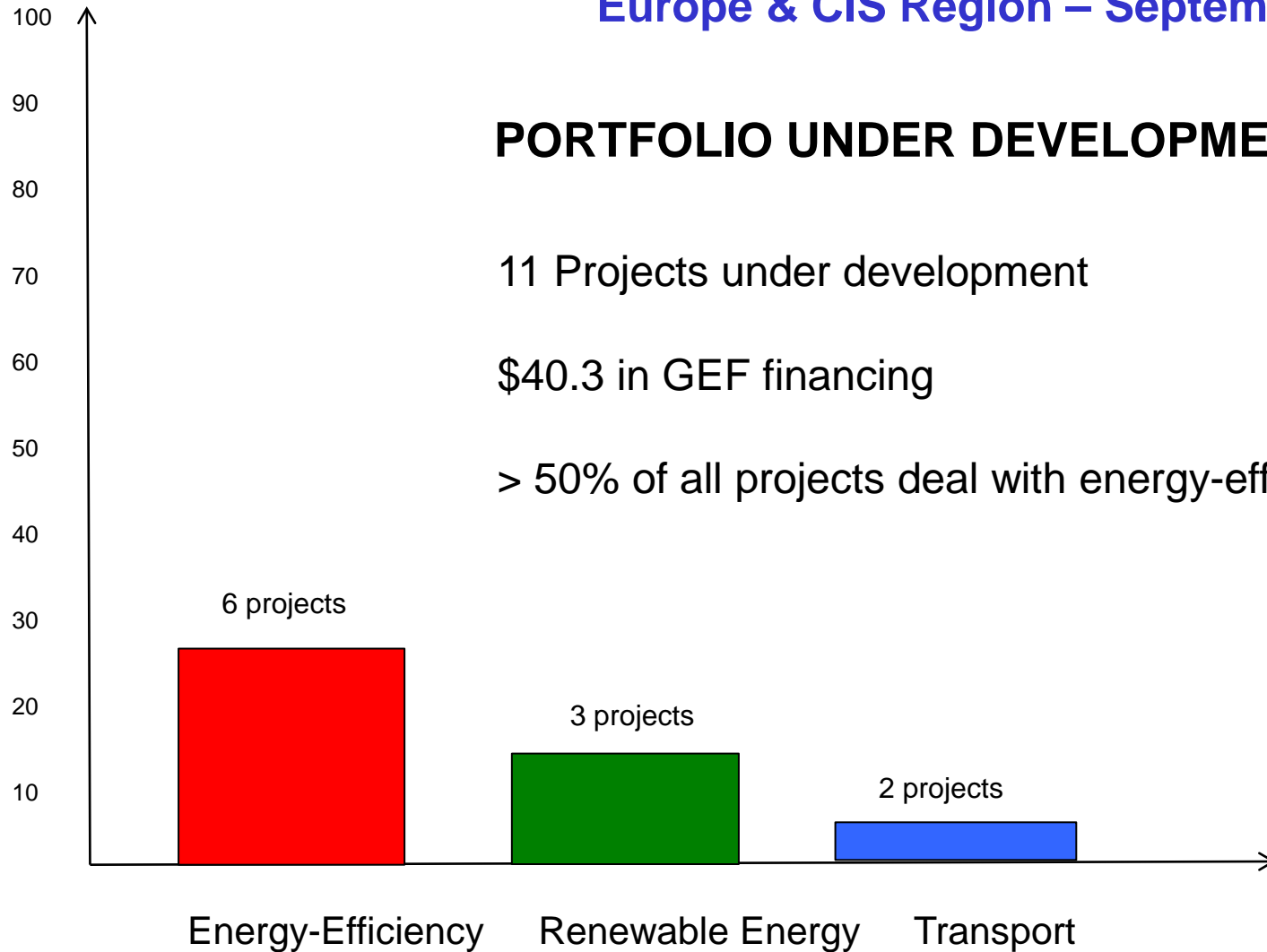
UNDP GEF Climate Change Portfolio Overview Europe & CIS Region – September 2013

PORTFOLIO UNDER DEVELOPMENT

11 Projects under development

\$40.3 in GEF financing

> 50% of all projects deal with energy-efficiency



There are only 5 countries in the region that UNDP currently do not have an energy – efficiency project under development or implementation



Albania
Bosnia & Herzegovina
Georgia
Macedonia
Tajikistan

What types of issues to UNDP EE projects focus on

Awareness & Information Barriers

- Public Awareness Campaigns
- Stakeholder Workshops
- Demonstration Projects

Legal & Regulatory Barriers

- New legislation to promote Energy-Savings
- New building codes for Energy-Efficiency

Institutional Barriers

- No public institution with clear mandate and responsibility
- No responsibility for data collection, monitoring & reporting
- No incentive for state sector organizations to invest in EE (as less budget next year)

Financing Barriers

- Support for Sustainable Financial Mechanisms (e.g – investment fund, revolving fund,
- ESCOs

UNDP GEF Renewable Energy Projects aim to remove barriers

Projects Completed in the Past Two Years

Kazakhstan Wind Energy
 Georgia Renewable Energy (Small Hydro)

Projects under Implementation

Kyrgystan Small Hydro
 Montenegro Small Hydro
 Bosnia & Herzegovina Biomass Energy
 Tajikistan Small Hydro
 Georgia Biomass Energy

Projects under Preparation

Belarus Wind Energy
 Serbia Biomass Energy
 Ukraine Biomass Energy

UNDP Renewable Energy projects focus primarily on removing barriers to facilitate greater investment in renewable energy through reform to legislation, regulations, and policies. In addition, they often help to develop sustainable financial mechanisms such as investment funds, revolving fund, or loan guarantees.

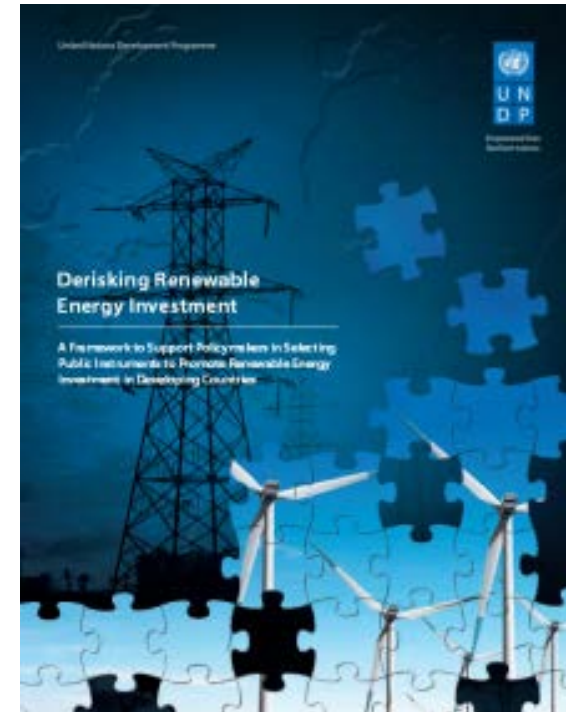
In addition, there is a focus on removal of information and awareness barriers that will help promote greater investment in RE.

Key Lessons Learned from All Successful Projects

What are all the key factors from successful projects.

- ◆ Effectively addressing legal, regulatory, and policy barriers is key to achieve transformational changes;
- ◆ Sustainable Financial mechanisms are in place to enable for scaling up to take place;
- ◆ Ability to Undertake Adaptive Management while project is underway is absolutely essential (e.g – Croatia);
- ◆ We need to understand that we can change activities and outputs in order to better achieve successful outcomes
- ◆ Dynamic Project Managers who are able to work effectively with all stakeholders and undertake adaptive management

Recent UNDP Publications on Energy-Efficiency & Renewable Energy



1. Modernising Building Energy Codes (IEA-UNDP, July 2013)

2. Derisking Renewable Energy Investment (UNDP, April 2013)



Thank you!!!

