



ESIB

« Energy Saving Initiative in the Building Sector in Eastern Europe and Central Asia »»

INOGATE Annual meeting
22 October 2014

Rob DE LOBEL

Overall project objective

To help the INOGATE Partner Countries reduce their dependency on fossil fuels, to improve security of their energy supply, and to allow them to contribute more actively to climate change mitigation.

Key facts

Project implemented by:

SOFRECO (Lead firm), AF Consult (Sweden), SEVEn (Czech Republic) and SodruZhestvo (Ukraine)

Start date: January 2010

End date: March 2014

Budget: 4.450.000 Euros

Partner Countries:

Armenia, Azerbaijan, Belarus Georgia, Kazakhstan, Kirghizstan, Moldova, Tajikistan, Ukraine, Uzbekistan

Task 1: Raising awareness of and disseminating information on EE in buildings

Achievement 1.1 – Training of journalists

- ESIB carried 8 training of journalists in the Partners Countries and trained over 110 journalists to draw the mass media's attention to the issues of energy efficiency and energy savings in the building sector.



** The training follow-up survey indicated that approximately 50% of the trainees are ready to include and promote energy efficiency in their articles.*

Achievement 1.2 – Drawing contests among students

- ESIB organised children drawing contests in the Partner Countries to raise awareness throughout the younger generation.



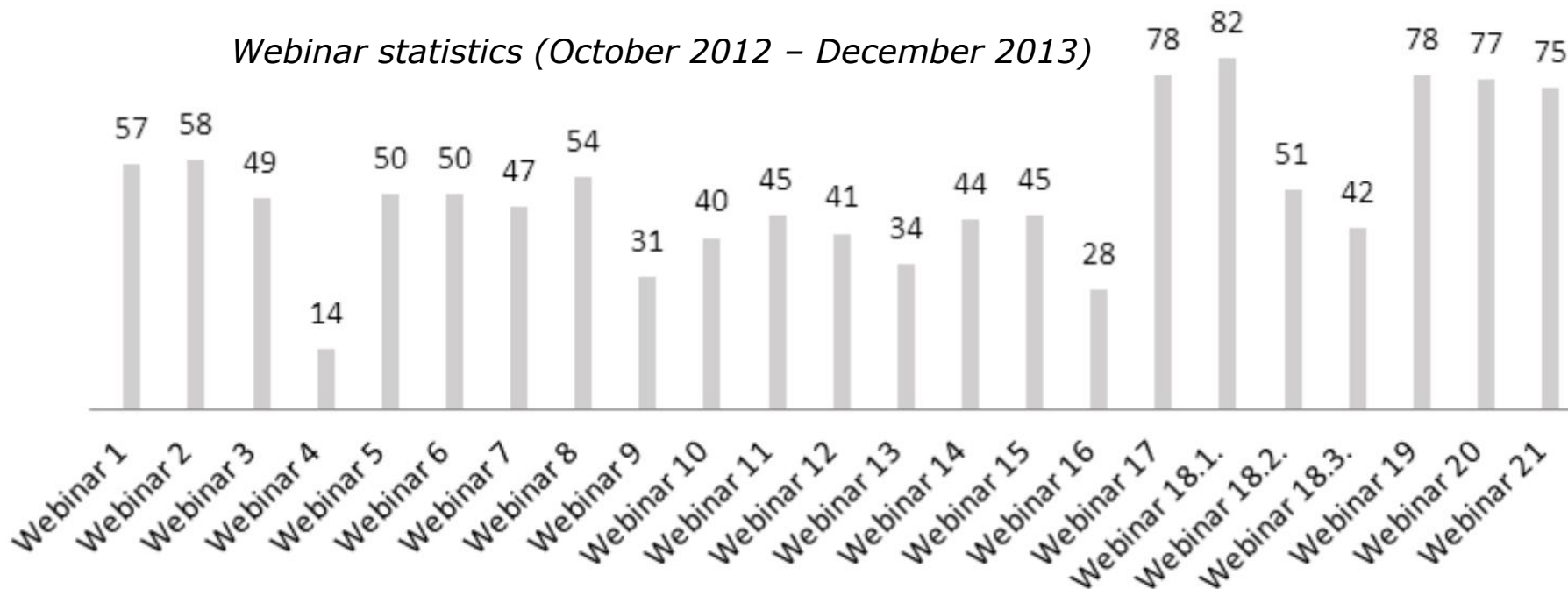
Competition among students 'Living in Energy Smart Buildings' in Azerbaijan



Achievement 1.3 – Webinar

- ESIB organized 21 webinars on various topics related to EE in buildings.

Webinar statistics (October 2012 – December 2013)





Achievement 1.3 – Webinar

Webinar 1. Investment climate in area of EE in Ukraine

Webinar 2. Energy policy and sustainable energy planning on the local level

Webinar 3. Energy management system - ISO 5001

Webinar 4. Energy efficiency and journalists for ESIB partner-countries

Webinar 5. Energy audit: objective and implementation. Energy passport.

Webinar 6. 'Investment Climate and Main Problems of Financing Projects on Energy Efficiency in Buildings'

Webinar 7. Main Principles of Energy Management Based on ISO 50001'

Webinar 8. 'Financing Projects on Energy Efficiency in Buildings'.

Webinar 9. 'Monitoring Energy Consumption in Buildings'

Webinar 10. 'Development of Sustainable Energy Action Plans for the Sector of Buildings'

Webinar 11. 'Green Construction: Designing Energy Efficient and Passive Buildings.

Webinar 12. Raising Energy Efficiency in Buildings Using ESCO.

Webinar 13. Implementation of Energy Efficient Measures and Technologies in Buildings.

Webinar 14. "Sustainable Energy Week in your city within the framework of the European Sustainable Energy Week in Ukraine

Regional Webinar 15. Energy efficient buildings - a prerequisite for the development of a green economy in Kazakhstan

Webinar 16. Labelling and energy passport

Webinar 17. 'Economic Justification of Energy Efficient Projects in Buildings'

Webinar 18.1. 'Development of Business Plans to Attract Financing for Projects on Energy Efficiency in Buildings' (part 1)

Webinar 18.2. 'Development of Business Plans to Attract Financing for Projects on Energy Efficiency in Buildings' (part 2)

Webinar 18.3. 'Practical Exercises on how to Calculate Economic Parameters of Energy Efficient Measures in order to Prepare a Business Plan' (part 3)

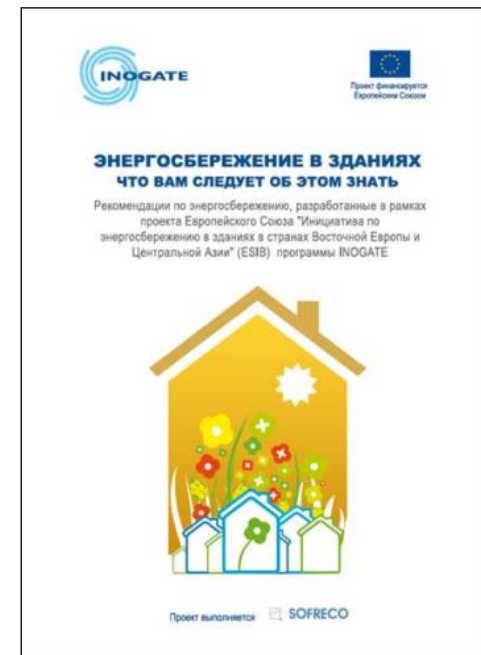
Webinar 19. 'Financial Models and Tools to Finance Energy Efficient Projects for Buildings'

Webinar 20. 'THE STEEPLECHASE: Methods to Overcome Barriers on the Way of Implementation of Energy Efficient Projects'

Webinar 21. 'Possibilities to Finance Energy Efficient Projects of HOAs in Ukraine'

Achievement 1.4 – Toolbox

- The Toolbox for Raising Awareness on EE in Buildings was distributed among more than 100 ESIB beneficiaries (Ministries, local authorities, energy agencies and other stakeholders) and presented during public events and webinar sessions.
- ESIB distributed over 5000 copies of the Toolbox's "information booklet".



Task 2: Assessing and assisting the progress on legislation and regulation



Achievement 2.1 – Thorough stocktaking analysis of the legal-regulatory framework for energy efficiency in buildings in ESIB PCs

- Comparative analysis with the EU best practices;
- Recommendations for immediate and medium- to long-term reform actions to help achieve the EU best practices.
- PCs covered: Armenia, Azerbaijan, Belarus, Georgia, Tajikistan and Uzbekistan.



Achievement 2.2 – Ad-hoc legal assistance to PC governments on specific priority policy areas

- Primary energy efficiency legislation
- Building energy efficiency regulations
- Housing policy and condominium/HOA legislation

Specific interventions:

- Review of the legislation and technical norms of the Republic of Moldova;
- Review of EE Draft Law of Ukraine;
- Review of EE Draft Law of the Kyrgyz Republic;
- Technical Assistance with EE Legislation in Kazakhstan;
- Legal Stocktaking Study on Electric Appliance Labeling for Armenia, Belarus and Moldova.



Achievement 2.3 – Handbook for HOAs

- Creation of the “*Handbook on EE issues for HOAs*”. The Handbook focused on the realisation of energy efficiency projects in multi-family houses.



Achievement 2.4 – Ad-hoc TA for HOAs – establishing the first condominium in Azerbaijan

- On December 30, 2013 the first HOA in Azerbaijan was officially registered with the direct support of ESIB.
- This achievement provoked a wide HOA awareness campaign that encouraged 6 HOAs in Baku and several HOAs outside of the capital to begin their registration process.

*"ESIB opened a new page in history for the development of
Azerbaijan"*

(Ramiz Geyuoshev, Deputy Head of Binagadi district of Baku)

Task 3: Support to an enabling investment climate for EE and RE projects in the building sector, including training of the banking sector and assistance in preparing projects for funding



Achievement 3.1 – ESIB’s Investment Climate Assessment

- Analysis of investment climate in the Partner Countries.
- ESIB’s Investment Climate Report includes the follow important issues that influence the investment climate environment for EE and RES:
 - ✓ Financial environment and financing energy efficiency and renewable energy;
 - ✓ Legislative, regulatory and political frameworks;
 - ✓ Main barriers to finance energy efficiency and renewable energy;
 - ✓ Energy efficiency and renewable energy – development of projects and their financial potential;
 - ✓ Review State institutes and financial institutions.
- The Investment Climate Report was presented to PCs during ESIB events, webinars and other events organized by international projects, beneficiaries etc.



Achievement 3.2 – Handbook of the Banking Sector

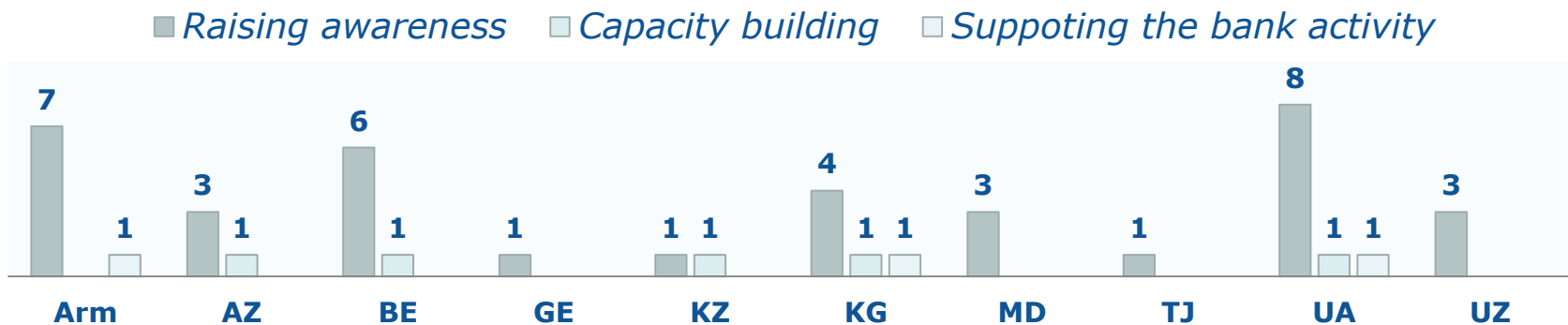
- ESIB developed a Handbook for the Banking Sector covering the following:
 - ✓ Financial aspects of EE projects;
 - ✓ Economic parameters;
 - ✓ Methods of calculating energy savings;
 - ✓ Project related risks;
 - ✓ Why it is necessary to prepare an EE business plan;
 - ✓ Components of an EE business plan.

- The Handbook was distributed to more than 30 banks and presented during public events and webinar sessions.

Achievement 3.3 – Training for bankers

- ESIB worked with local commercial banks in three areas:
 - ✓ Raising awareness and disseminating information on economic benefits of EE projects in buildings for top-managements of banks – 37 banks;
 - ✓ Capacity building (trainings of bank staff) – 5 banks;
 - ✓ Supporting the bank activity in the area of financing EE in buildings – 3 banks.

ESIB activity with banks in PCs



Two webinars were also organized for commercial banks: “*Financing Projects on Energy Efficiency in Buildings*” and “*Possibilities to Finance Energy Efficient Projects of HOAs in Ukraine*”.



Achievement 3.4 – List of Demonstration Projects implemented by ESIB

- **Armenia 1:** Audit and rehabilitation of Masis Hospital
- **Armenia 2:** Design and construction of new residential buildings
- **Armenia 3:** HOA common space EE Retrofit with HFHA with commercial lending
- **Azerbaijan 1:** Rehabilitation of a kindergarten in the municipality of Baku
- **Azerbaijan 1:** Energy audit of a nine-floor residential building in Baku
- **Belarus 1:** EE rehabilitation of a school in the municipality of Minsk
- **Belarus 2:** Energy efficient urban planning for a district in Brest
- **Georgia 1:** Municipality of Rustavi - EE rehabilitation of kindergarten no. 31
- **Georgia 2:** Municipality of Tbilisi - EE rehabilitation of a residential building
- **Kirgizstan 1:** Municipality of Bishkek – EE retrofit of school no. 59
- **Kirgizstan 2:** Municipality of Naryn – EE retrofit of Yiman kindergarten
- **Kirgizstan 3:** Gaz Village, Batken Oblast, School EE retrofit in cooperation with UNICEF
- **Kirgizstan 4:** Residential building in Bishkek 10 Microrayon



Achievement 3.4 – List of Demonstration Projects implemented by ESIB (continued...)

- **Kirgizstan 5:** Private suburban house rehabilitation, Bishkek, with FINCA micro finance
- **Kazakhstan 1:** Energy audit of a commercial building owned by Kazakh Energo Expertiza in Pavlodar, Northeast
- **Moldova 1:** EE rehabilitation of the Gaudeamus lyceum school in Chisinau
- **Moldova 2:** EE rehabilitation of a residential building in the city of Orhei
- **Tajikistan 1:** Residential building in Nusratullo Makhsum St., 85/2, Dushanbe, in cooperation with CAREC
- **Ukraine 1:** EE measures in Municipalities of Burstyn (energy audit) and Gola Pristan (training course)
- **Ukraine 2:** EE Measures in a residential building in the town of Cherkassy
- **Ukraine 3:** EE measures in a commercial buildings in the tourism sector in Crimea (five buildings audited)
- **Ukraine 4:** EE measure in Blisniuk city
- **Uzbekistan 1:** EE rehabilitation of a residential building at Kuyluk 2, bldg.# 10, Tashkent City

Task 4: Capacity strengthening in energy auditing, buildings technology



Achievement 4.1 – Assessment of existing capacities

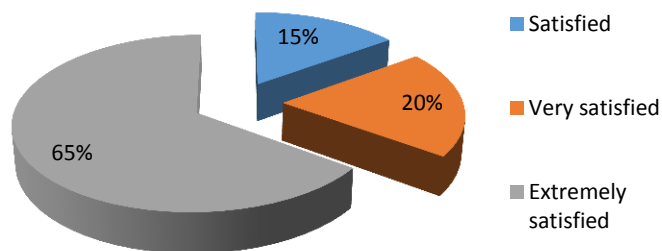
- ESIB Assessment of existing capacities in public and private Engineering organizations, construction companies and EE Product manufacturers:
 - ✓ Legal-regulatory capacities
 - ✓ Ministries' & municipalities' institutional capacities
 - ✓ Technical Capacities of Professionals: architects, engineers, developers
 - ✓ Capacity strengthening needs in building energy efficiency
 - ✓ Urgent needs, medium-term and long-term needs
 - ✓ Available materials and equipment, manufacturers

- Recommendations issued to relevant organisations within the Partner Countries.

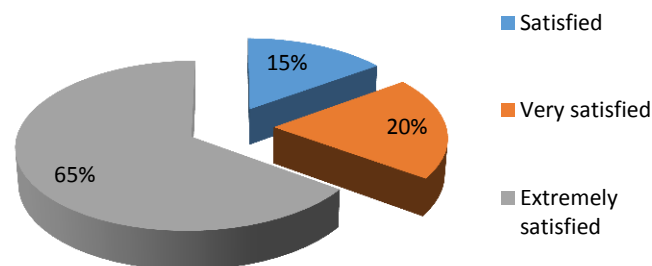
Achievement 4.2 – Energy audit training course

- ESIB Capacity Strengthening Efforts/Energy Audit Trainings
 - ✓ EE Product Market Assessment;
 - ✓ Handbook of technical solutions;
 - ✓ Hands-on training: Applied training & computer-based calculations;
 - ✓ Energy Audits in more than 27 buildings;
 - ✓ Financing plans elaborated for follow-up with banks loans.

Improving knowledge of participants



The seminar is useful for your job



Thank you

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