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UNDP Deputy Re	esident Representative	in the Republic of Belarus	À
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AGREED
Department for Energy Efficiency of Gosstandard of the Republic of Belarus
National Director of the UNDP/GEF Project

Andrei Minenkov

Date

ANNUAL PROJECT REVIEW 2017

Improving Energy Efficiency in Residential Buildings in the Republic of Belarus 77154 2013-2018

Project Title: Project ID: Year: Annual Targets:

N/A

Activity	Description	Implementing Partner	Fund	Donor	Budget account	Budget account description	Funds planned, USD	Funds utilized, USD(*)	Delivery rate achieved, %	Deviation, USD	Annual target as per ADWP-2017	Overall project assessment of implemented activities (brief description)
											ring the energy efficiency of the buil	ding sector with the focus on new residential buildings
Output 1.1	A formally adopted and endorsed method or other applicable international standard	ology for buildin s	igs' ener	gy perfor	mance monit	oring and calcula	ation in line v	with contemp	orary Europe	ean norms	Completed (within the scope of the project) in 2015.	
Output 1.2	At least 50 completed energy audits provious buildings of different age and using different age and using different age and using different age and using different age.	ding information ent construction	on factu techniq	ual energ ues	y consumptio	on and energy ba	lance of diffe	erent type of e	existing resid	dential	The methodology of energy audit that was based on the results of the 2013-2016 energy survey campaign and submitted for approval in 2016 has been adopted according to the prescribed procedure.	Pending approval. The final draft of the methodology has been submitted to the State Committee on Standardization for corresponding approval procedure.
1.2.1	Provide necessary consultations during the approval procedure until the energy audit methodology is properly adopted.	000473	62000	10003		71200 - international consultants (budget 2015) 71300 - local consultants (budget 2015)	200	339	,			Fully implemented (within the competence of the project). When necessary, during the approval process the project experts, including the international one, provided consultations for relevant decision-makers while presenting the draft version of the methodology during several meetings held in the EE Department and the Ministry of Architecture & Construction, discussed the methodology at ad-hoc meetings with stakeholders (e.g., Oct 6, 2017, Round table "The issues of the operation of energy-efficient residential buildings"; Nov 17, 2017 Round-table "Systems for Energy Audit and Compliance Monitoring of Energy Efficiency Standards in Residential Buildings: Methodology, Practical Procedures and Organizational Mechanisms"; Dec 15, 2017 Round-table "Methodology, practical procedures and relevant provisions on organizational arrangements for the system of annual monitoring of energy-efficient housing"). As a result, the project revised the methodolog (Методические рекомендации по проведению энергетического обследования многоэтажных жилых зданий / Минск, 2017. 114 стр.) and resubmitted its final draft version to the State Committee on Standardization (letter of 18.12.2017 No.137/2017).
Output 1.3	A completed review and cost-efficiency an sources, including an analysis of the cost-	I alysis of differer efficiency of diff	nt techni ferent he	cal optior at supply	ns to improve and distribu	e buildings' energ tion methods to s	gy efficiency s serve low or d	and the use c close to zero	of renewable energy build	lings.	options to improve demonstration buildings' energy efficiency as part of the project has been completed and submitted to decision makers for	Fully implemented. Cost-effectiveness analysis was conducted and its results that contain detailed data on the internal rate of return and the payback period of different variants of technical solutions to improve the energy efficiency of buildings were reported and disseminated on-line and handed over to key stakeholders. The recommendations as to the required changes in the tariff policy were highlighted. The project shall (and will) continue providing necessary expert analysis and consultations to officials to help create more attractive conditions for key players of the energy efficient housing market.

Prepare the necessary video materials for	000473	62000	10003	71300 - local	4 200		0%		The following materials should be	Partly implemented. In Dec 2017, the scenarios of the video tutorials were compiled, the ToR for a
demonstrating to specialists the logistics and important aspects of the design and				consultants					minutes each), stands, models, other	professional video company was prepared, and the company was contracted. The project proceeded to procurement of special simulators, replicas, models, stands and visual aids to be handed over to and installed
construction of pilot buildings. Prepare video	000473	62000	10003	71600 - travel	1 000	1 325	132%	-325	training aids for the specialists of	at the Oblast Training Centres for Personnel of Housing & Communal Services in Minsk, Mahiliou and Hrodna
tutorials, other training and demonstration	000473	62000	10003	74200 - audio &	42 650	30 026	70%		operating companies (main target audience) for each pilot building with the	
aids, models for the specialists of operating companies for each pilot building with the				video prod.					demonstration of the contents, operating	
demonstration of the contents, operating									principles, maintenance and repair of the	
principles, maintenance and repair of the									components of each of the energy	
components of each of the energy efficiency									efficiency utility systems installed in these buildings, which also illustrate the entire	
utility systems installed in these buildings.									logistics and important aspects of the	
									construction of actual buildings and its	
									conformance to the design specification and estimates, and standards and	
									recommendations proposed and adopted	
									due to the project. Video tutorials and	
									demonstration materials will be used during training (for example, see 3.5.2	
									below) and disseminated online and on	
									CDs among the stakeholders.	
										Partly implemented. After the pilot buildings were commissioned, the project organized 11 visits to the pilot
Using instructional and information materials prepared ad part of activities 2.1.2. and 3.5.1	000473	62000	10003	71300 - local	0	0			At least 10 special video screenings along with half-day trainings have been	sites coupled with half-day trainings that were conducted before site visits. In average, 10-15 attendees took
described above organize in each of the				consultants (budget 2015)					conducted in each of the cities (Hrodna,	part in each training, representing mostly utility companies. The trainings were held at the facilities of the
three cities where the pilot buildings are built	000473	62000	10003	71600 - travel	4 000	4 000	100%		Mahilioŭ and Minsk) for the local architects, designers, builders,	Oblast Training Centres for Personnel of Housing & Communal Services in Minsk, Mahiliou and Hrodna.
at least 10 special demonstration events with trainings (half-day long) for the designers		62000	10003	71600 - travei 72145, 75700 -	25 000	21 793	87%		management (operating) companies and	
and specialists in residential construction,	000473	62000	10003	trainings	25 000	21750	07 70	0207	decision makers.	
and for the specialists of utility companies				•						
responsible for the operation and										
Imaintenance of the energy efficient										
maintenance of the energy efficient residential buildings.										
	000473	62000	10003	74510 - bank	200	362	181%	-162		
residential buildings.		62000 62000		74510 - bank charges 76125/76135	200	362 1 396		-1396		
residential buildings. Bank Fee				charges			181%			
residential buildings. Bank Fee REALIZED GAIN/REALIZED LOSS	000473	62000	10003	charges 76125/76135 Outcome 3 - total: Outcome 4: Documented	0 198 720 I, disseminate	1 396 197 853 ed and instit	100% utionalized	-1396 867 project	results providing a basis for further	
residential buildings. Bank Fee REALIZED GAIN/REALIZED LOSS Developed and published public awareness	000473	62000 Is and c	10003	charges 76125/76135 Outcome 3 - total: Outcome 4: Documentedation-wide awareness and in	0 198 720 d, disseminate	1 396 197 853 ed and instit	100%	-1396 867 project	results providing a basis for further	The Project has prepared and published (on-line, hard copies and disseminated on about 250 CD-ROMs and flash-memory sticks) 18 technical reports, 3 handbooks, 3 brochures (reference books) and
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4.1.3	Prepare and publish articles, leaflets, brochures, etc. for professionals about the best practices and concerning peculiarities of construction of and equipment installation in energy efficient residential buildings.		3 62000	10003	71300 - local consultants 74200 - audio & video prod.	600	285 487	81%	113	energy efficient residential buildings has been prepared and issued.	Fully implemented. The handbooks "Энергообеспечение инженерных систем и мест общего пользования энергоэффективных зданий солнечными фотоэлектрическими панелями" (Минск, 2017. 104 стр.); Проектирование теплонасосных установок для отопления и горячего водоснабжения энергоэффективных многоэтажных жилых зданий (Минск, 2017. 128 стр.); Энергоэффективные строительные материалы, изделя и технологии (Минск, 2017. 60 стр.) were issued (150 copies each) for professionals focusing on the best practices on construction of and engineering equipment installation in energy efficient residential buildings. The said brochures along with other handbooks, reference books, guidance and leaflets were also published online, and distributed (more than 200 CDs and flash-sticks) among the project stakeholders and participants of different events organized by the project.
4.1.4	Prepare and publish articles, leaflets, brochures, etc. for professionals on best practices describing the peculiarities of the operation and maintenance of energy efficient residential buildings.	000473	3 62000 3 62000		71300 - local consultants 74200 - audio & video prod.	600	1 299 0	0%		At least one publication for professionals about the best practices in the operation and maintenance of energy efficient residential buildings has been prepared and issued.	<u>Fully implemented.</u> 10 handbooks containing detailed description of energy efficient measures applied to and equipment installed in the pilot buildings were prepared, designed and sent for publishing (70 copies each). These materials will be distributed among the project stakeholders and utility companies.
4.1.5	In cooperation with the Department for Energy Efficiency provide information and expert support to the national Energy Efficiency Leader competition.	000473	3 62000	10003	71300 - local consultants 74200 - audio & video prod.	200 500	0	0% 0%		Support has been provided (expert and information support) to the conduct of the competition, and the national Energy Efficiency Leader competition has been conducted.	Fully implemented. As per a request from Energy Efficiency Department, the project patronizes important Republican Contests, namely "Energy Efficiency Leader", held since May1 till August 15, 2017 (http://energokonkurs.by/indexG.html). The Contest was established as an annual competition on three nominations: "Energy Efficient Product of the Year", "Energy Efficient Technology of the Year", and "Energy Efficient Building of the Year". Five experts of the Project became members of the Competition Commission and the Steering Committee. For "Energy Efficiency Leader 2017" the project supported necessary organizational and logistic efforts, and dedicated one of its publications to the results of the Contests (e.g.: http://www.effbuild.by/news/396.html). One of the nominees and winners was GrodnoGrazhdanProjekt Institute, the designer of the pilot building in Hrodna.
4.1.6	Project information materials	000473	62000	10003	74200 - audio & video prod.	0	0			and published off-line and on-line as per activities 4.1.1-4.1.4 above.	Fully Implemented. Several video films and other information materials were developed and broadcasted on- line (approx. more than 10000 visits), e.g.: https://www.tacebook.com/UNDPinBelarus/videos/1812375312385081/ https://www.tacebook.com/UNDPinBelarus/videos/1812514989037780/ http://www.tacebook.com/UNDPinBelarus/videos/1812514989037780/ http://www.twr.by/bel/news/obshchestvo/opyt_belorusskikh_inzhenerovstroiteley_po_vozvedeniyu_energoe flektivnykh_domov_vostrebovan_zarube/ http://www.br.dp.org/content/belarus/en/home/presscenter/pressreleases/2017/01/30/eebuilding-in- minsk.html http://gww.by.undp.org/content/belarus/en/home/presscenter/pressreleases/2017/01/30/eebuilding-in- minsk.html http://gkx.by/novosti/1593-chastniki-poka-ne-gotovy-vzyatsya-za-tekhobeluzhivanie-zhildroda http://gkx.by/novosti/1593-chastniki-poka-ne-gotovy-vzyatsya-za-tekhobeluzhivanie-zhildroda http://gkx.by/novosti/1593-chastniki-poka-ne-gotovy-vzyatsya-za-tekhobeluzhivanie-zhildroda http://gkx.by/novosti/1593-chastniki-poka-ne-gotovy-vzyatsya-za-tekhobeluzhivanie-zhildroda http://gkx.by/novosti/1593-chastniki-poka-ne-gotovy-vzyatsya-za-tekhobeluzhivanie-zhildroda http://gkx.by/novosti/1593-chastniki-poka-ne-gotovy-vzyatsya-za-tekhobeluzhivanie-zhildroda http://gkx.by/novosti/1593-chastniki-poka-ne-gotovy-vzyatsya-za-tekhobeluzhivanie-zhildroda http://grod-esco-agency/soderzhanie/rubriki/1-tarifinaya-politika/592-otkrovennyj-razgovor-ob- energoeffelktivnykh-domakh-tarifakh-i-belonusakh Energy Efficiency (Edition of the Department for Energy Efficiency) June 2017 issue, "Conomic levers to stimulate energy Efficiency (Edition of the Department for Energy Efficiency) April 2017 issue, "Ronomic levers to stimulate energy saving for the population will become more effective", Energy-efficient house (p. 2) https://www.facebook.com/UNDPinBelarus/videos/183985872997358/ https://www.facebook.com/UNDPinBelarus/videos/183985872997358/ https://www.facebook.com/UNDPinBelarus/videos/183985872997358/ http://www.facebook.com/UNDPinBelarus/videos/19

a	sulidings" under the auspices of the Project and in cooperation with the Department for inergy Efficiency, UNDP and other similar projects.	000473 620 000473 620 000473 040 000473 620	00 10003 00 10003 00 00012	71300 - local consultants (budget 2015) 71600 - travel 72100 - contract. serv. companies 75705 - conf. org. 74200 - audio & video prod.	0 697 5 000 0 200	0 500 92 13 617 0	72% 2% 0%	197 4908	shared experience, strategy and technical solutions while taking part in the International Conference "Best Practices in the Energy Efficiency Improvement in Residential Buildings" (during the conference, site visits are organized to pilot buildings) organized annually under the auspices of the project. The same for the larger international conference in 2018.	the Design, Construction and Upkeep of Buildings and Structures with Minimum Energy Consumption. Engineering Equipment. Renewable Energy Sources". The conference was organized and held by the Project in Dec 15, 2016. The project and its experts presented 9 presentations. In 2017, the Project continued strengthening cooperation with the similar UNDP projects. For 11 experts and representatives of governmental agencies from Uzbekistan the Project organized a series of activities that included visits to the pilot project sites, as well as to house-building factories in the cities of Minsk and Grodno.
Output 4.7 F	Regularly updated project website with a lin	nk to an Expanded Ei	nergy Platform						s/ru/home/library/environment_energy, according to the decision of the UNDP Office.	The project website (http://effbuild.by) still situated in its assigned server using its original hosting and domain name. The UNDP CO is not insisted in immediate transferring the project website to http://www.by.undp.org/, although the project page is opened there with some selected materials. Today, the traffic index proves that the project website is quite popular yet among users from Belarus, Russia, Austria and Ukraine. The project website has been linked to other networks, e.g., ISSUU Platform, dealing with energy efficiency, and to social networks like Facebook, Twitter and YouTube.
F F F F F	Fransfer the project website to the Internet bage http://www.by.undp.org/ and regularly update the following sections of the website: Reports (project outcomes and achievements, reports, articles, etc.), Special Materials (methodologies, standards, ecommendations, etc. produced by the project) and News (announcements, news and press releases, reposted relevant massimedia publications, etc.) along with echnically adapted and photo (video) content. Ensure website promotion via internet search engines and social networks.	000473 620	00 10003	71400 - service contr. individ.	1 500	1 381	92%		The content of the project's website has been fully transferred to the UNDP Office site, including all project's technical reports with methodologies, recommendations prepared by the project personnel, published reference books, main publications and articles of the project's experts, materials and presentations from the conferences, trainings and workshops organized and conducted by the project, and all important press releases and news. The said information is regularly updated on the new website.	Fully implemented. The website is fully operational with its content. The Project posted on its website and made available for free download almost all press-releases and media announcements, handbooks issued, technical reports and key publications published. In 2018, the website will be transferred to the website of the UNDP Representative Office (http://www.by.undp.org/) to provide access to the materials of the project after its closure. It was also agreed with the EE Department (National Implementing Agency) that some key materials will be reallocated to their website (http://energoeffekt.gov.by/).
Output 4.8	Annual market monitoring reports for new	building construction	with the emph	asis on energy efficiency asp	ects.				The report on the monitoring of the market of energy efficient buildings fo 2013-2017 has been prepared.	The activities under this Output will be continued in 2018
	Based on the available statistics, direct survey and data obtained from the project's partners (Ministry of Architecture and Construction, Department for Energy Efficiency) conduct a study of the energy performance and respective GHG emissions of different residential buildings introduced to the housing construction market in 2013-2017, and based on this data, draft reports containing the data on market monitoring for new residential building construction, analysis results and respective recommendations with the emphasis on energy efficiency improvement and GHG emission reduction.	000473 620	000 10003	71300 - local consultants (budget 2015)	0	0		0	The report containing the data on the monitoring of the market of energy efficient buildings for 2013-2017 has been prepared along with the findings of the analysis and respective recommendations as to further possibilities for energy efficiency improvement and GHG emission reduction. The report has been presented to the stakeholders and published on the Internet.	жилищного строительства / Minsk, 2017. 23 pgs).
	Final project report consolidating the resul the required next steps	lts and lesson learnt	rom the implen	nentation of the proposed pro	ject compon	ents and recon	nmendation	ns for	The outcome is to be achieved in 2018.	The ToR and other relevant documents were prepared, the tender was conducted and the International Consultant on the Final Evaluation of the project was selected. The Output will be implemented in 2018.
	procedure for procurement of services of an international consultant for preforming the		0 10003	71200 - International consultants 71600 - travel	0	24 122		-24122 -2000	The ToR and other relevant documents prepared. The tender conducted and the consultant selected.	The ToR and other relevant documents were prepared to conduct a tender for selection of an international consultant to perform the project's terminal evaluation. After the tender was announced, the project received 21 applications of which three applications were admitted for further evaluation procedures. The shortlisted applicants were invited for the interview. As a result, the international consultant on the final evaluation of the project was selected and respective contract was prepared and duly signed.
	Bank Fee	000473 620	000 10003	74510 - bank charges	150	178	119%	-28		
	Bank Fee	000473 040	000 00012	74510 - bank charges	100	106	106%	-6		
	REALIZED GAIN/REALIZED LOSS	000473 0400 20	0/6 00012/1 000 0003	76125/76135	0	6		-6		
				Outcome 4 - total:	41 659 Effective	77 170	185%	-35 511		

M1	Project monitoring and reporting.	000473 04000	0 00012	71600 - travel	0	0			meeting has been held. Deadline - December 31, 2017. All project reports have been submitted and adopted in due time. Deadline - July 15, 2017 (for the semi-annual report to the GEF and for Logs) and December 31, 2017 (for the annual report to the Ministry of Economy, APR and Logs)	A draft of ADWP-2017 was first presented and discussed in the meeting of stakeholders and experts in N 2016. The final version of ADWP-2017 was approved in Dec 23, 2016 during the 7th Meeting of the PSC dully adopted in Feb 10, 2017. The project plan was further revised and adopted in Sep 21, 2017 when the was the need to include some additional activities. Budget revisions were prepared and submitted in due The annual report for 2016 was prepared and submitted to the Ministry of Economy as required, until Jan 15 2017. The PIR for the GEF was submitted to the UNDP RTA before June 15, 2017. Two meetings of Project Steering Committee were conducted in 2017 (the 8th Meeting, Sep 21, 2017, and the 9th Meeting Dec 29, 2017). Technical reports were generally submitted in line with the ADWP-2017. Semi-annual annual reports for UNDP and GEF, Logs and budget revisions were submitted in time. Other operational tasks were performed as required.
M2	Project management and project office functioning.	000473 62000 000473 62000		71300 - local consultants 71300 - local	1 840	1 565 1 200	85% 120%		Project plan successfully fulfilled.	The project's office is fully equipped and PIU is successfully functioning. The project's stuff has been composed of five SC holders (project manager, administrative and financial assistant, procurement special construction engineer, and PR & communication specialist). In addition, in 2017, twelve national and one
		000470 02000	10000	consultants (translation)	1 000	1 200	120%	-200	ļi,	international consultants were operating under individual contracts. The Project also supported some local international missions of PIU staff and its experts.
		000473 62000	10003	72100 - contract. serv. companies	38	277	729%	-239		
		000473 62000	10003	71600 - travel	1 240	850	69%	390		
		000473 04000	00012	71400 - contract. serv. individ.	25 419	35 670	140%	-10251		
		000473 04000	00012	72100 - contract. serv. companies	2 300	1 750	76%	550		
		000473 62000	10003	72300 - materials and goods	157	0	0%	157		
		000473 62000	10003	72400 - communicat	1 500	1 459	97%	41		
		000473 62000	10003	72500 - office supplies	707	571	81%	136		
		000473 62000	10003	72800 - Information Technology Equipmt	0	469		-469		
		000473 04000	00012	73100 - utilities	2 000	1 919	96%	81		
		000473 04000	00012	73400 - equipment services	100	0	0%	100		
		000473 62000	10003	73400 - equipment services	300	522	174%	-222		
		000473 62000	10003	74200 - printing and public	0	0		0		
		000473 04000	00012	75700 - learning cost	0	0		0		
		000473 04000	00012	74500 - miscellan.	50	112	225%	-62		
		000473 62000		74500 - miscellan.	50	31	62%	19		
	REALIZED GAIN/REALIZED LOSS	000473 62000		76125/76135	0	-3		3		
	REALIZED GAIN/REALIZED LOSS	000473 04000	00012	76125/76135	0	2	NAME OF T	-2		
				PM - total:	36 701	46 395	126%	-9 694		
				Grand total:	319 790	357 749	112%	-37 959		

Cleared by

Jar Tchoulba 22 ensays 2018

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