Project funded by: Erasmus+ / Key Action 2 - Cooperation for innovation and the exchange of good practices, Strategic Partnerships for youth (European Commission, EACEA).





Educational Program definition

IDEA 2017-1-CY01-KA204-026725

IO2.A2

Document Info

Deliverable Number Deliverable Title

Educational program definition

Intellectual Output Title

Activity description The Document will elaborate the specific areas, topics and ICT tools selected. It will summarize the needs for specific tools in each of the project countries. It will define which country-specific tools are to be developed and which tools are to be developed in all the project countries and the

educational outcomes of each of the tools.

Authors organization/partner Status (D: draft; RD: revised draft; F: final) Date (versioning)

<Draft>

102.A2

<May 2018> (<Version>)

<Energy agency of Plovdiv>

Document History

Authors	Reviewe r	Date	File suffix [Version.Revision]	Approval
Energy Agency of Plovdiv	<partner></partner>	<31.05 .2018>	<version 1=""></version>	<yes no=""></yes>
	UCY	21.06. 2018	1.1	Yes

Executive Summary:

The main aims of this document are to elaborate the specific areas and to define the content of the three thematic chapters; to summarize the needs for the specific tools, based on the outcomes of O1. The document will present the selected tools that are to be developed and will define the educational outcomes of each of the tools.

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Introduction

This document is part of the implementation of Intellectual output 2 and it is based on the results of the Learning activity (C1).

The main objective of IO 2 Educational program and best practice are to define the educational program outline that will respond to the training needs identified in O1 and to serve as input for the development of energy poverty curriculum (O3) with the overall aim of contributing to the improvement of practices for the education about energy poverty. Then O2 has objective to run a learning activity in order to share knowledge, expertise and examples of best practice on energy poverty between partner organizations, which will also strengthen preparations for O3.

About the project

IDEA (Innovative Direction in Energy Advising) project's purpose is to develop innovations in education about energy poverty. Main objective is to improve existing and develop new innovative educational methods and materials for adult training on energy poverty. The partnership consists of experienced organizations strategically places in the most affected region regarding energy poverty-in Bulgaria, Croatia, Slovenia and Cyprus. Project is implemented by University of Cyprus, DOOR Society for Sustainable Development Design, Energy Agency Plovdiv and Focus Association for Sustainable Development. It is funded by Erasmus+ programme.

1. Analysis of the needs for specific tools – summary of 01 outcomes

Analysis of the training needs were performed in O1 with the main objective to collect information about current understanding and involvement in the area of energy poverty. A questionnaire was circulated among identified stakeholders by each partner. Then 4 country specific and one overall report were produced.

A summary of the four country specific reports and the results related to the selection of the tools are presented below:

Bulgaria:

The most suitable tools for respondents' involvement in energy poverty: **Database on energy poverty in households** and **Workshops and Online platform**

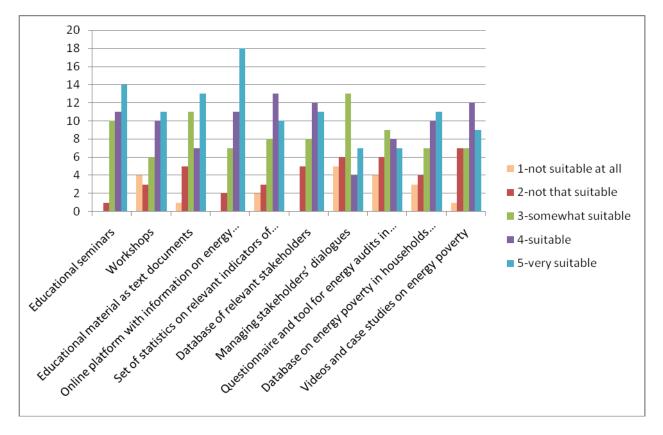
Options:	1	2	3	4	5	Average
Educational seminars		4	9	10		3,26
Workshops		2	9	15		3,50
Educational material as text documents		4	12	15		3,35
Online platform with information on energy poverty (measures, relevant actors,)		2	4	9		3,47
Set of statistics on relevant indicators of energy poverty		4	4	6		3,14
Database of relevant stakeholders		2	9	12		3,43
Questionnaire and tool for energy audits in households		3	8	13		3,42
Database on energy poverty in households (on country/regional level)			6	9		3,60
Video		2	8	9		3,37

Croatia - The best evaluated tools were Online platform, set of relevant statistics and database on energy poverty in households.

No.	Tools	Suitability of the tool (from 1-not suitable at all to 5-very suitable)
1	Educational seminars	3.80
2	Workshops	3.73
3	Educational material as text documents	3.90
4	Online platform with information on energy poverty (measures, relevant actors,)	4.23
5	Set of statistics on relevant indicators of energy poverty	4.00
6	Managing stakeholders' dialogues	3.54
7	Questionnaire and tool for energy audits in households	3.83
8	Database on energy poverty in households (on country/regional level)	3.97
9	Videos and case studies on energy poverty	3.24

Cyprus:

The best evaluated tools were **Online platform** and **Educational seminars**



Slovenia:

When it comes to suitability of tools for respondents' involvement in energy poverty, in case of gaining more knowledge or external support, they have stated that the most suitable tool or format would be 'an **Online platform with information on energy poverty** (measures, relevant actors,...)'. Second best was '**Database on energy poverty in households** (on country/regional level)', and third 'workshops' and 'educational material as text documents'. Out of all options, respondents have

stated that 'videos and case studies on energy poverty' are a less suitable option. Detailed results are shown in Table 4.3.

No.	Tools	Suitability of the tool (from 1-not suitable at all to 5-very suitable)
1	Online platform with information on energy poverty (measures, relevant actors,)	4.31
2	Database on energy poverty in households (on country/regional level)	4.06
3	Workshops	3.97
4	Educational material as text documents	3.97
5	Educational seminars	3.92
6	Set of statistics on relevant indicators of energy poverty	3.81
7	Database of relevant stakeholders	3.74
8	Managing stakeholders' dialogues	3.69
9	Questionnaire and tool for energy audits in households	3.64
10	Videos and case studies on energy poverty	3.63

The overall report, combining the 4 country-specific reports, shows that when it comes to suitability of tools for respondents' involvement in energy poverty, in case of gaining more knowledge or external support, the stakeholders have stated that the most suitable tool or format would be an 'Online platform with information on energy poverty (measures, relevant actors,...)'. Second best was 'Database on energy poverty in households (on country/regional level)', and third 'Educational seminars'.

Detailed results are shown in the following table:

No.	Tools	BG	HR	CY	SI	All
1	Online platform with information on energy poverty (measures, relevant actors,)	3.47	4.23	4.15	4.31	4.04
2	Database on energy poverty in households (on country/regional level)	3.60	3.97	3.63	4.06	3.82
3	Educational seminars	3.26	3.80	4.06	3.92	3.77
4	Educational material as text documents	3.35	3.90	3.70	3.97	3.73
5	Workshops	3.50	3.73	3.66	3.97	3.72
6	Set of statistics on relevant indicators of energy poverty	3.14	4.00	3.72	3.81	3.67
7	Database of relevant stakeholders	3.43	/	3.81	3.74	3.66
8	Questionnaire and tool for energy audits in households	3.42	3.83	3.24	3.64	3.53
9	Videos and case studies on energy poverty	3.37	3.24	3.58	3.63	3.46
10	Managing stakeholders' dialogues	/	3.54	3.06	3.69	3.43

As most appropriate approaches and tools for education about energy poverty and measures for alleviating energy poverty, respondents have selected 'Practical activities', followed by 'Applications', 'Web based tools', and 'Lectures'. 'Textbooks' and 'Games' were selected as somehow appropriate tools, and 'Role playing' was seen as least appropriate tool on the list. Details can be found in Table 5.4.

No.	Appropriateness of approaches and tools for education about energy poverty and measures for alleviating energy poverty	BG	HR	CY	SI	All
1	Practical activities	4.76	4.55	4.18	4.37	4.47
2	Applications	3.63	3.70	4.16	3.76	3.81
3	Web based tools	3.88	3.55	3.91	3.71	3.76
4	Lectures	3.19	4.00	3.63	3.66	3.62
5	Textbooks	2.87	3.78	3.59	3.11	3.34
6	Games	3.00	3.03	3.35	3.37	3.19
7	Role playing	2.83	2.52	2.97	2.71	2.76

As most important topic for education about energy poverty and measures for alleviating energy poverty, respondents have selected 'Energy use of domestic devices and appliances', followed by 'Practical training' and 'Detecting energy poverty'. Details with listed all 13 topics for education about energy poverty and their accompanied grades are shown in the following table:

No.	Topics for education about energy poverty and measures for alleviating energy poverty	BG	HR	CY	SI	All
1	Energy use of domestic devices and appliances	3.75	4.68	4.42	4.32	4.29
2	Practical training (how to implement energy advising in households, measuring energy and water use, replacement of devices in household, identification of key problems in household)	3.60	4.32	4.33	4.39	4.16
3	Detecting energy poverty (definition, indicators, causes, solutions)	3.50	4.42	4.30	4.39	4.15
4	Soft and infrastructural measures and devices for reducing energy and water consumption		4.66	4.09	4.11	4.11
5	Social security aspect and related services (to be able to identify problem and give advice to household)	3.74	4.27	3.71	4.26	4.00
6	Heat Energy, Electric Energy and Water	3.55	4.29	4.24	3.89	3.99
7	Information about energy and social actors and schemes that can help energy poor household		4.16	3.94	4.13	3.96
8	Renewable energy sources	3.61	4.03	4.29	3.74	3.92
9	Basics about energy and energy needs	3.47	3.94	4.25	3.79	3.86
10	Methodology of energy advising in households (process of implementation of energy advising, how to use questionnaire and software tool, saving devices)	3.55	4.00	3.79	3.92	3.82
11	Communication training (communicating with costumers, households members and other stakeholders)	3.52	3.97	3.89	3.79	3.79
12	Climate change and other environmental impacts of energy use	3.54	3.94	3.95	3.45	3.72
13	Entrepreneurship (job application, how to start your own business initiative, marketing, etc.)	3.16	3.60	3.40	3.16	3.33

2. Tools selection

Based on the results from O1 and the discussions during the LTT, partners agreed on the development of the following tools:

Energy Advising Tool for Energy Poor Households (Restricted access):

A tool that energy advisors will use to record the collected and assessed data about energy and water consumption and habits in households. It will be able to calculate potential and possible savings. It will consist of constant numerical factors pre-saved to be used in calculations, and average numbers too e.g. water consumption – different for each country. It will provide individual energy reports for households. The tool will be with restricted access to citizens, only energy advisors will have access to use it.

• Open Access Toolbox:

It will present a Toolbox, including 5 energy tools for assessing energy consumption in households. The tool will be open to any individuals to use (online). It will help the households to calculate easily their energy and water consumption and will assess the energy savings. Toolbox components are the following different tools:

- Electricity tool

- Cooling tool
- Heating tool
- Lighting tool
- Water tool

Energy and Water Saving Tips for Households

This tool will represent a package with energy saving tips. It will provide tips on energy efficiency and energy behaviour change. The tool will be open for any individual to use online and will be downloadable as well.

• Educational e-manual tool:

A downloadable document, which will consist of an educational programme to educate advisors on how to tackle energy poverty. It will include the following main sections: Energy poverty; Energy efficiency; Social issues; Entrepreneurship possibilities; Communication skills.

• National Contacts Tool

A tool that will provide a catalogue of organisations, stakeholders or other people that can help persons facing energy poverty, considering the country and area of interest. It will also provide information about financial mechanisms for increasing energy efficiency and social support.

• The Webinars tool:

The webinars will be directed at stakeholders (energy poverty and energy efficiency actors, adult education). The objective is to present the ICT tools for energy poverty and to influence text-based discussion (Q&A). Webinars will be country based with 30 min duration max.

• Video Tutorial Tool:

Video tutorials about the ICT tools will be produced. They will be like animated demonstrations describing how to use the tools.

• The "video for dissemination" tool

It will represents the project, the partners and the Educational program that will be created. It will provide an overview of the different themes, communication materials and digital media. The video will be posted online with subtitles in all partners languages

• Educational Games Tool:

Interactive online games with educational purpose will be produced. They will be related to education on energy poverty and energy efficiency issues. The educational game tools will be in different formats, for example: Quizzes, timed question games, crosswords, etc.

• Role-Play Game Tool (Optional):

A 3D game will be established with different scenarios, focused on how the advisors can better react to various social situations, how to deal with potential conflict in the household they visit and how to apply their energy saving knowledge in the household setting. They will use an avatar to move in the virtual space. Energy advisors will use this game for their education.

3. Definition of selected tools

The following table summarises the selected tools and defines which will be the target group of the tools, if the tool is country specific or it will be for all project countries, what will be the educational outcomes and who is the project partner responsible for validation of the tool and will need to support its development process.

			Country		
			specific/ for		
			all project		Validation
No.	ICT tool	Target group?	countries	Educational outcomes	partner
		3.3.3.1	For all project	The users will be able	
	France Advising Tool for		countries/	to monitor and analyze	
	Energy Advising Tool for		Partly Country	the energy performance	
	Energy Poor Households		specific	of the household and to	
	(Restricted Access - only	Energy		assess the potential for	
1	for experts)	advisors		energy savings.	FOCUS
				The users will be able	
				to monitor and analyze	
				the energy performance	
				of the household and to	
				assess the potential for	
2	Open Access Toolbox	Individuals		energy savings.	FOCUS
				It will help the user to	
				calculate the electricity	
				consumption in the	
				household, to monitor	
				and analyze the monthly	
				electricity performance	
0.4	Electrication			of the domestic	
2.1.	Electricity	All	-	appliances	
				It will help the user to	
				calculate, monitor and	
				analyze the water	
2.2.	Water	All		consumption in the household.	
۷.۷.	vvater	All	-	It will help the user to	
				calculate the heating	
				energy consumption in	
				the household, to	
				monitor and analyze the	
				monthly performance of	
				the heating appliances	
2.3.	Heating	AII		and/or systems	

•		Ī	ī		i i
				It will help the user to	
				calculate the cooling	
				energy consumption in	
				the household, to	
				monitor and analyze the	
				monthly performance of	
				the cooling appliances	
2.4.	Cooling	All		and/ or systems	
				It will help the user to	
				calculate the lighting	
				energy consumption in	
				the household, to	
				monitor and analyze the	
۰.	l imbiin m	A 11		monthly performance of	
2.5.	Lighting	All		the lighting appliances	
				It will provide tips on	
				energy efficiency and	
				energy behavior change.	
				The tips will be related	
				to electricity, heating and	
				water usage. It will be	
	"Energy Saving Tips for		For all project	available for download	
3	Households" tool	All	countries	by individuals.	EAP
	TIOUSETIOIUS LOUI	All	COULINIES	A document that will	LAI
				consist of an educational	
				programme to educate	
				advisors on how to	
				tackle energy poverty. It	
				will include the following	
				main sections: Energy	
				poverty; Energy	
				efficiency; Social issues;	
				Entrepreneurship	
	Educational "e-manual"		Cor all project		
		A 11	For all project	possibilities;	EAD
4	tool	All	countries	Communication skills	EAP
				Database with	
				information about	
				services, stakeholders	
				and actors, that can help	
				energy poor households.	
				Users will be able to find	
				help regarding social	
				issues and energy	
				issues, as well as info	
			Court		
_		A.II	Country	on various financial	F00110
5	"National contacts" tool	All	Specific	mechanisms.	FOCUS
				The webinars will be	
				directed to all the	
				stakeholders. The	
				objective is to present	
				the ICT tools for energy	
				poverty and to influence	
			Country	text-based discussion	
_	"Vidoo wahinara" taal	AII			DOOR
6	"Video webinars" tool	All	Specific	and Q&A section	DOOR
				They will be like	
				animated	
				demonstrations	
			For all project	describing how to use	
7	"Video tutorials" tool	All	countries	the tools.	DOOR
		i	i	ı	

	Video for		Country	It will represents the project, the partners and the Educational program that will be created. It will provide an overview of the different themes, communication materials and digital media. The video will be posted online with	
8	dissemination" tool	All	Specific	subtitles in all partners languages	DOOR
0	uissemmation tool	All	ореспис	They will be related to education on energy poverty and energy efficiency issues. The educational game tools will be in different formats, for example:	DOOK
	Educational Games		For all project	Quizzes, timed question	
9	Tool	All	countries	games, crosswords, etc.	UCY
				It will include different scenarios, focused on how the advisors can better react to various social situations, how to deal with potential conflict in the household they visit and how to apply their energy saving knowledge in the household setting. They will use an avatar to move in the virtual space. Energy advisors will use this game for	
10	The "role-play games"	A 11	For all project	their education.	HOV
10	tool(s) (OPTIONAL)	All	countries		UCY