

D-LeaP Capacity Development Program for improvement of Energy Efficiency in Public Utility Companies (PUCs)

First two-day workshop for PUCs in B&H

Hotel "Rekic" Bihac, Ribarska no. 1, 77000 Bihac, Bosnia and Herzegovina

10th and 11th October 2018

AGENDA

Wednesday, 10 October 2018

Time	Activity	Duration
09:00 – 09:30	<i>Session no 0: Introduction</i>	30 min
	<ul style="list-style-type: none"> ▪ Welcome speeches 	10 min
	<ul style="list-style-type: none"> ▪ Objectives, expected results and agenda 	10 min
	<ul style="list-style-type: none"> ▪ Introduction of participants and expectations by PUCs' representatives 	10 min
09:30 – 10:20	<i>Session no 1: Introduction to Energy Efficiency</i>	50 min
	<ul style="list-style-type: none"> ▪ D-LeaP Capacity Development Program for improvement of Energy Efficiency in PUCs 	15 min
	<ul style="list-style-type: none"> ▪ Energy Efficiency in water supply systems 	20 min
	<ul style="list-style-type: none"> ▪ Questions and answers, discussion 	15 min
10:20 – 11:00	<i>Session no 2: Relevant legislation</i>	40 min
	<ul style="list-style-type: none"> ▪ Relevant legislation 	15 min
	<ul style="list-style-type: none"> ▪ Motivation and barriers for improvement of Energy Efficiency in PUCs 	10 min
	<ul style="list-style-type: none"> ▪ Questions and answers, discussion 	15 min
11:00 – 11:30	Coffee break	
11:30 – 12:30	<i>Session no 3: Procedure for conducting Energy Efficiency Review of pumping systems including development of the Preliminary report on Energy Efficiency Review of pumping systems</i>	60 min
	<ul style="list-style-type: none"> ▪ Energy Efficiency Review of Pumping systems – praxis example: <ul style="list-style-type: none"> ➢ Development of questionnaire for data collection about pumping systems ➢ Step 1. Data collection (questionnaire fulfilling) ➢ Step 2. Field measurements (questionnaire fulfilling) ➢ Step 3. Data analysis (hydraulic and electrical calculations) ➢ Step 4. Identification of possibilities for energy savings + measures for energy saving 	35 min
	<ul style="list-style-type: none"> ▪ Development of Preliminary report on Energy Efficiency Review of pumping systems (report structure) 	10 min
	<ul style="list-style-type: none"> ▪ Questions and answers, discussion 	15 min
12:30 – 13:30	Lunch	

13:30 – 15:00	<i>Session no 3: Procedure for conducting Energy Efficiency Review of pumping systems including development of the Preliminary report on Energy Efficiency Review of pumping systems - Continuation</i>	90 min
	<ul style="list-style-type: none"> ■ Practical exercises: <ul style="list-style-type: none"> ➤ Analysis of electricity consumption based on electricity bills ➤ Pump hydraulic calculation 	75 min
	<ul style="list-style-type: none"> ■ Questions and answers, discussion 	15 min
15:00 – 16:30	<i>Session no 4: Equipment for thermographic measurement and measurement of mechanical, hydraulic and electrical items</i>	90 min
	<ul style="list-style-type: none"> ■ Presentation on Equipment for thermographic measurement and measurement of mechanical, hydraulic and electrical items 	15 min
	<ul style="list-style-type: none"> ■ In-class presentation of equipment and methods of its use 	60 min
	<ul style="list-style-type: none"> ■ Questions and answers, discussion 	15 min
16:30	End of first day	

Thursday, 11 October 2018

Time	Activity	Duration
09:00 – 09:15	<i>Session no 5: Review of first day of the two-day workshop</i>	15 min
09:15 – 11:45	<i>Session no 4: Equipment for thermographic measurement and measurement of mechanical, hydraulic and electrical items - continuation</i>	150 min
	<ul style="list-style-type: none"> ■ Meeting of participants and field visit to pumping station within water supply system of Bihac City 	30 min
	<ul style="list-style-type: none"> ■ Use / practical work with field measurement equipment 	90 min
	<ul style="list-style-type: none"> ■ Meeting of participants and returning to the hall where the workshop is held 	30 min
11:45 – 12:30	Coffee break and check-out from hotel	
12:30 – 13:15	<i>Session no 6: Energy Efficiency measures for improvement</i>	45 min
	<ul style="list-style-type: none"> ■ Energy Efficiency measures for improvement of existing pumping systems 	15 min
	<ul style="list-style-type: none"> ■ Energy Efficiency measures for improvement of new pumping systems 	15 min
	<ul style="list-style-type: none"> ■ Questions and answers, discussion 	15 min
13:15 – 14:00	<i>Session no 7: Next steps</i>	45 min
	<ul style="list-style-type: none"> ■ Explanation of homework and support by the certified thematic centre trainers 	15 min
	<ul style="list-style-type: none"> ■ Questions and answers, discussion 	15 min
	<ul style="list-style-type: none"> ■ Summary and evaluation 	15 min
14:00 – 15:00	Lunch	
15:00	End of two-day workshop	