



## Příloha 10. Využitý dotazník a výsledky dotazníkového šetření

### A) Dotazník pro domácnosti připojené k CZT

#### EVALUATION OF THE PROJECT UTILIZATION OF BIOMASS FOR DISTRICT HEATING SYSTEM IN IN NEMILA

I am an interviewer of the project “Utilization of renewable resources for district heating in Nemila” financed by the Czech Development Cooperation. We are currently conducting interviews to find out about your experience and benefits from the program. The answers will be processed through a database. Personal information about you and your household, your name or address will NOT be disclosed. Information from the questionnaire will be used to make general conclusions.

Q1 Name of interviewer:

Q2 Date of interview:

Q3 Random number of house:

#### A PROFILE

##### A1 Gender of respondent

M	
F	

A2 How many people live in your house (including yourself, children, and adults)?

A3 Do you live in the house during the heating season? (October – April)

Yes	
No	

#### B IMPACT

B1 Do you heat your house during the heating season only by central heating?

Yes, we use only district heating	skip B2
No, we also use partly old source of heating	continue with question B2

B2 For what reasons do you still partly use the old source of heating?

Additional heating when it is extremely cold	
The district heating is too expensive	
For heating water for washing and other use	
Other – please specify	



**B3 What fuel do/did you use in the old source of heating? (other source of energy)**

Wood or biomass	
Coal	
Heating oil	
Electricity	
Solar system	
Other – please specify	

**B4 Did you notice any improvement of the air or decrease of odor during heating season since the district heating is in operation?**

Yes, the air seems cleaner	
No improvement of air quality	
Yes, there is less odor from local chimneys	
No decrease of odor	
There has been less upper respiratory tract illnesses in my family	
Other – please specify	

**B5 Did you do any repairs/improvements on your house since you connected to district heating?**

No major repairs	
Extension of the house, which resulted in increase of heating consumption	
Repair of the internal heat distribution	
Heat insulation of walls or roof	
Replacement of windows (e.g. double glass, or windows seal)	
Other, please specify	

**C Participation in decision making**

**C1 Did you take part in the project preparation?**

No	
Yes,	
If yes, please specify how?	
<i>(e.g. giving information about the needed heat amount, contributed to agreement with other neighbors to connect)</i>	

**C2 Have you been consulted during selection of private houses for connection to central heating?**

Yes	
No	

**C3 Do you remember what were the conditions to be connected to the district heating?**



No
Yes, If yes, please list the conditions

**C4 Did you have any alternative option regarding decision to be connected to the district heating?**

No
Yes, If yes, please specify your main motivation for getting connected to the district heating

**D Visibility**

**D1 How did you get to know about the project of central heating in Nemila?**

From the newspapers	
From TV	
From neighbors	
In the pub	
From the Local authority	
From Zenica Municipality	
Meeting with Czech implementing company	
Other, please specify	

**Thank you for your time**





## B) Výsledky dotazníkového šetření

V souladu s metodou jednoduchého náhodného výběru popsanou ve vstupní zprávě, bylo osloveno s pomocí zástupců vedení obce Nemila 72 domácností z celkového počtu 83 domácností připojených k CZT. Pozn. ve vstupní zprávě je uveden počet 86 domácností, nicméně po diskusi s vedoucím teplárny se ukázalo, že tři připojené objekty nejsou rodinné domy nebo byty, ale malé obecní objekty (fotbalový klub, mešita a klub pro důchodce). Dále rozdíl mezi počtem instalovaných závislých předávacích stanic (91) a předaným seznamem 86 domácností a nebytových objektů tvoří 6 domácností, které jsou připojeny, ale teplo vůbec neodebírají, protože členové těchto domácností během topné sezóny pracovali v posledních letech v zahraničí.

Pro účely provedení šetření byl dotazník přeložen do bosenshiny. Během dotazníkového šetření, které probíhalo 2. a 3. července 2017 vyplnili dotazník zástupci všech 72 domácností. Mezi respondenty bylo 24 % žen a 76 % mužů.

Následující tabulka uvádí souhrnné výsledky odpovědi na jednotlivé otázky uvedené v dotazníku

Code	Question	Suggested answers	Results
A2	How many people live in your house (including yourself, children, and adults)?	-	In average 3,35. Min 1 - max 8
A3	Do you live in the house during the heating season? (October – April)	Yes	96 %
		No	4 %
B1	Do you heat your house during the heating season only by central heating?	Yes	71 %
		No	29 %
B2	For what reasons do you still partly use the old source of heating?	• Additional heating when it is extremely cold	15 %
		• The district heating is too expensive	19 %
		• For heating water for washing and other use	1 %
		• Other	7 % (electricity breaks, out of heating season)
B3	What fuel do/did you use in the old source of heating? (other source of energy)	• Wood or biomass	92 %
		• Coal	26 %
		• Heating oil	1 %
		• Electricity	7 %
		• Solar system	0
		• Other	1 % (partly waste)
B4	Did you notice any improvement of the air or decrease of odor during heating season since the district heating is in operation?	• Yes, the air seems cleaner	68 %
		• No improvement of air quality	17 %
		• Yes, there is less odor from local chimneys	19 %
		• No decrease of odor	4 %
		• There has been less upper respiratory tract illnesses in my family	4 %
		• Other	0
B5	Did you do any repairs/improvements on your house since you connected to district heating?	• No major repairs	57 %
		• Extension of the house, which resulted in increase of heating consumption	1 %
		• Repair of the internal heat distribution	11 %
		• Heat insulation of walls or roof	24 %



B5		<ul style="list-style-type: none"> <li>Replacement of windows (e.g. double glass, or windows seal)</li> <li>Other, please specify</li> </ul>	24 % 0
C1	Did you take part in the project preparation?	No Yes, If yes, how? (e.g. giving information about the needed heat amount, contributed to agreement with other neighbours to connect)	79 % 19 %  Negotiation of conditions, digging, project coordination
C2	Have you been consulted during selection of private houses for connection to central heating?	Yes  No	60 %  40 %
C3	Do you remember, what were the conditions to be connected to the district heating?	No Yes If yes, list the conditions	44 % 56 % Fee for connection to district heating. And 4 respondents listed also "digging"
C4	Did you have any alternative option regarding decision to be connected to the district heating?	No Yes, If yes, specify your main motivation for getting connected to the district heating	61 % 17 % Motivation listed: cheaper heating, heating the whole house, environmental protection, no need for cutting and handling wood for heating
D1	How did you get to know about the project of central heating in Nemila?	<ul style="list-style-type: none"> <li>From the newspapers</li> <li>From TV</li> <li>From neighbours</li> <li>In the pub</li> <li>From the Local authority</li> <li>From Zenica Municipality</li> <li>Meeting with Czech implementing company</li> <li>Other, please specify</li> </ul>	1,4% 1,4% 21% 4% 79% 22% 46% 0

Výsledky odpovědí z jednotlivých dotazníků jsou uvedeny v následující tabulce.

Výše uvedené výsledky jsou použity pro zodpovězení evaluačních otázek viz příloha 3 a kapitola 4 zprávy.

