Annex D

Calculation Log - Expected Energy Savings and/or Renewable Energy Production

Identification of the applicant

Name of municipality/local authority or local public entity (Name of the lead applicant in case of a grouping)	The Municipality of Krosno
Investment Sector(s) targeted (same as indicated in the application form)	Residential buildings
	Building Integrated renewables
	Innovative energy infrastructure
	Smart Grids, Public buildings, District heating, Public lighting

Summary of results

Final energy consumption before the implementation of the investment project	275,5	GWh/year
Expected final energy consumption after the implementation of the investment project	110,99	GWh/year

Expected energy savings generated from the investment project	**165**	**GWh/year**
Expected renewable energy production from the investment project	**76**	**GWh/year**

Expected CO_2 emission reduction	72910	t CO_2eq/year

Comments

Please use the space below if you have any comments on the calculations and/or results.

INTRO: Local context / energy characteristics of Krosno. About 84% of the buildings in the city of Krosno were built before 2012. The average energy demand in these buildings is 198 kWh / m2 / year. The energy consumption of the above-mentioned buildings, mainly residential, accounts for about 93% of the total energy consumption in the city. Use of fuels in sources that produce heat in a centralized manner: 12% of system heat is produced from coal and the remaining 88% comes from biomass. Currently, in the advanced stage, a project to build a RDF-based cogeneration source is being developed in Krosno, which will allow for the complete elimination of coal combustion. It is also planned to build a heat storage by 2030, which will increase the efficiency

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The data and assumptions in the excel worksheet currently refer to the scenario where Krosno has realistic and ambitious goals: a co2 reduction of a minimum of 55% by 2030 (using Fit for 55) and a co2 reduction of at least -70% by 2040 and finally if there will be needs for achieving additional savings between 2040-2050, but respectively and in according to the base year 2013, not 1990 we believe that thanks to the program from this our concept investment application, we will build a full and complete path to climate neutrality for Krosno, and the period between 2040-2050 is a backup for potential supplementary co2 reduction needs.