



## Jelenia Góra, Poland

### KAWKA - liquidation of the local heat source fired with solid fuel - the city of Jelenia Góra

#### DESCRIPTION OF THE ACTION

The main objective of the program is to reduce people's exposure to the impact of pollution, in particular PM10, PM2.5 and benzo(a)pyrene, threatening the health and life of people in zones in which there are significant exceedances of permissible and target concentration levels of these pollution and for which air protection programs have been developed.

National Fund for Environmental Protection and Water Management (NFEPWM) allocated 400 million zlotys to subsidies granted for this purpose by the Voivodship Funds for Environmental Protection and Water Management (VFEPWM).

By implementing this program in their regions, VFEPWM determines the conditions of the contest and the types of final beneficiaries who qualify to co-funding. The total amount of subsidies may be up to 90 percent of eligible costs (the remaining 10 percent must be covered by the beneficiary), of which up to 45 percent comes from NFEPWM subsidies, and another 45 percent from VFEPWM.

The beneficiaries of the majority of projects are self-governments, which allocate funds for the elimination of coal-fired heat sources in municipal buildings and houses belonging to individuals and housing communities. In many projects, the partners were local heating companies.

In most cases, the projects concerned connecting consumers previously using coal-fired boilers and ovens to urban heating, and replacing coal (individual and central) heating with gas heating. In many cases, multi-family buildings have also been subjected to thermo-modernisation in order to achieve savings in energy consumption and reduce heating costs. In several projects was planned the installation of solar collectors as emission-free sources for the production of hot water.





## PARTNERS INVOLVED

- National and Voivodeship Fund for Environmental Protection and Water Management
- Direct beneficiary - property owner
- Beneficiary of aid funds: City of Jelenia Góra

**Time period: 2013 - 2016**

### Success factors

This is the only program also targeted at individuals. It allows for support and includes a package of incentives available where the individual heating system is the main source of low emissions. The beginning of the program was preceded by an information and promotional campaign, including: publishing a brochure, organizing meetings, broadcasts on local radio and television, advertisements in the local press and on the website of the city of Jelenia Góra.

## FINANCING

<b>Investment costs Jelenia Góra</b>	<b>10.397.041 PLN = ca. 2.475.486 EUR</b>
- <b>Own sources</b>	<b>3.269.342 PLN =</b>
- participation of program participants	<b>ca. 778.415 EUR</b>
- <b>Subsidies</b>	
- VFEPWM in Wrocław (15%)	<b>1.425.550 PLN = ca. 339.416,67 EUR</b>
- NFEPWM (45%)	<b>4.276.650 PLN = ca. 1 425 500 PLN = ca.</b>
- <b>Loan - from VFEPWM in Wrocław (15%)</b>	<b>1.425.500 PLN = ca. 339.405 EUR</b>



## BARRIERS ENCOUNTERED

- Insufficient funds. Due to the very large interest in participating in the program, had to be created waiting lists.
- The decisive criterion for inclusion in the relevant list was the date when the inhabitants submitted their declaration of participation in the program. City of Jelenia Góra created regulations setting out detailed rules for granting co-financing.

## KEY RESULTS

- Estimated reduction of CO<sub>2</sub> emissions
- Reduction of low emissions through the elimination of over 500 sources fired by solid fuels.
- Estimated reduction of CO<sub>2</sub> emissions: 134,000 Mg / year

Liquidation of emissions	PM 10 [Mg/year]	PM 2,5 [Mg/year]	CO <sub>2</sub> [Mg/year]
EFFECT Proposal I	2,47	2,34	296,60
EFFECT Proposal II	1,41	1,34	144,70
EFFECT Proposal III	1,47	1,39	149,64
EFFECT Proposal IV	3,72	3,53	372,11
EFFECT Proposal V	2,84	2,70	295,71
EFFECT Proposal VI	5,39	5,11	1344,99
EFFECT Proposal VII	4,99	4,71	515,15
<b>Sum</b>	<b>22,28</b>	<b>21,12</b>	<b>3118,90</b>


One of the results of the project was the thermomodernization of the building of the social welfare house "Pogodna jesień". Thermomodernization works for the entire building was performed, the roof was insulated.





## KEY RESULTS

	Number of units [pcs.]	Value of co- financing [PLN]	The number of decommissioned coal / coke furnaces [pcs.]
Proposal I	28	274 967,00	56
Proposal I - <u>thermomodernisation of</u> building DPS " <u>Pogodna</u> <u>Jesień</u> " st. Lesna 3	-	680 000,00	-
Proposal II	35	308 016,74	53
Proposal III	36	392 282,92	59
Proposal IV	102	1 043 246,51	155
Proposal V	79	795 748,33	128
Proposal V - <u>thermomodernisation of</u> building st. <u>Chrobrego</u> 9	-	54 129,81	-
Proposal VI	163	1 733 264,49	270
Proposal VI - connection to the heating network st. <u>Grottgera</u> 6	-	13 221,28	-
Proposal VI - <u>thermomodernisation of</u> building st. <u>Boguslawskiego</u> 26	-	76 798,38	-
Proposal VII	154	1 756 023,61	235
<b>Sum</b>	<b>599</b>	<b>7 127 699,07</b>	<b>956</b>

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 <http://jeleniagora.pl/content/kawka-likwidacja-lokalnego-%C5%BAr%C3%B3d%C5%82-ciep%C5%82-opalanego-paliwem-sta%C5%82ym-1>