

EXECUTIVE SUMMARY

Feasibility Study (FS): Reconstruction of a part of the existing building nr 3 of the Specialist's Hospital of Henryk Klimontowicz in Gorlice, in order to install a high efficient cogeneration system, based on internal-combustion engines.

The FS aims to answer the question if the proposed project is economically and socially viable, concerning the planned technical and construction solutions as well as social and financial opportunities.

Identified problems

Problems of public institutions' functioning are caused, mainly, by the lack of sufficient financial resources. In case of the health care institutions the necessary financial savings directly and negatively affect patients' welfare and number of the health care services they are being offered.

Constantly growing maintenance costs are connected, among other reasons, with growing costs of media supply, including electric energy supply. In addition to this, energy consumer (the hospital) becomes dependent on the energy supplier and forced to cover the total costs of energy purchase and transfer. In case of the Specialist's Hospital of Henryk Klimontowicz in Gorlice, in 2012 these costs reached the level of 1782327 PLN.

The problem of energy costs' reduction in a health care institution requires a broader approach. The current system of the health sector financing is based on payments for particular medical procedures, which means, payments for the whole course of actions intended to achieve a result in the care of persons with health problems, and not payments for general costs connected with providing the medical procedures. In the end, any savings achieved through general costs reduction can be used to cover the direct health care costs. That mechanism improves both, the quality of the health care system, as well as its availability for the local community. In our case "local community" means citizens of the gorlicki county/region.

To understand properly the air protection problems of the Małopolska Region, it's necessary to mention that, in 2011, the total emission of particulates reached there 3,9 thousands of tones (0,3 t per 1 km²), which means 6,8% of the total country emission (the average emission in Poland is 0,2 t per 1 km²). The highest level of emission was observed in the city of Krakow (1,9 th t/a) as almost 50% of the total emission of the whole Małopolska Region. Next in the ranking are the chrzanowski county (17,0%) and the city of Tarnów (7,0%). In case of the emission of gas pollutants the leading position still belongs to Krakow (43,6% of the total emission in the region) and the next are again the chrzanowski county (23,1,0%) and the city of Tarnów (10,6%).

The air pollution contamination caused by the electric energy production is concerned as the most significant, countrywide problem, affecting both the supply and demand side of the energy market.

The above identified problem resulted in formulating the following environmental objectives that are addressed in the FS:

Main objective: Improving environmental conditions and reduction of air pollution in the result of using the poligeneration installation in the heat and power system of the Specialist's Hospital of Henryk Klimontowicz in Gorlice.

Specific objectives: Modernization of the existing heat and power system of the Specialist's Hospital of Henryk Klimontowicz in Gorlice through using the poligeneration installation, in order to:

- reduce the emission of the air pollution, including CO₂ emission;
- reduce the hospital's operational costs through reducing its electric energy purchase costs;
- improve the environmental conditions in the Małopolska Region and promote pro-ecological initiatives, undertaken by public institutions.

The FS covers the following themes:

1 Information on the project

- Title;
- Location;
- Analysis of social and economical environment of the project: Direct, social and ecological impacts' assessment;
- Analysis of project final beneficiaries;
- Identified problems;
- Intervention logic: Project's objectives; Impacts; Project's compatibility with strategic documents; Products/results of the project implementation;
- Institutional analysis: Institutional feasibility of the project; Legal status of the beneficiary; Project's sustainability;

2 Technical and technological analysis

- Description of the current, pre-modernization state: technical section; compressor room; hydrophore plant; ambulances garage;
- Scope of the modernization works of the above places, including modernization of the heat source.

3 Financial analysis

- Sources of the investment financing;
- Financial prognoses: Prognoses' assumptions; Assets' prognosis; Liabilities' prognosis; Profit and loss account prognosis; Cash flow prognosis; Return on investment;

4 Summary and recommendations

Legal notes:

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