

**DESIGN AND BUILD UP OF A
COGENERATION
INSTALLATION FOR
UTILIZATION OF
ACCUMULATED BIOGAS AT
THE SUHODOL LANDFILL**

General Part

The pilot project is included in the project package of the programme “Local Agenda 21- Sustainable Sofia”, which is approved in the Sofia Regional Development Plan - №20, code 6-SOFXX-226.

Environmental problems and conflicts

- a) Biogas generation that besides air pollution, has a self-ignition and explosion hazard;
- b) The unsolved environmental problems have provoked with good reasons protests from non-governmental organizations and complaints from the residents in Suhodol area during the last few years.

Goals

Main goal

Implementation of a pilot project, including capture of the accumulated biogas and its use as a fuel for a co-generation installation for heat and electrical energy production; Other goals – establishment of support economy – greenhouses, cold stores, dry houses;

Expected outcomes:

The project implementation will have a positive economical, environmental and a social effect, that consists in :

- c) Utilization of the generated biogas for heat and electrical energy production;
- d) Electrical energy and fuel savings for the near-by populated area and for the city as a whole;
- e) Air pollution decrease;
- f) Elimination of self-ignition and explosion hazard;
- g) Opportunity for establishing a support economy– greenhouses flowers and vegetables; dry house and cold stores building;
- h) Provision of extra work places;

Description of activities

1. Realization of study and soundings;
2. Study of existing practices and co-generation installations, coupled with heat pumps and creation of a data base- necessary for the project preparation;
3. Contract and preparation of technical project for infrastructure, buildings, technical equipment and supervision.
4. Set the method of financing, resource provision and determine the construction organization;
5. Project stages of implementation and supervision;
6. Connection of the installation with the electricity carrying network;
7. A one-year trial period of the installation for testing the installation and its safety and efficiency.

Budget

The preliminary approximate assessment for the necessary budget is 5 mill. Euro.

Technical activity, soundings, including design EURO	80 000
Construction infrastructure	3 400 000
Supply, equipment assembly, EURO	1 350 000
Mount and start, technical and operation tests	50 000
Total EURO	4 880 000

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