# UTILISATION OF ALTERNATIVE ENERGY

**Clients:** Investors
Industries
Municipalities

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**Tags:** Alternative energy
Wind energy
Wind farm
Biogas
Environmental Impact Assessment
Feasibility Study

We assessed the environmental impacts of the deployment of 20 pieces of VESTAS V90 type wind turbine units (P=2.0 MW each) to be placed in a distance of 1000-2300 m from built-up area. The environmental impacts of high importance are the noise, the biosphere and the landscape. We examined the noise and infrasound emission by calculations based on background measurements. Separate faunistic and floral inventory was made on the area with special regards to the birds. The obvious environmental impacts (especially on the fauna and landscape) of the wind farm will not block the feasibility of the project in case of due foresight planning,

The biogas energy recovery are coming to the front due to the rapid increase in the prices of the traditional hydrocarbons. In Petőháza Sugar Factory of Hungarian Sugar Inc we examined on the study plan level the different possibilities of the digesting of the various sugar manufacturing wastes, by adapting the existing heavy oil tanks and building the necessary technological facilities. Depending on the type of wastes a considerable amount of biogas production is possible, which can partly replace the natural gas used for heating the technology and can be used for the generation of “green” electric power.

**Related references:**

- *Pre-Feasibility Study of Kisfalud Wind Farm*
- *Study plan on biogas generation by digesting in the Petőháza Sugar Factory of Hungarian Sugar Inc*
- *Environmental Impact Assessment of five wind farms to be installed in the vicinity of Győr-Hegyeshalom*
- *Utilisation of geothermal energy in distant heating of City of Gödöllő — preparation of complex feasibility study*

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