



SUCCESS STORY

Project: Construction of CHP biogas unit
Company: Construction Company



A construction firm decided to use a PolSEFF loan to build a biogas unit with a capacity of 0.78 MW on a grain farm to improve local energy balance and contribute to the stable operation of the local distribution network. The plant will be located on the farm and use the rye and corn harvested there for silage production. The heat generated in the plant will be employed for farm usage (grain storage and drying). The plant applies innovative NaWaro technology, in which biogas production occurs as part of a natural, biological fermentation process. Moist biomass is decomposed in special containers (fermenters) using exact dosages of micro-organisms. The biogas is converted into electricity in the combined heat and power station (CHP) and residues from the fermentation process will be refined and returned to the fields in order to insure and improve the balance of humus.



The Company

Main activities	Construction of small CHP biogas units
Project location	Northern Poland

Project goals and main investment

Main investment	Construction of CHP biogas unit to be fuelled with silage produced from local grain.
Project goals	To efficiently generate sustainable energy in CHP mode using local resources.
Investment size	€1,250,000

Expected results

Operational results	<ul style="list-style-type: none"> - Annual electricity generation of 4,270.5 MWh - Annual heat generation of 1,086.8 MWh - Annual generation of electricity (per €1 of CAPEX) of 4,28 kWh
Financial results	<ul style="list-style-type: none"> - IRR of 25%

