

Biomass Conversion of District Heating Networks

The strategic objective of Poland is to increase the share of energy from renewable energy sources (RES) in primary energy balance to 7.5% by 2010 and to 14% by 2020. That means generation of 340 PJ from RES in 2010 (growth of 235 PJ compared to 1999). Achieving mentioned capacities would require implementation of many new instruments and measures in different RES sub-sectors.

Biomass is the most promising renewable source of energy in Poland. Its technical potential is estimated at 895 PJ/year.

The numbers of small and medium size projects towards biomass heating systems establishment are being planned by public sector and private investors.

Case 1

School complex in Tykocin owned by municipality.

The planned investment concerns the replacement of existing coal fuelled boilers by biomass boiler station accompanied by heat network modernisation and thermo-modernisation of buildings that enable to decrease significantly the heat demand.

Case 2

The biomass heating system is planned for one new building and to replace oil and gas heating in existing buildings that belongs to private FIN company in Kolbuszowa.

Technical Description

Case 1

Heat demand	670617 kWh/yeaqr
Energy demand for hot water	73440 kWh/year
Maximum of installed power for heating	344 kW
Maximum installed power for hot water production	68 kW
Fuel: wood chips locally produced from wood wastes of caloric value 12.3 MJ/kg and water content 30%	
3 boilers of 125 kW are being planned to be established to cover the requested heat demand.	

Case 2

Boiler installed power

300 kW

Financial Details

Case 1

Total Investment costs: 91,000 Euro

Case 2

Total investment costs: 33,000 Euro



REPROMO Project Idea



REPROMO Partners

ENVIROS, Czech Republic

Estonian Biomass Association

ETA – Renewable Energies

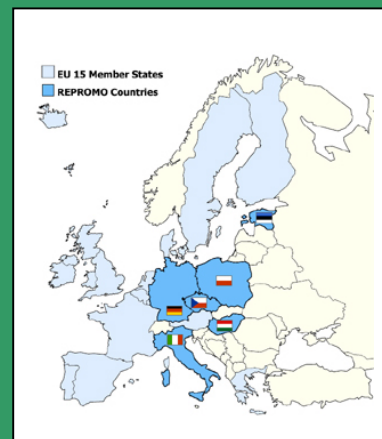
European Biomass Industry Association

European PV Industry Association

GEONARDO, Hungary

KAPE, Poland

WIP – Renewable Energies



Next Steps: financing engineering for will be worked out



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