RES:

- ☐ Solar thermal
- ☐ PV
- ☐ Biogas
- ☐ Heat pumps
- ☐ Biomass
- ☐ Absorption chiller
- ☐ Wind
- ☐

Changes in the production and energy supply:

- ☑ Process optimisation
- ☐ Process intensification
- ☑ Heat integration
- ☐ Storage
- ☑ Energy efficiency
- ☐ solar integration
- ☐ Biobased products
- ☐ Emerging technologies
- ☐ Cleaner production
- ☐

Unit operations:

- ☑ Cleaning
- ☐ Drying
- ☐ Evaporation and distillation
- ☐ Blanching
- ☐ Pasteurization
- ☑ Sterilization
- ☐ Cooking
- ☐ Other process heating
- ☑ General process heating
- ☐ Heating of production halls
- ☐ Cooling of production halls
- ☑ Cooling processes
- ☐ Melting
- ☐ Extraction
- ☐ Bleaching
- ☐

GREEN FOODS

Project name: Company B (confidential)

Project description:

The objectives was to reduce the energy waste on the media supply with special focus on the internal distribution network, to analyse profitability of replacement or modernisation of current heat source, to identify possible energy savings from process modifications, to develop a heat recovery concept, to optimise the working parameters of equipment related to heat production and consumption and to verify energy efficiency of cooling system.

Sector: food & beverages	Sub sector: meat
Country: Poland	Company scale: Large (>= 250 people and/or >= 50 mio€ turnover)

Investigated Company:	product output	meat: 1,241,000	tons/a
Company B, production: 3 shift / 24h per day / 7 days per week / 310 days per year	product output	ham, bacon, sausage: 1,861,500	tons/a
	product output		tons/a
	product output		tons/a
Employees: 575	Turn over: not specified		

Unit operations involved:	Temperature and Energy demand [°C, MWh/a]:	Equipment for heat/cooling generation:
cleaning, sterilization, general process heating, cooling processes	electricity: 18,437 MWh/a	coal-fired boilers, electricity
Process optimisation:	**System optimisation:**	**Energy supply technology:**
heat and cold supply optimization	heat recovery, production of electricity for cooling processes	2 gas boilers (steam, 2MW), 2 gas boilers (water, 3MW) with a co-generation unit producing hot water
Energy saved [%, MWh/a]:	**Fossil energy saved [%, MWh/a]:**	**CO2 emissions saved [%, t/a]:**
electricity: 9,380 MWh	coal: 43,161 MWh/a	12,492 t/a
Link to further information:	**Co-ordinator, realising partner:**	**Filling in person:**
-	KAPE, Company B	AEE INTEC