

## **Case study: GMS GOURMET GmbH – Vienna, Austria**

### **Waste heat utilization of two fast cooling plants to support the heat supply of the main ventilation system in the production site of a supplier of community catering**

The Investor Confidence Project's Investor Ready Energy Efficiency™ certification has been awarded to a waste heat utilisation project at GMS GOURMET GmbH.

#### Project description:



*Photocredit: GOURMET*

The pilot project is implemented at the production site of GOURMET in Vienna and uses the ICP Europe Complex Industry Protocol. The energy conservation measure (ECM) will use the waste heat of two fast cooling plants (by means of heat exchangers in the hot gas tube with partially condensation) to support the heating demand of three ventilation systems located in the immediate vicinity in the engineering room at the top floor of the facility.

Apart from the reduction in natural gas demand due to reduced heat demand, the implementation of the ECM also reduces electricity demand of the multicompressor refrigeration systems by increasing their energy efficiency ratio (EER) during summer. A combination of IPMVP option C “Whole Facility” (for natural gas savings) and Option B “Retrofit Isolation: All Parameter Measurement” (for electricity savings) was chosen for the project.

#### Project partners:



*Project owner: GMS GOURMET GmbH*

The pilot project was implemented at GMS GOURMET GmbH (“GOURMET”), an Austrian supplier of community catering with about 1,500 employees. GOURMET operates company restaurants throughout Austria, cafes and restaurants in Vienna and two large kitchens in Vienna and St. Poelten.

*Project developer: denkstatt & enerotec GmbH*

denkstatt & enerotec GmbH („denkstatt & enerotec“) is a Vienna-based consultancy active in the fields of energy management and energy efficiency and specialised in energy analysis, conceptualisation of individual energy solutions (including technical implementation), realisation of energy concepts and energy optimisation.

*In-country advocate: denkstatt GmbH*

denkstatt GmbH (“denkstatt”) is a leading sustainability consultancy in Central and Eastern Europe and headquartered in Vienna. The company is an advisor on natural, social, human and financial capital and the Austrian partner in the Investor Confidence Project (ICP) Europe project consortium.

*Quality assurance assessor: Verco*

Verco is a sustainability and climate change consultancy, based in the UK, with 27 years of experience with focus on low carbon growth, energy efficiency and clean energy development, including experience of developing finance programmes. Its two main roles on the ICP Europe consortium are to provide EU-wide technical support, and to provide in-country advocacy for the project in the UK.

Application of ICP:



The project was developed by denkstatt & enertec who provided baselining and energy savings calculations and also developed the OPV, OM&M and M&V plans. The project’s Quality Assurance Provider is Verco. Working closely with denkstatt & enertec, they have together applied the Complex Industry Protocol. This process was carried out after the project planning phase and denkstatt & enertec’s documentation for the project was found to be ICP compliant.

The project has predicted annual energy savings of 635 MWh in natural gas and 135 MWh in electricity. A payback period of 6.3 years is calculated. The project is implemented by ENGIE and financed by GOURMET which also applied for an environmental subsidy from the Austrian Ministry for Sustainability and Tourism for the project.

Quotes:

*“As a responsible company we treat the earth’s natural resources with care and continuously work on improving efficiency and standards.”*

Hannes Hasibar, Managing Director GOURMET

*“The application of ICP in our industry projects gives the project owner even more robust, independently verified savings calculations and an additional level of quality assurance. Moreover, it puts more focus on proper project implementation in addition to project development.”*

Christian Schuetzenhofer, Managing Director, denkstatt & enertec

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