



Glockenbrot bakery
in Bergkirchen close to Munich



GfA Waste-to-Energy plant
in Olching

PRO PLANET label given to bread production using district heating from a Waste-to-Energy plant

Baking bread and other pastries requires not only electrical, but also thermal energy. Next to the baking process, quite a few supporting processes like the conditioning steam, fermenting vessels and others add to the enormous energy demand of such plants.

For these reasons, the REWE group (a big German supermarket chain) has branded certain types of bread with a special label that indicates an energy-saving production process. (www.proplanet-label.com).

These products are produced in the Glockenbrot bakery in Bergkirchen close to Munich.

The bakery has introduced new cutting edge energy efficient production processes reducing the energy demand to 70% of conventional production systems.

Using heat recovery and state-of-the-art cooling systems is the conventional part of this energy saving philosophy. **Using the nearby waste-to-energy-plant for district heating and steam supply is the revolutionary one.**

Apart from the core process of baking, the new facility in Bergkirchen completely avoids the use of fossil fuel oil. And all the electricity used by the facility is certified "Green electricity".

Due to these innovative techniques the Bergkirchen bakery emits 46% less greenhouse gases than traditional bakeries.

(Source: <http://www.proplanet-label.com/produkte/rewe/brot-und-backwaren.html>)

General information on the Waste-to-Energy plant in Olching (GfA), Germany

3 incineration lines process approximately 110,000 tonnes of residual waste per year.

The plant generates 48 MW of electricity and 28 MW of heat.

<http://www.gfa-online.com/index.php>