

# GETEC GREEN STEAM



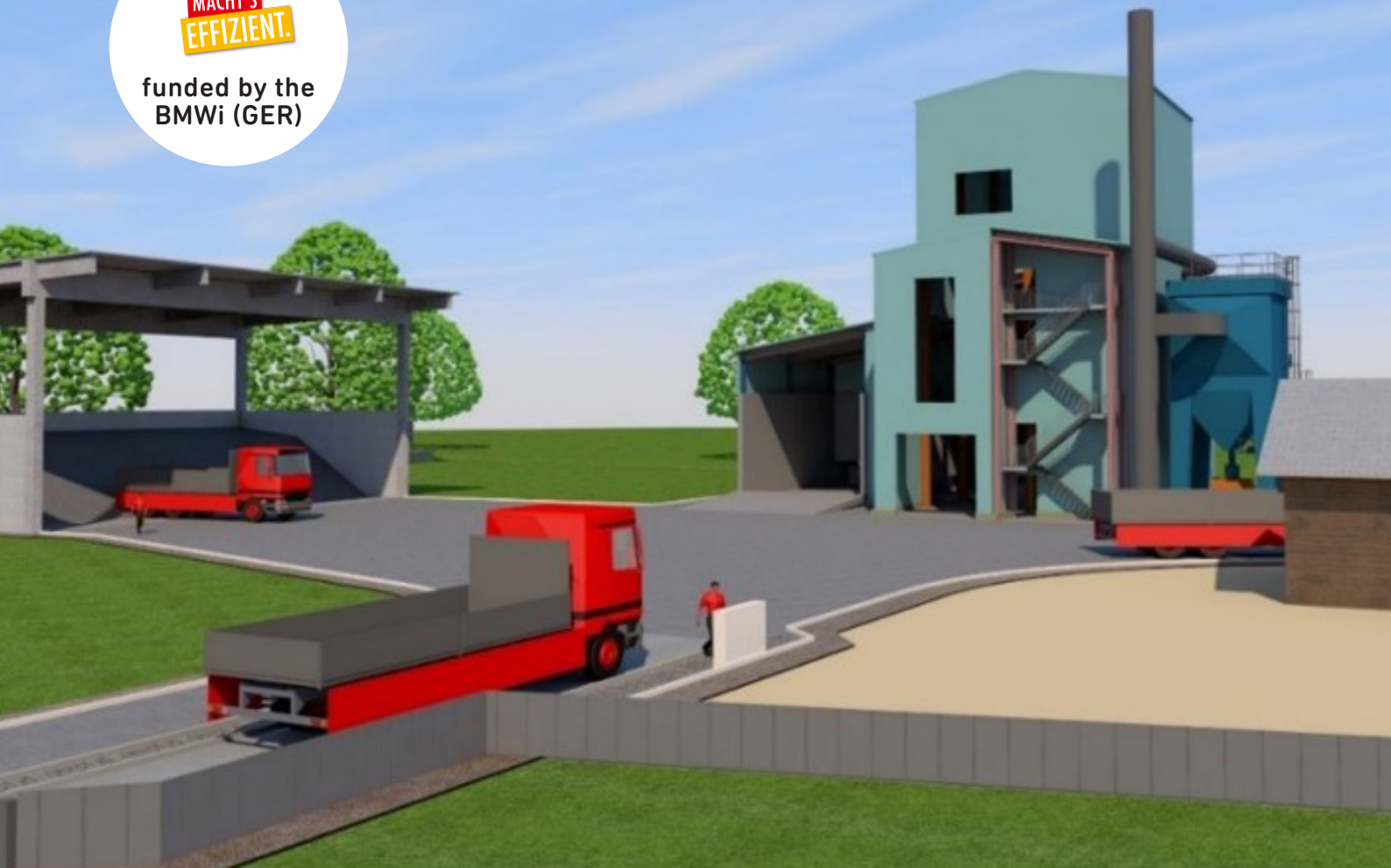
GETEC

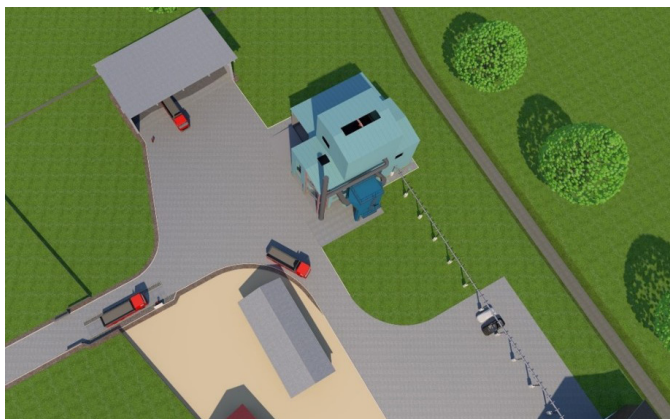
Paper Industry:  
Köhlerpappen, Gengenbach (Germany)

ENERGY FOR MORE.

DEUTSCHLAND  
MACHT'S  
EFFIZIENT.

funded by the  
BMW i (GER)





Visualisation top view of biomass cogeneration plant.



Fuel: Forest chips from regional production.

## THE CUSTOMER

Köhlerpappen GmbH manufactures cardboard in Gengenbach for puzzles, books, furniture and more. In addition to waste paper, alternative raw materials such as grass cuttings and wood pulp are used. This results in high-quality premium products and has been doing so for 150 years.

## THE CHALLENGE

Due to the high energy demand in production, Köhlerpappen commissioned GETEC back in 2013 for energy and heat generation in the form of a pulverised lignite plant. In 2020, the CO2 pricing and ambitious CO2 reduction targets of the cardboard manufacturer Köhlerpappen were the reason for the joint search for a new, more sustainable and economical energy supply concept.

## THE SOLUTION

To replace the pulverised lignite plant, GETEC is currently building a biomass heating plant with a thermal output of 8 MW or 12 t/h of process steam. The CHP unit built in 2013 will remain in place as a supplement for energy generation. A gas boiler serves as redundancy. In addition, a peak load boiler for a further 5 t/h will be installed. From 2023, the new biomass heating plant will save a good 19,000 tonnes of CO2 per year and generate energy in an almost climate-neutral manner. The project was funded by the Federal Ministry for Economic Affairs and Energy (BMWi).

## SCOPE OF SUPPLY AND SERVICES

- Project Development
- Permitting
- Engineering and plant installation
- Financing
- Supply of steam and power
- Operation and Maintenance
- Energy Management

### PLANT DATA

Supply with:	Steam
Energy source:	woodchips
Components:	Biomass Boiler (65 MW <sub>th</sub> )
Installed Capacity:	8 MW <sub>th</sub> 12 t/h Steam
Further components:	CHP (2.1 MW <sub>el</sub>   2.2 MW <sub>th</sub> ) Gas boiler as redundancy Peak load boiler



„Since 2013, we have had a partner in GETEC who is very reliable and who is now also on our way to renewable energies.“

### THOMAS DÖRFER

Technical Manager/Prokurist, Köhlerpappen GmbH