

Green energy for a zoo

AN AGENITOR 406 SUPPORTS AN „ENERGY CONSERVATION ZOO“

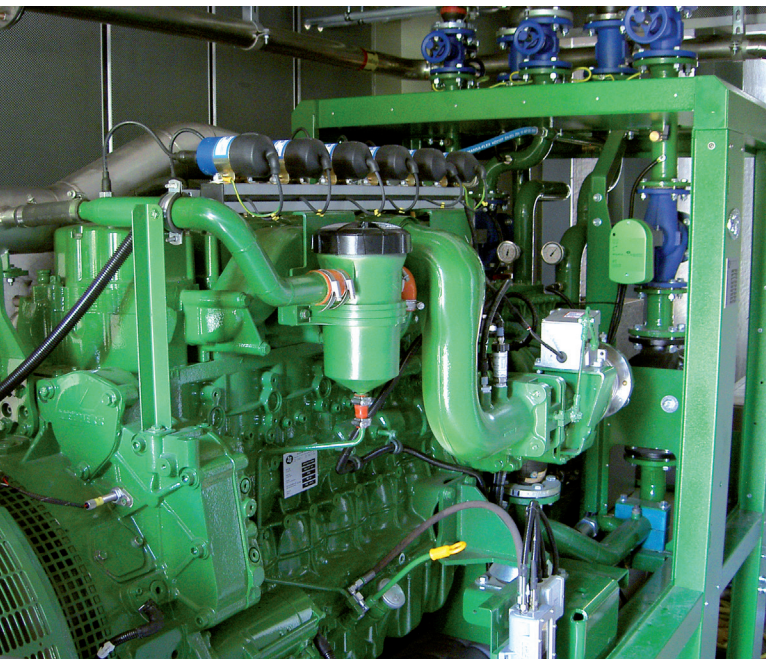


The Osnabrück Zoo was founded by the consortium Heimattiergarten e. V. Osnabrück in 1936. Over the years, the zoo has become home to more than 300 species of animals from all over the world and, with over one million visitors each year, one of the most popular zoos in Germany.

Osnabrück “Energy Conservation Zoo” campaign

Housing this many animals all year round at the Osnabrück Zoo requires large amounts of energy. After all, specially designed and air-conditioned habitats must be created in order to accommodate the widely different needs of the various species. The “Energy Conservation Zoo” campaign was launched in 2009 to rectify structural shortcomings in the buildings and

keep energy costs down. Initial small-scale measures introduced in 2009 already saved € 68,200 in energy expenses. They also reduced carbon dioxide emissions by roughly 250 tons. After several successful years with a positive response, the decision to use a CHP plant was the logical consequence.



Front runner in efficiency

The newly installed combined heat and power plant blends in seamlessly with the new conditions of its surroundings: the agenitor 406 feeds electricity into the general supply grid and heats the Takamanda Africa area, the museum and other buildings.

With its electrical efficiency rating of 42.5%, the agenitor 406 is one of 2G's efficiency leaders. The engine takes advantage of the benefits of the 4-valve technology, which enables better gas exchange and more efficient combustion. The module is also equipped with high-performance steel pistons, which significantly reduce heat losses during the combustion process and minimize friction, which is detrimental to efficiency.



Zoo Osnabrück gGmbH

zoo-osnabrueck.de

agenitor 406

Natural gas

250 kW electrical

268 kW thermal

Container solution

