

Biogas Installation Eiterfeld, Germany

In October 2008, Greenenvironment Ltd., Capstone's distributor in Germany, commissioned the world's first Capstone CR200 MicroTurbine™ power plant running on biogas in a farm in Eiterfeld (Germany), near Frankfurt. In this installation, the farmer uses the heat generated by the CR200 microturbine power plant for heating his fermenters as well as heating his house and barn buildings.

In addition, Greenenvironment installed three CR65 microturbines in the village school near this farm. A 2.1 kilometer biogas line from the farm was needed to bring the biogas to the school. The microturbines generate an electrical output of 195kW and a thermal output of 330kW. The heat is used to warm the school of 1,200 students. Due to the low noise level of 65 dBA, a microturbine can be installed without any difficulty in the boiler room of the school. As a result of this installation, the students are learning in warm classrooms, and the school is reducing their heating costs while helping to save the environment. ■



Capstone's CR200 microturbine provides up to 200 kW of power.