

# **Energy Village Wendlinghausen**

## **nationwide project for renewable energies.**

This project is part of a cooperation of the public works council. Through the decentralized extraction and use of energy, plus the heat recovery, important sustainable climate protection goals are realised.

The 760 KW renewable biogas plant is built with 120 citizens, who invested in a fund set up for this specific biogas project. Investors are able to let their money “work” in an environmentally proactive way.

In addition to the Wendlinghausen Estate, forty houses, a lumber mill, various business facilities and an additional 20 newly built single-family homes are completely supplied by the decentralized heating network.

“Am Schlosspark”, an area directly adjoining the castle and the famous park, 20 single-family “smart” energy homes will be built. These are designed for young families and built according to the most modern techniques in resource saving.

Solar panels are found on the rooftops of the Wendlinghausen Estate, on newly built carports and on an open-air plot (about 5 hectares). These solar collectors produce 3,5 MW electricity every year and avoid CO<sub>2</sub> emissions.

Nearly 60.000 visitors come to the Castle and Estate Wendlinghausen each year. These visitors participate in several exciting events. Through information booths, tours and events, these visitors are informed about the entire project. Music-, art- and literature- events will continue to raise public awareness concerning the importance of environmental protection.

At the organic farm Wendlinghausen ( 350 hectares farmland and 100 hectares forest) every potential to save resources will be applied and analyzed. After the collection data provides information, it will be compared to conventional and organic farming.

The historically preserved Weser Renaissance Castle Wendlinghausen (1613-1616) is part of an research project focusing on energy efficiency and monitoring the loss of heat. Results will be later analyzed according to the results insulation measures will be implemented.

Through private investors this climate sensitive “Energy Village Wendlinghausen”, has been realized with an total investment of approximately € 20,- Mio. Here local sustainable climate goals are reached in a very innovative, environmentally - friendly way.