

St. Joseph Hospital Prum Rheinland-Pfalz, Germany

St. Joseph Hospital in Prum Rheinland-Pfalz, Germany is located in the Natural Forest Eifel. It is a regional hospital with 153 beds that serves approximately 5,000 patients per year. A part of the hospital is a recreation center with indoor swimming pool and physiotherapy practice. In 2006, St. Joseph became the first hospital in West Germany to install a Capstone C65 MicroTurbine® for combined heat and power (CHP) application. The unit produces in peak 65kW electric power and 122kW thermal power and achieves a total efficiency of 85%. The unit, which is running in thermal load and saving base load of electricity and thermal power, is also saving US\$37,500 annually for the hospital. Now the hospital is planning to install a second unit coupled with an absorption chilling system (CCHP) so that the hospital will become a model of efficient and cost-optimized green hospital in Germany.

St. Joseph Hospital is an excellent example of Capstone's CHP systems, designed by E-quad Power Systems GmbH, the distributor for Capstone Turbine's CHP and CCHP systems in Germany. ■



A Capstone C65 microturbine produces electrical and thermal power at St. Joseph Hospital in Germany.