



## CHP UNIT INSTALLATION at Woodstock Hospital

Buildings such as hospitals and clinics often consume a lot of electricity and heat. Both of these energies can be produced economically in cogeneration units. TEDOM as a leading manufacturer of cogeneration units, has installed over 140 cogeneration units in hospital facilities in more than 17 countries in Europe. Also TEDOM delivered almost 100 units in North America during last 5 years. One of these CHP units was delivered to the hospital in Woodstock, Canada.

"It is like a car engine but it uses natural gas and instead of turning the wheels, it turns an alternator that produces electricity for the hospital." Christopher Marion / Director Capital Projects at Woodstock General Hospital

In addition to electricity, the CHP unit also produces heat for use directly in the hospital. At the same time, it also cleans exhaust emissions, making the entire production environmentally friendly. The return on investment of this CHP in Woodstock hospital is estimated at 5 years and the lifetime of the plant with this CHP at 20 and more years.

<b>CHP unit type</b>	TEDOM Quanto 1200 kW
<b>Fuel</b>	Natural Gas
<b>Electrical Output</b>	999 kW
<b>Heat Output</b>	1024 kW
<b>Total Efficiency (LHV)</b>	86,8 %
<b>Commissioning Date</b>	March 2019
<b>Place of installation</b>	Woodstock, Canada



Combined heat and power production, also known as cogeneration, is an electricity production method that utilizes the heat released by the electricity production process in a useful manner. In doing so, a high utilisation efficiency of the energy from fuel is attained when the fuel is mostly a natural gas, LPG or biogas. Cogeneration pays off where demands for higher supplies of heat or cold exist. The power generated in the CHP unit can be utilised for the plant's own consumption or it can be distributed to the power grid.