

TEDOM COGENERATION UNITS IN SCHOOLS

Application of CHP units in the school facilities brings significant reduction of costs for heating and consumption of power in the buildings. It is just for the savings during development or reconstruction why numerous schools opt for introduction of the cogeneration technology. This fact is testified by a lot of schools both in the Czech Republic and abroad.

THE CHARLOTTA MASARYKOVA PRIMARY SCHOOL IN VELKA CHUCHLE



The Charlotta Masarykova Primary School in Velka Chuchle was tipped out of ten primary schools that faced the urgency to reconstruct their outdated and unsatisfactory heat supply source. Under the boiler room refurbishment, a Micro T30 CHP unit and two gas boilers of the power of 146 kWt were installed. An accumulation tank of a capacity of 0.8 m³ was installed to provide heat during off- season and to compensate for the disproportion between heat production and consumption.

Basic Information on the Installed Unit

CHP unit type	Micro T30
Number of units	1
Fuel	Natural gas
Electrical output	30 kW
Heat output	62 kW
Annual heat production	650 GJ
Annual power production	85 000 kWh
Year of installation	2011
Place of installation	Velká Chuchle, CZ

Benefits of TEDOM cogeneration unit

The boiler room modernization supplied the primary school with heat at annual cost ranging tens of thousands Czech Crowns lower. The school may use the funds for financing higher quality education for its own pupils.

SELECTED REFERENCES FROM SCHOOLS



High school Sonthofen, Germany

CHP unit type: Cento M50 SP
Electrical output: 50 kW
Year of installation: 2012



Secondary School, Prešov, Slovakia

CHP unit type: Micro T30 SPE
Electrical output: 30 kW
Year of installation: 2011



Albrecht-Dürer-School, Meckenbeuren, Germany

CHP unit type: Premi F25 AP
Electrical output: 25 kW
Year of installation: 2006



Wieland-High school, Biberach, Germany

CHP unit type: Micro T25 AT
Electrical output: 25 kW
Year of installation: 2008

Other references:

- Cento T120 SP CON, University, Blackrock, Ireland
- Quanto D580 SP, University, Ancona, Italy
- 3x Micro T30 AP, Primary school, Trzic, Slovenia
- Cento T80 SP, University, Wien, Austria
- Micro T25 AP, Primary school, Narni, Italy
- Premi F25 AP, College, Kroměříž, CZ
- Micro F25 AP, Primary school, Meckenbeuern, Germany
- Cento T150 SPE, University VŠCHT, Brno, CZ
- Premi S 22 AP, Primary school, Rütli, Switzerland
- Premi Twin 22, Primary school, Wien, Austria
- Premi 22 AP, Primary school, Salcininkai, Lithuania
- Plus 22 SP, Primary school, Marné de la Vallée, France
- Premi 22 SP, Primary school, Markvartice, CZ
- Cento L150 SPI, University Rustika, Kišiněv, Moldova