

MicroCHeaP First annual meeting
FORCE Technology, Lyngby, Denmark
28th and 29th September 2005

IUAV University activities on CHP

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EU funded project SOSYEM Developing an optimized control system for CHP

IUAV University of Venice

global model of building and plants

University of Trieste

optimization model

Aitemin - Madrid

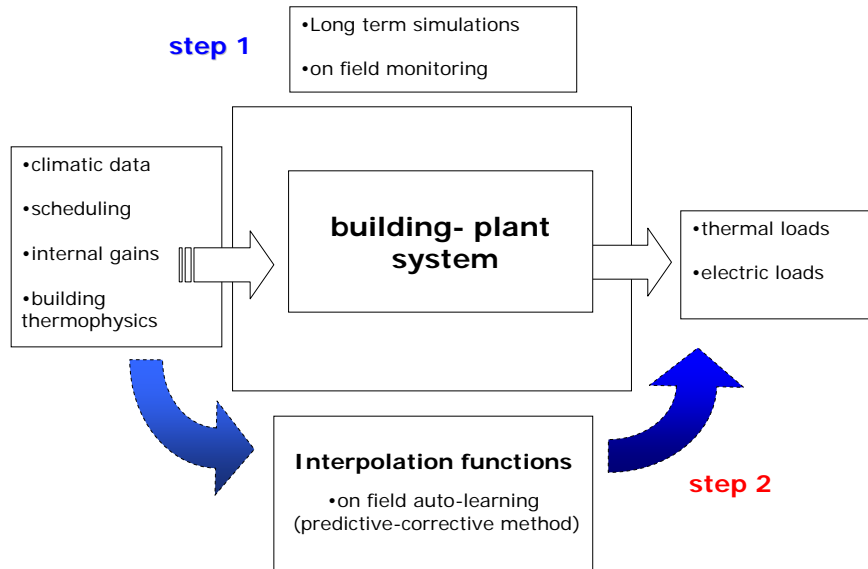
software and hardware control system development

SMEs from Italy, Germany, Austria

from field informations and experiences

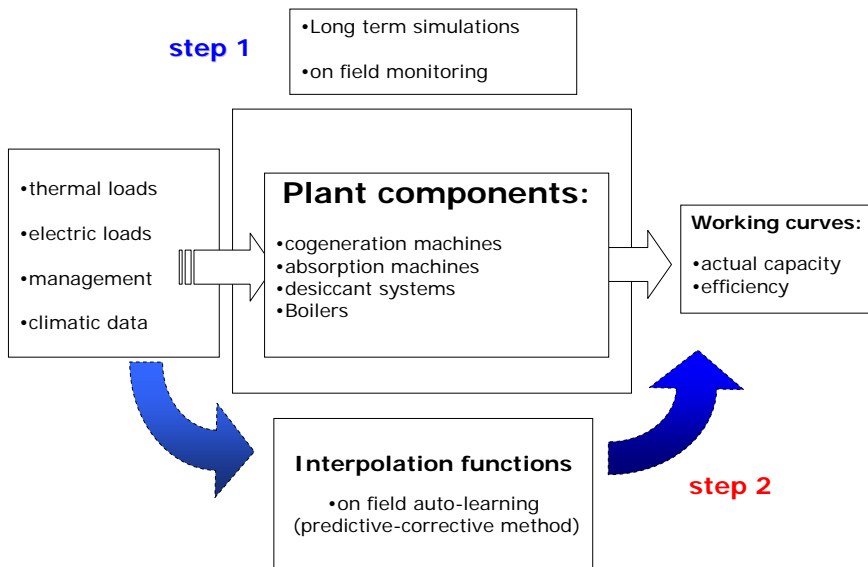
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Developing a model to evaluate the loads

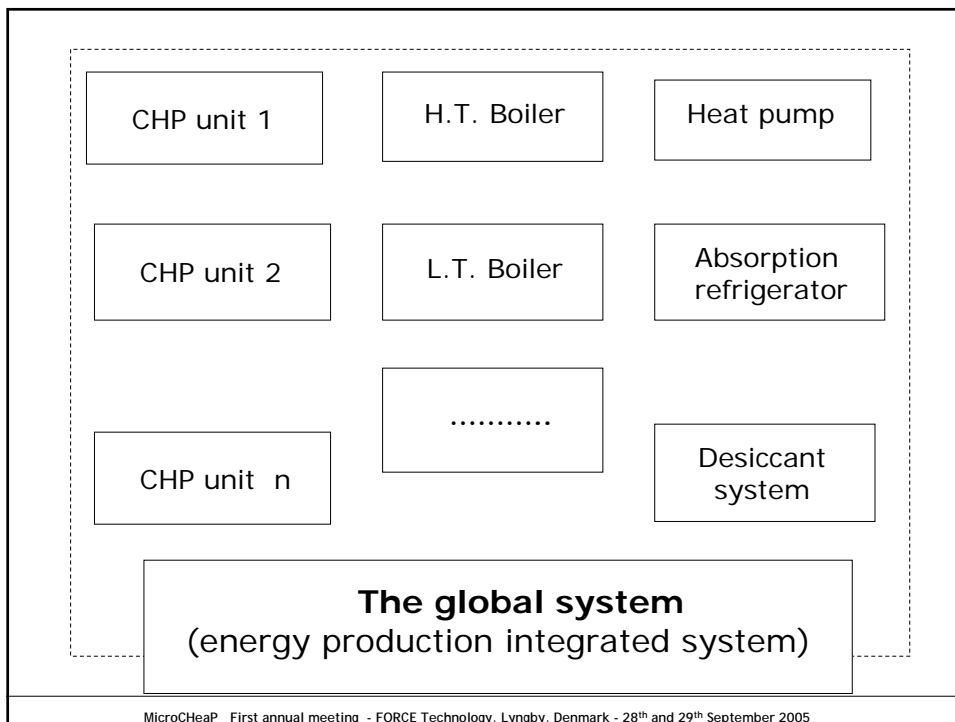
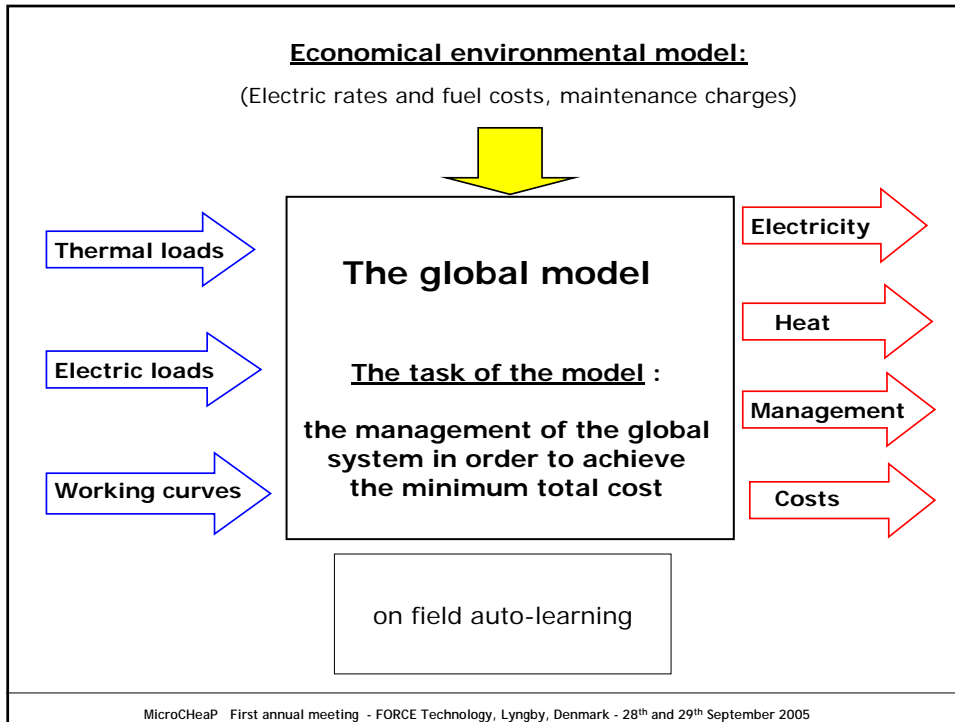


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Developing a model of the plant behaviour



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Testing the model

A real energy test where performed at Bassano Hospital (near Venice) from the 1st of January 2005 to the 30th of April 2005.

The model has been tested by using the real data coming from the monitoring system.



2 i.c. cogenerator (JENBACHER 320 GS-N.LC):
 Nominal electric capacity: 1048 kW
 Recovering heat power at full load: 1315 kW
 Electrical efficiency at full load: 0.389



2 Boiler (BIASI TERMOTECNICA, CV-8000/17):
 Nominal heat capacity: 5256 kW
 Efficiency at full load: 0.92

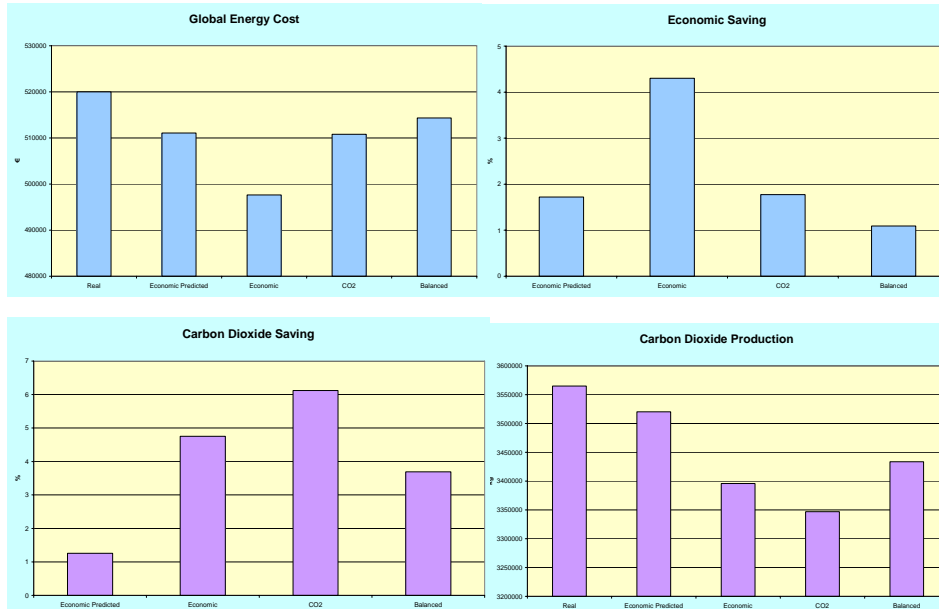
1 Boiler (BIASI TERMOTECNICA, CV-5000/17):
 Nominal heat capacity: 3290 kW
 COP at full load: 0.92



2 Chiller (YORK, YKDDDBH05CND):
 Nominal cool capacity: 1814 kW
 COP at full load at 32.5 °C: 5.11

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Results



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