

# KBC Brussels HQ CHP facility: “KBC BRUhav2 CHP”

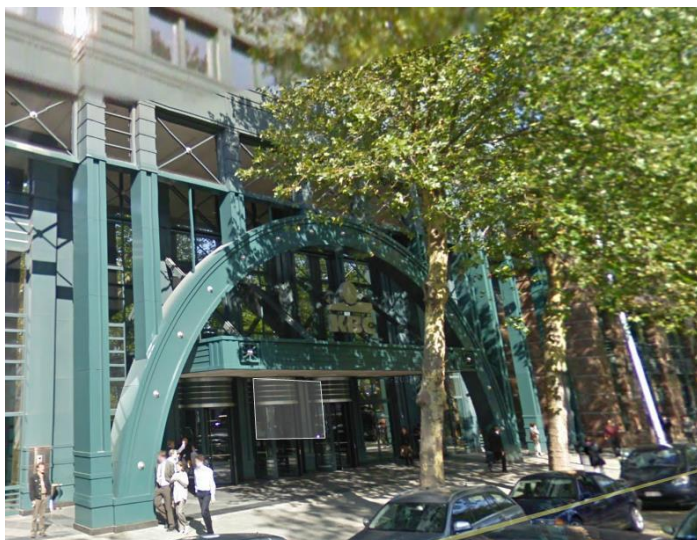
KBC Bank & Insurance Belgium

### Main CHP plant indicators

Heat capacity (total)	kW <sub>th</sub>	203
Electrical capacity (total)	kW <sub>el</sub>	140
Technology	Gas fired piston engine	
No. of units	1	
Manufacturer	Bobinindus	
Type of Fuel	Natural Gas	
Heat: yearly generation	MWh	848 av.
Electricity: yearly generation	MWh	530 av.
Year of construction	2011	
Total investment costs	EUR	550.000
Financing	Own funds	
State support	Certificates Tax reduction	
Return of investment (payback period)	Years	6*
Location	KBC Brussels HQ, Brussels	

\*: including maintenance costs, without subsidies

### Picture



### General description of the case

CHP covering at least the energy needs of the in-house catering.

### Success factors

- Correct dimensioning (no overdimensioning).
- Support by knowledge partners (engineering office, governmental support).
- High end machinery installed by experienced installation partner.
- Decent maintenance and follow-up.

### Main barriers

- Investment.
- Technical complexity.

### Comparison: before and after

- Buildings total electricity and on-site fossil energy consumption lowered.
- No changes in used fuel type.
- More complex and somewhat elevated maintenance expenses.

### Conclusions

- Due to positive experience, the application of an CHP in other KBC HQ's with in house catering facilities is now examined.
- Critical success factors are: correct dimensioning, decent installation, maintenance and follow-up by experienced partners.