

# Promoting innovative cogeneration in cities

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# Outline

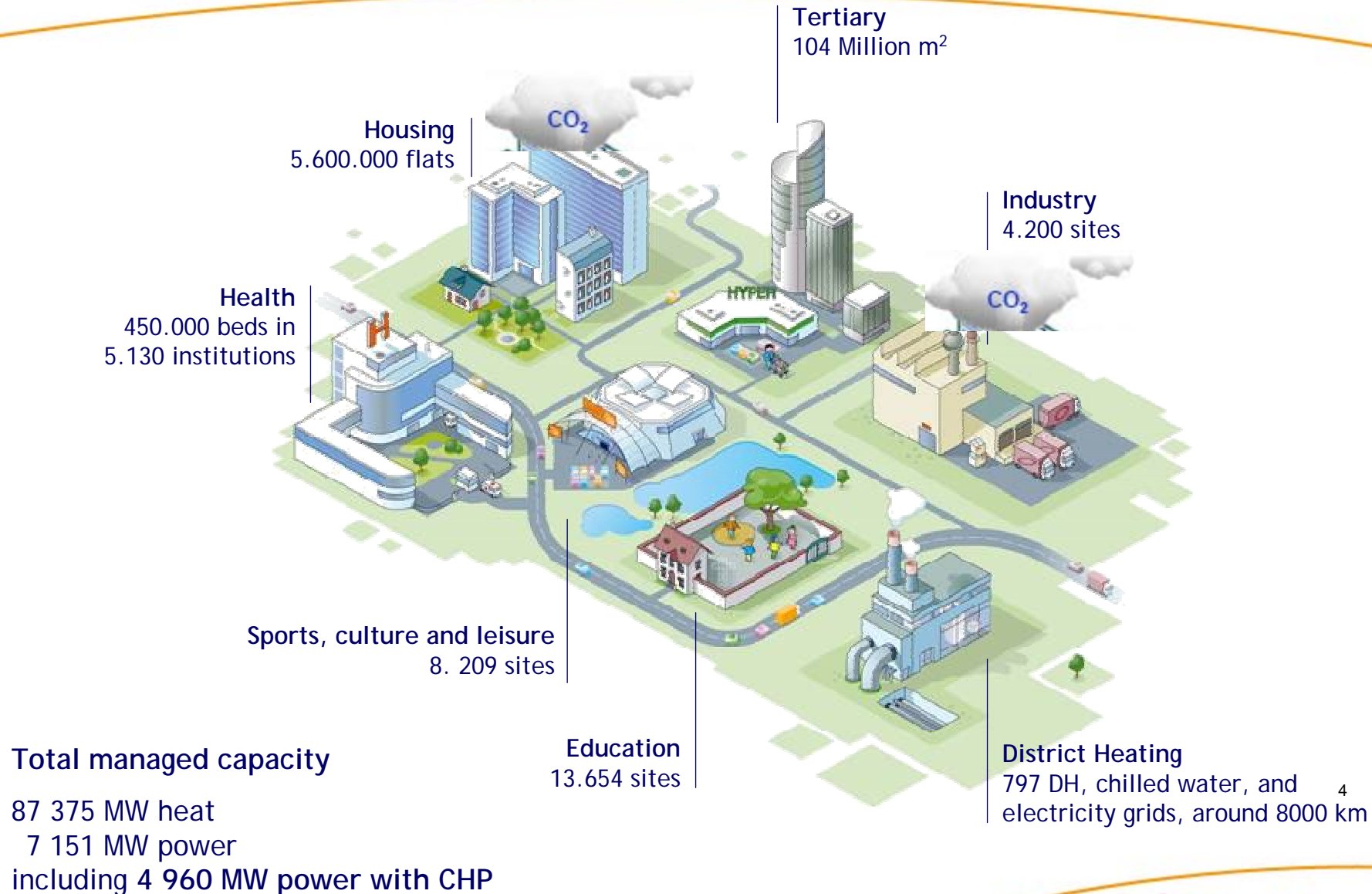
- **Dalkia's business**
- **Innovative CHP in cities**
- **Transfer of best practices**

# Dalkia: European leader in energy services

- **52,800 employees out of which 72% outside France**
- **Operate in 41 countries**
- **2008 revenue : €8.6 billion**
- **111,600 energy facilities managed**

# Our business: Energy in Cities

optimising the energy and technical environment of our clients



# Innovative cogeneration in cities

- **Energy efficiency and environmental benefits are obtained only if accordance with the demand for heat**
  
- **Complementary with district heating and cooling networks**
  - ➔ **Heat sink with inertia / storage**
  - ➔ **Use all types of local energy resources: disposal gas, geothermic, wood biomass, waste energy, free cooling**
  - ➔ **Diversify the primary energy mix**
    - **Increased used of renewable/”free” energy**
    - **Price optimization**
    - **Energy independence**
  
- **Example: Gas + Biomass → Flexible + Green**

# How can we transfer best practices ?

- **The high potential for CHP in Europe will not be reached without effective EU and member state support**
  - ➔ Even more the case for biomass CHP
- **Need for a consistent and durable framework to recognize and value the positive externalities of CHP**
  - ➔ Effective monetization of guarantee of origin: convergence toward green certificates, introduction of white certificates, binding energy efficiency targets
  - ➔ Consistency between EU policies : energy efficient solution should not be penalized by other instruments (ETS, ...)
- **Develop a systemic approach of energy efficiency at the territory level**
- **Develop EU policy to support large and visible demonstration projects in urban centers --> increased visibility and feasibility**
- **The role of energy service companies**
  - ➔ Propose guaranteed energy performance to cities using the best technologies and innovative schemes
  - ➔ International experience
  - ➔ Work in partnership with public authorities