

# Value session: District Energy - backbone of sustainable cities

Jean-François HUSSON  
Vice President  
Greater Nancy Urban Community



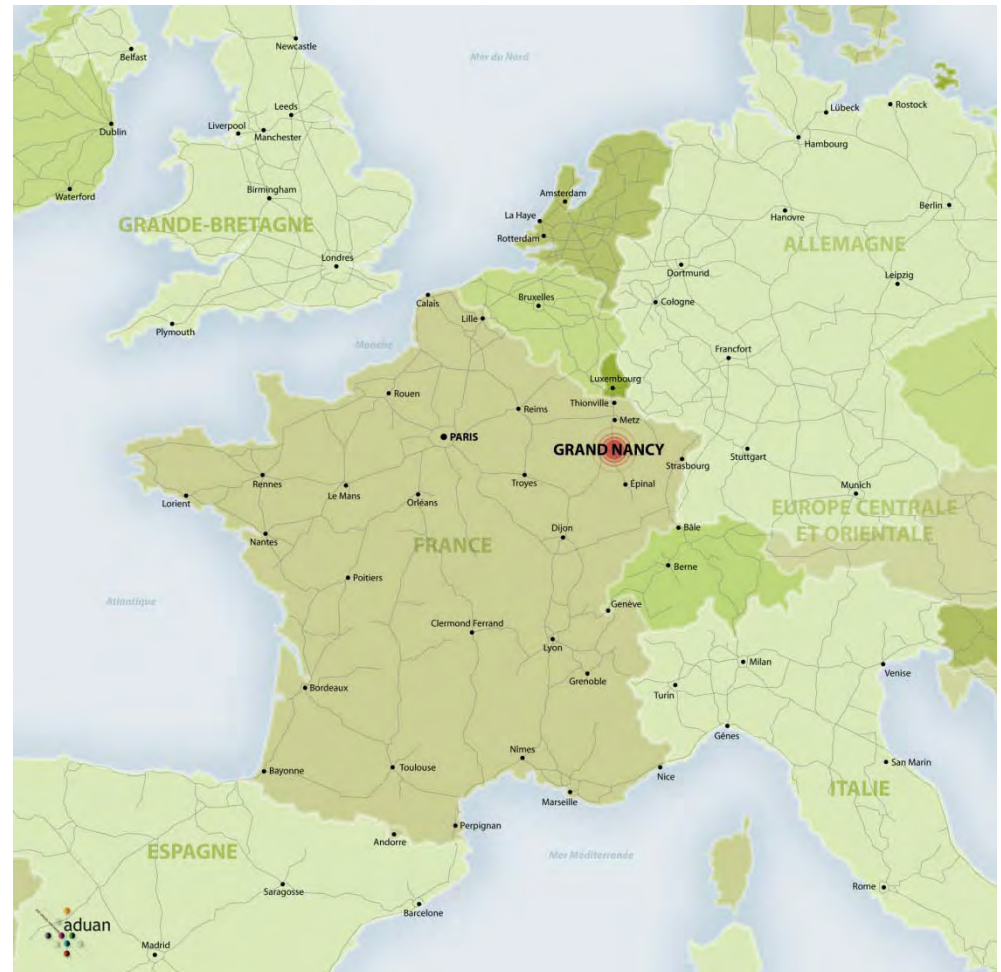
# Greater Nancy - Presentation

## The Greater Nancy : 1 of the 14 French Urban Communities

the highest degree  
of cooperation between cities

Located at 1h30 from Paris  
(by high speed train)

at the Est of France



# Greater Nancy - Presentation

## ■ Identity

- 20 municipalities  
(one of which is Nancy)
- 270 000 inhabitants
- 47 000 students

## ■ Organisation

- One President
- A Council with 80 members
- 1 300 employees
- A budget of 550 millions euros



# Greater Nancy - Presentation

The sphere of activity of Greater Nancy :

- Responsibilities mainly delegated by the municipalities to the Greater Nancy
  - Economic development
  - Transports
  - University and research
  - Technology of the information and communication
  - Housing and social cohesion
  - Environnement
  - Cultural facilities
  - Sports and leasure



# An active and wide policy for sustainable development

## Sustainable city

- A priority through all Greater Nancy projects
- Translated into strategical documents and organization :
  - A Urban Community project
  - A charter for environment (1998)
  - A local Agenda 21
  - A carbon footprint assessment and an energy and climate plan
  - The creation of a Sustainable development committee and a Sustainable development department



# Few examples of local policies

## ■ In terms of economical and urban development

- Eco-district urban project
- Buildings HEQ (High Environmental Quality),

## ■ In terms of social cohesion and solidarity

- A huge urban renewal project
- Building of economical and ecological houses (eco<sup>2</sup>)
- A house for « housing and sustainable development »

## ■ In terms of environment

- A strategical plan for biodiversity
- Development and improvement of urban public transports

... and an **energy policy** particularly representative :

- A “Local Agency for Energy »
- Financial supports to individuals who implement renewable energy
- A urban heating network...

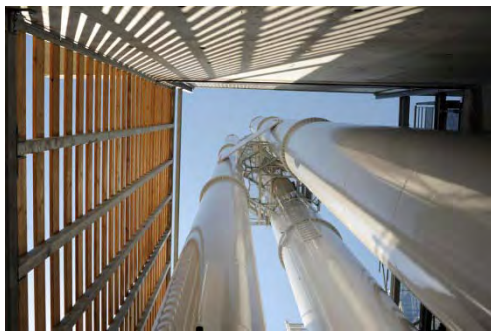


# The urban heating network

## A QUEST FOR EFFICIENCY, SAVINGS AND PERFORMANCE

A longstanding environmental approach

- Since the sixties : Presence of a heating network
- In 2006 : revitalization and modernization of the policy of heating
- From now on : a heating network composed of 3 installations and one biomass preparation unit



# The urban heating network

- The « Vandoeuvre » heating network (106 MW)

In 2006, at the renewal of the concession contract, the Greater Nancy negotiated :

- a new greened and architecturally integrated installation
- control the retail price of the heat
- modification of the energy mix and transition to a low temperature network ...

- The « Nancy Center » heating network (55 MW)

The Greater Nancy modernized this network, become inadequate, to:

- expand the heating network serving the city centre
- construct a biomass heating plant alongside the existing heating plant to increase the means of production
- reach 60 % of renewable source of energy and benefit from a VAT reduction



# The urban heating network

## The biomass preparation unit at the outskirts of Nancy

- Located at 10 km from Nancy
- An annual production capacity of 80,000 tonnes
- A unit oversized for the requirements of Greater Nancy in order to allow smaller projects to develop
- Wood coming from forests located no more than 60km from the unit



# A urban heating network

- The positive consequences of the urban heating network
  - Development of a local resource : the biomass
  - Job creation
  - 85 % renewable energy for the same quantity of heat produced
  - 81% reduction in CO<sup>2</sup> emissions (from heating system)
  - 22% reduction in inhabitants' energy bills



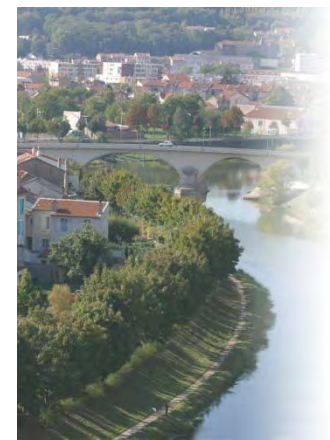
The ambition in the short term

→ the full interconnection of the two major heating networks by 2012-14

# About future...

Greater Nancy's measures must not only bring together local initiatives but also support national, European and global changes

- **Being recognized and supported nationally for exemplary initiatives**
  - First awards for district policy such as « the ribbons of sustainable development »
  - Applications for new recognitions and financial support (for instance : to construct a cogeneration plant fired by local wood)
- **European networks: a requirement for quantifiable results**
  - 2009 : ratification of Eurocities' Climate Change Declaration
  - 2010 : signature of the 'Covenant of Mayors'



Thank you

for your attention

