



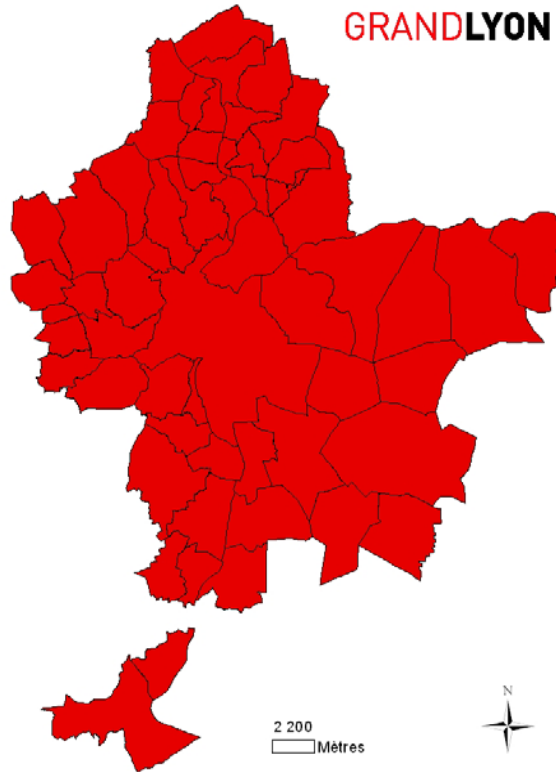
Greater Lyon's Climate Plan

Metrex Conference

Climate change: the role of metropolitan regions in the current debate

Hamburg 28 Nov.-1 Dec. 2007

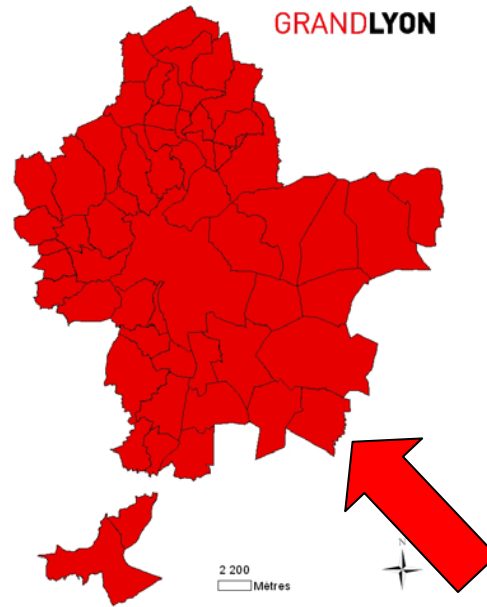
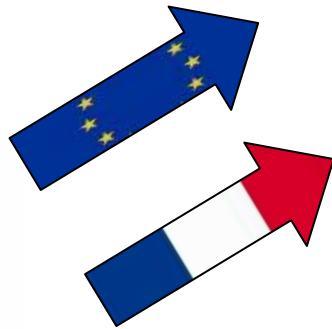
Greater Lyon – 57 municipalities act together



- 500 sq km
- 57 municipalities
- 1,300,000 inhabitants
- Responsibility for land planning, economic development, major projects, water sanitation, water supply, waste management, etc.



Why running a policy against climate change in Greater Lyon?



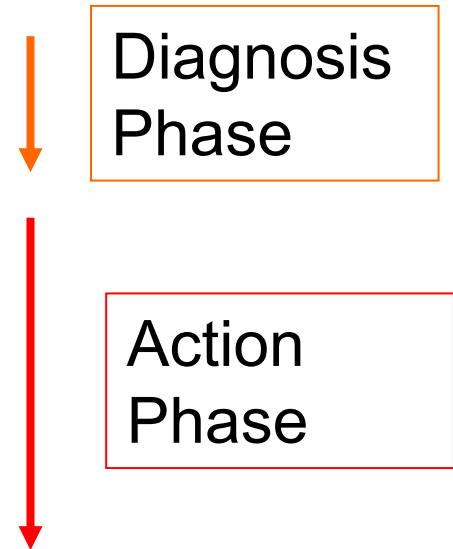
- municipalities
- public actors
- companies
- voluntary organisations
- inhabitants

A well rooted environmental policy

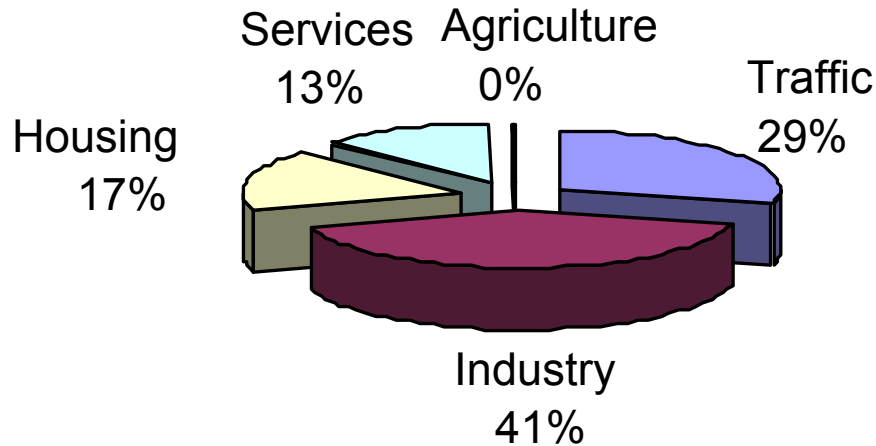
- Since the 90's, a concern about energy issues at Greater Lyon scale
- **The Agenda 21:** “*Greater Lyon combats global warming*”
- **SCOT 2030** (Metropolitan Masterplan): “*Making environment become a development engine*”

What is a Local Climate Plan?

- Objectives set by the “Mission interministérielle de l’effet de serre” in the Climate Plan 2004
 - Assessing the GHG emissions of the areas and trends
 - Setting objectives and indicators, then defining a strategy
 - Implementing actions in a coherent way, in partnership with local actors
- 2 progress lines: *adaptation* and *softening*



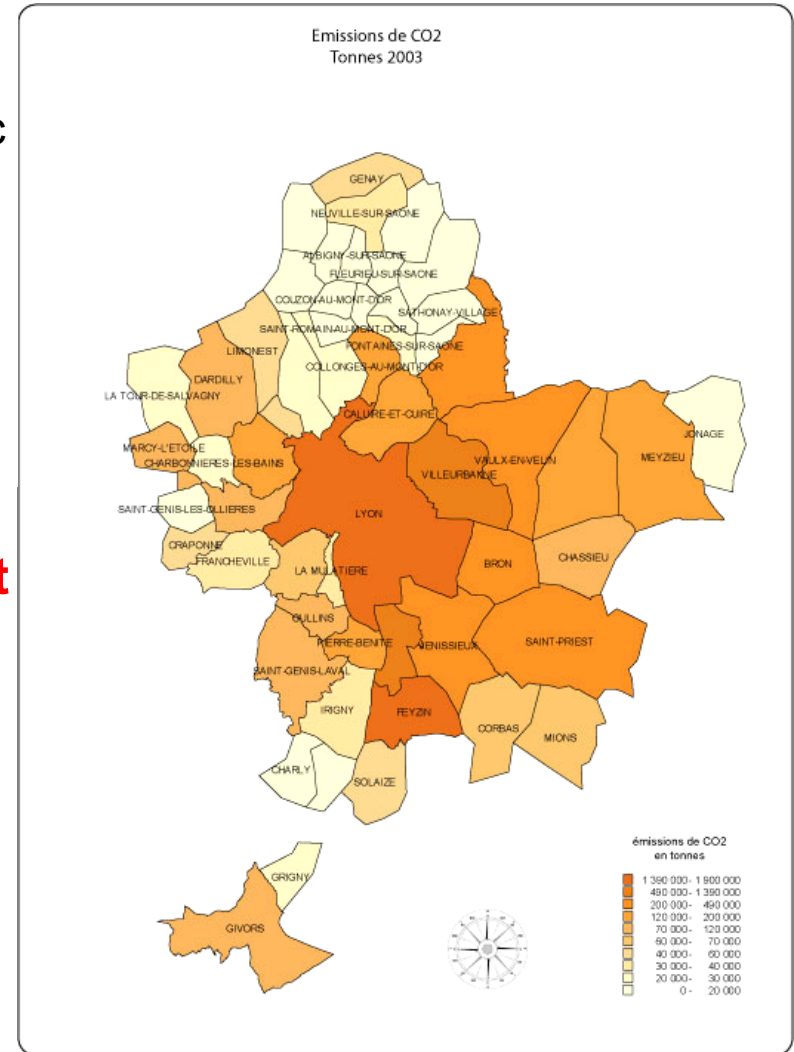
GHG emissions in Greater Lyon



Emissions of CO₂ in Greater Lyon: **8Mt**

Reduction objectives for Greater Lyon

- **2020: -20%** of CO₂ emissions and **20%** use of renewable energies
- **2050: -75%** of CO₂ emissions

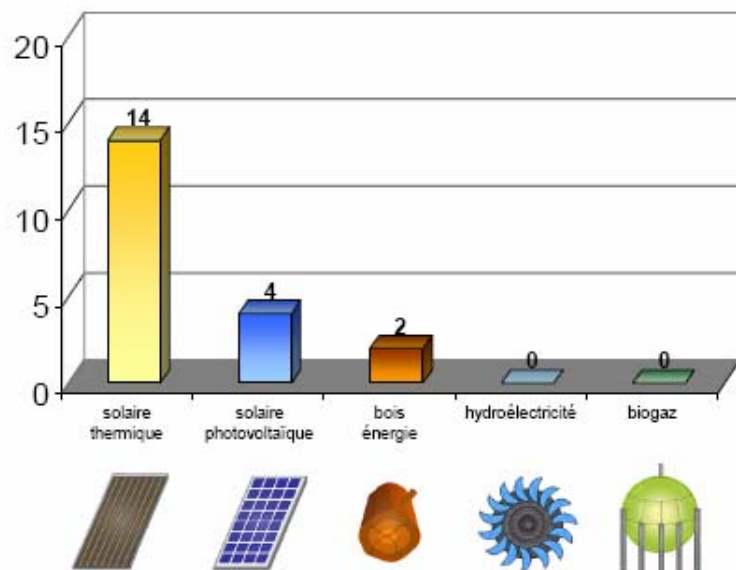


Diagnosis of renewable energies potential

- Setting up awareness tools

Commune de

Nombre d'installations cumulées à fin 2006



Total	840 m ²	960 m ² 96 kWc	12 020 t/an		
Production (MWh/an)	449	122	102 014		

Production annuelle : 102 585 MWh/an
Rejets de CO₂ évités sur l'année : 20 500 tCO₂/an

Les potentiels d'installations d'énergies renouvelables identifiés sur la commune

Solaires thermiques :

- Un potentiel annuel de 122 chauffe-eau solaires individuels de 5 m² sur des habitations existantes (l'installation est réalisée avantagement lors du remplacement des systèmes de chauffage conventionnels),
- Un potentiel annuel de 47 systèmes solaires combinés de 15 m² sur des habitations neuves pour le chauffage et la production d'eau chaude sanitaire,
- Un potentiel annuel de 7 m² par an pour les logements collectifs neufs.

Photovoltaïque :

- un potentiel annuel de 47 installations photovoltaïques sur des habitations neuves,
- un potentiel annuel de 240 m² sur des toitures industrielles neuves,

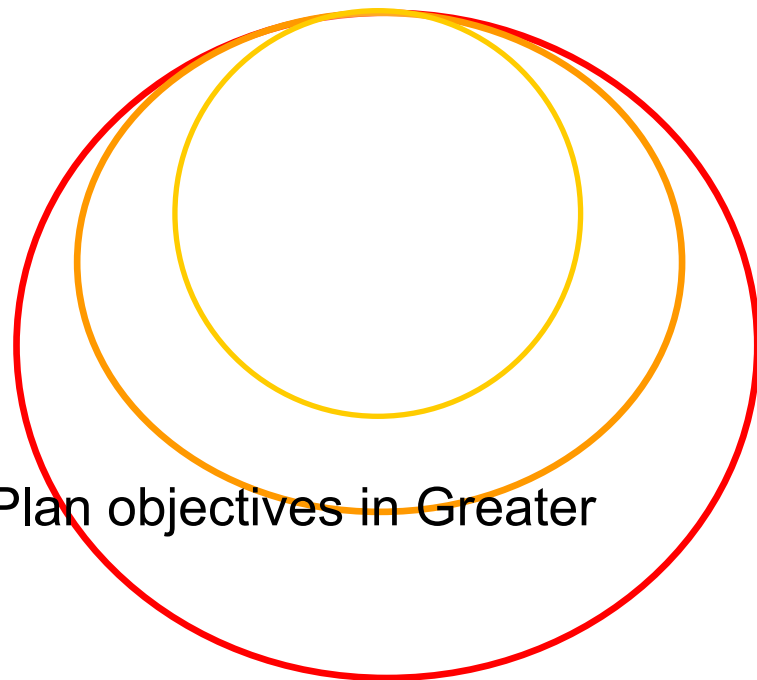
Bois énergie:

- un potentiel de 845 poêles et inserts sur des habitations existantes en appoint à l'électricité et au fioul,
- un potentiel annuel de 35 chaudières automatiques pour des habitations neuves.

Implementing actions at different scales

- Greater Lyon institution
 - Being an exemplary organisation
- Greater Lyon's policies
 - Taking into account the Climate Plan objectives in Greater Lyon's policies
- Involving the actors of the City-region
 - *Engaging a comprehensive participatory and partnership dynamics with local actors (economic, public sector, municipalities, voluntary sector, consultative and participative bodies)*

... a numerous number of actions already engaged



Greater Lyon: being an exemplary institution



- Setting up a Workplace Travel Plan:
 - 700 City-pass WTP, subsidised 50% by Greater Lyon.
17,8% switch from car use to public transport use
 - Reduction of the number of company owned cars from 132 to 50
- Incorporating renewable energies and materials on Greater Lyon's building, such as solar-panelled roofs into Greater Lyon's Hall

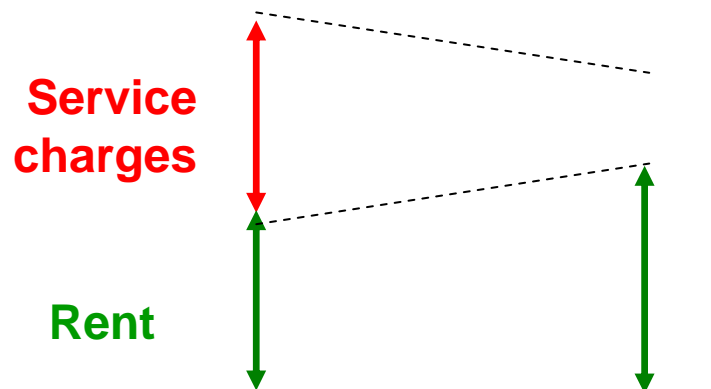
The sustainable housing framework

- Requirements for reduced energy consumption (50kWh/sq m/year) and renewable sources of energy (20%)

These requirements are 10 years ahead of the new building regulation

3 250 dwellings built or about to be built based upon this framework

CO₂ emissions saved:
~2000t CO₂/year



A sustainable transport policy

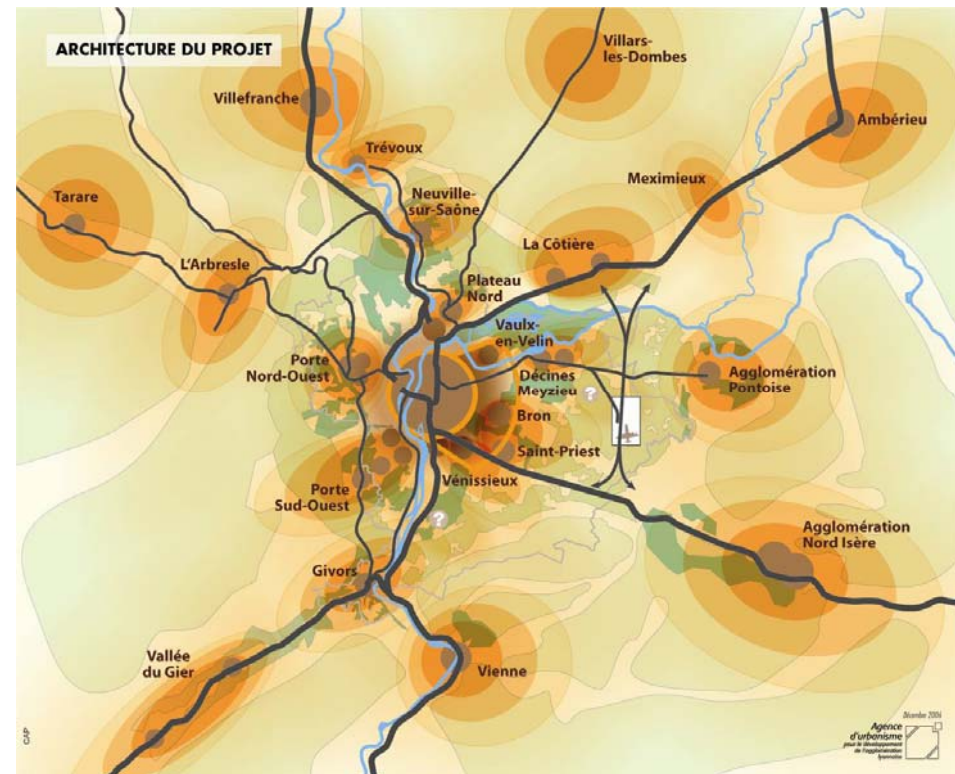
- Building a polycentric metropolitan region

- REAL: the Lyon Metropolitan Area Express Network

9 partners

21 actions:

- Train service
- Multi-modal transport services
- Railway Station and environment
- Railway Station access



A sustainable transport policy

- The without-motor transport policy

Velo'v

Into service since 2005

4000 Velo'v split into 340 stations

25 million km covered

4800 tonnes of CO₂ saved

Cycle paths

80 km developed between 2001 and 2007

Pedibus

Into service since 2005

70 schools, 116 lines et 1300 children users

80 tonnes de CO₂ saved per year



Developing an environment cluster and a strong environmental business sector

- Lyon urban bus and trucks: developing sustainable transport solutions for people and goods
- AXELERA: reconciling chemistry and environment
- Strengthening and structuring an economic offer in the field of environment



Involving the business sector into the Climate Plan

- Helping to share the awareness of the links between development and environment
 - The network's objectives: reducing the GHG emissions
 - Involving the stakeholders of the City-region
 - A partnership based upon a win approach and is designed as a mutual learning process
 - Greater Lyon's role is to manage the partnership, listen to the wishes and concerns of all stakeholders, highlight interesting local initiatives, etc.



Conclusion

- Greater Lyon, as City-region, can act at the right scale:
 - to bring together worldwide challenges, a national framework and many stakeholders
 - to devise and share a rigorous, responsible and « tangibly optimistic » ambition

