Climate Protection Programme
Local action programme against greenhouse gases emissions
IDENTITY CARD

24 local authorities

590 000 inhabitants (+ 10% inhabitants between 1990 and 1999)

Surfaces

Total: 130 875 acres (523.5 Km²)

Urban surfaces: 42 500 acres (170 Km²)

61 % of natural spaces

Transports

4 tramway lines + busway line (44 km)

60 bus lines

120 millions travels on public transports
Context – Urban Development

1960
360 000 Inhabitants
14 166 Urban spaces
(56 Km²)

2008
590 000 inhabitants
Urban surfaces: 42 500 acres
(170 KM²)
Nantes Metropolis action programme

Fulfill at local level the objectives of Kyoto Protocol: Factor 4 in 2050

An ambitious first step:
50% reduction in CO2 emissions from 2010 to 2025

Methodology

Step 1 - A Co2 city wide diagnosis
Step 2 - Expected CO2 emissions for 2025
Step 3 - Action programme against CO2 and GHG
Step 4 - Co2 programme Assessment
CO2 city wide diagnosis

Energy consumption translates into CO2 emissions for each sector (industry, urban transport, homes, tertiary sector and agriculture).

Total CO2 emissions: 2.6 million Tons CO2 Equivalent
Expected CO2 emissions for 2025

Main measures of local Action Programme

HOUSING PROGRAMMES
Energy saving and renewable energies development

BUSINESSES PROGRAMMES
Energy saving and renewable energies development

URBAN PUBLIC TRANSPORTATION
Bio-fuels development
Optimized transport of goods
Main measures of local Action Programme

Scénario « Laisser-faire »

Scénario « facteur 2 »
Nantes Métropole action against Climate Change takes place in a local Agenda 21
Climate protection programme is focused on GHG that Nantes Metropolis can directly or indirectly influence
57% of inhabitants work outside their neighbourhood.

Important growth of the road network since 1980.
Main objective of Nantes Métropole transport policies - Urban transport Programme

To raise the share of soft transportation (public transports, bicycles, pedestrians) at 50%
Urban planning and Housing Policies

Thinking environmentally friendly urban planning and architecture

Objectives:
- density and quality of life
- environnemental urban planning and green buildings

Two « pilote projects » in the heart of city and metropolis « Nantes Island project » and « Euronantes project »
Euronantes project - Micro-climate analyses

D3 area models

Solar impact analysis

Wind impact analysis

Sound analysis
Euronantes project  - Micro-climate analyses

Improving climate performances building to decrease the energy consumption
European project Concerto

The CONCERTO initiative, launched by the European Commission, is a Europe wide initiative proactively addressing the challenges of creating a more sustainable future for Europe’s energy needs. Today, there are a total of 28 communities in 9 projects, each working to deliver the highest possible level of self-supply of energy. CONCERTO is part of the 6th framework research programme supervised by the DG Energy and Transport of the European Commission.

Act2 aims and objectives

Act2 aims to implement major developments in target communities taking significant steps towards establishing best practice experiences, as a single standard for future commercial practice. In the real estate sector, act2 communities specifically demonstrate technical and process solutions for large-scale energy efficiency (EE) and renewable energy source (RES) integration in new build and refurbishment projects, in housing and public buildings, and providing a benchmark for the Cities of Tomorrow.
An urban forest project to protect the climate

- Three forest sites at the boarder of urban spaces
- 20 years of development
- A project develops with NGO’s and french states départements
- A future carbon stock