



+++ Grenoble
the positive energies

GRENOBLE
FACTEUR 4

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Inventing new sustainable development urban models

- ⇒ Grenoble imagines the town of tomorrow
- ⇒ A new environmental policy called “Factor 4”
- ⇒ To cut by four greenhouse gas emissions by 2050



Inventing new sustainable development urban models

- ⇒ In 2050, 70% of the world's population will live in towns
- ⇒ Living together in the heart of our cities



Environment is managed in an international context

⇒ The international context

✓ Rio and Kyoto

⇒ The implementation in Europe

✓ An Emissions Trading Scheme

✓ A Climate Energy Package



Deployment in France

French legislation

- ✓ Creation of a dedicated authority: (ADEME) Environment and Energy Management Agency
- ✓ Energy Efficiency Certificate (EEC)
- ✓ An Environment Charter is included in the french Constitution (March 2005)
- ✓ Grenelle Environment Scheme (2008 and 2010)



Imagining the town of tomorrow

⇒ Grenoble is experimenting a functional and social mix: the Bonne site

- ✓ Experimentation of a district with energy self-sufficiency
- ✓ Transport
- ✓ Social mix
- ✓ Functional mix



ECO DISTRICTS

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Imagining the town of tomorrow



A serious commitment to thermal retrofitting

- ⇒ 80% of annual greenhouse gas emissions in Grenoble come from buildings
- ✓ A thermal retrofitting campaign with private housing owners
- ✓ Two years' ahead on the “Low Energy Consumption Building” standard



The tram picks up speed

⇒ Inventing the compact town of tomorrow

- ✓ 33 km of tram tracks in the Grenoble built-up urban area
- ✓ Experimentation of a new generation of electric bus
- ✓ The Grenoble “bicycle reflex”



Wood, sun and water in the vicinity of sensors

⇒ Focusing on renewable energies and the reduction of CO2 emissions

- ✓ The most powerful biomass heat plant in France
- ✓ Replace fuel oil by gas
- ✓ The Town supports the competitiveness centres
- ✓ A new natural regional reserve on its drinking water catchment





Thank you for your attention

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