

Ghent Climate Plan

2014-2019

Fall in love with an energetic city

Final approval from Comission: January 2015

















29.000 parking places 10 central parkings Zuid P 4-6 Kouter ↑ St-Pietersplein P 10 Reep 780 St-Michiels Vrijdagmarkt

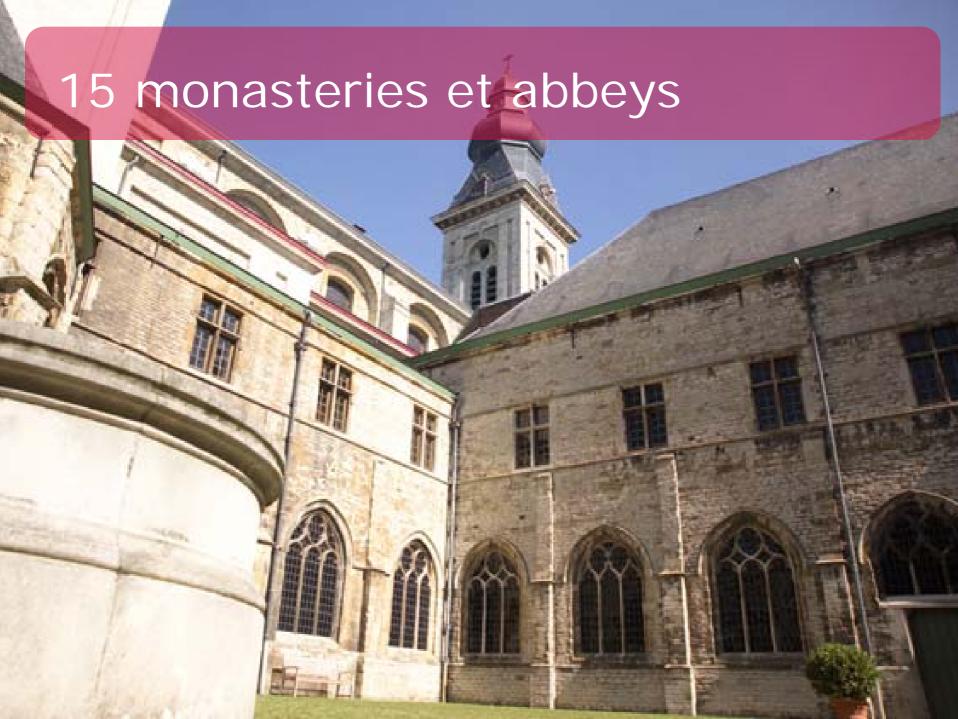






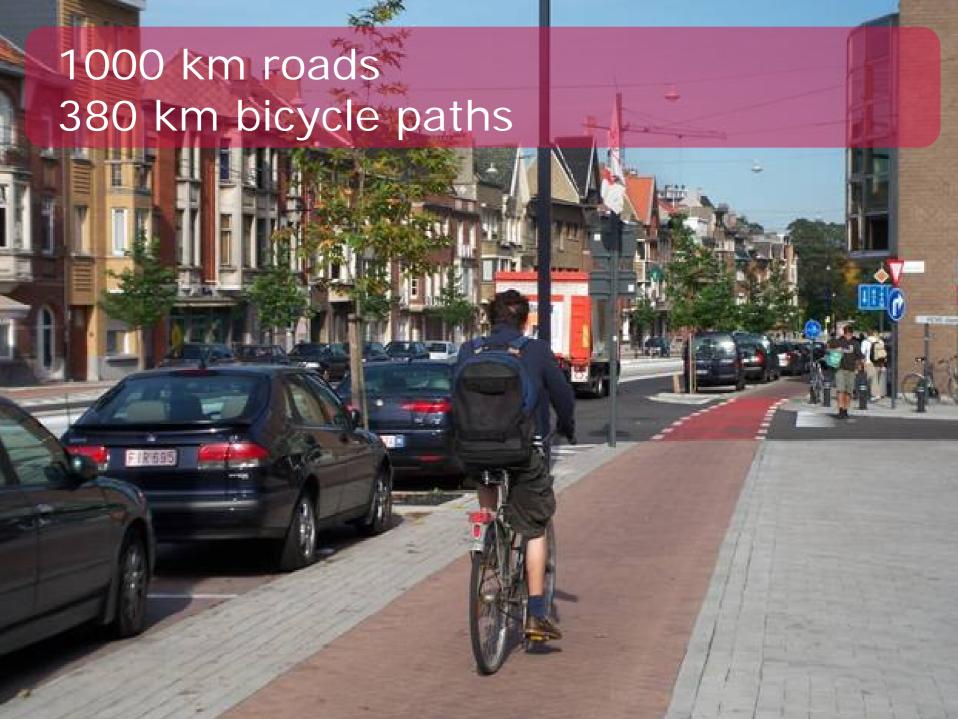
10 museums















One mission

'Gent is een open, solidaire, wijze en kindvriendelijke stad. Zij verbindt alle krachten om de stad uit te bouwen tot een blijvend leefbaar geheel en zo de toekomst verder vorm te geven. In a creative way Ghent wants to be frontrunner in the transition towards a low carbon city. We bouwen verder aan een milieuvriendelijke en gediversifieerde economie die welvaart brengt voor iedereen. Zo ontwikkelen we ons tot een gemeenschap van verantwoordelijke burgers die zich vrij kunnen ontplooien en op de nodige ondersteuning kunnen rekenen'.

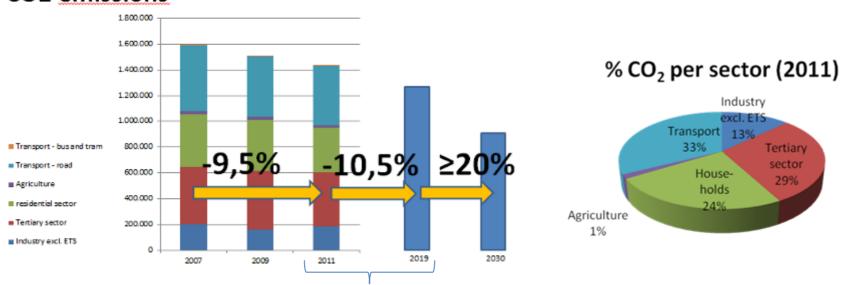






Challenge

CO2 emissions



Still 10,5% or 169.000 ton CO_2/y to go =



277.000 times flying between Londen and New York

7.041.000 trees to plant



42.250 houses to be made CO2N



24.400.000 days no car

Climate is more than energy ...















Building on ...















Our new SEAP says something about ...

Residential sector

City as example

Businesses and Tertiary sector

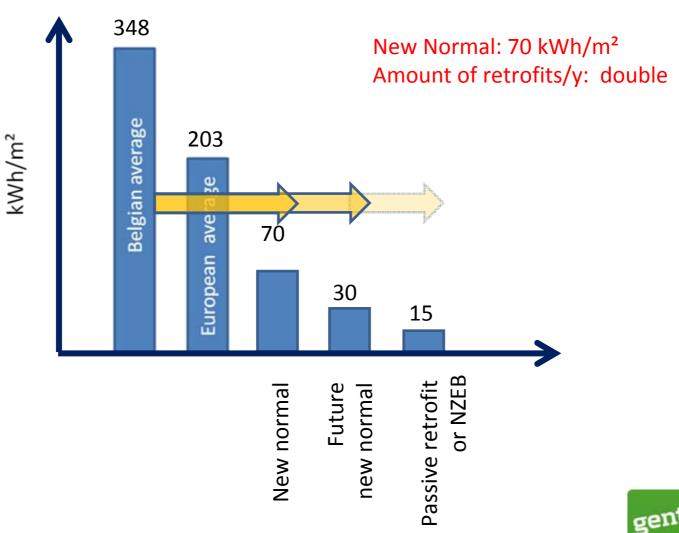
Renewable Energy and waste heat

Transport

Food

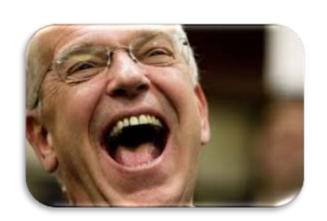


Ambitions for retrofit





What motivates?











Measures:

•Ghent Climate City - Platform to exchange ideas and actions

Campaign for retrofit assistance:



•Energy scans especially for socially weak households:

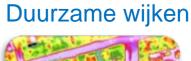
Energy Agency REGent

•Activation stakeholder initiatives: sustainable districts



•ICT tools and events:















>1.000.000€

Measures:

•Free sustainable building advice at home



 Simulations of financial levers and filling in the necessary papers



•Unburdening project: taking over practical issues for implementing a retrofit measure like finding a contractor for socially weak households

and from mid 2015 for all households



with special focus on elderly people

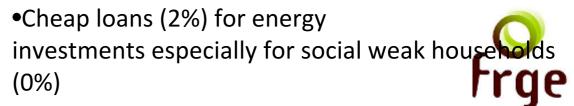


> 8.224.000 €

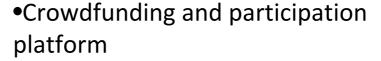
Measures:

 Energy susbsidies tailor made on the income of households

•Link with subsidies for qualitative living



 Subsidies for bottom up projects of citizens and other stakeholders: sustainable districts









Ioans





One place to be:



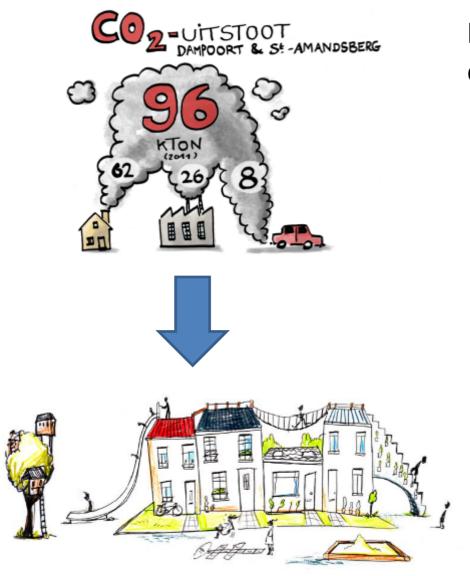
Gents adviespunt voor energiezuining renoveren

energiecentrale@gent.be 09/266.52.00



Innovative project

District Sint-Amandsberg-Dampoort



How to make an existing district climate neutral?

Linking

- opportunities
- Citizen engagement
- already running pilots/experiments
- available tools and financial levers
- Interaction with projects nearby (Old Docs)



Social houses

- Speeding up retrofit: 2.000.000€
- Renovationplan on energy from most important social housing company: Woningent
- More cooperation between social housing companies and Energy Agency REGent









New houses

- Flemish policy, no levers
- Use of land ownership: towards NZEB and innovation
- Big and small sustainable projects: > 17M€

Innovatieve project: Old Docks

CO2N district with energy from waste water and kitchen waste









Measuring system for sustainability

- Jose à lase 4 lase 5 lase 6		
VERPLICHT	0.	Geïntegreerd projectproces
0 0 0 0 0 0 14 27 29 30 30 30	1.	Inplanting en functie
0 0 0 0 0 0 0 0 0 16 17 19 20	2.	Mobiliteit
0 0 0 0 0 0 0 0 5 10 16 20 20	3.	Natuurlijk milieu
0 0 0 0 0 0 0 8 8 10 10 10	4.	Water
0 0 0 0 0 0 0	5.	Grondstoffen en afval
0 0 0 0 0 0 0 0 30 30 30 30	6.	Energie
0 0 0 0 0 0 6 9 16 19 19 20	7.	Gezondheid, leefbaarheid en toegankelijkheid
0 0 0 0 0 0 0 2 6 6 8 10	8.	Economie en werk
0 0 0 0 0 0 0 0 5 5 5 10	9.	Innovatie
VERPLICHT	10.	Beheer
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		

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City as example

For buildings and fleet: energy efficiency of 3% per jaar or 15% in 2019

Also for OCMW (Social Welfare) en FARYS (Water Company)



- energy performance contracts (EPC) with private Energy Saving Company (ESCO) and Eandis
- Own projects
- Continuation of purchasing 100% green power
- Increasing own renewable energy production
- NZEB and passive building for new buildings
- Continuation energy efficiency public lighting (2,6 M€)
- •Sustainable procurement
- Greening the fleet and car sharing
- Greener transport of cargo for the City













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Measures:

•Coaching energy management for individual companies: towards >10% CO2 reduction

	Low	Medium	High	
Energy use/y	< 250.000 kWh	< 2,5 M kWh	< 27,7 M kWh (=0,1 PJ)	il SMEs in the
% of energy use sector	33%	33%	33%	CREATIEF KWARTIER RABOT
Amount of companies	95%	4,5%	0,5%	- 0 = 0 = 0









•Higher terrace taxes in case of terrace heaters

Ghent received the Climate Star for energy coaching for SMEs in October 2014









Measures:

- Measuring system for sustainability used for all business parks (based on BREEAM)
- •BREEAM communities for Eiland Zwijnaarde and (tbd) BREEAM excellence for the buildings



•Experiment in Wiedauwkaai: coaching by energy expert is linked to procurement of plots



•Coaching business park management towards business park of the future



20% energy efficiency using their position as manager of harbour area:

support sustainable projects like wind energy,
B2B district heating
energy criteria linked to concession,
energy for ships from ashore,
bio-economy,



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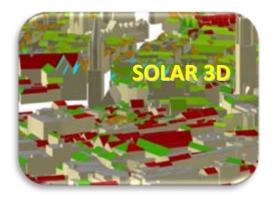






















15.000 ton CO₂/y







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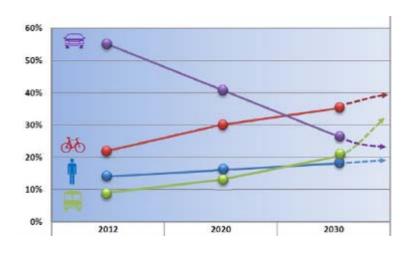




TRANSPORT



	2012	2019
On foot	14%	16%
Bikers	22%	30%
Public transport	9%	13%
Cars	55%	41%



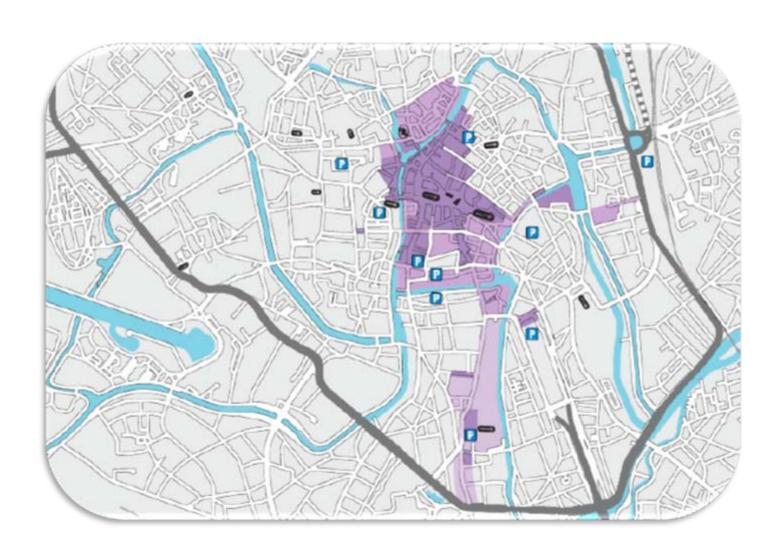
Modal shift

- Expansion pedestrian area
- Stronger biking network and infrastructure
- Better public transport and more trams
- Expansion zone 30
- Redevelopment school environments in function of sustainable mobility
- Subsidies for car and bikesharing
- •Subsidies for elektric bikes, load infrastructure, elektric car sharing and CNG
- More parking at a distance
- Developments of city distribution system
- Special attention for students and mobility
- Sustainable transport for tourist

•..



Pedestrian area doubled



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Gent en garde

Objectives:

- encourage a shorter and more visible food chain
- •sustainable food production and consumption
- stimulating social added value
- •initiatives about reducing food waste
- food waste as raw material



And the result is?

Excl. district heating in harbour area

> 100 M -169.872 ton



Excl. staff





