Tine Heyse
Deputy Mayor for Climate, Energy and Environment
Content

- Ghent Climate Ambitions
- Wastewater, energy and nutrient recovery
- Foodsavers
- Reusable cups
• Ghent signed first covenant of Mayors in 2009 and second in 2015
  • 20 % CO2-emission reduction by 2019
  • 40 % CO2-emission reduction by 2030
• Long term goal: climate neutral by 2050
• Climate policy that is socially-just and focussing on structural solutions with long-term impact
• Focus on energy efficiency and local renewable energy production
• Now more emphasis on phasing out fossil fuels (including natural gas)
Total CO2-emissions Gent (2016):

- Emissions scope 1 and 2 from non-ETS (households, tertiary building, mobility, agriculture, ...) = 1,5 M ton
- Emissions scope 1 and 2 ETS = 10,8 M ton
- Scope 3 (consumption, travel by plane, materials, production abroad, ...) = 3,6 M ton
ZAWENT in district New Docks

ZAWENT = zero wastewater, energy and nutrient recovery

Energy
- Energy recuperated from grey waste water (baths and showers)
- Biogas from fermentation vegetable and fruit waste and black water (toilets)
- Waste heat neighbouring company

Water
- Grey water will be purified
- Purified water will be used by neighbouring company

Nutrients
- Struvite (fertiliser) for the green areas

1/3 of heat demand
2/3 of heat demand
How was the project initiated?

The project ZAWENT was one of the outputs from the Climate Arena that the city of Ghent organised in 2011. During this event, stakeholders discussed about how to work towards a climate neutral city.
• One thirth of our food is wasted
• Retailers donate food surpluses
• Social organizations lack volunteers, transport accommodation and cooling capacity
• Gent en Garde wants to tackle food waste
3 main goals

- Environment and Climate
- Social Employment
- Healthy food for people living in poverty
What does Foodsavers do?

- Cooled Transport
- Cooled Storage
- Quality Control and Orderpicking
- Redistribution
- No Processing (yet?)
DONORS:
- 24 stores
- 1 food auction
- 2 retailers depots
- 1 biofarm

PLATFORM:
- Redistribution
- Storage
- Administration

CUSTOMERS:
- 58 organisations (social restaurants, food aid organisations, ...)
- 19.000 unique persons reached
First year Foodsavers: Results

- 300 tons food surpluses saved
  - 68% vegetables and fruits
  - 762 tons CO2 less emitted
- Training of 19 employees
Ghent Festivities – Gentse Feesten:

• One of the largest cultural festivals in Europe

• Both: urban festival, cultural event and a large-scale popular feast

• 10 days – 6 international festivals – free music – hundreds of outdoor and indoor activities – 100,000 visitors every day – 2018: 1,3 million visitors
• Road towards a more sustainable festival:
  • Focus on waste prevention and recycling
  • Prohibition on disposable cups during the festival
    • For festival organizations
    • For bars, restaurants, ...
Why banning the disposable cup?

- Environment: Single use plastics are a problem
- Clean city: No to a carpet of plastic cups
- Awareness raising: Plastic waste is a problem
Before the ban
Why difficult to implement?

- Ghent Festivities are more than 10 different organizations, each with their own systems.
- Bar revenues are main income, next to subsidizing and sponsoring, for artistic programme.
- No waste charge in the past and free disposable cups, so reusable cups have a bigger cost.
- Change of logistic organization.
Goal: no more disposable cups in 2018

Step by step approach:

• Consultation
• Subsidizing
• Helping with practical problems and experimenting

Organizations:

• Help of frontrunners!
• Implementing reusable cups
Ongoing search for best system

- Which type of cups: general, branded, copy glass
- Who owns the cups: city, organizations, brewers, logistic partner
- Deposit
- Washing of cups: by hand or by machines, on sight, industrial
Which cup?
Deposit

Braunplein
Prijs: 3 euro
Waarborg: 0,50 euro

Groentenmarkt
Prijs: 3,60 euro (33 cl)
Waarborg: 2 euro

Sint-Baafs (en 5 andere pleinen)
Prijs: 2,80 euro
Waarborg: 1 euro

Korenmarkt
Prijs: 3 euro
Waarborg: 0,10 euro
Result banning the disposable cup

• Organizations:
  • For the first time: 7 of 14 organizations work together with 1 cupsystem (Ecocup)
  • 3 organizations with glasses and service
  • 4 organizations with other reusable cups and different deposits
Results:

• Good:
  • Banning the disposable cup worked!
  • - 27% waste on the ground
  • A lot cleaner!

• Can be better:
  • Same cup on whole city is easier for visitors
  • Deposit and buy drinks for a group
  • Organized theft of cups
  • Cans and bottles!
Thank you!