

Limburg (and its 44 municipalities) **CLIMATE NEUTRAL in 2020**

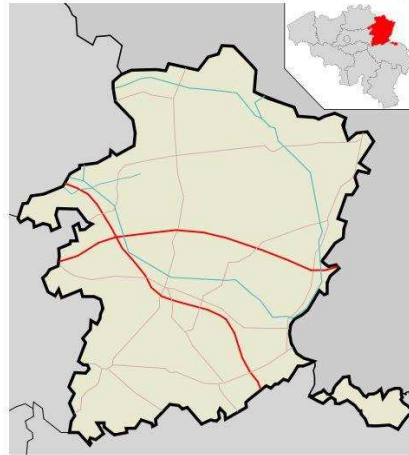


Overview

- Context
- Limburg climate neutral in 2020
- Approach stakeholders and municipalities
- Our partners
- Covenant of Mayors and beyond

Context

- Province of Limburg, Flanders, Belgium
- 838 050 inhabitants in 2010 (Belgium almost 11 million)
- 242 214 ha (Belgium 3 million ha)



Limburg CLIMATE NEUTRAL in 2020



Context

- 44 cities and towns
- Few large cities (Hasselt and Genk), many small towns:
Hasselt 70 584 inhabitants, Genk 64 095, Beringen 41 531, ...
... Nieuwerkerken 6 685, Voeren 4 261, Herstappe 85 !
- Province is partner in planning and implementing local policies
- Limburg has experience in organising campaigns on energy saving, sustainable building...

Limburg CLIMATE NEUTRAL in 2020



Once upon a time (in 2008...)

**“Limburg
CLIMATE
NEUTRAL
in 2020”**

Steve Stevaert, governor of the Province of Limburg



Limburg climate neutral in 2020?

- New ambitious political priority: “Let’s do it!”
- TACO2: total action plan CO₂
- Solid technical and scientific basis needed!
- Study how to become climate neutral...
- ...But no real policy plan



Limburg CLIMATE NEUTRAL in 2020

TACO2: the study

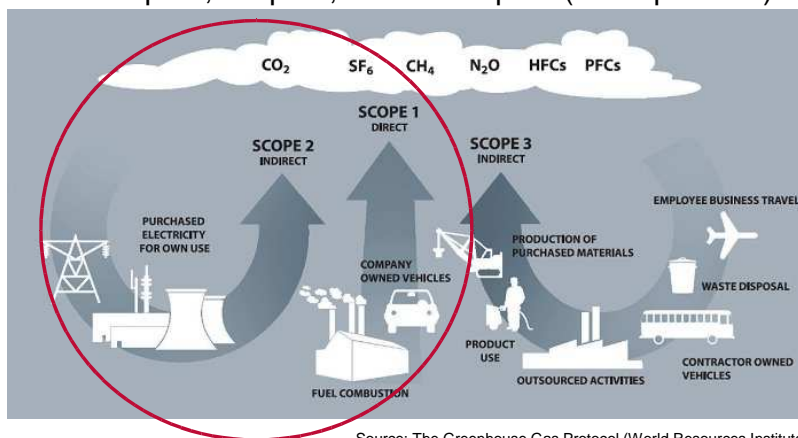
- Consortium VITO – Arcadis – KU Leuven
- Contents:
 - Definition of climate neutral
 - Baseline Emission Inventory for the province
 - BAU and 2 transition scenarios
 - Socio-economic impact?
 - Recommendations for the province and other local authorities
- Study completed in march 2011

Limburg **CLIMATE NEUTRAL** in 2020



TACO2: the results

- Definition of climate neutral:
 - CO₂, CH₄ and N₂O
 - Scope 1, scope 2, but not scope 3 (GHG-protocol)

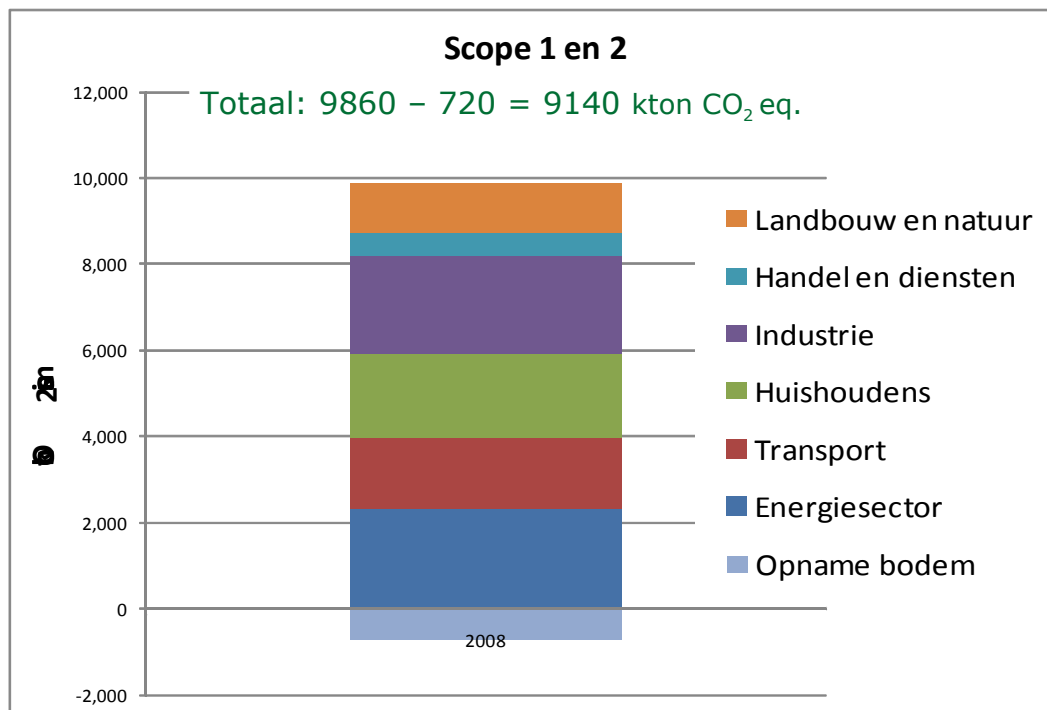


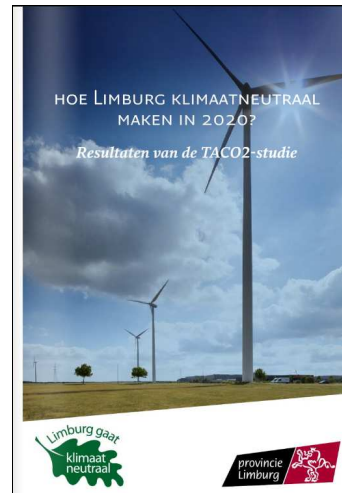
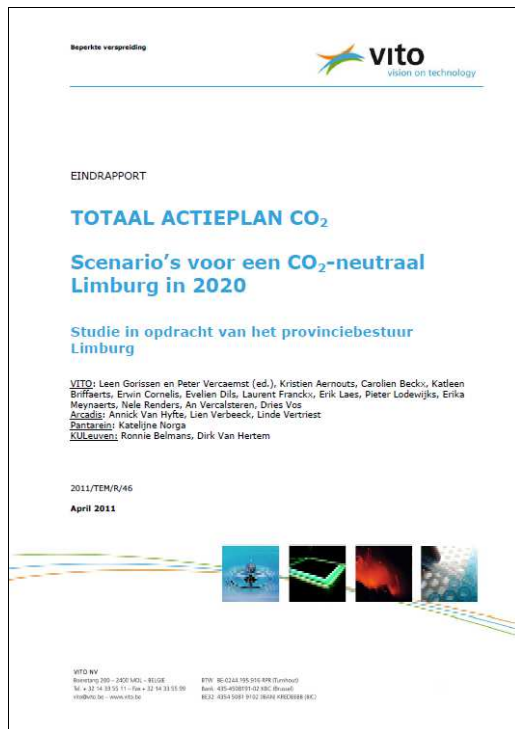
Source: The Greenhouse Gas Protocol (World Resources Institute)

TACO2: the results

■ Baseline emissions inventory (2008):

- Scope 1 : $8830 - 720 = 8110$ kton CO₂ eq.
- Scope 2 : 1030 kton CO₂ eq. (= imported electricity)
- Total : 9140 kton CO₂ eq.
- 11,0 ton CO₂ eq. for each inhabitant of Limburg
(12,4 ton CO₂ eq. for each inhabitant of Flanders)
- Scope 3 : 5916 kton CO₂ eq. (~65%)
(estimation based on VITO-model)





Download: www.limburgklimaatneutraal.be

TACO2: the scenarios

- BAU and 2 transition scenarios:
 - Biomass, biodiesel, biogas !
 - PV and solar water heaters where possible
 - Wind where possible
 - Collective heating systems for at least 40 000 houses
 - Buy green electricity
 - Insulate houses as well as possible
 - All new buildings passive or energy+
 - Switch to heat pumps in stead of heating on gas or gasoil
 - Geo-thermal power plants
 - Plant 10 000 ha of trees
 - ...

Limburg CLIMATE NEUTRAL in 2020



TACO2: approach stakeholders

- Transition management
- Working groups for themes and target groups:
 - Sustainable building and living
 - Renewable energy
 - Biomass production and valorisation
 - Sustainable industry (processes) and industrial sites
 - Mobility and logistics
 - Agriculture and nature



Limburg **CLIMATE NEUTRAL** in 2020



But most important...

**“44 cities
and towns
CLIMATE
NEUTRAL
in 2020”**



TACO2: approach municipalities

- Involving cities and towns in the climate ambition
- Helping them to sign Covenant of Mayors (COM) (Hasselt and Genk did so already)
- Limburg became a Supporting Structure (septembre 2010), now Covenant Coordinator
- Partners: Province, Infrax, BBL, Dubolimborg
- Extensive guidance and support for a local climate policy

Limburg CLIMATE NEUTRAL in 2020



Key partners:



Infrax (www.infrax.be)

- Distribution network operator (electricity, gas and cable)
- Promotion of rational energy use
- Monitoring energy consumption and energy audits for municipalities
- ESCO
- Grants for energy saving investments for residents and municipalities

Limburg CLIMATE NEUTRAL in 2020



Key partners:



Bond Beter Leefmilieu (www.bblv.be)

- Flemish umbrella organisation for more than 140 local environmental movements in Flanders
- Important projects:
 - Lokaal Kyoto protocol (implementing Kyoto locally)
 - Energy neighbourhoods
 - COME 2 COM (IEE project promoting COM)



Limburg CLIMATE NEUTRAL in 2020



Key partners:



Dubolimburg (www.dubolimburg.be)

- Support centre for sustainable building in Limburg
- Cooperation between Province of Limburg, Bond Beter Leefmilieu and Cedubo (flemish centre for sustainable building)
- Citizens, building sector, municipalities
- 8 FTE and 500 000 euro budget
- Financing: province and EFRO, Interreg, LSM...

Limburg CLIMATE NEUTRAL in 2020



TACO2: approach municipalities

Global tasks of partners:

- Inform, consult and get involvement of stakeholders
- Monitoring and evaluation of figures and actions
- Search for best practices, setting up experiments, workshops, training...
- Organising the proces (local meetings with steering committee, mayor or councillor...)
- Communication

Limburg CLIMATE NEUTRAL in 2020



TACO2: approach municipalities

Drafting local sustainable energy action plans based on:

- Baseline emission inventory (provided by the partners)
- Actions from provincial TACO2
- Sustainable building scan:
what's the local situation and what can be done?
(saving energy, insulation, heating...)
- Renewable energy scan:
what is the potential of renewable energy?
(wind, sun... on buildings, territory...)
- Local mobility plan

Limburg CLIMATE NEUTRAL in 2020



TACO2: approach municipalities

Organising provincial campaigns with stakeholders:

- 'Elke dag zondag' (every day Sunday), on solar energy (2007-2009)
- 'Limburg isoleert.be' (Limburg insulates), on insulation (2009-2011)
- 'Warm Limburg', new campaign on green heating (2011-2013)



Limburg **CLIMATE NEUTRAL** in 2020

TACO2: approach municipalities

Other support and follow up:

- Searching for national/European funding for investments and actions
- Limburg Climate Fund (launch 8 may)
- ESCO (Infrax) and third party financing
- COM: implementation report (every 2 year)
- COM: monitoring emission inventory (every 4 year)

Limburg **CLIMATE NEUTRAL** in 2020



TACO2: approach municipalities

Timing

- January 2011:
Ambition scan and political commitment (already 20/44!)
- February 2011:
First contact with staff members and deputy or mayor
- March 2011....:
Inventory current framework & baseline emission inventory
- November 2011:
All 44 mayors signed the COM and a commitment with the province

Limburg CLIMATE NEUTRAL in 2020



30 november 2011...

TACO2: approach municipalities

Timing

- November 2011 - november 2012:
Writing SEAPs, based on a standard model action plan
- 2012 - 2020:
Implementation and evaluation
Implementing report (every 2 year)
Monitoring emission inventory (every 4 year)

Limburg **CLIMATE NEUTRAL** in 2020



Still...

**“Limburg
CLIMATE
NEUTRAL
in 2020:
a huge
challenge”**



From the moon, july 20th, 1969

Contact:

Patrick Boucneau

Department of environment and nature

pboucneau@limburg.be

Province of Limburg

Universiteitslaan 1

3500 Hasselt (Belgium)

www.limburg.be

www.limburgklimaatneutraal.be



infrax

DABO
LIMBURG.BE



Bond Beter Leefmilieu
KOEPEL VAN MILIEUVERENIGINGEN Vlaanderen...

