Public Authorities Implementing Energy Efficiency Policies
PUBLENEF Final Conference

Brussels 10th October 2018

From European Union targets to effective policies the road so far and the challenges ahead
Transition to a resilient and nearly zero emission urban territory in 2050

Marc SCHLITZ
Strategic Development Unit
City of Liège (Belgium)
Without strong additional measures, Paris commitments won’t be respected.
This meeting will change all!

Wouldn't it time to do something?

- Coffee?
- No Panic
- Pas de panique
- Est-ce qu'il ne serait pas temps de faire quelque chose?
Implementing EU Roadmap at local level

PARCOURS SOUPLES, AJUSTABLES AUX REALITES LOCALES :

1) Analyse de la situation

2) Fixation et planification des objectifs stratégiques

Engagement politique

Améliorer la compréhension

Définir les ambitions

Plan d'action

Parcours d'atténuation
Parcours d'adaptation souple

Faire un suivi de l'avancement, réajuster les priorités

Mise en œuvre des actions pratiques

Année 4/6/8... (tous les deux ans)

Rapport d'avancement

3) Mise en œuvre, suivi et rapports
### Sustainable Energy and Climate Action Plan - SECAP

<table>
<thead>
<tr>
<th>Year</th>
<th>Mitigation</th>
<th>Adaptation</th>
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<tbody>
<tr>
<td>2020</td>
<td>- 20% GHG reduction</td>
<td>Integrated policies and measures to enhance resilience to CC expected effects:</td>
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<td>- 20% Energy saving</td>
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<td>- 20% Renewable Energy</td>
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<tr>
<td>2030</td>
<td>- 40% GHG reduction</td>
<td>Heat waves, water ressources, flooding, biodiversity lose, …</td>
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<td>- 27% Energy saving</td>
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<td>- 27% Renewable Energy</td>
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<td>2040</td>
<td>- 60% GHG reduction</td>
<td>Risks for goods and persons, economic loses, …</td>
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<td>2050</td>
<td>- 80 – 95% GHG reduction</td>
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GHG emissions balance

Emissions de CO2 par secteurs - 2009 (tonnes/an et %)

- Transport
  - 330.084; 21%
  - 38.258; 2%
  - 9.317; 1%

- Housing
  - 694.373; 44%

- Tertiary
  - 505.010; 32%

- 1% public lighting
- 21% transports
- 78% buildings
GHG emissions balance

1% public lighting
18% transports
30% electricity
51% heating

Répartition des émissions de CO2 par vecteurs

Electricity
483.363; 30%

Fuel for vehicles
9.317; 1%

Heating products
810.427; 51%
GHG – Emission Balance

Tonnes CO2/an

- Communaux
- Tertiaire et Industries
- Résidentiels
- Éclairage public
- Commune
- Public
- Privé
- Hydroélectrique
- Cogénération
- Thermique
- Photovoltaïque
- Électricité verte
- Compensation
- Bâtiments
- Transport
- Energie renouvelable
- Plantation d'arbres
Let’s mobilise together for tomorrow challenges!

City Project 2012-2022

77 priority actions to implement citizens’ choices
Proposal of Climate & Energy Territory Action Plan 2030 - 2050

Main Objectives:

1- Respect of the CoM commitments 2030

2- Implement the EU Roadmap 2050 in order to contribute to the Paris Agreement for the 21st Century
Proposal of
Climate & Energy Territory Action Plan
2030 - 2050

5 complementary axels of action:

1- Reduce drastically the energy consumptions and GHG emissions

2 – Supply the territory with renewable energy

3 - Modernise, adapt and secure the supply and distribution energy grids

4 – Reduce the vulnerability of the territory and of the population to climate events

5 – Enhance the collective intelligence, the solidarity mechanisms and the extra-municipal cooperation
Proposal of Climate & Energy Territory Action Plan 2030 - 2050

Mitigation path: Quantified Objectives:

1- Reduce the GHG emissions per inhabitant by 55% to 2030 and by 80% to 2050

2- Balance the resting 20% via biomass absorption mechanisms and more efficient processes, including in the frame of our cooperation programs, in order to get a zero emission territory in 2050

3- Replace the fossil energy sources by others in order to get a RES supply rate of 50% in 2030 and 100% in 2050.
Proposal of Climate & Energy Territory Action Plan 2030 - 2050

Mitigation path: Quantified Objectives:

1- Reduce the GHG emissions per inhabitant by 55% to 2030 and by 80% to 2050

Building sector: « Walloon long-term strategy for the energy retrofitting of the building stock »

Objectives 2050:
- All housing buildings – mean energy label enhanced from G to A
- All tertiary buildings – label « energy positive »

Costs: 63 billions € - i.e.: 4 billions for Liège

5,000 housing units to be retrofitted per year up to 2030
Proposal of Climate & Energy Territory Action Plan 2030 - 2050

Mitigation path: Quantified Objectives:

1. Reduce the GHG emissions per inhabitant by 55% to 2030 and by 80% to 2050

2 dedicated INTERREG V B NWE Projects
Proposal of Climate & Energy Territory Action Plan 2030 - 2050

Mitigation path: Quantified Objectives:

1- Reduce the GHG emissions per inhabitant by 55% to 2030 and by 80% to 2050

Transport sector: «Walloon strategy»

Objectives 2050:

- Reduction by 80% of the sectoral GHG emission;
- Decarbonation of the transport’s energy vectors

Costs: ????
Proposal of
Climate & Energy Territory Action Plan
2030 - 2050

Mitigation path: Quantified Objectives:

2- Balance the resting 20% via biomass absorption mechanisms and more efficient processes, including in the frame of our cooperation programs, in order to get a zero emission territory in 2050

2015
EC – DG DEVCO
Covenant of Mayors for Sub-Saharan Africa
International Cooperation:

Lubumbashi RD Congo
Reforestation and greening program
(200,000 trees/y)

Supported by AIMF
Proposal of
Climate & Energy Territory Action Plan
2030 - 2050

Mitigation path: Quantified Objectives:

3- Remplace the fossil energy sources by others in order to get a RES supply rate of 50% in 2030 and 100% in 2050.

Main Actions:
- Development of the district heating & cooling grid / waste treatment plant – 200 GWh/y = 50% of needs in 2050
- Shift of the transport sector to sweet mobility and electricity
- Involvement of publics actors, citizens and stakeholders in a new participative energy government scheme between urban and rural areas: the « Liège’s Energy Belt »
Resilience path – the « Liège Food Belt »
Resilience path – the « Liège Food Belt »

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https://lespetitsproducteurs.be/
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