



TOMORROW LEADING THE ENERGY TRANSITION BOTTOM UP!

Frédéric Boyer, Energy Cities

Covenant Investment Forum – 19 February



Funded by the H2020 programme of the European Union



TOMORROW

THE CONTEXT

CITIES IN THE FRONTLINE

- ▶ *Paris Agreement*
- ▶ *New - Climate culture*
- ▶ *New - EU Climate Pact*



Covenant of Mayors
for Climate & Energy



AIM OF THE PROJECT

LEADING THE ENERGY TRANSITION BOTTOM UP!

Empowering local authorities to lead the transition towards low-carbon, resilient and more liveable cities

Six cities will develop **2050 transition roadmaps** together with citizens and other local stakeholders and serve as pilot for the transition of European territories





MAIN ACTIONS

From September 2019 to August 2022 we will:

-  Review existing methods & approaches
-  Train cities in transition management & innovative engagement processes
-  Develop a methodological toolbox
-  Manage an energy transition community of practice
-  Co-design cities' transition roadmaps
-  Develop an EU narrative for zero-carbon cities



#CitiesOfTOMORROW

THE PARTNERS

▶ SIX PILOT CITIES

Brasov (Brasov Energy Agency), Romania

Brest (Brest-Metropolis, Pays de Brest), France

Dublin (Dublin's energy agency), Ireland

Mouscron (City of Mouscron), Belgium

Niš (City of Niš), Serbia

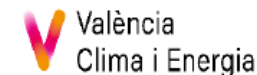
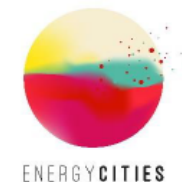
Valencia (City of Valencia, Valencia Climate Observatory), Spain

▶ DRIFT

Methodological support

▶ ENERGY CITIES

Coordination and guidance



🎯 → WHAT'S IN IT FOR YOU?

- 🎯 TOMORROW's methodology to develop a long-term transition roadmap
- 🎯 TOMORROW's Learning Relays and Master Classes
- 🎯 TOMORROW's community of practice on energy transition
- 🎯 Support in the development of your city's 2050 transition roadmap

🎯 → TOMORROW's Learning Relay
Dublin - 24 September



THE COMMUNITY OF PRACTICE

- ▶ PILOT CITIES TO TEST AND EXPERIMENT
- ▶ LIGHTHOUSE CITIES TO BE INSPIRED



 Nantes
Métropole

gent:



LEUVEN
2030

- ▶ YOUR CITY TO JOIN..... <https://energy-citi.es/TOMORROWCommunity>

Linked 

 #CitiesOfTOMORROW



TOMORROW

www.citiesoftomorrow.eu

THANK YOU!

CONTACT

| contact@citiesoftomorrow.eu

L.E.U.V.E.N.

“A catalyst project
enabled with ELENA funding”

**Covenant of Mayors' Investment Forum
Energy Efficiency Finance Market Place
Brussels, 18 - 19 February 2020**



**iCapital 2018
RUNNER-UP**

EUROPEAN CAPITAL
OF INNOVATION



MINDER UITSTOOT, MEER TOEKOMST

L.E.U.V.E.N. – Intro



EIB – ELENA



Leuven 2030



Network



Support



Investments



Communication



Roadmap



Dissemination



L.E.U.V.E.N. - PART 1



Dissemination



Roadmap



Communication



Investments



Network



Support



EIB - ELENA



Leuven 2030

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L.E.U.V.E.N. – ELENA



European Local Energy Assistance



🏠 > What we offer > Advising >

Engagement :

- Leverage factor 20
- Dissemination

ELENA – supporting investments in energy efficiency and sustainable transport

L.E.U.V.E.N. – Leuven 2030



Unique set-up

- Supported by the city of Leuven
- > 600 members from all actors in society

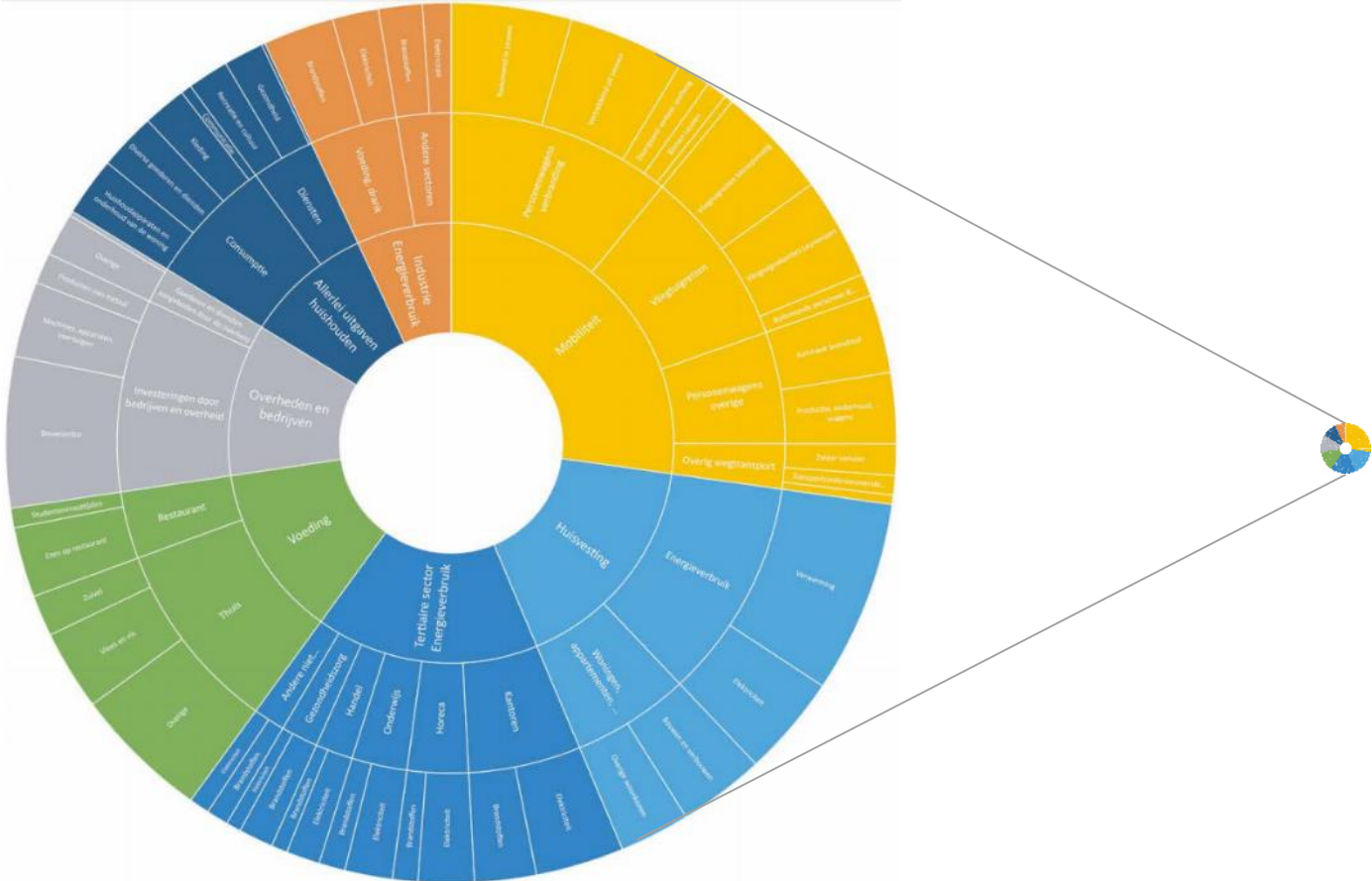
Some highlights

- 2011: covenant of Mayors
- 2013: start of Leuven
Klimaatneutraal 2030
- 2016: rebranding -> Leuven 2030
- 2017: kick-off ELENA-project
L.E.U.V.E.N.
- 2019: Roadmap 2025 · 2035 · 2050

Goal: climate-neutral by 2050



L.E.U.V.E.N. – Leuven 2030



Goal: climate-neutral by 2050



L.E.U.V.E.N. – Network



VME Leeuwerikenveld



RE-INVESTO
(Muntstraat)



Kinderopvang 't Eekhoorntje vzw



Lower Energy Use Via an Extraordinary Network

- 18 -> 24 partners
- Interesting mix:
 - Big / small
 - Public / private
 - With / without technical competences
- Collaboration and co-creation
 - Knowledge sharing
 - Community building
 - Increasing the ambition, accelerating the pace

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L.E.U.V.E.N. – Support



ELENA-funding

Amount: 1.560.000 €

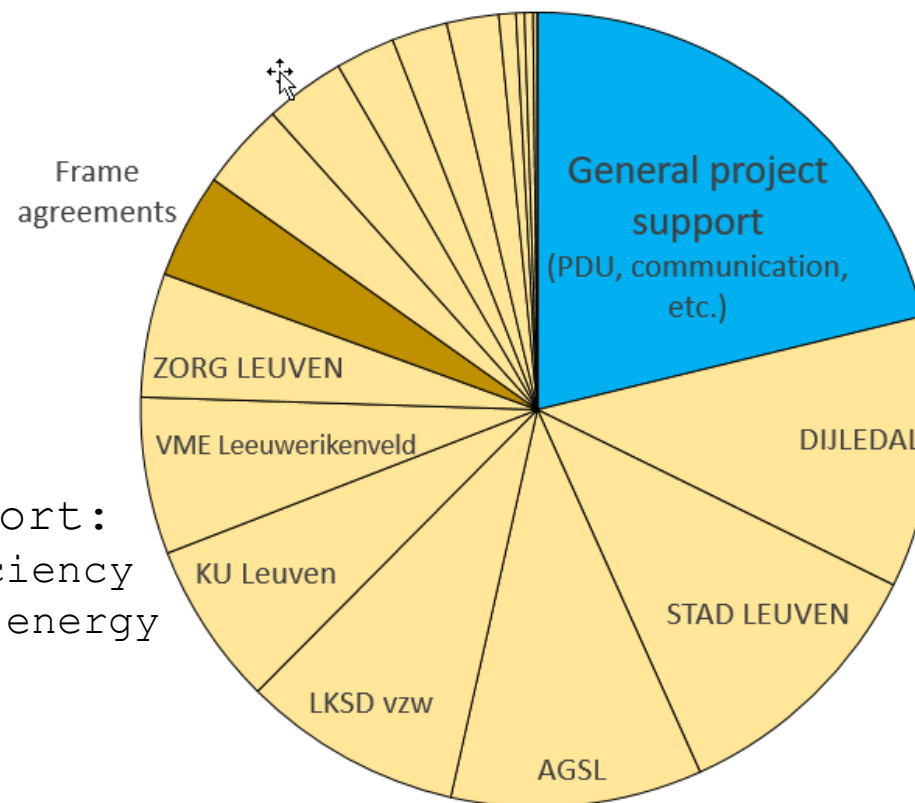
Period: 1 Dec. '17 – 30 Nov. '20

Partner network

37 projects, focus on technical support:

- ✓ Approaches to improve energy efficiency
- ✓ Feasibility studies for renewable energy
- ✓ Follow-up of implementation

➤ **75% of funding goes to partners**



L.E.U.V.E.N. – Support



Project Team (PDU)

- Project engineer (80%), project manager (80%), coordinator (20%) and communication support (10%)
- Supporting role on different levels in the project:
 - Compliance: reporting, follow-up and accounting
 - Technical: support tendering process and evaluation
 - Network: meetings and contracts with partners and engineering offices
 - Story telling: communication and dissemination



L.E.U.V.E.N. - PART 2



Dissemination



Roadmap



Communication



Investments



Network



Support



EIB - ELENA



Leuven 2030



L.E.U.V.E.N. – Investments



Investment Programs

- Increased to 37 programs
>40 buildings
- Leverage factor 25 -> 35
- High variety:
 - light renovation
 - deep renovation
 - renewable energy
- Different stages of execution



L.E.U.V.E.N. – Investments



Building sites,
visibility in the streets



L.E.U.V.E.N. – Communication



Story telling and events

- Website
www.bouwenaan2030.be
- Stories on social media and in monthly newsletter
- Press releases on investment milestones
- Events
 - Network November 2019
 - In preparation

LESSEN VAN EEN GROTE



L.E.U.V.E.N. – Roadmap Leuven



6 clusters:

1. Accelerated building renovations
2. Radical change towards sustainable mobility
3. Local generation of green energy
4. Sustainable consumption
5. Green and resilient city
6. Facilitating the transition

L.E.U.V.E.N. – Roadmap Leuven



13
programs,
80 sites

18 program
facilita
tors



L.E.U.V.E.N. – Roadmap Leuven



**“L.E.U.V.E.N. project
is crucial for
kickstarting program
2”**

- Retrofitting non-residential buildings
- Highly interlinked with:
 - [1] residential buildings
 - [2] new buildings
 - [7] green energy (transition)

[PROGRAM 1] RETROFITTING RESIDENTIAL BUILDINGS

Site 1	Reaching out to private owners of residential buildings
Site 2	Providing advisory support for retrofitting residential buildings
Site 3	Addressing regulatory and financial barriers to retrofitting residential buildings
Site 4	Retrofitting social housing
Site 5	Setting up projects of joint retrofitting
Site 6	Retrofitting private residential buildings on an individual basis
Site 7	Addressing the energy consumption of equipment and appliances in residential buildings

[PROGRAM 2] RETROFITTING NON-RESIDENTIAL BUILDINGS

Site 8	Retrofitting the building stock of the major building owners
Site 9	Retrofitting the remaining, energy-intensive buildings
Site 10	Establishing pilot districts for the non-residential sector
Site 11	Reaching out to the owners of the remaining non-residential buildings
Site 12	Providing advisory support for retrofitting non-residential buildings
Site 13	Addressing regulatory and financial barriers to retrofitting non-residential buildings
Site 14	Retrofitting individual non-residential buildings
Site 15	Addressing fixed equipment in large non-residential buildings
Site 16	Adapting behavior and the use of equipment in the non-residential sector

[PROGRAM 3] CLIMATE-NEUTRAL NEW BUILDINGS

Site 17	Addressing the regulation for new buildings
Site 18	Applying smart design to new “BEN” buildings
Site 19	Using sustainable and climate-neutral building materials

**“By 2020 an action
plan to approach
ALL non-residential
building owners.”**

**“By 2025 an action
plan for all energy
intensive buildings.”**

**“Climate plan for the
big patrimony owners
(55% by 2035 and 85%
by 2050)”**



L.E.U.V.E.N. – Dissemination



Further dissemination

In the Leuven region – ideas:

- Growing the network
- Monitoring investment results
- Sharing information and stories

Outside the Leuven region:

- Contribute to funding applications
- Share information and knowledge
- Continue to inspire – lighthouse city



On the road to climate neutral cities - 3 lessons from Leuven

Published on 28/01/2020

In the city of Leuven in Belgium, over 500 public organisations, businesses and citizens united behind a roadmap towards zero-carbon emissions in 2050. In 2019, that roadmap was officially ratified and adopted by the local administration. The six pilot-cities of TOMORROW visited the city and learned how Leuven is spearheading this new governance model. Katrien Rycken is not afraid to admit it: "It was complex: many different parameters had to be aligned". Still, it is easy to feel a jolt of...

[+ Read more](#)

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Dissemination



Roadmap



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Support



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