EIP Smart Cities and Communities

# Action Cluster Meeting

## *Sustainable Districts and Built Environment*

**House of Dutch Provinces**

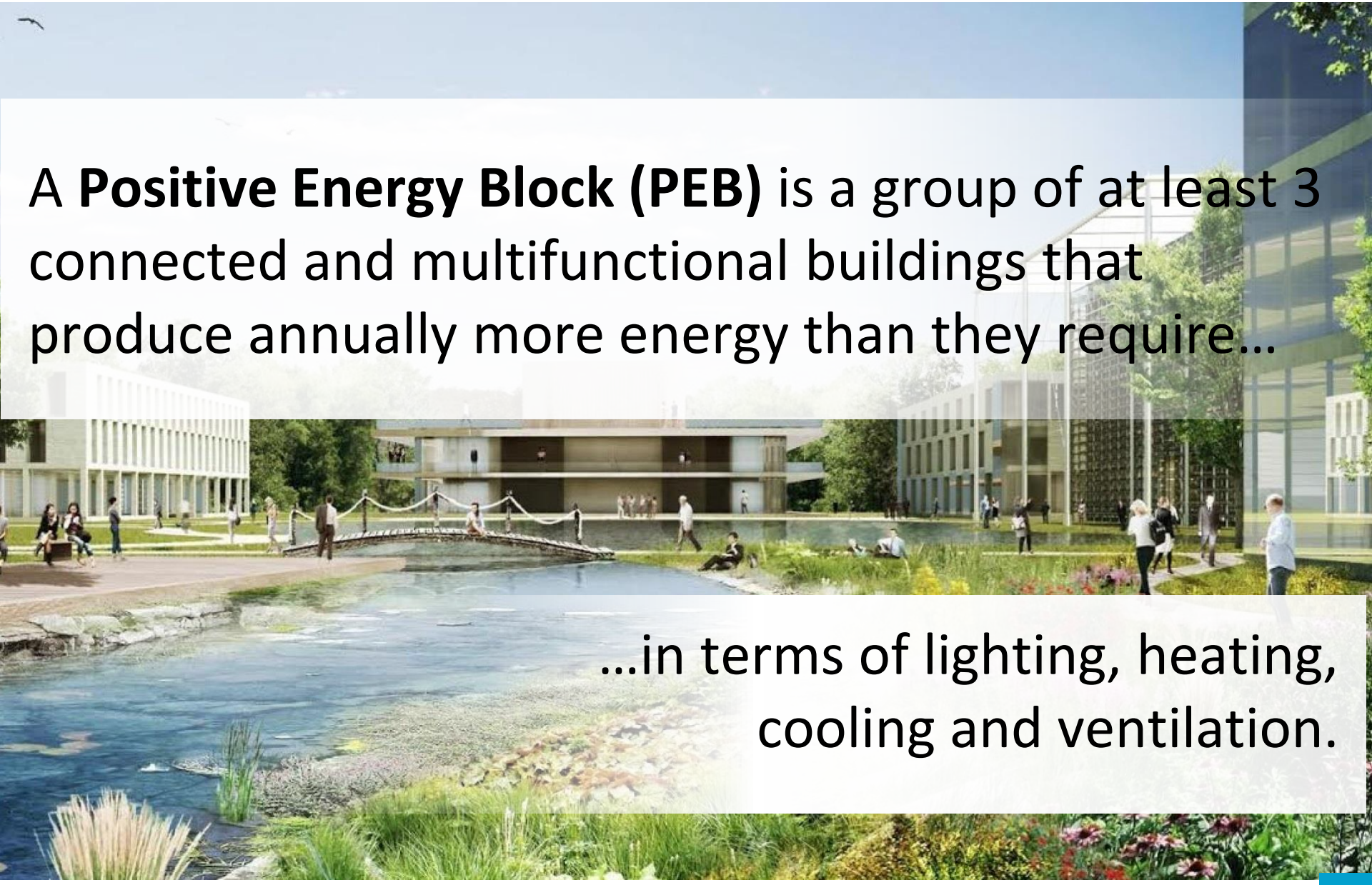
**November 22nd, 2016**

***Brussels***

# Today's themes

1. Citizens
2. Positive Energy Blocks
3. Retrofitting To Passive / Deep Retrofitting
4. Small Giants
5. Renewables production and Storage
6. ICT: Smart Grid management
7. EU policies Framework
8. Water Management and Greening the Cities

# What is a Positive Energy Block ?



A **Positive Energy Block (PEB)** is a group of at least 3 connected and multifunctional buildings that produce annually more energy than they require…

…in terms of lighting, heating, cooling and ventilation.

# OBJECTIVE

**To launch 100 PEB projects by 2020**.

At least 1 PEB per Member State

50% in “Small Giants” (<150.000 inhabitants)

**Focus:** mixed & complementary usage of buildings

ICT for design & management

local renewable energy production

new & retrofitted buildings

public and private actors

**Financing**: exploring Smart Specialisation Strategy (S3) at regional level, EIB, Private investors…

**Location**: Identification specific to each city with preference given to central area for demonstration purposes

# Towards PEBs: the example of HIKARI in LYON (France)

**Photographic credit:**
*HIKARI designed by Kengo Kuma and Associates*

**Field Visit**
of the Positive Energy Block of HIKARI
In **Lyon Confluence**
**8 November 2016**

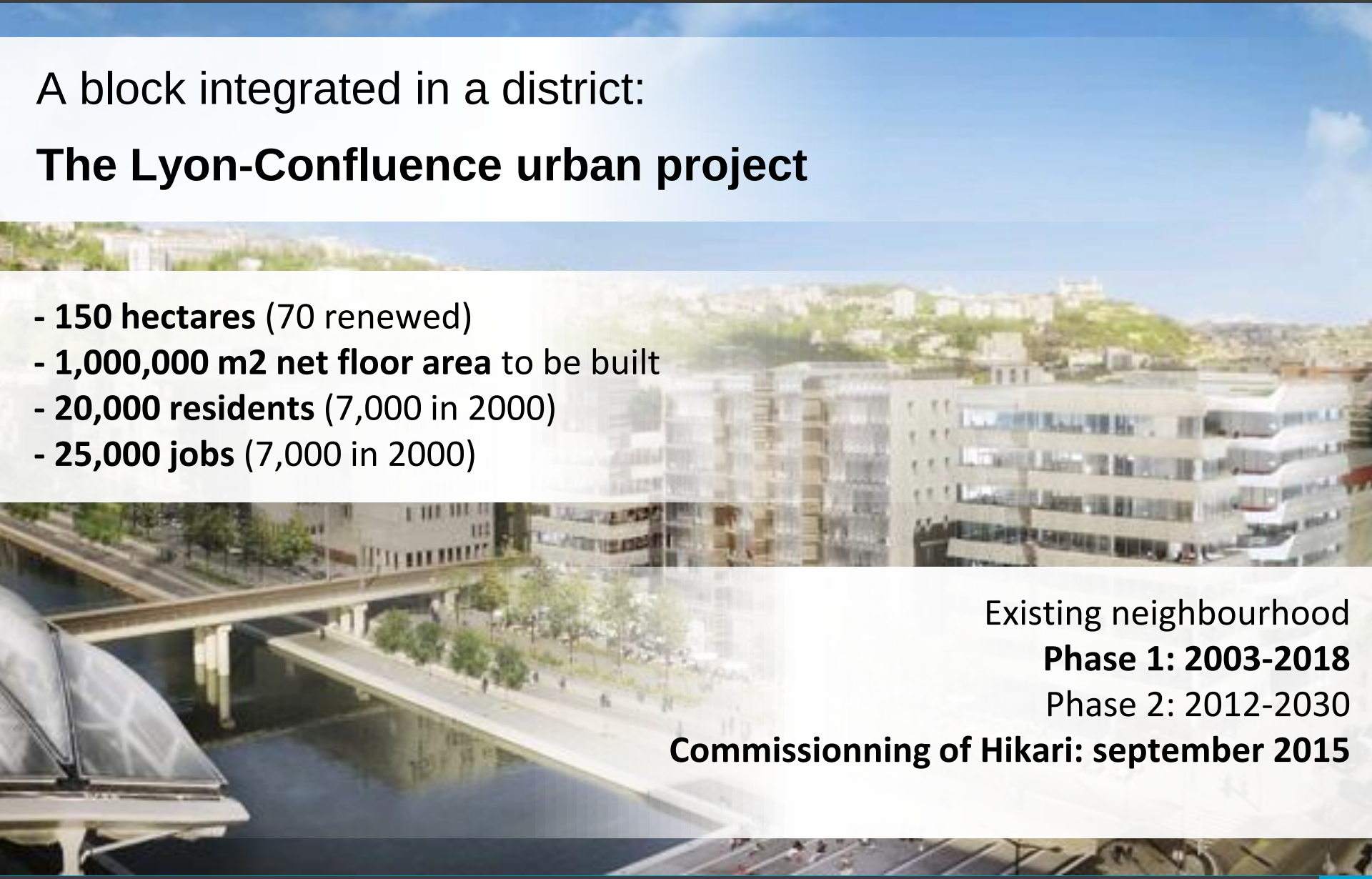
NEXT buildings

# Introduction: a real case in Lyon

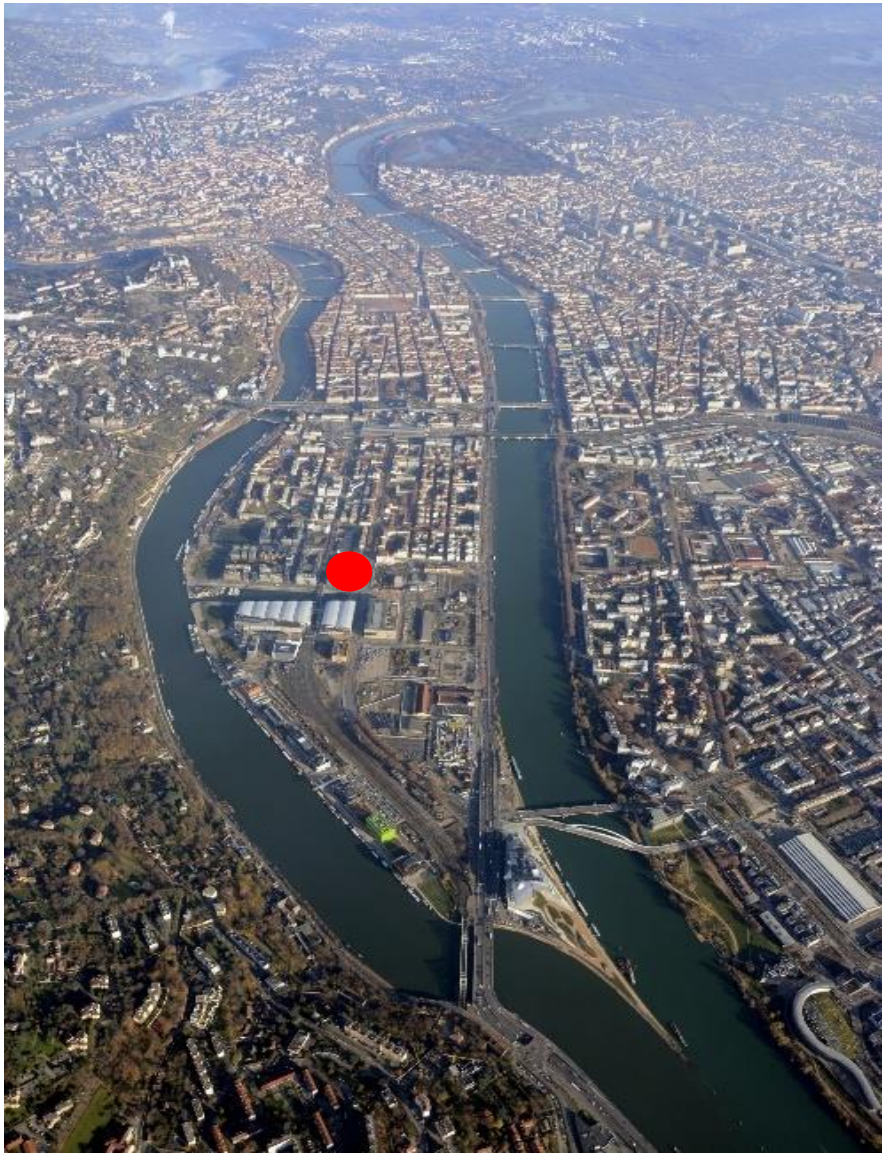
A block integrated in a district:

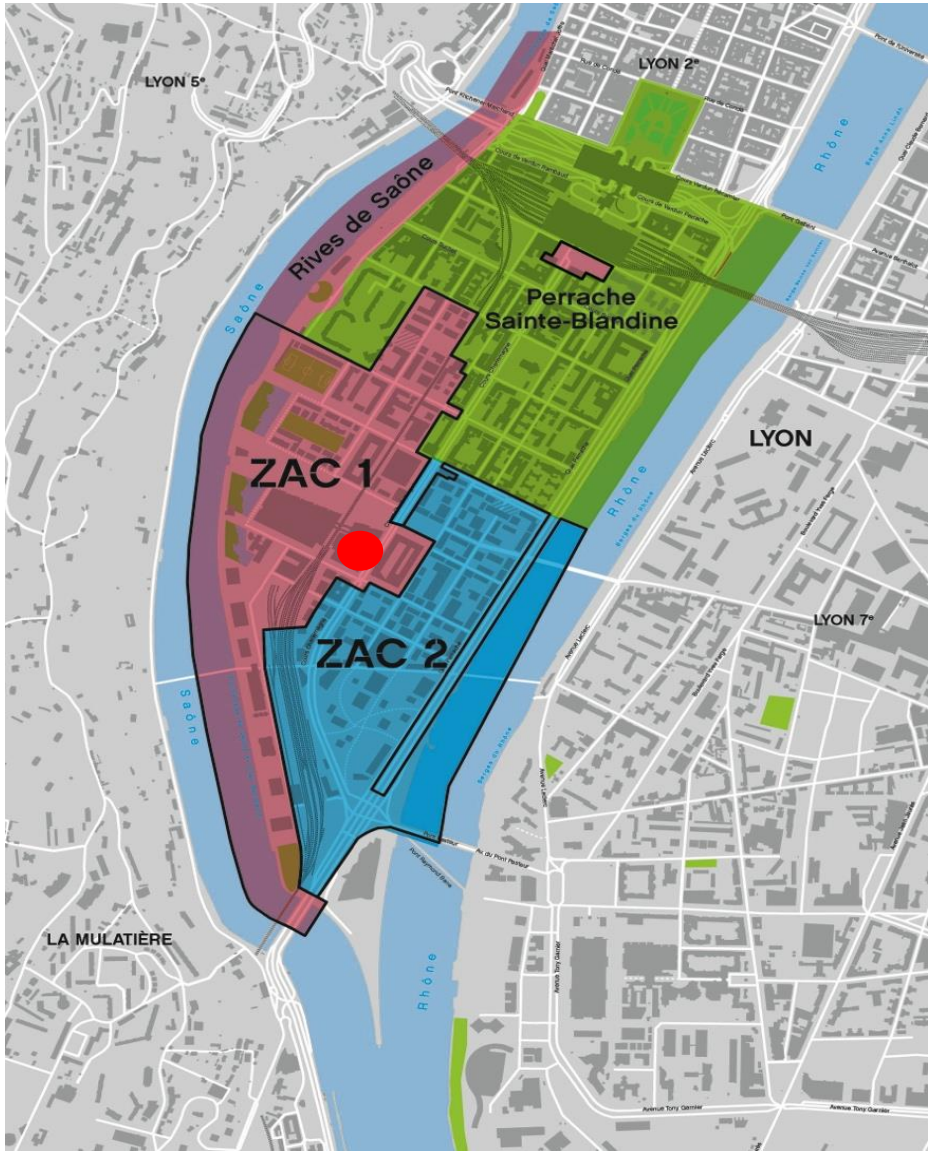
**The Lyon-Confluence urban project**

- **150 hectares** (70 renewed)
- **1,000,000 m2 net floor area** to be built
- **20,000 residents** (7,000 in 2000)
- **25,000 jobs** (7,000 in 2000)

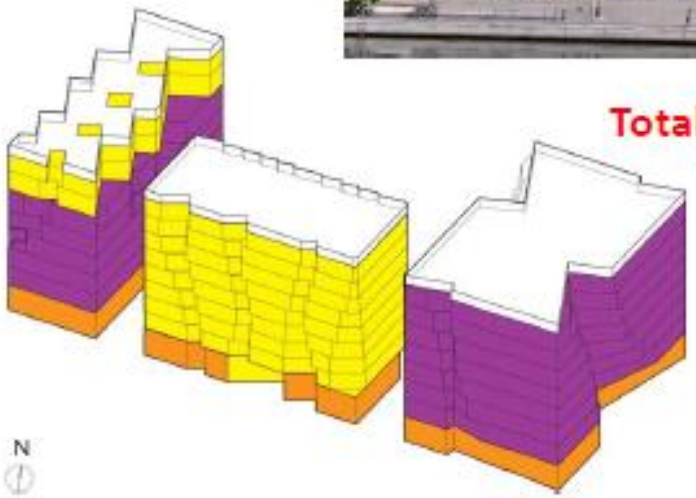


Existing neighbourhood
**Phase 1: 2003-2018**
Phase 2: 2012-2030
**Commissionning of Hikari: september 2015**




LYON 5e
LYON 2e
Rives de Saône
Perrache
Sainte-Blandine
LYON
ZAC 1
ZAC 2
LYON 7e
LA MULATIÈRE
Saône
Rhône

# Hikari: a mix-use block




**Total floor area**: 12,300 $m^2$

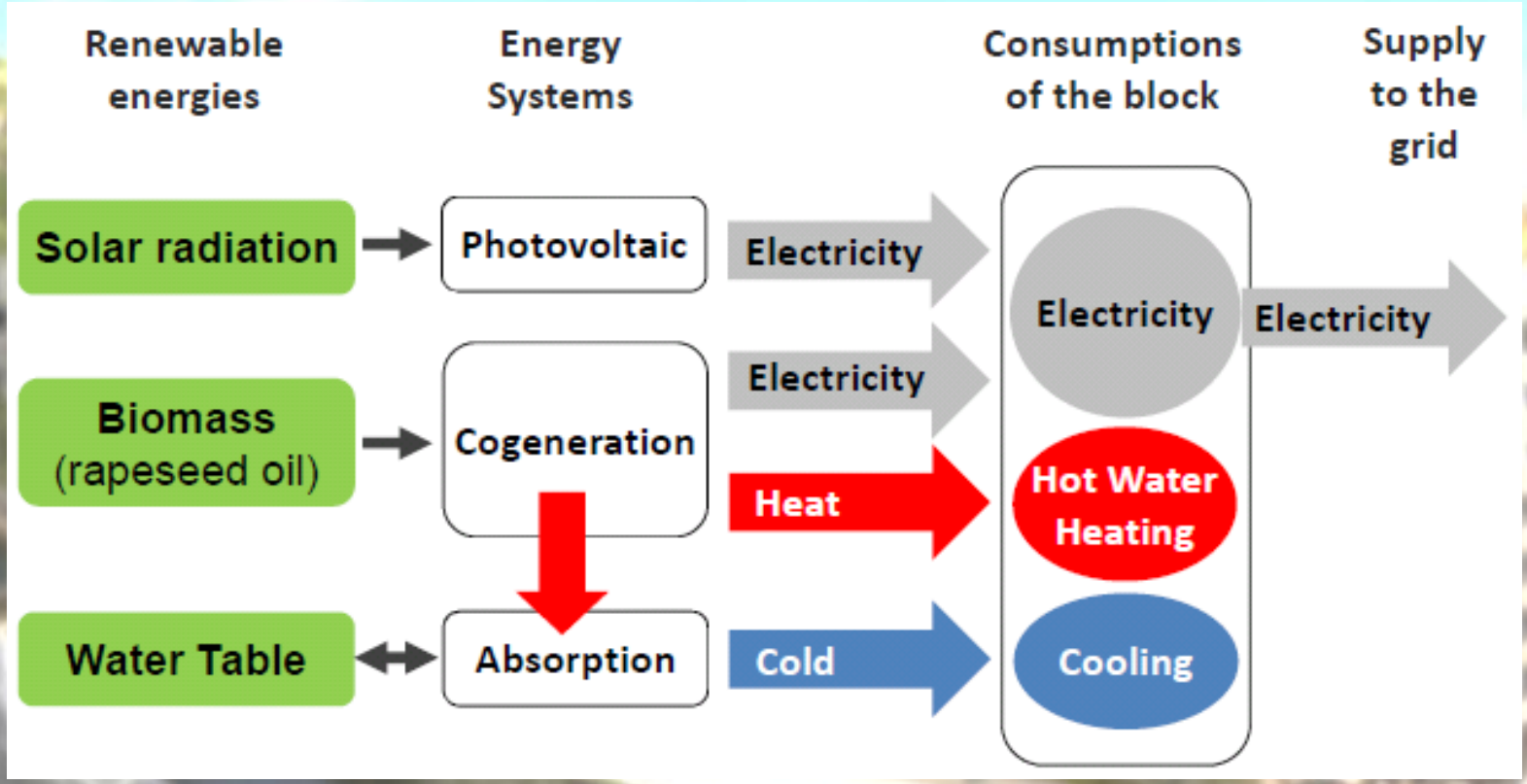
**Dwellings**

**Office spaces**

**Shops**

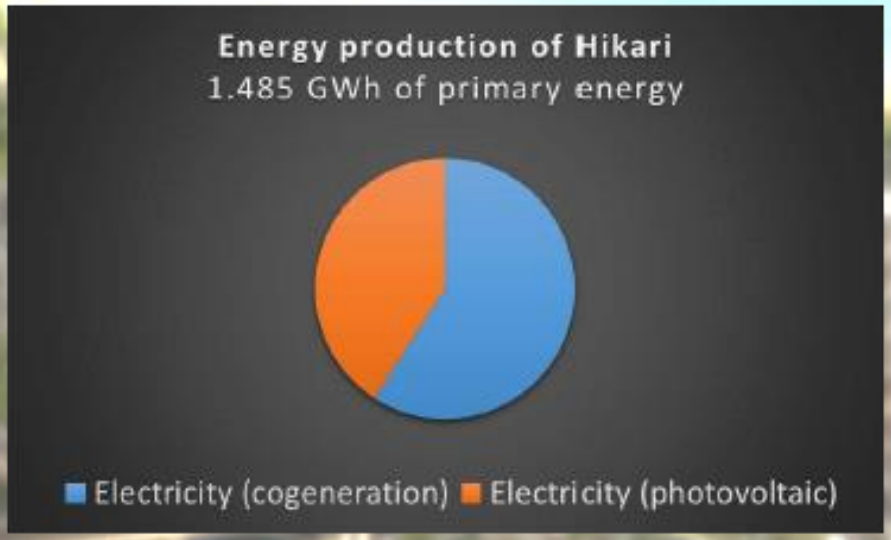
# Introduction: a real case in Lyon

## Hikari: a positive energy block

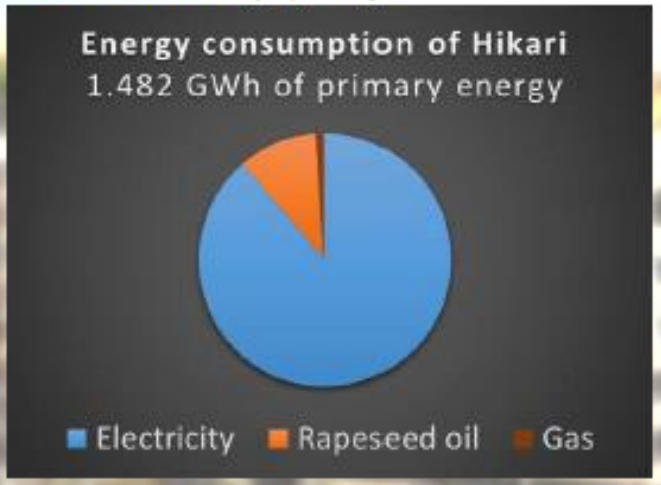


# Introduction: a real case in Lyon

## Hikari: a positive energy balance




+2.8 MWh (0,2%)

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euronews.


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SERVICE GRATUIT
ONLYLYON
ONLY
NAVLY
navya
W-337-HP

**ENERGY ?**

|

**TECHNOLOGY !**

(+economy and sociology…)

|

**CITIZENS…**

# THANK YOU!

https://eu-smartcities.eu

Contact: sustainabledistricts@eu.smartcities.eu

Follow us:

## Objectives

- Get ready for the General Assembly
- Awareness rising
- Sharing our background and discussing way forward

## Agenda

2:00 Welcome and objectives of the day (Eckhart)

2:10 Presentation of 'topics and collaborations' charts to work with (Eckhart)

2:40 Latest news: Focus areas and Areas of collaboration (Initiative leads)

3:10 Collaboration and workplan - initiative needs to be satisfied by other initiatives, how and when

4:10 Agreement on the framework for a common workplan

4:45 Discussion on the evaluation* and wrap up