HIKARI, a mix-use positive energy block in Lyon, France

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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-Confluence: a sustainable action plan**

- **2000**: Positive Energy Blocks
- **2003**: CONCERTO
- **2009**: French label Eco-neighbourhood
- **2010**: 1st French WWF sustainable neighbourhood
- **2011**: French-Japanese partnership
- **2013**: French call Eco-City
- **2015**: Hikari
- **2016**: H2020 Smarter Together
- **2015**: French call Industrial Demonstrator for the Sustainable City

**Timeline**

- **2010**: WWF
- **2015**: French call
Hikari: a mix-use block

Total floor area: 12,300 m²

Dwellings
Office spaces
Shops
Hikari: a positive energy block

Renewable energies

Solar radiation

Biomass
(rapeseed oil)

Water Table

Energy Systems

Photovoltaic

Cogeneration

Absorption

Consumptions of the block

Electricity

Heat

Cold

Supply to the grid

Electricity

Hot Water Heating

Cooling
Hikari: a positive energy balance

Energy production of Hikari
1.485 GWh of primary energy

Energy consumption of Hikari
1.482 GWh of primary energy

+2.8 MWh (0.2%)

source: building permit of Hikari (2012)
After Hikari: what is next for Lyon-Confluence?

Lyon Confluence in 2030
Thanks for your attention!

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