

Dunkirk Carbon neutrality Roadmap by 2030

How to mix urban planning and town planning ?

ID I03

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Summary

- Background/Context
- A unified and cross-disciplinary approach
- Our challenges
- Our urban development and housing strategy
- Our projects and achievements

Background/Context

Low-Carbon National Strategy	Economic upswing
<ul style="list-style-type: none">• France's climate change mitigation roadmap• Make the country carbon neutral by 2050• To lower the carbon footprint of French citizens• To halve our energy consumption across all sectors, focusing on both energy efficiency and demand reduction	<ul style="list-style-type: none">• Building two new-generation EPR nuclear reactors in Gravelines• Battery valley gigafactories (large-scale battery manufacturing facilities)• CAP 2020 Project• ArcelorMittal's decarbonization• Up to 34,000 jobs projected at peak, including 12,000 direct, 4,500 indirect and 7,500 induced jobs

A unified and cross-disciplinary approach

- Transportations
- Home
- Urban development
- Energy
- Individual/Collective scale
- Corporate commitment/engagement

Our challenges



**To deliver 12,000 quality homes
over a decade, reducing land use
and artificialization**

Modularity

Reversibility

Quality

Innovation



Construction
workers

Expatriates

New
residents

**Numerous and diverse temporary
housing accommodations**



**Serving the needs of everyone,
both new and established
residents**

Our urban development and housing strategy

- Land use restraint
- Energy efficiency
- Housing quality guidelines
- Flexibility of the built environment

Our projects and achievements

- Eco-district Glacis
- City Climate Contract
- Community energy sharing loops
- Urban heating network
- Win-win environmental approach
- Our land procurement processes
- Housing quality guidelines
- The school of tomorrow « L'Alliance »

CLIMATE CITY CONTRACT (CCC)

CONTACTS

Typhaine Jaouen, Climate action plan and carbon-neutral territory Project Manager, Sustainable city Dpt, CUD

SUMMARY



Following the successful application for the **"100 climate-neutral and smart cities by 2030"** initiative, the Urban Community of Dunkirk is collaborating with the European Commission to create a **Climate City Contract**. This contract, which will be co-developed with external partners, is a key step towards achieving the initiative's label.

GOALS



- Climate neutrality of the living area by 2030
- Building a new governance structure
- Multi-stakeholder partnerships
- Securing grants for climate neutrality projects
- Public involvement and awareness
- Becoming a pilot city, a hub for decarbonization
- Shifting the collective perception of "decarbonization" away from an exclusively industrial focus, making it relevant to everyone, even at home

PARTNERS



KEY FIGURES



80%
**Greenhouse
gas emissions
reduction**

~~2050~~

2030



COLLECTIVE RENEWABLE ENERGY SHARING SYSTEMS

CONTACTS

Nicolas Olek, Renewable energies Project manager, Sustainable city Dpt, CUD

SUMMARY

The Urban Community of Dunkirk, along with Dunkirk city and Tétèghem-Coudekerque-Village, Les Papillons Blancs de Dunkerque, and Partenord Habitat, is launching a new project called "Soleil Partagé" to promote extended collective self-consumption. This initiative **allows multiple producers to directly supply electricity to multiple consumers under a single legal entity** - a Managing Legal Entity, as long as they are within a 2 km radius.

GOALS

- Master **energy spending** and lessen reliance on fluctuating market prices ;
- Bring together **a community of stakeholders and interests** around solar energy ;
- Diversify **the energy mix** and reduce carbon footprint ;
- Be **a role model** for residents and open up the commercial offer that will be created to them

PARTNERS



KEY FIGURES

2 MW

15

2,5M€

Additional
solar
capacity

Additional
production
facilities

Investments



DISTRICT HEATING SYSTEM (DHC)

CONTACTS

Gregory CARACOTTE, Energy networks Project manager, Sustainable city Dpt, CUD

SUMMARY



ArcelorMittal has been recovering heat from its industrial operations since 1982 to supply heating and hot water **to the equivalent of 16,000 homes**. The 40 km network heats 4,000 social housing units, 2,000 private housing units, and various public buildings including the hospital, Guynemer swimming pool, schools, and community hall.

GOALS

- Driven by the 1970s oil crises, a commitment to finding **local, fossil-fuel-free solutions** and controlling energy expenses,
- Aiming to decarbonize the urban community by fostering **industrial synergies**,
- Strengthening the **territory's resilience** and contributing to **national energy sovereignty**

PARTNERS

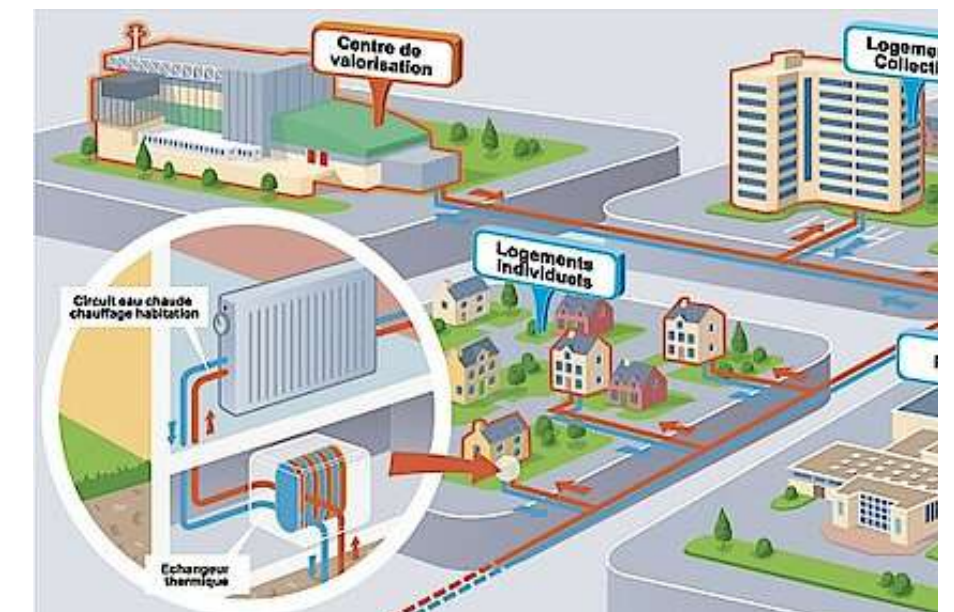


KEY FIGURES

130,5 Annual GWh of distributed heat

70% Share of renewable and recoverable energy

24 Kilotons of CO₂ avoided



GLACIS ECO-DISTRICT

CONTACTS 

Charlotte Boyaval, Innovation Project manager, Sustainable city Department, CUD

SUMMARY



This project seeks to **revitalize a large housing estate in the heart of Dunkirk**, fostering a stronger connection to its urban and natural surroundings.

GOALS



- **Make this neighborhood a showcase for sustainable urban living** by capitalizing on its existing landscape and ecological assets ;
- **Revamp transportation infrastructure to prioritize active mobility**, including a traffic calming plan, reduced parking, and the creation of inviting pedestrian and cycling paths ;
- **Create a sustainable and resource-efficient neighborhood** by building on its strengths, with a particular focus on water conservation. ;
- **Foster a strong sense of community** by prioritizing resident well-being and engaging residents in the design process through co-creation workshops with city and urban community services, the neighborhood center, and the urban planning agency.

PARTNERS



Sia Habitat

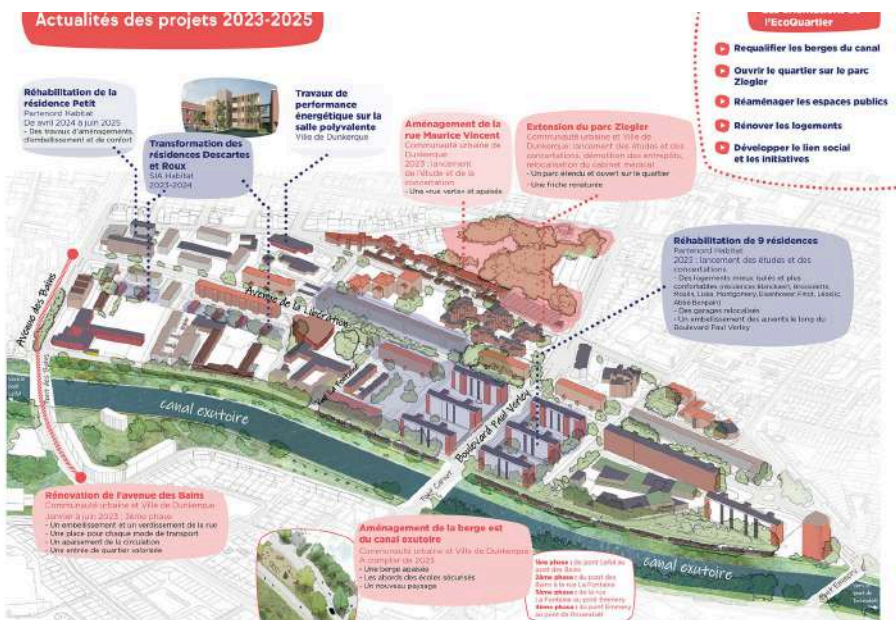
KEY FIGURES



2,3
hectares

1600
dwellings

2850
residents



HOLISTIC ECO-FRIENDLY APPROACH WITH MUTUAL BENEFITS

CONTACTS

Xavier Dairaine, Head of strategic projects, CUD

SUMMARY



The CUD's Eco-Gagnant program is **empowering residents to make greener choices by offering incentives that benefit both individuals and the planet**. From housing to mobility (including water, consumption and waste), the program promotes sustainable practices that reduce environmental impact and improve quality of life

GOALS

- Lower **daily emissions** from residents
- Improve residents' **standard of living**
- Foster eco-friendly behaviors through **positive incentives**



PARTNERS



KEY FIGURES

15+

actions

40

households

*Éco-Gagnant :
un pouvoir d'achat
renforcé et un
environnement
mieux protégé*



MÉTHODES DE MOBILISATION FONCIÈRE

CONTACTS

David Bourgois, Land strategy Project manager, Sustainable city Department, CUD

SUMMARY



To address the issue of land consumption and its impact on biodiversity, the Climate and Resilience Act sets a goal of net zero land consumption by 2050. Strategies to achieve this include **land recycling, urban densification, and decoupling land and buildings.**

GOALS

- Address the challenge of **sustainable and efficient land use** (in line with the Net Zero Land Consumption and Local Urban Development Plan for Housing and Mobility objectives)
- Facilitate **the development of land** for industrial, agricultural, economic, and housing needs

PARTENAIRES



KEY FIGURES

7800

Housing on
existing land

66

Hectares of land
reclaimed
for development



HABITAT QUALITY GUIDELINES

CONTACTS

Paul Leclercq, Social housing Head of Service, Housing Department, CUD

SUMMARY

Setting out quality standards for housing, this charter is intended to guide landlords and developers in **improving residents' quality of life and accessing financial support**

GOALS

- Design **sustainable and low-energy buildings**.
- Provide high-quality living environments, **from the building to the city**
- Put into practice **environmental and ecological goals** (RE2020, energy self-sufficiency, combating urban heat islands, using sustainable materials, recycling, planting local species, etc.)

PARTNERS

Social landlords

Private developers

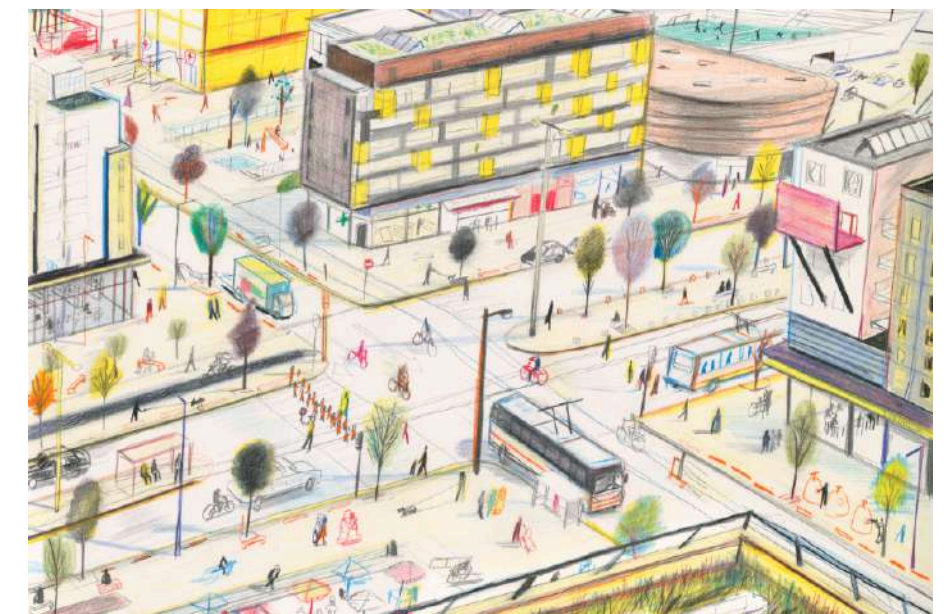
KEY FIGURES

27

core criteria

10

**Accessibility
guidelines
for people
with disabilities**



FUTURE SCHOOL – L’ALLIANCE

CONTACTS



Charlotte Boyaval, Innovation Project manager, Sustainable city Department, CUD

SUMMARY



Within the framework of the urban renewal project for the Banc Vert neighborhood in Dunkirk, the city sought to create a groundbreaking new facility that would serve as a citywide (and beyond) model. This facility will unite the current Meurisse and Giono schools, the Banc Vert community center, a school kitchen, and a school cafeteria under a shared vision

GOALS



- Create a space that fosters living, openness, and citizen empowerment
- Embody the principles of the educational city
- Reinforce the school's role and promote academic achievement
- Provide ongoing educational opportunities beyond school hours
- Create new opportunities by engaging a wide range of education stakeholders

PARTNERS



KEY FIGURES



0

endocrine
disruptors

E3C1

label

600

cooked
meals

