



XXL - Marseille  
New district redevelopment

# Localisation of district redevelopment Center of Marseille







# Project content and partner

Client & Partners :

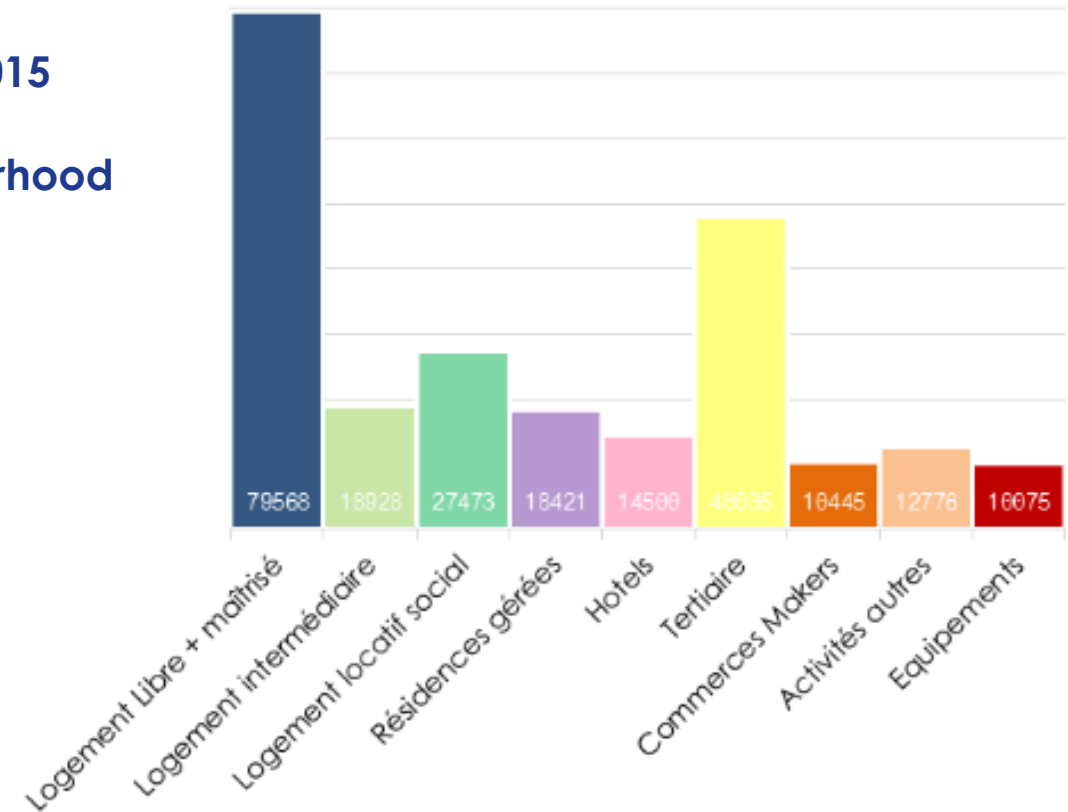


Consultation:

AMI (Call for Expression of Interest) won in November 2015

- Design of a sustainable Mediterranean eco-neighborhood

AREA of 250,000 m<sup>2</sup> with new and refurbished buildings



European Commission

Horizon 2020  
European Union funding  
for Research & Innovation



# Functionality spacial distribution



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EURAC  
RESEARCH



Fraunhofer  
SKANSKA



ANP



sustan



MORETTI

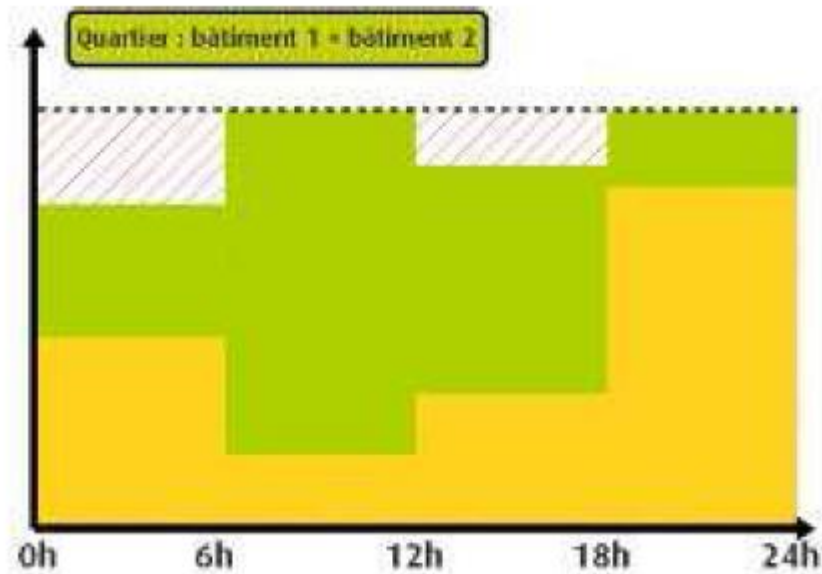
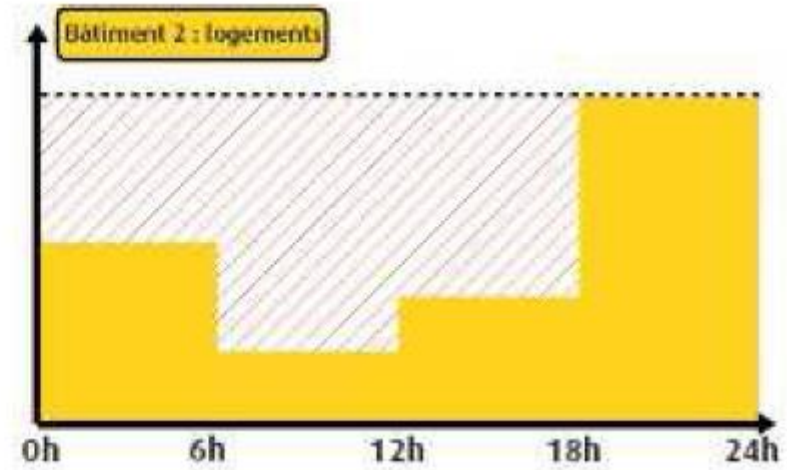
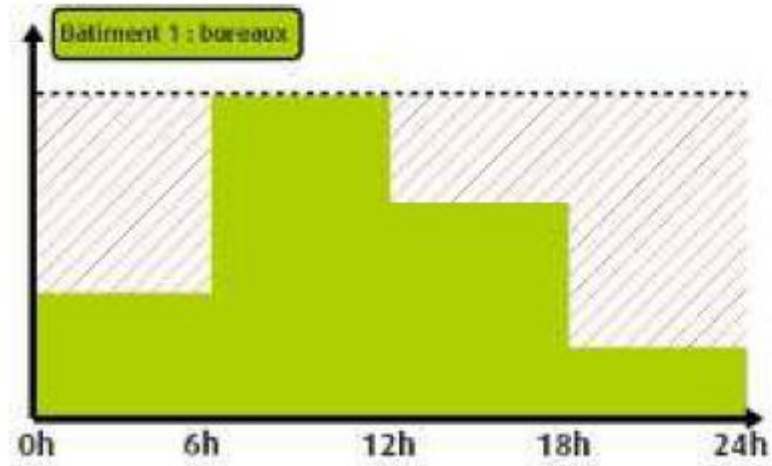


Keller & Mann

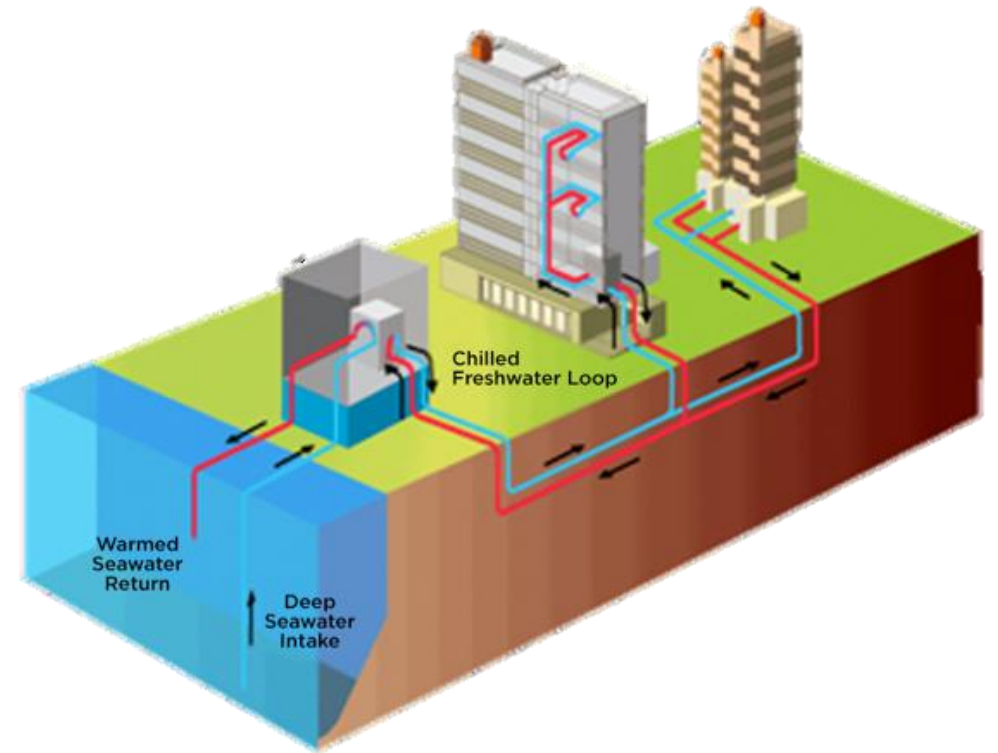
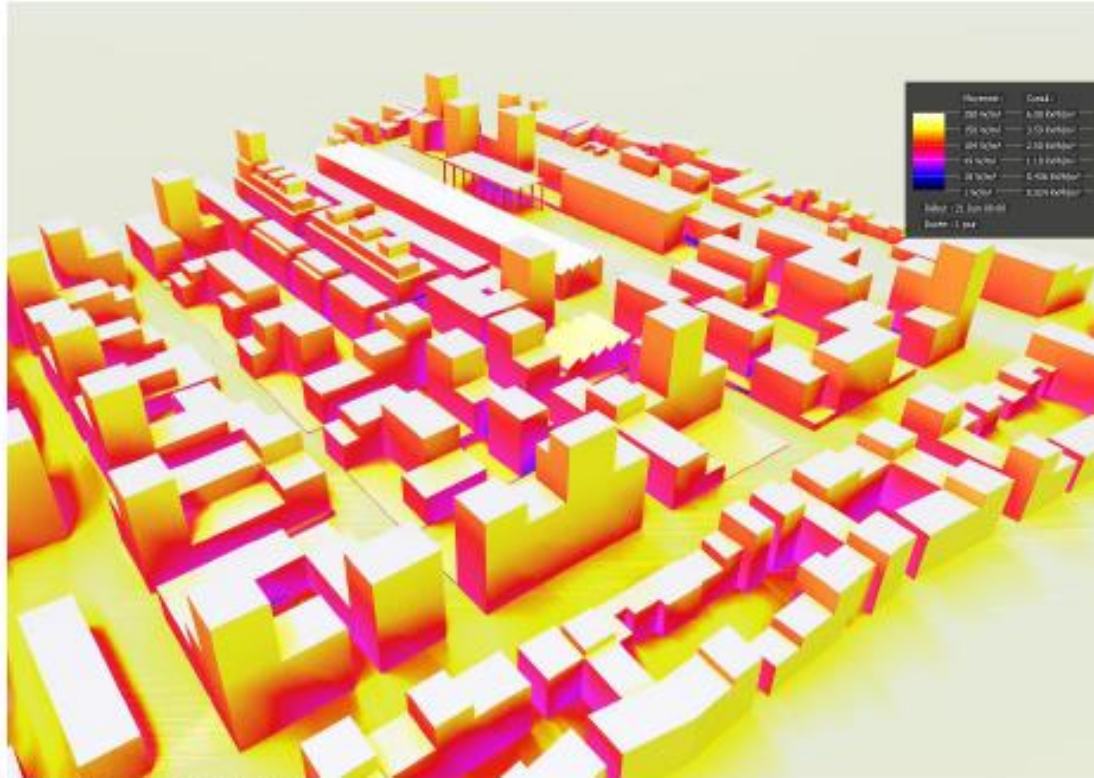


3D

# Mix used development : better diversity factor



# Renewable Energy target : 80% (H&C)



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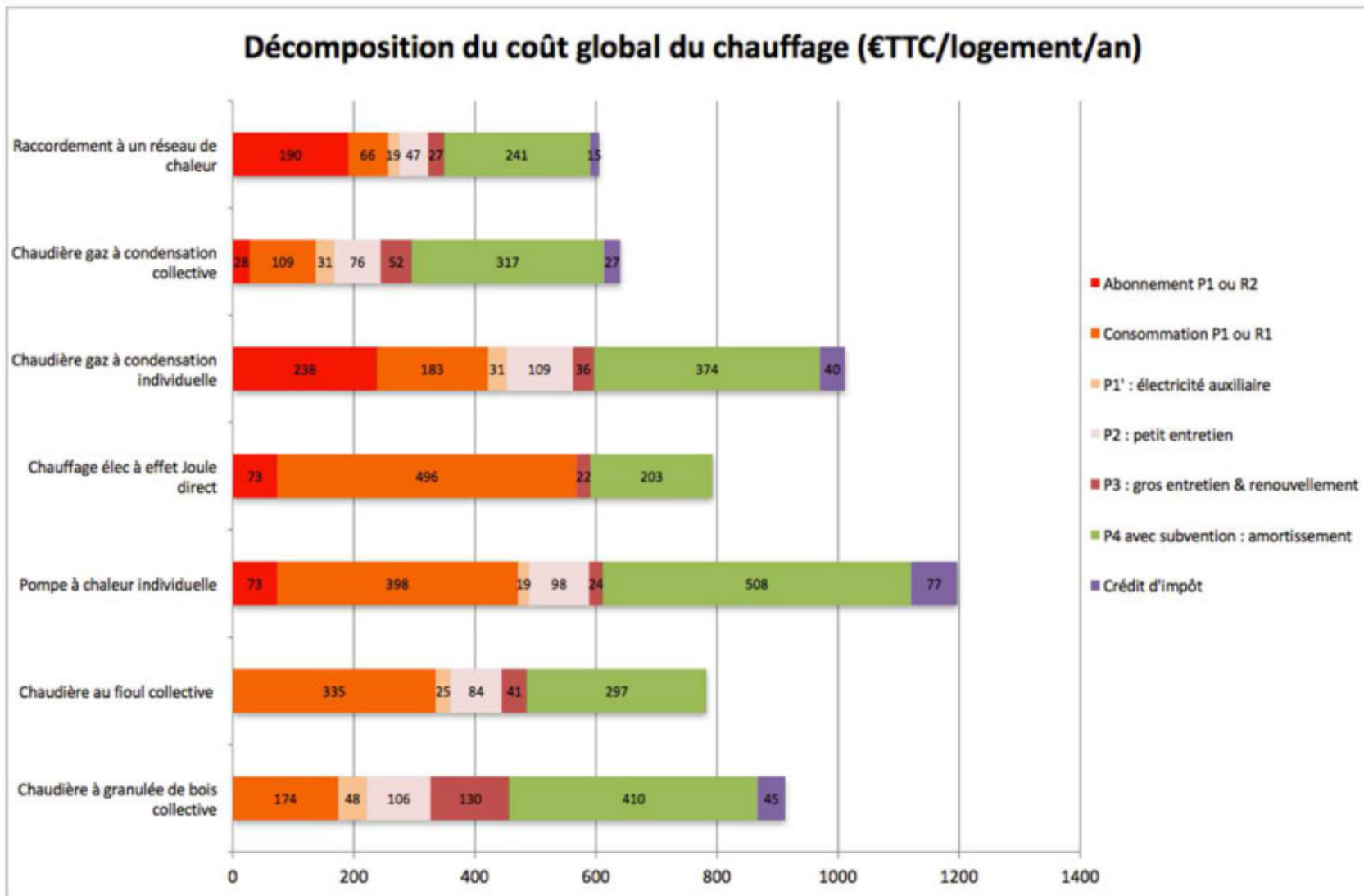


Fraunhofer  
IPT

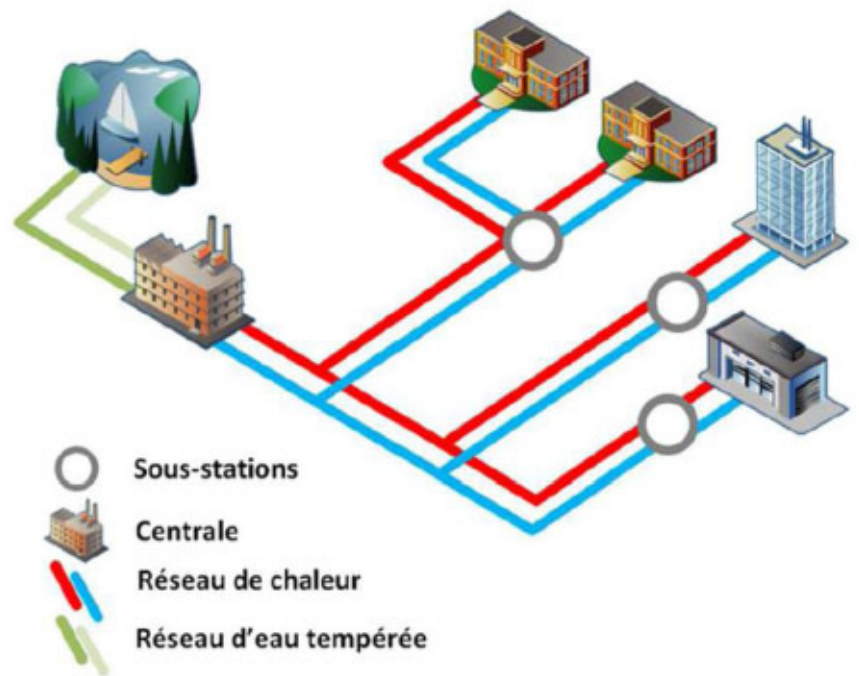


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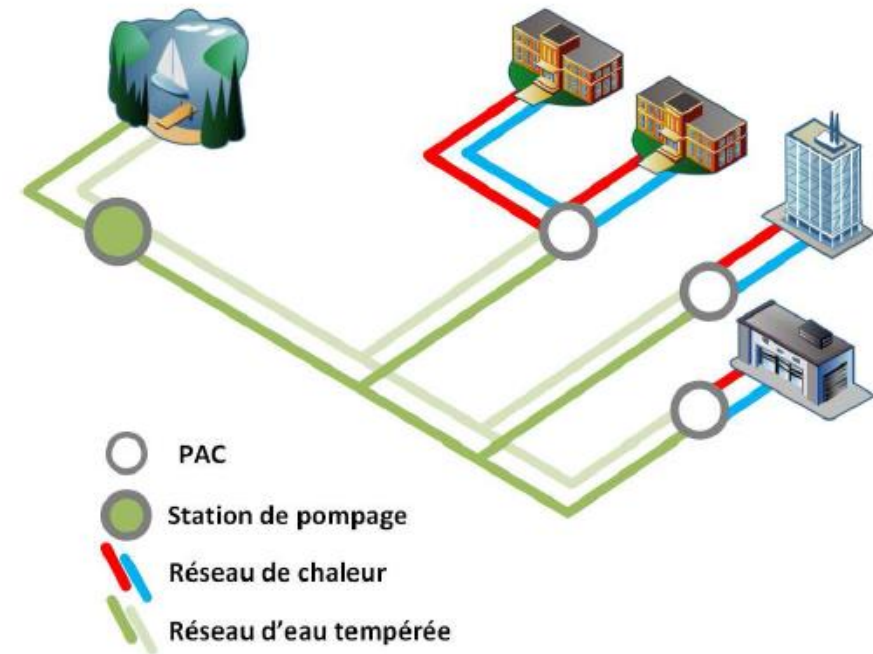
# Life Cycle Cost analysis for heating



# Sea water loop – the thalasso thermal grid



VS



# A business model of thermal energy provider

- Power Purchase Agreement

- Investments and related financial charges
- Grants for the heat fund or the NTE fund in France
- Primary energy expenditure (electricity, etc.)
- Supervision and operating cost
- Maintenance cost
- Major maintenance and renewal cost

➤ **Operator's remuneration: IRR target of 10%**



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THANK YOU

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