



Board 1

Montmélian and its future Triangle Sud solar area

'In the sunshine of course'

Plan of the urban layout and landscaping



- 1 – commercial polarity
- 2 – urban avenue
- 3 – town lift link
- 4 – public facilities: gymnasium
- 5 – sector concerned with the tertiary activity programme
- 6 – current swimming pool
- 7 – preserved alluvial afforestation
- 8 – central square and location of geothermic probes

The sports and leisure park on the edge of the river Isère

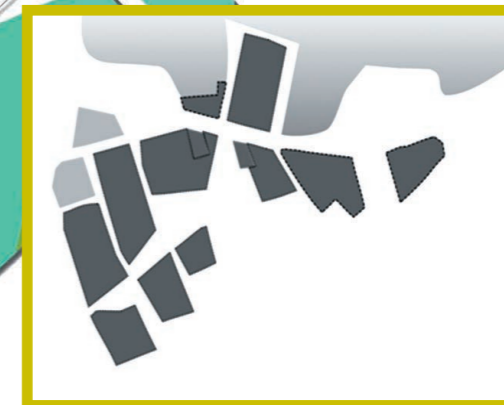
- 9 – eastern gateway
- 10 – existing sports fields
- 11 – new rugby pitch
- 12 – gateway to the river Isère and pontoon – panoramic viewpoint
- 13 – large field with sports activities
- 14 – shared communal garden, retained and developed
- 15 – embankment pathway and cycle path
- 16 – large amount of afforestation around the plots
- 17 – west Gateway to the parc

LIEUX-DITS
PROGRAMMES-URBAINS
CLAIRE LUCAS Urbaniste
TECSOL
INDDIGO
MDP CONSULTING
HELENE SAUDECKERRE
HIS&O



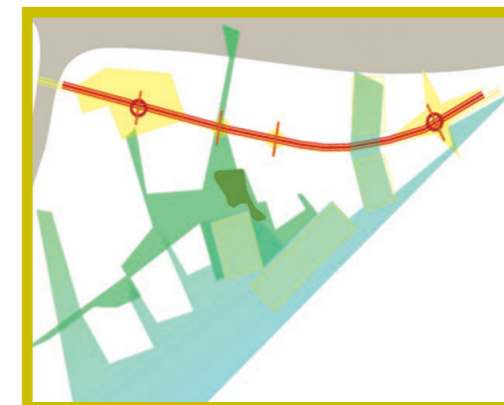
The road network / a fine network ensuring a high level of access and a road system that slows down the traffic flow.

The main outline has a perimeter with a central axis running north-south. The secondary outline also takes up this geometric figure, but on a more detailed scale and divides up the residential blocks without crossing them. The third outline is particularly for cycles and pedestrians, inspired by agricultural plots and historical lanes, crosses the area from east to west and includes open spaces.



The residential buildings / continuity from the town centre to the river Isère.

This outline confirms the change in status of the RD 1006 that becomes an urban avenue with the development of a 'showcase': structuring facilities, business polarity and service activities. The apartment blocks have open grounds creating a strong interaction between the interior and exterior spaces and the private structures and public ones. The constructions are part of the main directions of the public sphere (historical traces) by developing the 'southern' orientation without systematism, thereby freeing east/west access (visually and on foot).



The open spaces identified / a landscaped infrastructure which is brought together and spreads out in the area and on its borders:

alluvial woodland - a large number of gardens in the heart of the residential area with green plants along the roads - A park on the banks of the river Isère with woodland and natural meadows - 'gateway' public areas. The green outline ensures that biodiversity is developed and the ecological connection is maintained in the whole Combe de Savoie. In the development area itself, it ensures that rainwater is managed (network of drainage tanks).



Board 2

Montmélian and its future Triangle Sud solar area

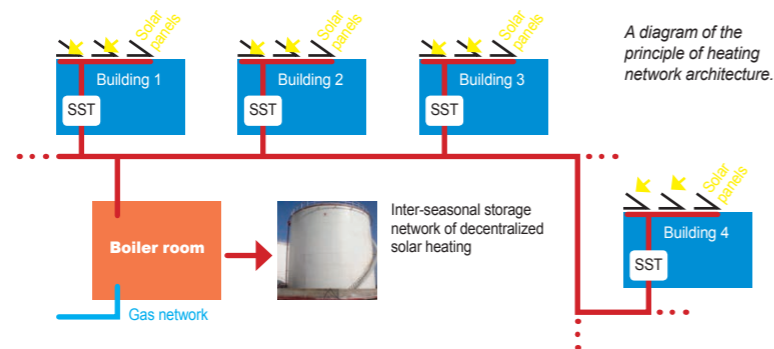
'In the sunshine of course'

3 directions for promoting quality of life

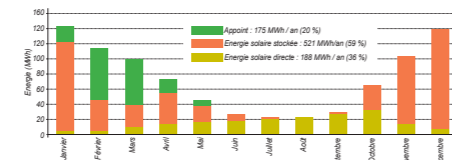
A long-term commitment to renewable energy

The town of Montmélian that has been implicated in the development of solar energy for a long time wishes to prolong this commitment and create an even stronger link between its approach to urbanism and the implementation of renewable energy solutions for its new area.

In the Triangle Sud, the town wants to develop solar energy for 80% of heating requirements and domestic hot water. This implies setting up a network of solar heating, a technical solution that is still little known (working in partnership with INES) and identified on a national scale as an essential solution to reach the French objectives for reducing greenhouse gas emissions.



A diagram of the principle of heating network architecture.



Average energy assessment of the heating network.

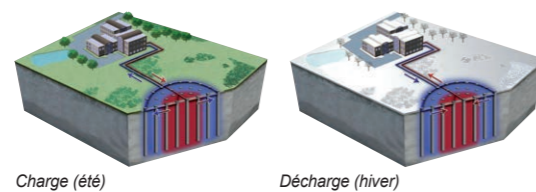


Several solar panels installed on the roofs of buildings and connected directly to the network: estimated surface area 10 m² /lodging.



Inter-seasonal storage with two solutions:

- 'Thermal Tank Heat Storage' (TTES) that is to say in a tank/ exterior silo: estimated surface 38 m² /lodging. Example of urban installation;
- by - geothermal probes between 30 and 100 m deep.



CO₂ Emissions



which is four times less than a baseline installation gas + solar domestic hot water

Walking time

Triangle Sud area



Railway station

Part of parks and gardens

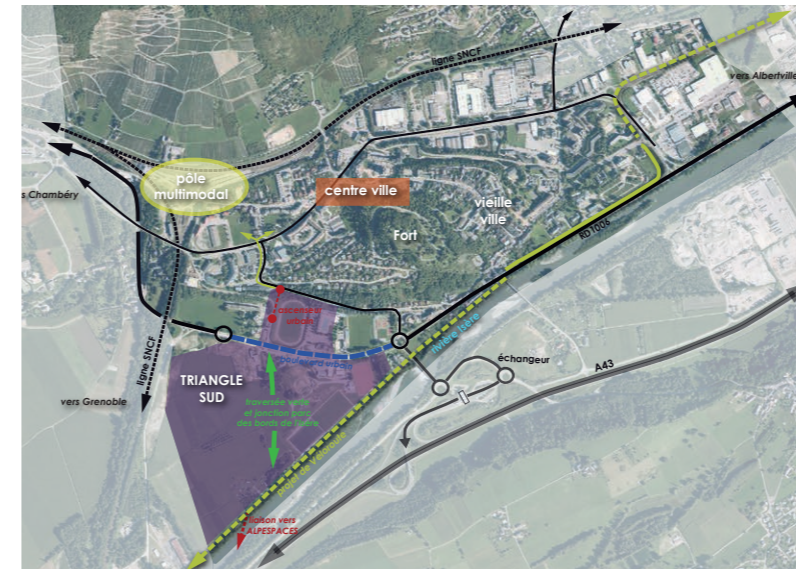


50 % of surfaces except the central residential building area

Developments to promote another type of mobility

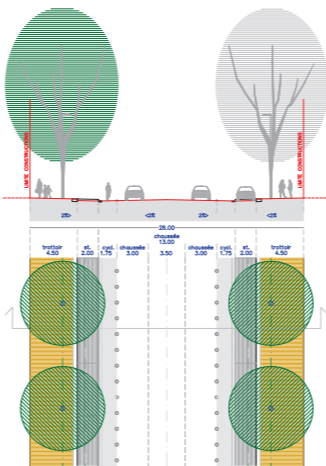
Through this project, the town of Montmélian wants to :

- redefine the RD1006 as an urban avenue so it is no longer a road to be put up with that leaves the town on the sidelines, but a road that is included in the urban fabric;
- in line with the coherence of recentring the urbanization of the Combe de Savoie in a town with an efficient multimodal sector (the railway station), organise the direct link from the future area to this sector -setting up a public urban lift for pedestrian and cycle access;
- ensuring a link with Alpespace, Business park, the main employment sector in the zone;
- within the context of the Annecy-Grenoble cycle path, create the section that crosses Montmélian on the banks of the river Isère;
- rethink the role of the car by leaving it outside the residential building areas and encouraging the principle of grouping and sharing parking with the public facilities.



Profiles of urban avenue with its alignment with the building facades, plantations and division of the different modes.

Principal sectional drawing of the urban lift and the residential building B.

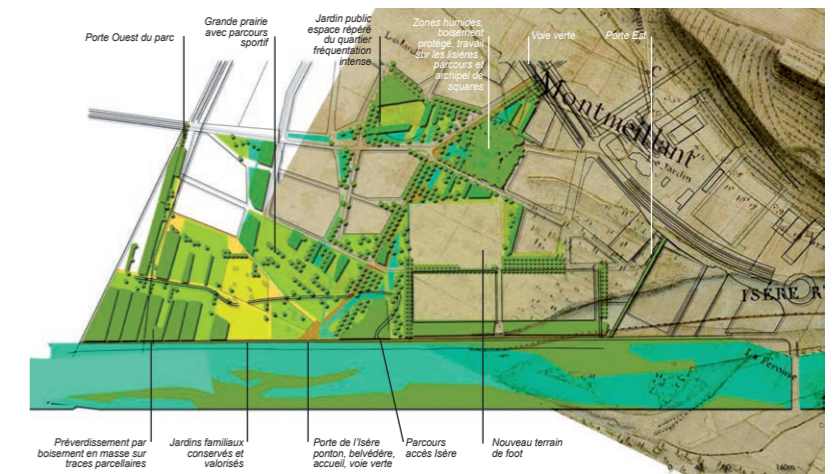


Example of the vertical link in Chiron, France.



A landscaped setting offering a quality alternative to the dream of a detached house

The diversity of the types of accommodation (collective lodgings from 5 storey buildings to intermediate 2 storey lodgings) and the objective of optimizing the property are combined with large landscaped areas. All the existing vegetation (alluvial woodland and riparian vegetation on the edge of the river Isère) have been preserved and included in a varied network of green spaces (a large number of gardens in the central apartment blocks area, a central square, footpaths and large meadows). The openings and the intersecting paths fit in with the perspectives of the overall landscaping and the landmarks. A building façade opens onto the sports and leisure park, on the edge of the river Isère, which is multi-purpose: stadium, communal garden, sports activities, footpaths along the embankment and a cycle path all in an open layout enabling everyone to have easy access.



Cross-section of apartment block D: high buildings in the urban avenues and the park, and mixed levels for the central residential buildings.



View of the site from the communal garden sector, to be re-landscaped. In the background, the eastern edge of the Bauges massif and Montmélian's hillside vineyards.



Example of landscaping development on the edge of the river Isère: illustrations.



LIEUX-DITS
PROGRAMMES-URBAINS
CLAIRE LUCAS Urbaniste
TECSOL
INDIGO
MDP CONSULTING
HELENE SAUDEKERRE
HIS&O