

COOPENERGY Action Plan Report:

Partner: HESPUL, FRANCE

Joint-Action: Cooperation between regional, urban and rural authorities as well as local stakeholders for the strengthening of the wood fuel supply chain.

Pillar: 2 Modelling, planning and monitoring tools for decision makers & 3 Awareness raising and stakeholders involvement instruments

Regional/local authorities involved:

- Regional council (forest, energy and planning departments etc.)
- Departmental council (CG 69)
- Metropolitan City(Grand Lyon)
- Rural authorities (Communauté de commune de l'Ouest Rhodanien, Syndicat de Ouest Lyonnais)
- National Forest Service (ONF)
- Etc.

Stakeholders involved:

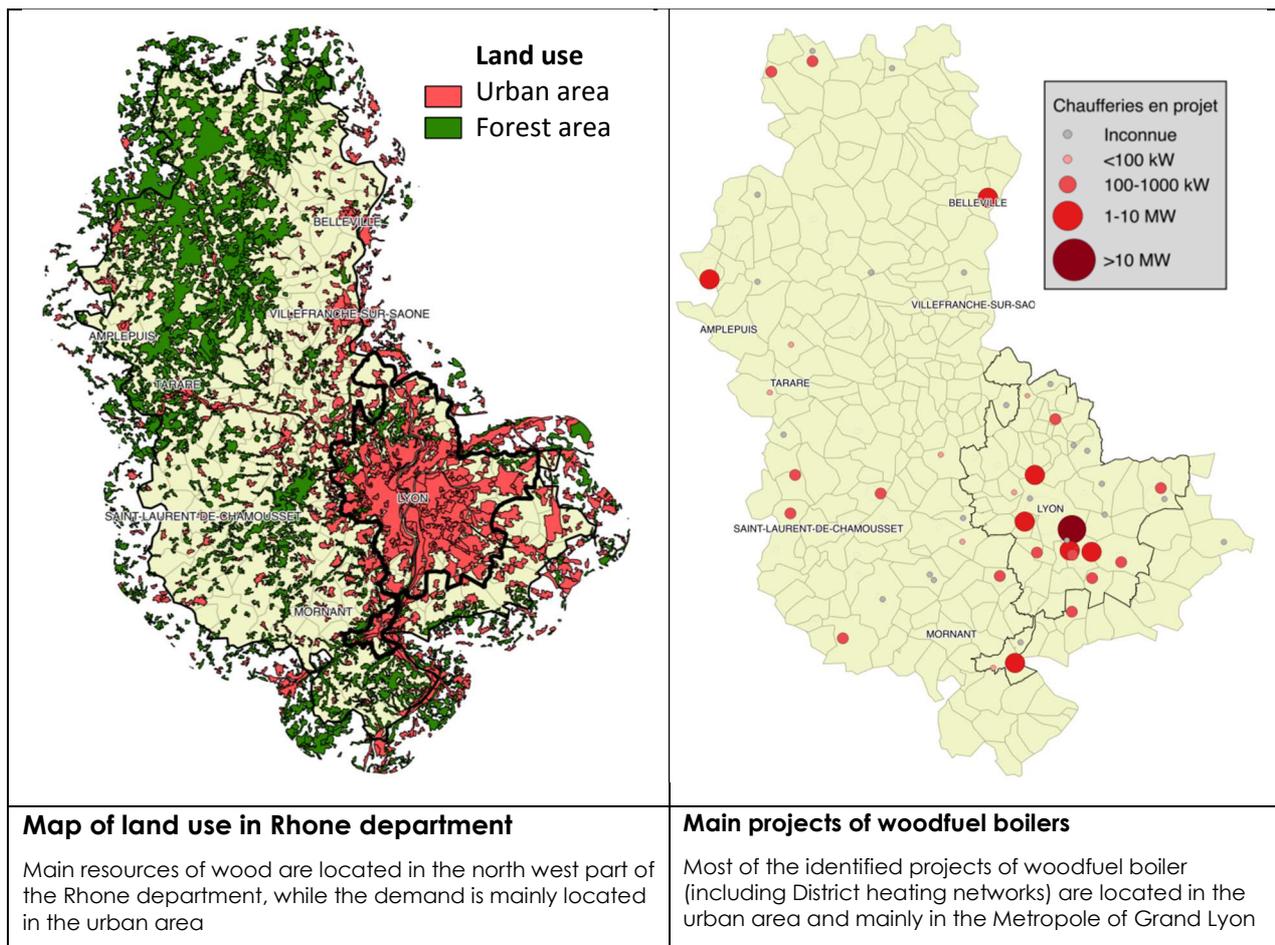
The following stakeholders were involved in addition to the above public authorities:

- Wood fuel producers (société Egelys, Eau-Energie, etc.)
- Regional center of private forest ownership (CRPF)
- Interprofessional wood association (Fibois Rhône)
- Biogaz project developer (: SAS Grosne Biogaz)
- Association Beaujolais Vert
- Professional of the wood supply chain
- Groups/federation of forest owners

About the joint action

Context

- Studies demonstrate that to reach its SEAP 2020 objectives, the Grand Lyon metropolitan area needs to mobilize all the wood fuel potential in a circle of 150-200km. Situation is similar for other big cities of Rhône-Alpes.
- The demand can impact negatively to price and quality of the wood fuel as well as the structuration o the supply chain.
- Cooperation between regional, urban and rural authorities should enable a sustainable planning of the fuel wood supply chain



Objective

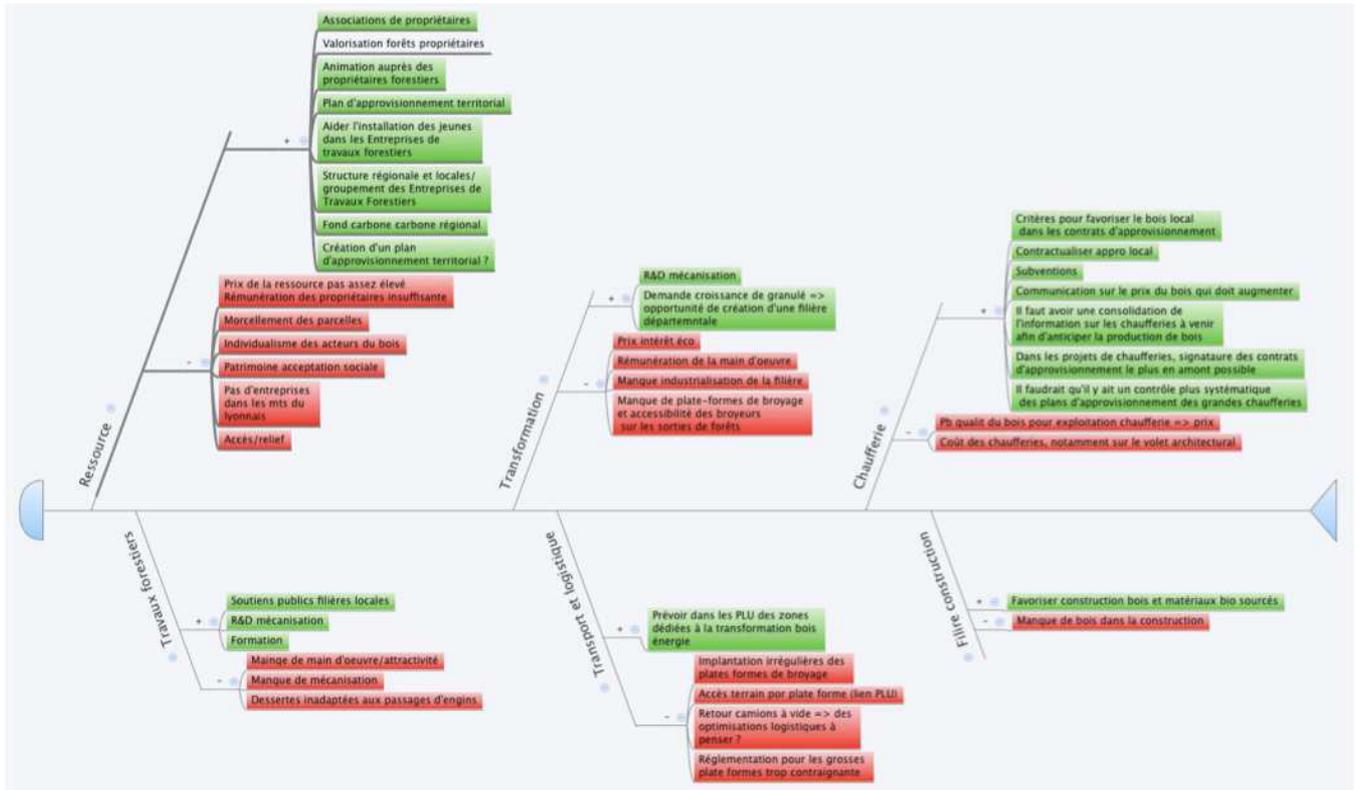
- Identify joint action between regional, urban and rural authorities as well as local stakeholders to strengthen the wood fuel supply chain.
- Support project holders in the implementation of the action by fostering multi-level cooperation.

Action

A first meeting has been held in November 2013 bringing together local and regional authorities and stakeholders of the fuel-wood supply chain (NGOs, forestry association, wood-fuel suppliers and boilers and urban district heating operators).

The objective of this first meeting was to assess barriers and opportunities to develop the fuel-wood supply chain in the Rhone region. The meeting underlined the increasing interest of urban area to participate in the strengthening and scaling up of local wood-fuel supply chain. In particular Grand Lyon Metropolitan area whose objective is to multiply by to it wood consumption in a 10 years horizon.

As a result of this first meeting 10 actions have been defined and prioritized.



From these 10 actions, Hespul decided to focus its efforts within COOPERNEGY on two concrete joint actions:

1. Identify and support the development of highly dried wood chips in collaboration with a biogas cogeneration plant of Lyon-Confluence
2. Opportunity study to develop waterway and train solutions to transport wood-fuel resources to Grand Lyon metropolitan area (as part of the waterway transport strategy)

1. Local Production of highly dried wood chips.

Grand Lyon is developing an eco-district in La confluence with the objective to provide local and renewable heat and power by combining a wood chip gasification unit with a CHP plant (Combined heat and power). Such a system requires huge quantities of highly dried wood chips, but there is currently no highly dried wood chips supply chain in Rhone-Alpes region. We therefore focus on the development of a local production of highly dried wood chips by supporting two projects.

Heat recovery on CHP with biogas

Grosne biogas project is a biogas unit located at 70 km from Lyon, near the forest in the Beaujolais. The project is in its design phase. Biogas will be produced with agricole waste and used in cogeneration unit to produce renewable electricity. Financial balance of the operation is based on the project's ability to give value to the heat produce by the cogeneration. Our contribution through coopenergy was to assess the opportunity to dry fuel wood products for a cogeneration power of the future Lyon-Confluence.



In December 2014, a serie of meetings have been organised with industry woodfuel producers and Grosne Biogas project to assess the viability of such a scenario. From technically and logistical point of view, the project would be feasible. However a number of uncertainties related to the Lyon Confluence project are making things difficult : guarantees to purchase this fuelwood and on its economic model and in particular on the purchase price of the raw material.

On 23 February, a meeting bringing together two representatives from the development company Lyon-Confluence, Grosne Biogas project and the interprofessional wood association (Fibra) allow to clarify the planning issues, product timber volume, and drying capacity. The implementation schedule of confluence project involves significant uncertainties. The technical choices made in the gasification process and therefore its fuel requirements are not finalized. On the other hand the development of the confluence company will not be the operator of the boiler is therefore not able to provide guarantees as to the purchase of fuel from suppliers who pass through the unit Ouroux drying.

Project Agricultural dryer

The second project addressed the construction of an alfalfa dryer, whose purpose would be the drying of agricultural products 3-4 months per year. The chamber of agriculture wants to optimize the operating time of the dryer by offering other products used. First discussion organised by coopenergy have been held with the project leader to assess the opportunity to dry wood during the rest of the year.

2. Assisting Grand Lyon to set-up a call for tender for the tecnico-economic feasibility study on the waterway transport for fuel wood

Grand Lyon Metropole is reflecting on the optimization of transport by inland waterways. In parallel to this reflection, the Energy Department is assessing the opportunity to use the river and/or rail for woodfuel supply with the objective to increase the supply perimeter while limiting costs and greenhouse gas emissions related to transportation.

A technical committee was set-up on the subject with rail and river freight representatives, various department of Grand Lyon Metropole, and the wood-fuel interprofessional committee of in the community, the inter-wood. The contours of a future study of potential has been defined during this meeting and the discussions that ensued. A benchmark study was launched. For now the project is on stand by for several reasons:

- Security Issues related to the storage timber on the city docks
- Benchmark on technologies and costs was not very positive
- Grand Lyon has launched in July 2015 a renewal procedure for the public service concession agreement for the development and operation of the District Heating Network.
- The Metropole want to wait for the appointment of a new delegate before bringing forward the reflection.

About the Collaboration model



The collaboration model was based on the:

- Enhancing the cooperation between wood fuel suppliers (forest owners, forestry companies, etc), consumers (Lyon Metropolitan area) and regional authorities and policies
 - o Bringing together local communities and stakeholders from different cultures (forestry, energy, agriculture and transport) and different area (rural area and metropolitan area) implies an important coordination work and facilitation skills since their "culture/background" are very different (public Vs private rural Vs city, agriculture vs energy, etc.)
 - o People have to learn about others context and constraints of other stakeholders
 - o First workshop enables to match demand and offer (coming up of first ideas) and to generate the interest amongst local stakeholders, as well as to meet local opportunities with regional policies.
- Mobilising local and regional expertise on the wood fuel potential in the Rhone region and actions with local stakeholders to strengthen the supply chain
 - o Second part of the work has been to set-up small working groups to carry out feasibility studies on the initial ideas that come up during the first working sessions.
 - o This working group bring together local and regional experts
- Maintaining the momentum
 - o Several interesting idea identified during the first workshop appears to be unfeasible after the feasibility check: mainly for economical reasons. Therefore, the collaboration models focused on the importance to maintain the momentum between local stakeholders to keep them on board and study alternative solutions.



Cooperation between regional, urban and rural authorities as well as local stakeholders for the strengthening of the wood fuel supply chain, Action Plan

ACTION	DEADLINE (YY.MM.DD)	STATUS	PROGRESS
Setting up of coopenergy working group	05/11/2013 (Lyon)	Done	
Presentation of Coopenergy project the to the energy cluster Tenerdis	13/02/2014 (Grenoble)	Done	This event has been the opportunity to present the Hespul's actions within the WP4 of Coopenergy and to identify news local stakeholders and involve them in the process.
Partnership to dry woodchips with waste heat of a CHP connected to a biogas plant	19/11/2014 (Ouroux)	Done	Identification of partnership between the biogas project leader and local fuelwood providers
Wine shoots	28/11/2014 (Lyon)	Done	Organisation of a meeting between wood pellets producer, a vineyard entrepreneur for the introduction of wine shoots waste in the production of pellets
Waterway solutions to transport wood-fuel resource	24/12/2014 (Lyon)	Done	Launch of the working group on the supply of Grand Lyon woodfuel boilers through Waterway or railway solutions
Second meeting of the coopenergy working group	17/12/2014 (Lyon)	Done	All projects supported by coopenergy and detailed above has been presented to the participants
Partnership to dry woodchips with waste heat of a CHP connected to a biogas plant	23/02/2015 (Lyon)	Done	Meeting with SPL Lyon confluence, Interprofessional wood association association and SAS Grosne Biogaz to assess the opportunity of partnership to supply Lyon confluence with highly dried woodchips.



Waterway solutions to transport wood-fuel resource	14/04/2015 (Lyon)	Done	Second meeting of the of the working group on the supply of Grand Lyon woodfuel boilers through Waterway or railway solutions
Highly dried woodchip production	3/03/2015 (Lyon)	Done	Meeting with the Chamber of Agriculture on the opportunity to support partnership with local agricultural dry to produce highly dried woodchip for Confluence project.
Woodchip local dry or storing platform	07/09/2015 (Vaugneray)	Done	A meeting has been held with the syndicat de l'ouest Lyonnais to assess the opportunity to implement a local platform to dry and store woodchip. Volumes of wood have been assessed in comparison to local demand and feasibility of the production of highly dried wood chips have been discussed.
Final Meeting of coopenergy working group	To be planned in Dec. 2015		