

The Vaucluse is strategically located for access to the Mediterranean arc and is right on the north/south crossroads for European commercial flows

Come and set up your business in Provence, with full support from **Vaucluse Développement**

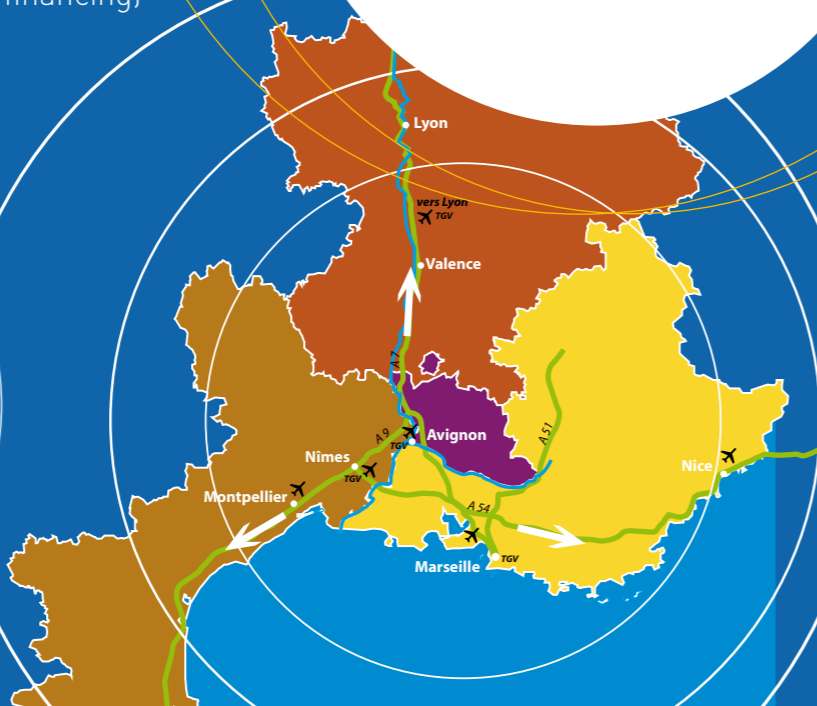


# biomass and wood energy in Provence

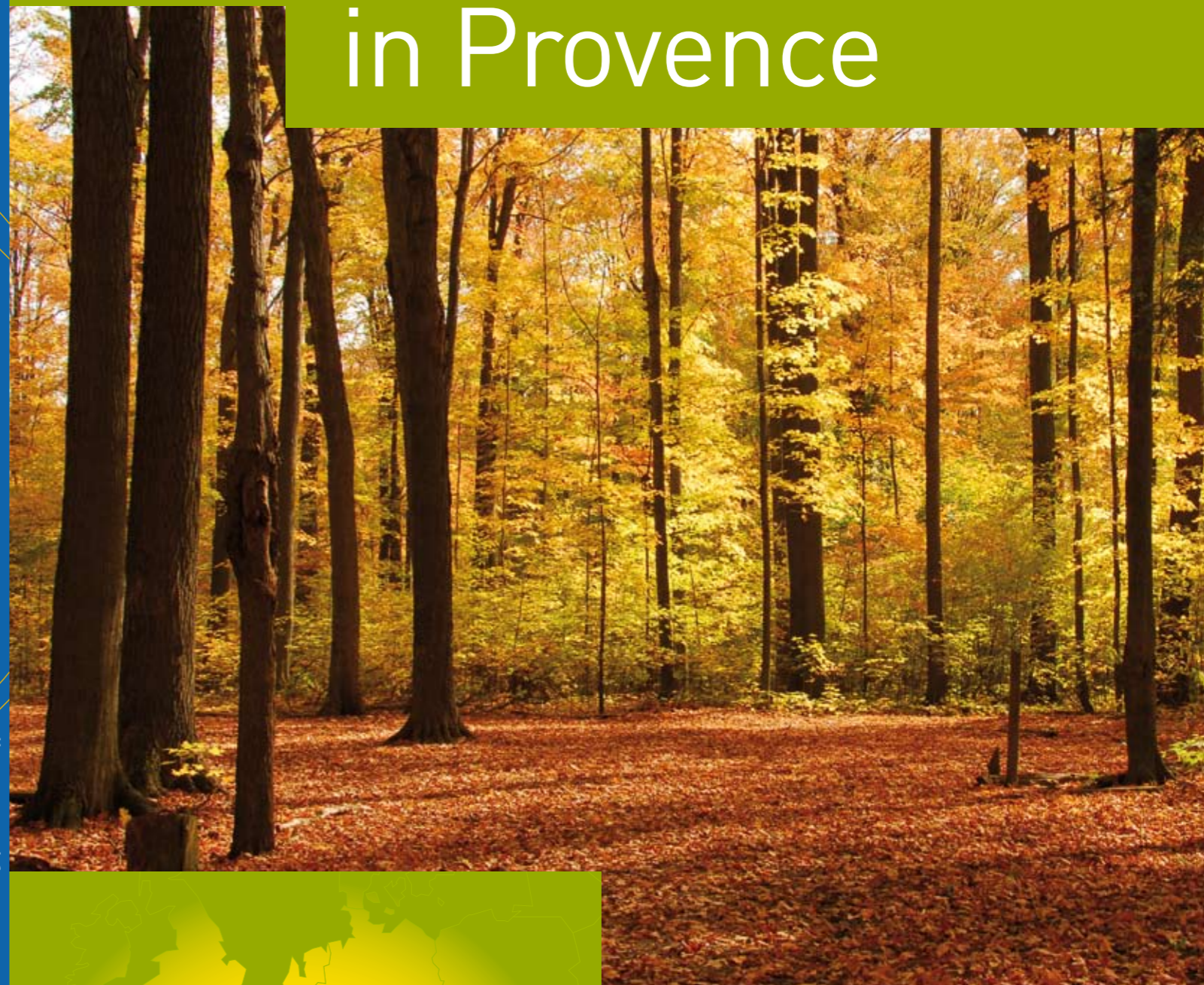


- Helping you with administrative procedures
- Proposing global and detailed real estate offers for the entire Vaucluse
- Putting you in touch with the right people (government services, chambers of commerce, district authorities, job centres, banks, estate agencies, etc.)
- Helping you to obtain possible incentives
- HR consultancy (training, recruitment, financing)
- Providing assistance for employees and their families

A one-stop shop for your entire project: **Vaucluse Développement**



Création La vache Noire. Photographies : CG 84, CDT 84, Agroparc, Vaucluse Développement



- France: the third largest area of forest land in Europe, Europe's leading producer of wood energy
- Provence: the third largest region of forest land in France
- Mediterranean forest: average annual increase of 1% in terms of surface area and 2% in terms of volume



Economic Development Agency  
19, place de l'Horloge - 84000 Avignon  
Phone : + 33 (0)4 90 16 45 60 - Fax + 33 (0)4 90 86 40 18  
email : adev@adev-84.com

[www.investinvaocluseprovence.com](http://www.investinvaocluseprovence.com)



# KEY FIGURES

## In PACA, abundant and available resources:

- 1,200,000 ha of forest
- Afforestation rate of 38% compared with 25% nationally
- 1 million cubic metres of wood collected from resources from which 2,200,000 cubic metres is usually collected.

## In France, Wood energy is:

- The major source of renewable energy
- 9.2 MToe used in 2004
- 4% of total energy consumption and 20% of current consumption for domestic heating
- Domestic sector: 7.3 toe in 2004
- Collective, tertiary and industrial sectors: 12% of wood energy consumption
- 1,100 collective wood-fuelled boilers
- 1,000 wood-fuelled industrial boilers

## Some professionals in the sector

- **Valfibois, Sorgues**  
Wooden packing and packaging, recycling wood waste, recycling by shredding.
- **SEDEBI, Carpentras**  
Company that recycles industrial wood waste. Collection and recycling of wood waste.
- **Macagno, Pertuis**  
Supplies wood chips for the Vaucluse, Var, Bouches-du-Rhône and the Alpes de Haute Provence.
- **Gervasoni, Caseneuve**  
Forestry projects, production of fuel wood and wood-burning pellets.

# Huge potential for wood energy resources

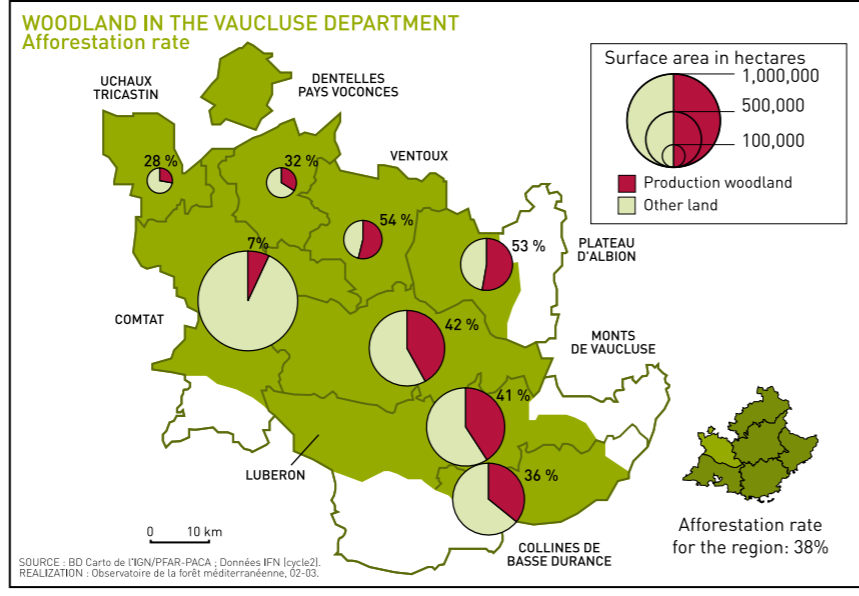
- The wood energy industry **is developing across the whole of Europe**. The EU Member States wish to develop their use of wood energy, a renewable fuel that is readily available for most of them.
- In France, **30% of the land** is covered by forest, making it **the third largest area of forest land in Europe** after Sweden and Finland. The surface area has increased by **46%** since 1945 and **doubled** in the last 200 years.
- The Provence-Alpes-Côte d'Azur (PACA) region is **the third largest forest region in France**: forest stands cover **38% of the region**.

## Wood resources in the PACA region

• **Waste from the wood industry** Provence-Alpes-Côte d'Azur is **the leading region in France** for the production of light wooden packing materials. The waste produced from this industry can easily be recycled for use in wood-fired boilers. **800,000 metric tons** of waste are

produced by the wood industry every year. Recycling this waste could produce at least **25,000 Toe** a year and is a cheap source of energy.

• **Forest land**  
Each year, the Mediterranean forest is increasing by an average of **1% in terms of surface area** and **2% in terms of volume** and the amount of wood harvested is considerably lower than this increase. There are still abundant resources that can be drawn on, a large part of which could be used for wood energy.



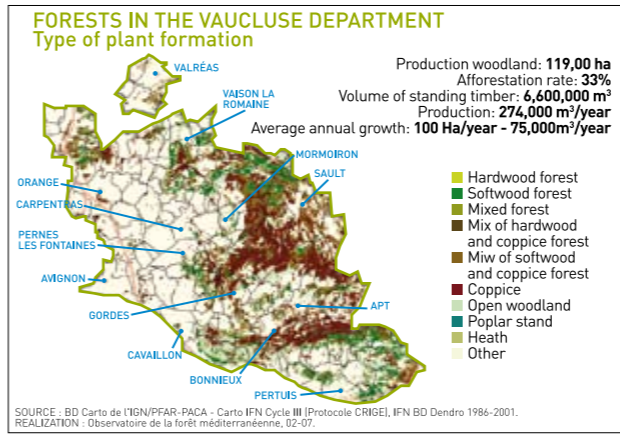
## Use of wood energy in PACA

- Wood energy in PACA: **750,000 cubic metres** of wood is used per year for heating in the PACA region, divided equally between firewood, timber and industrial wood.
- Wood-fuelled boilers: there is a tendency for this type of boiler to be developed in the region for the purposes of collective heating, domestic hot water production and industrial processing. There are also facilities used by industrialists in the sector based in La Bastide des Jourdans, Avignon, the local centre in Rasteau, etc.

# An ideal environment for development

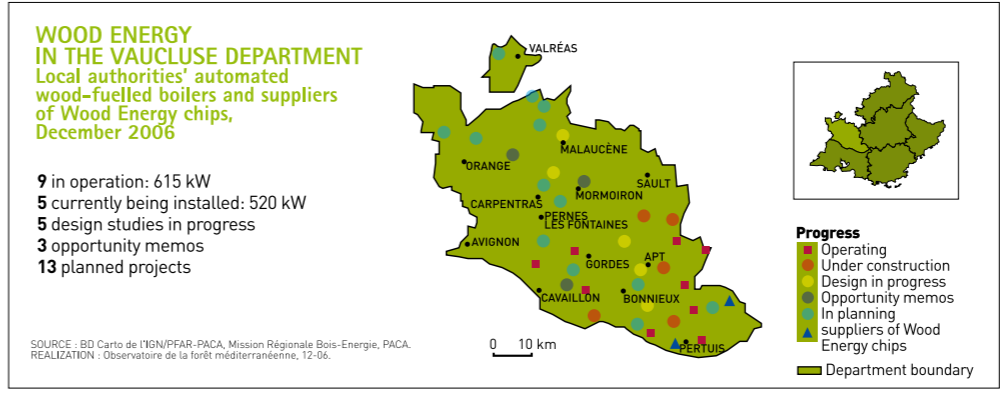
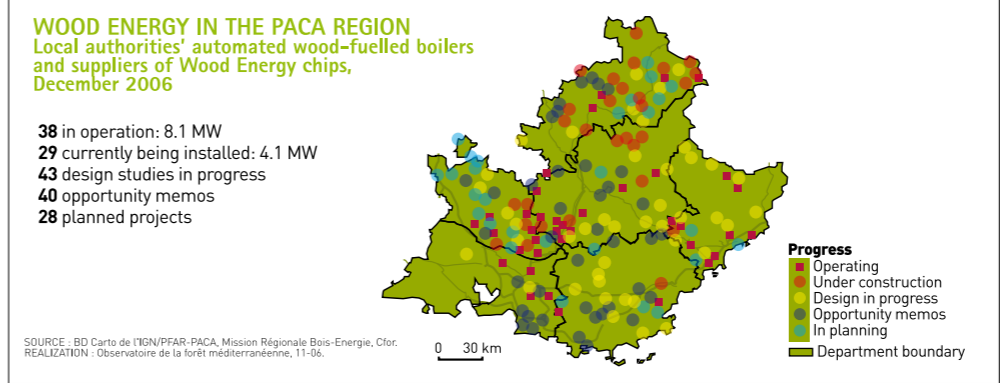
## Abundant natural resources

- Annual resources can be drawn on from one year to the next.
- Estimated amounts of branch chips are based on the hypothesis that **40% of the total volume is not used**.



- It is likely that the amount of wood chips from saw-mills will increase over the next few years.
- Occasional sources, burnt wood left after a forest fire or timber from cutting down diseased trees for example, are, in theory, available at low cost.

## Wood for energy in Provence-Alpes-Côte d'Azur



## Strong political will

In the Vaucluse, the Luberon National Regional Park, which encompasses 71 towns and villages, wants to develop a wood energy industry. Indeed, there is great potential for local production of chips from forests and from green waste and the National Regional Park is hoping to increase the number of wood-fired boilers, from 8 at present to 26 eventually. Furthermore, plans are going ahead for two storage platforms in Murs and Viens.

The project is supported by the State, Regional, Departmental and local authorities, insofar as concerns investments in equipment and human resources, and by the Mission Régionale Bois Energie, which provides information, support, coordination and structure to the wood energy industry.



# STRUCTURING THE SECTOR

Various organisations are working on the development of a sound wood energy industry in the PACA region:

• **ADEME PACA:**  
The Agence de l'Environnement et de la Maîtrise de l'Energie, France's Environment and Energy Management Agency, acts as a technical and administrative partner in developing projects connected to renewable energies.

• **Mission Régionale Bois Energie:**  
The Mission informs the various decision-makers involved on collective heating systems using wood, coordinates the supply sector, provides technical and financial support for project owners, and monitors and assesses implementation.

• **Probois Ventoux:**  
The trade association for the promotion of wood within the Ventoux area brings together professionals in the trade and promotes information-sharing, discussion and joint projects.

• **The Chambre de Métiers et de l'Artisanat de Vaucluse:**  
The trade council provides information and training for groups and individuals working in the wood industry, including:  
 - audits on the competitiveness of a company, identifying its strengths and weaknesses,  
 - drawing up company development strategies,  
 - ensuring that production machinery complies with regulations, etc.

• **The Agence régionale de l'énergie Provence-Alpes-Côte d'Azur:**  
The main role of this public regional agency is to develop and assist in ensuring that environmental issues are factored into any project related to the territory of Provence-Alpes-Côte d'Azur on behalf of the state and territorial authorities.



## CAPENERGIES

The CapEnergies cluster polls together **160 industrial**, research and higher education players in Provence-Alpes-Côte d'Azur and Corsica regions involved in the energy sources that do not produce greenhouse gases. Vaucluse Développement, in collaboration with all other development agencies of Provence-Alpes-Côte d'Azur, has signed a partnership with this cluster.

