Dear friends,

In many respects, 2020 will be imprinted on our minds as the year of a seemingly endless, violent pandemic. Despite the many difficulties that we now must overcome, this crisis has reminded us that environmental conservation should be the guiding light behind any action we take.

As we wrap up an intense year, it is now time to review EcoTree’s performance. Our turnover has doubled, which indicates strong, continued growth. Our team has expanded and there are now almost 60 of us in France and abroad. The forest area that we manage in France has doubled and we are in the process of acquiring forests in Denmark, Sweden and the United Kingdom. In Europe, access to tree ownership is becoming democratic. We passionately believe that by making as many people as possible interested in the fate of forests, we will all be in a better position to protect and renew them.

Despite increasingly frequent weather events and multiplying diseases across Europe affecting forest ecosystems, the forests we manage are thriving. To minimise any risks, we work on-site every day to be as close as we can to your trees. By staying close to nature, we encourage biodiversity and nurture a mixture of species, all while reducing human intervention. As you read this report, you will learn more about our work and the impact we are having.

While our main focus is to enhance forests and biodiversity, we are also embracing the significant volume of educational work needed to garner the support of as many people as possible. This gives our work meaning and this year, the our team’s impressive achievements have led to three wonderful projects.

The first is a method developed by our forestry team to calculate carbon sequestration in forests and carbon storage in wood products. The method was validated by Bureau Veritas, one of the world’s largest certification organisations for environmental standards. It aims to provide certified information and confirm forests’ carbon capture in accordance with ecology, transparency, continuity and additionality requirements. The method also allows us to design forestry management plans by estimating the number of trees on each plot, their growth in volume and the quantity to harvest. The management plans are adaptations and reviews of reference timber production schemes which now need to be updated, following on-site feedback, climate change and the sustainable forestry methods we prefer at EcoTree. They will enable us to refine the profitability and feasibility of our projects and increase transparency with our clients.

We are also keen to share our knowledge and have developed forestry training modules available to anyone who wants to immerse themselves in the wonderful world and science of forests.

I wish you a new year that will be radically different from the one we have just been through. We hope it 2021 will also showcase our beautiful forests, as they are the absolute prerequisite for our life on Earth.

Thank you for your trust. You can count on us.

Erwan Le Méné
President and co-founder of EcoTree
CONTENTS

EcoTree continues to grow
EcoTree in a few words .......................................................... p10
Our team .................................................................................. p11
EcoTree forests ........................................................................ p12
The early days .......................................................................... p14
2020: key dates ......................................................................... p15
Our partners ............................................................................... p16
EcoTree International ............................................................... p18

For the forest and biodiversity
A word from our forester ........................................................... p.23
Key numbers from our forests ................................................ p.24
News from our forests .............................................................. p.25
Managing a forest, one step at a time ...................................... p.26
New forests ............................................................................... p.28
Historic forests ......................................................................... p.36
Improving and preserving biodiversity .................................... p.44

French forests and wood valorisation
2020: French forests in numbers ............................................... p.51
French forests: news and challenges ....................................... p.52
Aggregate indexes of wood prices ......................................... p.56
Index/species ........................................................................... p.58
Deep dive into valorisation sectors ......................................... p.68
Forest-based sector key figures .............................................. p.69

Our projects in 2021 .................................................................. p.70

Conclusion ................................................................................ p.72

Annex: Sustainable management certificate 2020 .................. p.74
ECOTREE CONTINUES TO GROW

Palotas Forest, Nouvelle-Aquitaine
EcoTree teams grew considerably in 2020 as we developed new projects, acquired new forests and expanded abroad.

After acquiring new forests and setting up new biodiversity rehabilitation projects, and with the support of our partner companies, we added some fantastic new people to our teams. It made it possible for us to create a large-scale biodiversity support project with H&M, which is due to blossom in 2021. We also developed an afforestation project in Romania with support from the Société Générale group.

In 2020, we set up our international team in Copenhagen and established its communication strategy. In 2021, we plan to finalise the first forest acquisitions in Northern European countries outside of France.

The teams in Paris and Bretagne were formed in 2020 and will continue to grow in 2021. Recruitment will slow down, as the aim now is for each department to increase performance and develop ways of working that lead to more efficient production. This is also why we are currently working toward a full-scale human resources department. In 2021, we aim to start a large project to split our website into two separate areas. One will be entirely dedicated to our individual clients and the other will be for our partner companies.

CO-FOUNDERS

Erwan Le Méni President
Théophile Le Méni CEO
Baudouin Vercken Customer Service
Pierre Dumont Saint Priset Forests, Finance, B2B
Thomas Norman Canguilhem International CEO
Vianney de la Brosse Head of Forestry

OUR TEAM

CO-FOUNDERS

Erwan Le Méni President
Théophile Le Méni CEO
Baudouin Vercken Customer Service
Pierre Dumont Saint Priset Forests, Finance, B2B
Thomas Norman Canguilhem International CEO
Vianney de la Brosse Head of Forestry

OUR TEAMS

CORPORATE

Géraldine Prot Marketing B2C
Sales
Development of direct and indirect partnerships
Remote

David Hockley B2C Customer Service
Marketing
Follow-up of partnerships
Customer satisfaction

INNOVATION

Annabelle Le Corfec Customer Success
B2C Customer Service
Development and promotion
Lead generation

Pax de Menthière Web, UI & SEO
Web Analysis & ML

IT

IT

FORESTS

Vianney Renard Forest acquisition
Forest lease
Forest management
Biodiversity projects

Vianney Passot Finance
HR
Administration

GENERAL SECRETARIAT

THE INTERNATIONAL TEAM

Thomas Norman Canguilhem

Business Development
Netherlands, UK, Denmark, Sweden

Copywriting
Blog content, Influencers, SEA

Design
Graphic & Website design, Ads, Sales content

Forestry
Land prospection, Innovation

Communication & Marketing
Community Management & Moderation, Ad content creation, Newsletters, Influencers, PR, Partnerships, Customer Service
The forests
Prospective forests
Restoration of bogs, riparian forests, ponds, etc.
Hives
THE EARLY DAYS

JUNE 2014
The idea of EcoTree takes root in the minds of our co-founders.

FEBRUARY 2018
We are registered with the French Financial Authority (AMF) as an intermediary in miscellaneous assets.

JANUARY 2016
EcoTree is born in Brest. It is now possible to become a tree owner!

FEBRUARY 2019
We are awarded the French Tech Pass for fast-growing companies.

MAY 2018
First fundraising: €1.2M

SEPTEMBER 2019
New fundraising (€3M) and international office in Copenhagen opens.

2020: KEY DATES

MARCH
First pilot project to calculate carbon capture with Bureau Veritas

JUNE
Launch of new EcoTree Customer space

JULY
Launch of our new website ecotree.green

SEPTEMBER
Bureau Veritas verifies our carbon sequestration computation methodology.
Received the «Solar Impulse Efficient Solution» label
Partnership Ewan Lebourdais, artist photographer

OCTOBER
E-learning, online forestry training begins

NOVEMBER
Forest View
New experience for people that gives a virtual tour of our forests

DECEMBER 2020
Over 1,000 companies and 45,000 individuals place their trust in us!
«We support over 1000 companies with their CSR strategy, which consists of reconciling ecology with economy. We work with our partner companies to guide their investment into forests and encourage them to support biodiversity. We also help them work towards a low-carbon strategy. Regardless of the type of partnership, we actively contribute to the implementation of a targeted strategy. Our actions – traceable, tangible and with high social impact – are major assets for our partners in developing their CSR policies.

Grow forest, grow»

Géraldine Prot
Head of corporate

1,000 COMPANIES

45,000 INDIVIDUALS

We want everyone to be able to access forests. That’s why we continue to improve the user experience for individuals, created online educational resources and launched three large projects.

Our first project launch was the redesign of our website, which included new features to client accounts. You can now offer trees from your personal space by sending the recipient a customisable gift card. The website has been completely overhauled, with fresh content, a redesigned structure and technical improvements to make browsing more intuitive and user friendly.

The second project saw us set up a virtual tour of our forests via Forest View. In 2021, you will be able to visit even more forests from the comfort of your own home.

For our third big project, we made our forestry training available online. Our team have created an engaging and in-depth e-learning resource. It’s available now and we will update it regularly to make forestry science accessible to anyone.

Together, these digital projects allow you to stay up to date with your forests, buy or offer trees, learn about the story of forests, and explore our forestry management methods, all at the touch of a button!

« It is wonderful to see the enthusiasm from people who have discovered us through a documentary or an online search, and who encourage us to keep dedicating ourselves to the wellbeing of forests. This year, we wish to place communite members even more at the heart of our efforts. We are at the service of the forest, as well as of all those who do the great honour of placing their trust in us.»

David Hockley
Head of E-commerce Department

Some of our partners

OUR GOOGLE REVIEW SCORE

1,000 COMPANIES
“The EcoTree concept was born in Denmark, building on an idea that’s popular here: instead of activating fear, guilt or taxes, we’ve launched a movement that financially rewards those who act for the good of the environment! It made perfect sense for us to set up our international office in Copenhagen and to put together a team full of talent and different nationalities. Together, we share EcoTree’s unique model and look to reach new markets! This year, we established our presence in Northern Europe and we will open premises in other parts of the continent mid-2021.”

Thomas Norman Canguilhem
Co-founder & International CEO

First Brest, then Paris and Copenhagen: EcoTree now has three offices in Europe! Although all our forests are currently in France, it is possible to become a tree owner from any country. Our international team has already helped individuals and companies from all over the world to become tree owners! Our dedication to our planet goes further still and in 2021, our first forestry projects outside of France will launch. Stay tuned and may the forest be with you!
Unexpectedly, the Covid-19 pandemic had a beneficial effect on our plantations.

Our team created many naturalist inventories of fauna and flora or PBI (Potential Biodiversity Index), with the aim of launching biodiversity rehabilitation and development projects in our forests in 2021.

In 2020, forests in France faced several challenges:
- forest fires, particularly in the southeast and southwest (Gironde, Pays Basque) and, more surprisingly, around Île-de-France, close to Orléans and in the Fontainebleau Forest.
- drought and bark beetle-typographers (a beetle that attacks wood) have also had an impact on forests in the Grand Est region, as well as the Auvergne-Rhône-Alpes and Bourgogne-Franche-Comté regions, and even in the Limousin and Pays de la Loire regions.

Thankfully, we have not seen any significant impact in our own forests. The Limousin forests, all recently planted, have seen positive recovery rates. The preparatory work carried out prior to plantation in Bourgogne is under way, as scheduled. Thinning, partitioning and saddling operations in Pays de la Loire and Île-de-France have also begun.

In Bretagne, the spruce beetle caused havoc, but our forests were spared as they have a mixture of species that prevent such pathogens expanding. Furthermore, our forests in Bretagne are not subject to drought and even though April was particularly dry, the sites we plant on were selected so as not to be impacted by such climatic events. Surprisingly, the Covid-19 pandemic had a beneficial effect on our trees. It meant that we started tree planting later than planned. Instead of early spring in Cleden Poher (March/April), we started in May. As a result, the seedlings were not exposed to the drought in April, unlike other planters who started earlier and who suffered losses in surrounding forests.

There is therefore no damage to report in EcoTree forests. Before we plant, we research the soil and the climate, and this has really paid off. We can also rely on the motivation of the planters and their compliance with health guidelines, which admittedly aren’t too hard to follow in forests! As our tree plants come from neighbouring nurseries, we did not suffer from any transport issues.

Once again, this local network has been incredibly strong and it is enabling us to picture the future of our little trees with a certain serenity.
In 2020, EcoTree took over 10 new wastelands and forests suffering from a lack of management.

We have doubled our forest area and continue to develop our network of partners in the industry. More and more owners, managers, experts and cooperatives understand the benefits of our model:

- **financing** eco-renewal with landowners through our forest lease model
- **establishing sustainable forestry management plans** that promotes biodiversity
- **valuation** of forests’ economic benefits
- **raising public awareness** about forests and their sustainable management
MANAGING A FOREST, ONE STEP AT A TIME

From the first little oak or spruce seedling to your wooden house, what does it take to grow and manage a forest?

1. Buying a forest, soil analysis and defining its management plan
   - Choosing species that will be most suitable for the forest site and setting up a forestry plan establishing the actions and interventions (works and cuts), best suited to each plot.

2. Soil preparation and planting
   - Sometimes, it is necessary to uproot stumps, enrich the soil, and create a swath (alignment of what is left of the land clearing or bush clearing). From November to March, we plant the main species and companion species. Young plants are protected against deer and parasites. EcoTree does not use any chemicals or pesticides.

3. Maintenance over the first few years
   - It is necessary to clear some of the vegetation that surrounds saplings, as it grows faster than the young shoots. We must also replenish some tree plants to replace those that are dead or damaged.

4. Maintenance throughout the life of a tree
   - Foresters proceed to a culling or trimming, which involves removing a number of saplings in a very dense stand of trees, to allow the best candidates to grow.

   - Pruning enables branches, particularly lower ones, to be cut so as to free up the more vigorous ones, enabling the tree to grow more harmoniously. We also partition, which requires pruning and clearing paths to enable a fluid movement and, in time, to make vehicle access possible.

5. Thinnings
   - Thinning stands of trees that are not yet mature (20-25 years on average) accelerates the development of the diameter of the remaining trees. It also lets more light in to the ground, under forest cover.

6. Final cut
   - EcoTree is against clear cuts (cutting an entire plot) and instead, encourages a close-to-nature management style. That means we work with trees to only remove those that have reached full maturity and encourage the very best candidates to grow. We favour natural regeneration throughout the life cycle of the stands of trees, according to the relevant forestry plan chosen. If needs be, tree plants are immediately replaced to ensure the sustainability and renewal of the forest.

   - We proceed to skidding, where we transport felled trees from the felling area to the drop-off location. The wood is then sold and redirected to sawmills to be used and transformed into useful every day objects, such as furniture, pallets and planks.
Background
Champeau-en-Morvan Forest was taken over in spring 2020. This forest was no longer managed and a plot had even been clear-cut. A French Code of Good Forestry Practice management document was prepared.

In brief
Location: Côte-d’Or (21)
Surface area: 6 ha
Type of management: mainly irregular high-forest
Certification: yes
Liability insurance: yes

Latest projects
Tree planting can start after working on the soil which is scheduled at the end of the year (about 2.5 ha). In addition, around 900 seedlings will be planted on another plot which has experienced some decline.

Background
Sarran Forest was taken over by EcoTree early 2020. Species include Douglas firs, larch trees and Taeda pine trees. The main plot is managed as irregular high-forest.

In brief
Location: Corrèze (19)
Surface area: 7 ha
Type of management: mainly irregular high-forest
Certification: yes
Liability insurance: yes

Latest projects
The first clearing was carried out this summer. Furthermore, saplings were recently planted in the forest following a clear cut.

Key
A P3 Douglas / larch trees 2021 (3ha)
B P1 Douglas / Sitkas spruce trees 2009 (2ha)
C P2 Douglas 2020 (1ha)

Key
A Douglas (4ha)
B Larch trees (1ha)
C Taeda pines (1ha)
**Background**

This forest was acquired in July 2020. It consists of various species such as sessile oak trees, ash trees, black walnut trees and cherry trees.

**Future projects**

Several actions that encourage biodiversity will be set up, such as removing any jams in the river, creating ponds and studying the presence of bats in the forest.

**In brief**

Location: Mayenne (53)
Surface area: 10 ha
Type of management: regular high forest aiming for natural regeneration
Certification: yes
Liability insurance: yes

**Latest projects**

Markings were made in October to clear some of the stands of oak trees. Research is under way for a large project to remove protective tarpaulins across 4.5 ha, and combine this action with social reinsertion activities.

---

**Background**

This forest, which was not managed, was taken over in September 2020. It consists of a mixture of coniferous (maritime pine, laricio pine) and deciduous trees (oak, chestnut, cherry).

**In brief**

Location: Sarthe (72)
Surface area: 68 ha
Type of management: regular high forest with the aim of natural regeneration
Certification: yes
Liability insurance: yes

**Latest projects**

Markings for clearing were made in a plot of chestnut trees. No significant work is planned for now.

---

**Key**

- A Sessile oaks (4ha)
- B Ash trees (3ha)
- C Cherry trees (1ha)
- D Black Walnut trees (1ha)
- G Maritime pines (41ha)
- E Maritime pines / deciduous trees (12ha)
- A Oaks / chestnuts (4ha)
- F Chestnut trees (4ha)
- B Laricio pines / resinous trees (2ha)
- D Maritime pines (1ha)
- C Cherry trees / various (1ha)
**FAOUËT FOREST - BRETAGNE**

**Background**

Faouët Forest is a charming territory delimited by the stream from the Moulin du Duc windmill and river Inam. It is a former agricultural land and its plots have been acquired gradually since 2019.

**In brief**

Location: Morbihan (56)
Surface area: 14 ha
Type of management: irregular high-forest
Certification: yes
Liability insurance: yes

**Latest projects**

This new plot will be reforested with a mix of deciduous and coniferous trees. There will also be an uneven-aged forest stand. The sustainable forests plans aim to create uneven-aged forest stands.

---

**PLOËRDUT FOREST - BRETAGNE**

**Background**

The forest is a former clear cut, non-replanted. EcoTree has been taking over plots to manage them since spring 2019. A new pine forest is now starting to stretch its branches, on a plot with irregular high-forest and a mix of Sitka spruces and thuyas, and a plot of existing Douglas firs with companion species.

**In brief**

Location: Morbihan (56)
Surface area: 11.6 ha
Type of management: irregular high-forest
Certification: in progress
Liability insurance: yes

**Latest projects**

Significant soil remediation work was started to replant a majestic forest. Once it was taken over at the end of 2019, its management plan was implemented and Douglas firs, chestnut trees, red oak trees and Scots pine trees were planted in spring 2020.
**Background**

In spring 2020 EcoTree took over the management of the Pont de Buis Forest, near Brest, in the Finistère department. Pont de Buis Forest is located at the bottom of Monts d’Arée and at the heart of the Armorique Regional Natural Park.

**In brief**

Location: Finistère (29)  
Surface area: 9 ha  
Type of management: irregular high-forest  
Certification: in progress  
Liability insurance: yes

**Latest projects**

Over the next few months, we will prepare the ground and plant Douglas firs, cedar trees, chestnut trees, red oak trees and beech trees into the irregular high-forest. A holly and beech hedge was left as is on the alkaline soil to preserve biodiversity. Natural regeneration will be encouraged through occasional interventions.

---

**Background**

The site is particularly suited to Douglas firs and chestnut trees. The vegetation consists mainly of molinia grass and ferns. This forest was suffering from a lack of forestry management following a non-reconstituted clear cut. It made complete sense for EcoTree to take over the management of these plots, and moreover the area still has many remains from the Gallo-Roman period attesting to its rich history.

**In brief**

Location: Finistère (29)  
Surface area: 4 ha  
Type of management: irregular high-forest  
Certification: in progress  
Liability insurance: yes

**Latest projects**

A transformation is under way. A weak thicket that does not positively contribute to the ecosystem will be replaced with Douglas firs and chestnut trees, with a plan to create an irregular high-forest.
ILE-DE-FRANCE & BOURGOGNE

Pézarches Forest (77)

Pézarches Forest stretches in the Yerres valley, a territory in the Brie region. In between ponds harbouring incredible biodiversity, many stunning oaks and a variety of other species have made their home, to the fauna’s delight. Markings for partitioning have been made across the forest.

Luthenay Forest (58)

In the heart of the Sologne region, this forest with countless species stands. This site consists mainly of plots of red oak trees, oak trees, poplar trees, Douglas firs, loblolly pine and laricio pine. Boars, deer and foxes as well as pheasants, pigeons, thrushes, blackbirds and many other species cohabit harmoniously, especially since the biodiversity actions that we implemented.

A management plan was developed that includes thinning, partitioning and pruning to enable existing trees to grow better and stronger.

HISTORICAL FORESTS

NOUVELLE AQUITAINE

Gioux Forest (23)

Close to Gioux, a dainty village in the middle of France located in the Creuse department in the Limousin region, stands a strikingly beautiful forest. On the outskirts of the Millevaches granite plateau, also called Limousin mountains, and at an altitude of 791 metres, Douglas firs and larch trees have taken root. Manual clearing was carried out in the Gioux Forest.

The aim was to free up the young saplings from the competing vegetation and we have also been able to apply some ‘trico’, a natural game repellent made from sheep fat.

Palotas Forest (23)

Palotas Forest takes roots in the Creuse department. It is a particularly splendid and wild sanctuary where oak trees, Douglas firs, chestnut trees and firs will soar for decades to come, creating a truly majestic forest. Planting took place this winter (thuyas, larch trees, Douglas firs, pectinated firs, cedar trees, red oak trees), and the first clearings were made this summer.
**PAYS DE LA LOIRE**

**Châtelain Forest (53)**

Châtelain Forest is located in the south of the Mayenne department, in a lightly wooded area, making it a popular destination for locals. This forest (12 ha) was the first forest lease developed by EcoTree. It is a former agricultural land with mainly sessile oak trees planted around 25 years ago. Clearings were made this year to let in more light to the ground and enable the most striking trees to develop.

**Ruillé Forest (72)**

3 marking operations are due to take place. At the end of the first marking the best trees were identified, and they now enjoy more free space to grow in height and in width, particularly around the crown. The result of these markings is most satisfactory.

The second operation is under way. The markings were made in autumn 2020, and the clearing should start soon, once the contract is confirmed by the buyer.

**La Faigne Forest (Pontvallain) (72)**

Foresters carry out the usual maintenance, so that maritime pines, larch pines and chestnut trees, which are in the forest, continue growing in the best conditions, especially as some are close to maturity.

---

**BRETAGNE**

**Ploërdut Forest (56)**

In Ploërdut, EcoTree also acquired 3 forests: 2 in 2019, and the last one end 2020. The first forest consisted of highly degraded stands of trees without any future. The thicket was collected in winter 2020 and the plots were replanted with chestnut trees, red oak trees, Douglas firs and Scots pines. As early as summer 2020, partial clearings were made on the Scots pines and a game repellent was applied in November on all coniferous trees. The second forest has two woodlands:
- a 40-year old Douglas fir forest.
- a woodland of Sitka spruces and thuyas created in 2019 by EcoTree.

The third Ploërdut Forest is a former agricultural land that has been wooded with one plot of Douglas firs and Sitka spruces, and the other plot of maritime pines. The plantations are successful, very satisfactory, and will only keep growing.

**Berné Forest (56)**

The first massif consists of a plantation of Douglas firs on a piece of land that was agricultural about 25 years ago. The quality of the tree plants is adequate, it was cleared for the first time in 2010 and will be cleared a second time this year, in 2021. The quality of the soil is average (sand starting at 40 cm) for this type of forest, and growth is relatively slow. We also noticed some curved tree trunks due to the relatively low soil fertility. Curved tree trunks will be removed as part of the first clearings to improve the quality of the forest. The second massif was acquired in 2020 and consists of two sections.

The first section has various forestry challenges in various plots:
- reforestation of wasteland and of a forest of maritime pines of adequate quality
- markings for chestnut trees scheduled for this year
- planting sequoias in another area, currently left wild, which has a high quality soil, facing south.

Lastly, area wetland will be ecologically restored.

The second section consists of an agricultural, wooden wasteland, where English oak trees have naturally appeared. Because of climate change, this species is not suitable and will be replaced by sessile oak trees. We note the interesting presence of 4 quite large anthills, which will be preserved. An agricultural land and a stand of oak trees, due to be acquired at the end of 2020, will complete the set in the commune of Berné as early as 2021.
Pleyben Forest (29)

In the heart of the Finistère department, between the mountains of Arrée and the Montagne Noire, Pleyben hosts one of the most beautiful communal areas of the region, a heritage of the golden age of the area (16th century). This forest is in the north of the city. It is a space bursting with life, with many species including Vancouver pines, maple trees, Sitka spruces, chestnut trees, Douglas firs and red oak trees aplenty. A playground for boars, roe deer, foxes and even stoats.

Sitka spruces and Vancouver pines were thinned at the end of winter 2020. Some storm damage can be seen, especially in the plots of Douglas firs planted in 1980. These damages are quite minimal and do not affect the estimates of the plot’s final volume. Sitka spruces and thuyas were planted after the logging of declining ash trees.

Cléden-Poher Forest (29)

Cléden-Poher Forest is located in the commune with the same name, in the Finistère department. Particularly well-suited to the forest site of the massif, chestnut trees, Douglas firs, spruces and other companion species abound, welcoming biodiversity in these plots.

Sustainable reforestation was carried out at the end of winter 2020: branches from previous felling were left on the ground in the felling area, and a mini excavator was used to prepare each spot. Even with a high presence of fauna (game), the sustainable reforestation made it possible for us to protect the saplings.

Melrand Forest (56)

In this cultural and natural haven, we are applying a respectful forestry management style that is close to nature. Many specific regional species will be planted to reforest an agricultural land that is longing to find its former lushness. The first clearing using a brushcutter was made on maritime pines planted in 2019, and some trico was applied. EcoTree used a game repellent on the honey hedges planted in 2019, to further improve biodiversity.

Plouray / Kerautret Forest (56)

Saplings of Sitka spruces, along with Douglas firs, pine trees, thuyas and birch trees, are steadily growing and feel right at home in this space bursting with life. The plots planted in 2018 were cleared in the summer of 2020 and iron tree guards (metallic protections to encourage saplings to grow) were removed from the Douglas plot in the same year.

Lanrivain & Plouguernével Forests (22)

Lanrivain Forest is located in Bretagne, in the traditional territory of Fañch, where dances, costumes, music and dialects express Bretagne’s love story with nature. Sitka spruces respond particularly well to this fresh air and as they grow, provide more stability to these alkaline and particularly humid soils. Some plots were replenished at the end of winter 2020. In November of the same year, grinding was done on trees planted in 2016 and 2008. The trees planted in 2019 were cleared in July 2020 with a brushcutter. In Plouguernével, a commune near Lanrivain, all the actions listed above are planned in 2021.
Loguivy-Plougras Forest (Coadou) (22)

Close to the mythical Brocéliande Forest, at the heart of a green valley crossed by the Saint Émilion river, lies the Coadou Forest, on the foot of the commune of Loguivy-Plougras. Sitka spruces, fabulous coniferous trees, are a particularly renowned species in the region, taking root in the Celtic territory since its large-scale introduction in Bretagne after the second world war.

We then proceeded to grinding every other line in November 2020 and carried out manual clearing of competing plants using a brushcutter.

Louargat Forest (22)

Louargat Forest is on Mont Hogueéné, one of the highest, most splendid points in Côtes-d’Armor. It is home to the knapweed flower (protected).

Tree planting took place at the end of winter 2020 across all of the plots, adding Scots pines and Douglas firs, along with islands of red oak trees as an addition. The plots did not require any clearing during the summer. There is no need for any maintenance during the first year. We applied some repellent (trico) on all plants. Following a hylobius attack (insects which eat the bark of a tree around the collar of the stem) on the Scots pines, the plots will be replenished in full this winter.

Langoëlan Forest - Bourrus Forest (56)

Bourrus Forest is located in the Morbihan, more specifically in the village of Langoëlan which in Breton means “close to the wild heathland”. In this little corner of Breton paradise, the synergy between the generous fallow, the radiant sunshine and the playful drizzle create exceptional conditions for woodlands.

Markings were made with our young forester Margaud, cubic volumes were calculated and a contract was drawn up with a local sawmill (Morbihan).

All of the plots planted since 2016 were thinned. We applied some trico on the Douglas firs. We also placed guards around the Plicata thuyas, on the lines of trees that had been regularly attacked by the roe deer since the planting. The plot of 30-year old Sitka spruces were thinned (115 m3) so as to encourage natural regeneration in the undergrowth.

Faouët Forest (56)

In Faouët, EcoTree made the successive acquisition of 4 small forests, thereby optimising their management. As a reminder, the fragmentation of French forests makes them more complex to manage.

Recently, an abandoned, former agricultural land was added to the other plots. A mixed forest of Douglas firs and chestnut trees was planted across an area of 3.5 ha.

In total, EcoTree acquired 8 plots of around twenty hectares and on which mixed forests of deciduous and coniferous trees are growing.
**IMPROVING AND PRESERVING BIODIVERSITY**

Forests represent the planet’s main reservoir of terrestrial plant and animal biological diversity. Preserving this diversity is crucial on many levels: for the life of the forests, but also to enhance their resources, such as food, fuel, industrial wood, fibres, and substances for the development of medicine.

**French forests: a reservoir of biodiversity**

Forest biodiversity refers to all forms of life found in forests, including trees, plants, mushrooms and micro-organisms, as well as their roles in nature. The complexity and diversity of life forms in forests provide many essential services to human beings. All the living creatures in this natural environment provide an intrinsic diversity that ensures environments and species can adapt to natural changes, including those that relate to the climate.

Forests are essential to life on Earth and for humans to benefit from services rendered by nature, such as supplies of food, water, wood, and more indirectly, soil maintenance, pollination and water quality regulation.

What do we do to protect biodiversity?

EcoTree’s approach to forest management encourages the mixing of species and age categories of trees. The more varied the species are, the higher the diversity of plants, animals and mushrooms. We spot and protect cavities and microhabitats; wetlands are maintained and some dead trees are kept to ensure that the soil benefits from the nutritive elements. During clearings, we make sure the sun can still get through by creating openings. This sustainable management of forests, where biodiversity comes first, contributes to environmental as well as financial enhancement of the forest massif and considerably improves its production.

**Our latest biodiversity projects**

- **Bees and plantations**
- **Agroforestry**
- **Miyawaki forests**
- **Reforestation**
- **Wetlands and riparian forests**
Deep dive into our hive installations in Faouët, Pézarches and Châtelain Forests.

In 2020, working with our partners, we funded 60 beehives in the Faouët Forests in Bretagne, 10 beehives in the Châtelain Forest in the Mayenne department, and 10 beehives in the Pézarches Forest in Ile-de-France. With pollen hedges and water points located close to the hives, bees are producing honey and pollinating trees and plants.

Continuing our mission to support biodiversity, we planted pollen hedges in the Melrand Forest that will, in time, also welcome some hives.

Many other biodiversity projects are planned for 2021, including a new biodiversity haven in the Luthenay Forest in the Nièvre department, protecting habitat trees, opening and protecting a forestry pond and, in the Palotas Forest in the Creuse department, creating a biodiversity haven to ensure trees do not disappear, which involves setting up nesting boxes.
FRENCH FORESTS AND WOOD VALORISATION

2020: FRENCH FORESTS IN NUMBERS

FRENCH FORESTS: NEWS AND CHALLENGES

AGGREGATE INDEXES OF WOOD PRICES

INDEX/SPECIES

DEEP DIVE INTO VALORISATION SECTORS

FOREST-BASED SECTOR KEY FIGURES

Malicorne-sur-Sarthe Forest, Pays de la Loire
2020: FRENCH FORESTS IN NUMBERS

- 16.9M hectares of forest, i.e. 31% of the territory
- 4th European forest in surface area (behind Sweden, Finland and Spain)
- 75% of private forests spread out and divided up between 5.3 million owners
- 40% of Natura 2000 zones - French forests are one of the main reservoirs of biodiversity, a place of reproduction and life for fauna and flora
- 45M tons of sequestered carbon (i.e. 8% of the total national greenhouse gas emissions)
- 3% of GDP - French forests employ 440,000 people, more than the automobile industry. It has a turnover of €50 billion per year

137 SPECIES!

- 2/3 of deciduous trees
- 1/3 of coniferous trees
- Oak, 1st species in France

Luthenay Forest, Bourgogne
While the forest plays a central role in the French economy, it is also crucial against climate change. The culture, environment and leisure industries, along with the forest/wood sector have been experiencing a crisis for the last two decades and the State has not taken the necessary measures.

The forest/wood sector is economically important but is faced with difficulties

In France, the forest/wood sector generates €60 billion and employs 440,000 people, i.e. more than the car industry. Despite the major economic significance of this sector, it is relatively ignored by the public authorities. Yet this sector, with forests at its core, is at the heart of crucial issues from an economic, environmental and social point of view. In one of its recent reports on the organisation of the forest/wood sector, the French Court of Auditors reveals that the old understanding whereby the wood pays for the forest, is no longer applicable, as the economic balance has been broken, to the extent that the economic function of the forest can no longer cover its other functions: “There has been a systemic crisis in this sector for at least two decades, resulting from chronic under-investment and insufficient competitiveness. This crisis is revealing a lack of integration between upstream and downstream activities, between the offer and the demand of wood.”

French forests are under-utilized

Not even half of the annual growth of the forest is harvested. In three decades, the volume of wood has increased by 45%. Admittedly, a large part of the French forest surface area is difficult to use due to its topography: a third, according to the Court of Auditors, who also comments that a “dynamic management of forests can face many other obstacles”. In France, 3/4 of the forests are private and only 1/3 of those forests “applies sustainable management practices”. This leaves a lot of room for manoeuvre. The Court of Auditors notes that “practices for selling timber do not enable industrials to sufficiently secure their supplies; earning opportunities in logging and primary wood processing are not attractive enough.

The threats looming over forests

French forests are constantly expanding, however they are no longer regenerating at a sufficient pace. Forests need to be assisted in their regeneration, in order to be healthy and productive. However, the Court of Auditors has found that regeneration, be it natural or by plantation, has been “steadily dropping” in the last 20 years, which may result, medium term, in a timber shortage.

There are two main threats looming over French forests. In their report, the Court of Auditors makes no allusion to deforestation but instead, they refer to the proliferation of large game as well as climate change. There is too much game and their diet and behaviour are hindering regeneration. Over the last forty years, the number of deer and roe deer in our forests has grown tenfold, and hunting is no longer playing a role in regulating the populations of large game. This is a highly sensitive societal topic. In terms of climate change, which is progressing at a worrying pace, storms and droughts are becoming more frequent, which in turn boost the proliferation of mushrooms and parasite insects, as we have recently witnessed with attacks by beetle-typographers. In forests, such natural disasters are not covered by any insurance.

FRENCH FORESTS: NEWS AND CHALLENGES
An out-of-balance forest-based sector

The French trade deficit, currently at €7 M, is relentlessly growing, even though France boasts the 4th largest European forested area and holds first place for oak production. This is partly due to the specialisation of the sector. We export large quantities of raw timber and import a lot of processed timber. The sector would need to be adjusted, so that first and second transformation industries become complementary. We need to boost wooden construction, the design of wooden furniture and the production of paper/cardboard – three sectors that make up the most part of the trade deficit. This is crucial because the forest/wood sector is the main economic and industrial activity of some rural regions that are now at a loss. This is a critical economic issue.

The climate and environmental issues of French forests

The forest-based sector in France is not just a significant contributor to national economy. In the context of climate warming, it is also the largest terrestrial carbon store. As forests are maintained and as trees mature, they store CO2, which is a particularly efficient way to combat the increase in greenhouse gases. Wood can not only replace materials that generate pollution (cement, lime, steel, etc.), it can also help contain it. Using a tree to make a piece of furniture or in construction means its CO2 is captured and stored for many, many years.

As such, the Court of Auditors notes: “the strategy adopted by France is based on the idea that an active management of the forest, through the improvement of stands of trees and an increased use of wood, leads to a rise in carbon sequestration: climate issues and economic challenges go hand in hand.”

The other functions of forests

Forests have many other functions. They protect the quality of water, air and biodiversity. They avoid soil erosion, offer hunting grounds as well as areas to fish, to walk and to carry out many other leisure activities. What is referred to as forest “amenities” (climate, biodiversity and leisure services) “are only just starting to receive funding.”

The Court of Auditors also notes that “paradoxically, an increasing proportion of public opinion, while in favour of using wood, is showing growing concern about tree felling, considering forests first and foremost as somewhere to enjoy, that is threatened and that should be protected. These feelings do not reflect reality as deforestation is not affecting French forests, which has actually doubled in the last 200 years.” Is is what some, including historian Martine Chalvet, call “the return of romanticism”. Forests are seen as virgin areas that should be left untouched. Felling trees may seem criminal to some, who would compare this to leading life stock to the slaughterhouse. This would be misunderstanding how nature works. From the Neolithic age, every single forest in Europe has at some point been modelled, to some extent, by man. Responsible felling doesn’t destroy forests, instead it enables nature to express itself fully. The same logic applies to livestock; without farming, there would not be any sheep or cows in our fields.

A sector that the State needs to help structure

A recent report highlight that the efforts of the State have been too half-hearted to encourage the emergence of a profitable forest-based sector, that is competitive and that enables to tackle the major challenges of the century: global warming, job resettlement, increase of short circuits, ecology and sustainable development. There are many reasons, from the sector’s fragmentation amongst businesses as well as unions and the State, as this sector has a cross-functional position on many ministerial agendas. Collective actions at a European level are needed to ensure that forest-based sector gets heard. According to the Court of Auditors, the regions are administrative entities that are the most competent to help this sector, but they require State support. It has drawn a list of recommendations to conclude that “the State should help the stakeholders in this sector communicate about sustainable forestry management and should not only rely on private contributors.”

Conclusion

Temperate French forests are exposed to a number of large challenges, due to climate change as well as to the public policies developed in France, in Europe and across the world. The multi-functionality of the forests and of sustainable management need to face these new issues. The sector needs to embrace a new systemic vision of the forest to optimise its benefits. Forests therefore need to be part of an innovative public-interest rationale, fully included in the social fabric, where we can all support its protection, its renewal, its maintenance, therefore preserving a heritage asset as well as its economic, social and environmental benefits. This is the very ethos of EcoTree.
AGGREGATE INDEXES OF WOOD PRICES

General index

In a particularly unusual global context in 2020, the wood market should have experienced a difficult period, just like many other economic sectors. This did not happen. Instead, the production and use of wood have remained dynamic, thanks to unexpected readjustments. For example, the increase of imports of coniferous sawlogs to the USA (due to stock shortages related to COVID) and to England (resulting from an anticipation of Brexit).

This commercial dynamism impacted on the sale of standing wood in 2020: the average price is €61/m³ i.e. a slight recovery of 2% compared with 2019 (€60/m³).

Just as in 2019, this performance is due to oak trees with relatively stable rates, and particularly to the rate for Douglas firs which grew by 10%, with both these species representing most of the range studied. Other species such as the common spruce and the beech tree are suffering from the health difficulties that they are up against in France and in wider Europe, while the maritime pine is facing the repercussions of a massive harvest of spruce.

All resinous species

The “all resinous species” index has increased by almost 3% to €450/m³ after the drop in 2019, thanks to the boost in Douglas fir prices, and even after the noticeable drops in other species, such as the maritime pine, Sitka spruces and larchio pines. The year 2020 witnessed persistent, massive attacks of bark beetles on the common spruce in a large quarter of the north-east of the country, with prices on this species staying low, at a similar level to that of 2019. Once again, the coniferous market has been shaken up in this region.

Firs and Scots pines are experiencing an enhancement of their rates. There is still a high regional discrepancy, as shown on the maps presented per species. The north of France is more dynamic than the south, with the exception of the southwest for the maritime pine. Demand in coniferous trees was quite large in 2020, particularly because of demand from the USA, and the market was actually more affected by the bark beetle attacks than by the pandemic related to Covid-19.
INDEX/SPECIES

OAK

In the end, the health crisis has barely affected the oak market and prices remained stable in 2020: 164 €/m³ compared to 163 €/m³ in 2019.

However, the buyers adopted a wait-and-see approach during the first quarter, as they were unaware of the repercussions of the abrupt slowdown of the economic activity over that period. That said, rates have remained steady due to a reduction in the supply of wood.

Trust returned in the summer and markets started to pick up their pace: exports of sawlogs to Asia (China, Vietnam, India), Europe (Germany and Switzerland) and at the end of the year, to England, who was keen to build a stock reserve before Brexit came into force.

Activities remained constant for all types of opportunities, except for wood staves (impact of Covid 19 on middle to high-end wine, and therefore on barrels), particularly on large grain wood. The impact on rates was nevertheless quite limited, as this opportunity only represented a slim proportion of the qualities sold by the private forest.

It should also be noted that Chinese buyers of logs who were accepting secondary quality wood have now raised their expectations.

BEECH TREES

In 2020, rates remained fairly low, with a 6% drop.

The average price was set in 2020 at €42/m³ for a tree with an average unit volume of 1.7m³, compared with €45/m³ in 2019.

We also note a clear reduction in volumes sold over the last 3 to 4 years.

Market conditions remain tricky with the sluggish global economy and major declines in the East of France over the last 2 to 3 seasons, due to drought, particularly in Bourgogne-Franche-Comté and in the Grand-Est region.

Such declines result in a degradation in the quality of the wood (blue stain, appearance of Nectria mushrooms, beetle attacks) leading to an increase in the volumes available for sale, especially those outside of group sales for depreciated wood.

However, exports of logs and higher quality orders (peeler logs) are keeping the market stable.

The exploration of new opportunities for European industrials, such as glued laminated timber, finger-jointing and substituting plastic materials for wooden ones, could in time reinvigorate the demand for this species.
The price of Douglas firs took off (+10%) in 2020 and is high for the fifth year and counting. It reached its highest ever rate since 2001, the year the index started. All regions have been affected by this increase.

We note another slight drop in volumes sold. In the north-east quarter of France, operators resumed their cutting of spruces attacked by beetles and very small volumes of Douglas firs were sold through tenders in this region.

The average price was set at €65/m³ in 2020 for a tree of 1.2 m³ of average unit volume, compared to €59/m³ in 2019.

The difference in price between 2019 and 2020 is largest for trees with an average unit volume higher than 1 m³ and the appetite in the past for wood with a unit volume higher than 2.5 m³ seems to have abated. The regional discrepancy is reducing but still present: the difference in price between the east of France and those in Occitanie or in the south of the Massif Central sometimes exceeds 50%. It is surprising that this increase occurs in a market inundated with spruce: this shows that industrials are interested in Douglas firs, which have plenty of attractive characteristics and which have found their market.

The average price, for a tree of 0.9 m³ of average unit volume, is stable at €36/m³ in 2020.

For the second consecutive year, we note that very little wood has been sold through tender in the north-east quarter of France, in the context of the bark beetle crisis. Indeed, operators favoured direct sale to be able to react faster and to limit any losses, as a result.

The index is therefore mainly a reflection of the price of a healthy spruce tree outside of the area affected by the bark beetle epidemic.

We note that at the end of the year, the prices were on the increase in the west of France, as a result of the demand from some sawyers who were getting worried about the availability of green spruce in the months and years to come.

In addition, for similar reasons, regional price disparities can also be seen, just like those in the market for Douglas firs (see map).
# SITKA SPRUCE

A dip for the Sitka spruce, for the second consecutive year: €41/m³ vs. €47/m³ in 2019 and 49 €/m³ in 2018.

The rates are similar to those between 2015 and 2017.

Similarly, the offer is slowing down: 58,000 m³ in 2020 vs. 93,000 m³ the previous year. This drop particularly affects the region of Bretagne (less than 38,000 m³) under the combined effect of several factors: competition from wood affected by bark beetles, from the east, low demand seen over the previous year which did not encourage the owners to increase their logging, and the depletion of the available resource.

---

# PECTINATED FIR

For the third year of the publication of the pectinated fir index, the rates show an 8% increase, back to their 2018 level. The average price is therefore set at €43/m³ in 2020 for a tree of 1.75 m³ for an average unit volume, compared with €39/m³ in 2019.

The volumes sold are decreasing once again, due to the drop of sales in the north-east quarter of France resulting from the health crisis on spruce trees. The index is therefore affected by the increase in the price of pine in the other regions, as pine benefited from a boost in buyer interest in 2020.

As for all of the coniferous species, we note a large regional price disparity.

---

### Standing price per m³

For an average unit volume of 1.1 m³

<table>
<thead>
<tr>
<th>Species</th>
<th>Standing price per m³ (current €)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sitka Spruce</td>
<td></td>
</tr>
<tr>
<td>Pectinated Fir</td>
<td></td>
</tr>
</tbody>
</table>

### Difference with national average (in % of price)

<table>
<thead>
<tr>
<th>Species</th>
<th>Difference with national average (in % of price)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sitka Spruce</td>
<td></td>
</tr>
<tr>
<td>Pectinated Fir</td>
<td></td>
</tr>
</tbody>
</table>

---

[Sarran Forest, Corrèze](https://unsplash.com/)

Source: Economic Observatory
MARITIME PINE

After having increased for 3 years, the price of maritime pine dropped by 10%, followed by a similar drop of the price of most types of wood. The average price was set at €38/m³ in 2020 for a tree of 1.25 m³ of average unit volume, against €42/m³ in 2019.

The price of maritime pine closely follows the market development in the south-west, a major region for production and consumption. Demand dropped there in 2020 due to the competing spruce from areas hit by bark beetles (these areas benefited from transport aid), and due to the transformation units closing in the south-west.

The prices of harvested maritime pines in the central-west of France have remained stable. The regional pricing map clearly shows that the market of maritime pine actually consists of two clear segments: the south-west, where the prices are higher, and the central-west, where the prices are lowest.

LARICIO PINE

The price of laricio pine dropped significantly by 20% in 2020.

The average price is therefore set at €24/m³ for a tree with an average unit volume of 0.4 m³ (sales median), compared with 30 €/m³ in 2019. It drops to the level it had in 2010.

This decrease is most pronounced on trees less than 0.6 m³. This clearly shows direct competition from the common spruce. The laricio pine is therefore struggling to find a market that is profitable for the producer, especially since the wood sold have a low average unit volume, as they come mainly from thinning.

We must also raise the significant discrepancies between the massif wood from Montagne Noire and the one from central France and Normandie, valued at 30 to 40% higher than the former.
SCOTS PINE

The price of Scots pine wood increased by 4% in 2020. The price of Scots pine of 0.8 m³ (sales median) was set at €27/m³.

We must note that the Scots pine is a coniferous species which abounds in the French territory, with bundles usually sold in around 70 departments, which results in large price discrepancies, of around 50% between the wood from Auvergne-Rhône-Alpes and the wood from Grand-Est or Normandie for example, being the most popular. However, for 2 years now, we have hardly seen any bundles for sale in the north-east, which reflects the impact of the health crisis on the coniferous market in this region.

POPLAR

The average sale price of the poplar tree has dropped (-4%) after an increase over the last 4 years.

The average price was set in 2020 at €40/m³ for a tree with an average unit volume of 1.35 m³, compared with €42/m³ in 2019.

The volumes sold in 2020, after the 2019 drop, are finding a level that is once again comparable to that of the last few years.

As in 2019, the regional map shows the difference in sale prices across the various regions:
- In Franche-Comté and in Rhône-Alpes, with the proximity of Italy which remains very keen on poplar trees, the prices are lower than the national average; the same applies in the Vendée and Charente departments.
- In Normandie, Picardie and Île-de-France, the prices remain lower than the average. The progressive implantation of transformation factories in these regions does not seem to have had any beneficial effect, yet, on local prices.
- Paradoxically, the Val de Loire and Bretagne regions, even though they traditionally use wooden crates for market produce and baskets for seafood, are experiencing a drop in prices, just like in Bourgogne.

The health crisis related to Covid could be the reason behind this decrease and the regional disparities due to the national slowing down of the food business, which resulted in a reduction of wooden crates being produced as well as a drop in exports. The market is also awaiting the new transformation units, as announced. Indeed, the decrease in 2020 goes against the pressure on resources, resulting from the non-renewal of the poplar plantations in the last few decades, and also goes against the solid demand for high-quality wood and for the development of new markets for peeler logs and veneer.
DEEP DIVE INTO THE VALORISATION SECTORS

Main effects of the health crisis on the sector in 2020

During the lockdown at the start of the year, the forest/wood sector was affected in different ways, depending on the sectors:

- The packaging industries (paper, cardboard) and the pallet industry were considered essential to economic continuation and were therefore able to continue their activity during that period.
- Other transformation industries (sawmill) were required to stop production during the first few weeks of lockdown.
- Most of the ETF Forestry Companies continued their activity, as the lock down started when plants and saplings were still in nurseries.

For forester experts, contacting local buyers/users/sawyers quickly revealed the sector’s supply need:

- for some activities, as the opportunities were in priority economic areas (packaging for ex.),
- for many others, to secure their supplies to resume their activities.

In addition, Experts Forestiers de France led the project to set up electronic sales and this has made it so easy to organise remote sales as early as the first quarter in 2020: 6 expert sales were made entirely remotely, 7 in a room, on electronic format, with the possibility of online submissions (which was the case for many buyers) out of the 19 sales during the first semester of 2020 which experienced 75% of the usual volumes.

In the autumn, the volumes offered during sales were comparable to previous years even with the pandemic, as the climate was more favourable as buyers were looking for suppliers.

Indeed, FNB, the National Wood Federation, shared the data of its observatory on the activity of companies in the forest/wood section end 2020, beginning 2021. At the start of this year, the level of business activity has remained high, particularly for sawmills of coniferous trees operating beyond their nominal capacity.

The situation is a result of the large consumption and demand from the USA, where wood prices have tripled. Main problem: the lack of opportunities in wood-energy and industrial wood.

Even with a recurrent annual deficit of around €7 billion, including around 70% owed to furniture and paper, the sector has one major asset: it is independent. Indeed, French forests provide a large part of the volumes of wood used in France.

As a conclusion, a review of the forest/wood sector has highlighted its valuable features:

- A diverse sector that creates prosperity and provide a variety of jobs, from crafts to heavy industry.
- A bio-based sector with a forestry base, improving national self-reliance especially in terms of energy.
- A sector which presents a real opportunity for growth in the French market.
OUR PROJECTS IN 2021

Each year, your continued support and the increasing emergency of the situation in French forests and on our planet make us more resolved to set ambitious growth objectives. As such, an ever-increasing number of you are showing your commitment to us and we can now expand our work across France and beyond.

In 2021, we are staying the course!

In terms of numbers, our aim is to plant or takeover and manage over 500,000 additional trees by acquiring another 500 ha. In terms of biodiversity, we have identified 30 projects that should launch in 2021.

Geographic expansion

We have developed, with the support of our partners, a thorough territorial network and we are now in a position to study, take over and manage massifs anywhere in France. We are still focusing on our original objective, which is to share our knowledge, expertise, and the our client’s investment where it will have the most environmental, social and economic impact. This is why our forest team is studying an impressively large number of potential projects. We assess them according to various criteria, including ecological potential, production potential, sustainability to water stress and global warming, biodiversity, and collaborations with local players.

New offers

Since 2020, we have built our expertise around biodiversity. We’ve funded projects to create pollen hedges, restore wetlands, plant around river banks, and set up hives. All our biodiversity projects were identified in our forests. Some were completed in 2020 but most of them will be carried out in 2021.

For the first time in our history and responding to our clients’ requests, EcoTree is set to manage, at some point in 2021, some areas with high ecological value. Our primary aim is to preserve and enhance these fauna and flora ecosystems.

Sharing and transparency

Finally, in the spirit of full transparency and openness, we are planning to make even more documentation available to our clients on their personal space. That includes our good forestry management charter, certifications of forestry plans issued by independent experts, as well as carbon capture calculations of our forests, verified by Bureau Veritas.

EcoTree will also continue to pursue its research into forestry plans and will further enhance the ecosystem services of forests. We will share the results with you, particularly during the five webinars throughout the year, which will give you a chance to ask questions.

Objectives in 2021, in a nutshell

- 500,000 additional trees planted and/or managed
- an additional 500 ha
- 30 biodiversity projects
- 5 webinars
- 1st forest abroad
As early as 1931, Paul Valéry was already stating that “the era of the end of the world is beginning”, urging to re-evaluate the destiny of our civilisation and the progress of science. 98 years later, while our world is awakening from a crisis of incredible proportions, human beings are holding on to the present, petrified at what tomorrow may bring. What will happen next? Will this ending be the start of something else? Or will it be an epitaph?

At EcoTree, we are resolutely optimistic. Beneath the rubble, there may be seeds of a new mindset, one based on cooperation instead of competition, attachment to Earth instead of disunion, sincerity, honesty and integrity. We firmly believe that something good is underway. That at an individual level, people can accept forgoing some of their sovereignty and to draw up a new social contract where common sense prevails.

We want to contribute in practical ways. We look for good ideas that place life (forests and their biodiversity) at the heart of our what we do. Our offer is relevant to everyone – the general public and companies – with no assumptions. Our talent forges and fuels thinking in our teams, clients and suppliers. And our model ensures that you always receive what you are owed, as per the saying that good deeds are rewarded, and what Marcel Mauss describes as the psychology of gift-receiving, involving giving, reciprocating, receiving.

Preparing this annual report has been a hugely satisfying process. Our continued growth and expansion outside of our national borders is a source of great pride. It shows us that our idea unites people and is practically useful. We can see that the choice we took to commit to forestry management that is close to nature (a far cry from any output-intensive rationale) is bearing its fruits. While the rest of France is battling against the bark beetle crisis, our sites have been spared and the independent forestry experts who audited our forests confirm that we are in the clear.

The road is long. We still have a lot to achieve and the room for improvement is vast. Once we became aware of that, we sought to surround ourselves with those who consistently hold us accountable. We are now working closely with our ethics committee, our independent forestry experts, world-renowned certification bodies, legal and financial experts and, of course, our clients (both corporate and individual). What do we ask of them?

To be uncompromising with us, hunt down the smallest flaw, and press where it hurts. In short, to lay ourselves bare, so that we can never be faulted, be it in our range of services or how we implement them, and to ensure that our philosophy remains completely focused on common sense ecology.

This is how EcoTree will continue to grow. This is why, this year, we will be in a position to offer our clients managed forests in Northern European countries outside of France.

We will continue to increase awareness amongst the general public and organisations in this way, and to focus on the invaluable heritage of forests and biodiversity.

Our planet will change on a profound level this century, unless human beings fundamentally redirect their development towards an economy that is more rational and less destructive of natural resources. Plants capture the CO2 contained in the air to produce complex carbon chains, and provide food, materials and energy. Forests of the world, as with agriculture, will be used in novel ways, as we shift from the fossil era to one of renewables, from petrol to green carbon. This is a major turning point that the world is still not fully grasping, as we can see with the hesitant tone of international negotiations on climate. The food security issue (feed the world), climate challenge (mitigate climate change) and the energy issue (providing enough energy required by human development) have become closely correlated at a global level. We need options, now, to reverse the emission curbs over the next two to three decades – later will be too late. Using wood as a material can save fossil resources and therefore reduce greenhouse gas emissions. Wood products can prolong carbon storage in forests. This stock can last for decades if not millennia, depending on how the product is used, as the frames of some historical monuments can testify. Reusing or recycling a wood product means that stock can be prolonged. There has been much progress on an international level in terms of the position of forests and wood in strategies related to climate change. In France, not as much, in terms of the valuation of the assets of its forest-based sector. Demand for fuel wood is on the rise, boosted by powerful public levers, and is growing so much that it is actually impeding other uses. However, the potential for sequestration in forests is clearly and largely still under-used. Forests need to become a universal priority. This is certainly EcoTree’s mission.

We strongly feel that EcoTree can contribute in practical ways.

Théophane Le Méné
EcoTree co-founder
SUSTAINABLE MANAGEMENT CERTIFICATE 2020

EcoTree FORESTS

I, undersigned François du Chesnoy, received from EcoTree, whose head office is located at 110 rue Clémenceau, 39190 Gigny, the task to assess the sustainable management of the forests belonging to this company for the year 2020.

NOTION OF SUSTAINABLE MANAGEMENT AND SCOPE OF THE TASK

First of all, we note that it is important to establish what is meant by “sustainable management of a forest”. For this, we reference the reference value and the range of objectives [X]. Article 1.5 of the French Forestry Code states that (“...) the sustainable management of forests ensures their biological diversity, their productivity, their regeneration capacity, their vitality and their ability to meet, currently and in the future, the present economic, ecological and social functions, at local, national and international levels, without creating any damage to other ecosystems (...)”

SCREENING PROTOCOL

We carried out two main verifications to establish the sustainable management of forests belonging to EcoTree. One purely regulatory verification on the compulsory administrative aspects [1] and one more technical verification on the actual implementation in each forest [2].

1. The existence of a sustainable management certificate

For a management entity with a surface area above 25 ha, the French Forestry Code requires that the forest must be managed in compliance with a Simplified Forestry Management Plan (PMS). We therefore checked that forests within the scope of this law did indeed have a valid PMS. The owner provided us with the CRPF confirmation letter showing the agreement date and the validity period of the sustainable management document. By providing this document, we felt that the owner benefited from an assumption of sustainable management and that these data of management were in accordance with the legal framework imposed.

For forests with a surface area under 25 ha, the French Forestry Code does not require them to have a management document. For these forests, we checked that they were either registered to the French Code of Good Forestry Practice (CBP) or that they adhered to a management-type regulation.

Indeed, the legal compliance of interventions carried out in a forest already presents an assumption of significant guarantee of sustainable management on which this certificate is based. A request for additional information on the technical management applied in each forest enabled us to refine our appraisal [2].

2. Compliance of the management implemented with the definition from the French Forestry Code

We therefore asked EcoTree to provide us with an annual management summary for each forest, carried out by the forestry manager responsible for each massif, to check that the management implemented covered the legal criteria previously mentioned, i.e.

- biological diversity
- productivity
- regeneration capacity
- vitality and potential to fulfill both local and in the future, relevant ecological, economic and social functions at local, national and global levels, without causing any damage to other ecosystems.
# The forests belonging to ecotree

EcoTree asked us to give our opinion on the following forests:

<table>
<thead>
<tr>
<th>Forest</th>
<th>Surface area in ha</th>
<th>Mandatory sustainable management document</th>
<th>Sustainable management document with EcoTree</th>
<th>Management document no.</th>
<th>Valid period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sasset</td>
<td>6.98</td>
<td>none</td>
<td>RTG</td>
<td>21 - 014</td>
<td>05/02/2031</td>
</tr>
<tr>
<td>Gioux</td>
<td>30.69</td>
<td>None as surface planted forest less than 25 ha</td>
<td>RTG</td>
<td>20 - 138</td>
<td>02/12/2030</td>
</tr>
<tr>
<td>Palotus</td>
<td>22.7</td>
<td>none</td>
<td>RTG</td>
<td>20 - 043</td>
<td>20/03/2030</td>
</tr>
<tr>
<td>Logneux</td>
<td>0.95</td>
<td>none</td>
<td>CBPS</td>
<td>CP 22-0592-1</td>
<td>13/06/2026</td>
</tr>
<tr>
<td>Laforêt - Plougrenneuel</td>
<td>23.03</td>
<td>none</td>
<td>CBPS</td>
<td>CP 22-0611-1</td>
<td>11/06/2030</td>
</tr>
<tr>
<td>Lonigarot</td>
<td>4.28</td>
<td>none</td>
<td>CBPS</td>
<td>CP 22-0609-2</td>
<td>25/05/2030</td>
</tr>
<tr>
<td>Payben</td>
<td>12.43</td>
<td>none</td>
<td>CBPS</td>
<td>CP 29-1005-2</td>
<td>10/06/2030</td>
</tr>
<tr>
<td>Clerel Pollet</td>
<td>12.02</td>
<td>none</td>
<td>CBPS</td>
<td>CP 29-0942-1</td>
<td>17/04/2029</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Forest</th>
<th>Surface area in ha</th>
<th>Mandatory sustainable management document</th>
<th>Sustainable management document with EcoTree</th>
<th>Management document no.</th>
<th>Valid period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pont de Blaus</td>
<td>9.72</td>
<td>none</td>
<td>registration pending</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Langueien</td>
<td>15.93</td>
<td>none</td>
<td>CBPS</td>
<td>CP 56-0384-1</td>
<td>14/10/2026</td>
</tr>
<tr>
<td>Malmor</td>
<td>19.97</td>
<td>none</td>
<td>CBPS</td>
<td>CP 56-0492-1</td>
<td>12/06/2028</td>
</tr>
<tr>
<td>Malgven</td>
<td>3.72</td>
<td>none</td>
<td>CBPS</td>
<td>CP 29-10004-1</td>
<td>04/06/2030</td>
</tr>
<tr>
<td>Flauvay</td>
<td>11.41</td>
<td>none</td>
<td>CBPS</td>
<td>CP 56-0446-1</td>
<td>23/11/2027</td>
</tr>
<tr>
<td>Ploëzdut 1</td>
<td>8.95</td>
<td>none</td>
<td>CBPS</td>
<td>CP 56-0556-1</td>
<td>17/06/2029</td>
</tr>
<tr>
<td>Ploëzdut 2</td>
<td>2.68</td>
<td>none</td>
<td>CBPS</td>
<td>CP 56-0594-1</td>
<td>04/06/2030</td>
</tr>
<tr>
<td>Faouët 1</td>
<td>15.35</td>
<td>none</td>
<td>CBPS</td>
<td>CP 56-0447-1</td>
<td>23/11/2017</td>
</tr>
<tr>
<td>Faouët 2</td>
<td>3.9</td>
<td>none</td>
<td>CBPS</td>
<td>CP 56-0593-1</td>
<td>04/06/2030</td>
</tr>
<tr>
<td>Faouët 3</td>
<td>2.95</td>
<td>none</td>
<td>registration pending</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forest</td>
<td>Surface area in ha</td>
<td>Mandatory sustainable management document</td>
<td>Sustainable management document with EcoTree</td>
<td>Management document no.</td>
<td>Valid period</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------</td>
<td>--------------------------------------------</td>
<td>---------------------------------------------</td>
<td>--------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Foret</td>
<td>3.52</td>
<td>none</td>
<td>registration pending</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ploufradet</td>
<td>16.83</td>
<td>none</td>
<td>registration pending</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bénil</td>
<td>3.96</td>
<td>none</td>
<td>CEPS</td>
<td>Bénil 1</td>
<td>3.96</td>
</tr>
<tr>
<td>Péronches</td>
<td>15.92</td>
<td>none</td>
<td>PSG</td>
<td>Péronches</td>
<td>15.92</td>
</tr>
<tr>
<td>Malocorne-sur-Sarthe</td>
<td>68.05</td>
<td>PSG</td>
<td>PSG</td>
<td>Malocorne-sur-Sarthe</td>
<td>68.05</td>
</tr>
<tr>
<td>Loual</td>
<td>21.44</td>
<td>none</td>
<td>RTG</td>
<td>Loual</td>
<td>21.44</td>
</tr>
<tr>
<td>Poiffraill</td>
<td>6.72</td>
<td>none</td>
<td>CEPS</td>
<td>Poiffraill</td>
<td>6.72</td>
</tr>
<tr>
<td>Châtelain</td>
<td>12.86</td>
<td>none</td>
<td>PSG</td>
<td>Châtelain</td>
<td>12.86</td>
</tr>
<tr>
<td>Prâtre</td>
<td>10</td>
<td>none</td>
<td>CEPS</td>
<td>Prâtre</td>
<td>10</td>
</tr>
<tr>
<td>La Chapelle saint Émy</td>
<td>13.14</td>
<td>none</td>
<td>registration pending</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Forest</th>
<th>Surface area in ha</th>
<th>Mandatory sustainable management document</th>
<th>Sustainable management document with EcoTree</th>
<th>Management document no.</th>
<th>Valid period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lunainy</td>
<td>112</td>
<td>PSG</td>
<td>PSG</td>
<td>58 - 0851 - 2</td>
<td>22/03/2035</td>
</tr>
<tr>
<td>Champeaux-en-Monna</td>
<td>6.79</td>
<td>none</td>
<td>CEPS</td>
<td>CE21 0165 - 1</td>
<td>16/11/2030</td>
</tr>
</tbody>
</table>

Summary

Except for 5 forests that have been recently acquired, for which the management documents and the registrations are currently under way, we have seen that all the other forests have a corresponding management document. Furthermore, we have noticed that the PSG no. for the Châtelain Forest is missing. This information will need to be given before the next certification for 2021.

The information shared by EcoTree show that, by all accounts, the administrative status of the forests are in line with the current legislation, with regard to the sustainable management documents.
**The management implemented per forest**

The report presented below was given to us for each forest and was prepared by each of the managers in place without any site visit.

From the information given, we have seen the following:

<table>
<thead>
<tr>
<th>Forest</th>
<th>Ecological diversity</th>
<th>Productivity</th>
<th>Expanation capacity</th>
<th>Vitality and potential to fulfill both needs and in the trees, natural ecological, economic and social functions (stocks, national and global tone, without causing any damage to other ecosystems)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sitran</td>
<td>3 species implanted in this forest (Douglas fir, larch trees, larch pine)</td>
<td>The dynamic functioning shows that all forests studied are lined up for the production of construction wood. In all of these forests, we were an actual commitment to natural. This commitment results from binding regulatory requirements from the subventions to CESP, ETG and PIG as well as the treatments applied, both in regular and irregular high forests.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Giron</td>
<td>Mix of Douglas fir and larch trees and an area for responsible growing</td>
<td>All of the forests were analyzed in-depth. The management implemented is dynamic and the significant and diversified reforestation with species adapted to the site natural and natural ecological functions, through the diversity of species and significant practices, the social functions, especially through the work generated by all these interventions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Palomar</td>
<td>3 plots planted with 1 with permanent, 2 with poplar trees, and 3 plots with oak trees (aspen trees, larch trees, poplar trees, Douglas fir, larch trees, larch pine)</td>
<td>The dynamic functioning shows that all forests studied are lined up for the production of construction wood. In all of these forests, we were an actual commitment to natural. This commitment results from binding regulatory requirements from the subventions to CESP, ETG and PIG as well as the treatments applied, both in regular and irregular high forests.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legacy</td>
<td>1 plot planted with Sitka spruce.</td>
<td>All of the forests were analyzed in-depth. The management implemented is dynamic and the significant and diversified reforestation with species adapted to the site natural and natural ecological functions, through the diversity of species and significant practices, the social functions, especially through the work generated by all these interventions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lammart -</td>
<td>3 plots, one management tree, 2 planted with larch trees.</td>
<td>The dynamic functioning shows that all forests studied are lined up for the production of construction wood. In all of these forests, we were an actual commitment to natural. This commitment results from binding regulatory requirements from the subventions to CESP, ETG and PIG as well as the treatments applied, both in regular and irregular high forests.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lionfet</td>
<td>2 plots planted with Douglas fir and Sitka spruce as companions species, 1 with poplar plant.</td>
<td>All of the forests were analyzed in-depth. The management implemented is dynamic and the significant and diversified reforestation with species adapted to the site natural and natural ecological functions, through the diversity of species and significant practices, the social functions, especially through the work generated by all these interventions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plouheu</td>
<td>3 plots planted with Douglas fir and Sitka spruce as companions species, 1 with poplar plant.</td>
<td>The dynamic functioning shows that all forests studied are lined up for the production of construction wood. In all of these forests, we were an actual commitment to natural. This commitment results from binding regulatory requirements from the subventions to CESP, ETG and PIG as well as the treatments applied, both in regular and irregular high forests.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clotl Pouer</td>
<td>3 plots planted with Douglas fir and Sitka spruce as companions species, 1 with poplar plant.</td>
<td>The dynamic functioning shows that all forests studied are lined up for the production of construction wood. In all of these forests, we were an actual commitment to natural. This commitment results from binding regulatory requirements from the subventions to CESP, ETG and PIG as well as the treatments applied, both in regular and irregular high forests.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONCLUSION

The information given show administrative compliance. EcoTee forests are part of a sustainable management approach as defined and imposed by the current legislation. In addition, the management carried out on site seems to be coherent and adheres to the criteria that are needed to ensure sustainable management. This document could not have been drafted without the trust we have bestowed upon the EcoTee foresters who sent us the information contained in this document. This information confirms that the above-mentioned forests are sustainably managed.

Paris, on January 21st, 2021

This certificate is issued for all legal intents and purposes

Francois du Chazeau

Annexes
- detailed report per forest provided by EcoTee (a 68-page document).
- documents relating to each forest (30 files including maps of forests, the recent invoices for work carried out and the legal correspondence confirming the approval from PSG, CB PS and RTG).