

# Biosyl

Cosne-sur-Loire, France



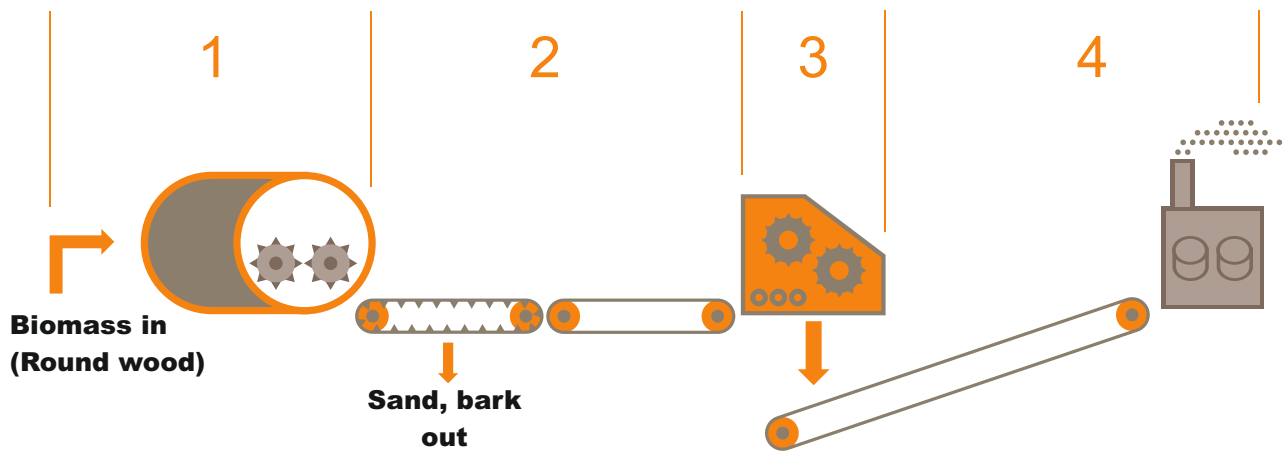
Biosyl pelletizing plant resides in the Loire valley, some 200 km south of Paris.

Biosyl is a company with roots deep in French forestry. Founded in 2010 by individuals hailing from a line of forest owners with the financial backing from local forestiers, Biosyl set out on a mission to produce fuel pellets in the center of France. With further participation of venture capital firm 123Ventures and the sawmill group Scierie Archimbaud, the first stage of plant is now producing pellets in the tune of 30.000 tons/year. The operation is designed to accommodate flexible increase in capacity: the plant has laid out a strategy of doubling their output in the near future, with an ambitious plan to eventually grow the capacity up to 120.000 tons per year through additional investment.

The original requirement for biomass processing capacity was placed at 65 tons/hour at particle size P32. This capacity will be lifted to over 100 tons/hour in the second phase of development. The ability to increase biomass processing power was a decisive factor in favor of Saalasti technology. The installed power in the initial phase is 2 X 355 kW (total 710 kW) which will be lifted up to 2 x 500 kW simply by installing more powerful motors. This will result in total biomass processing capacity of the said 100 tons/hour.

The processed material consists of 75 % hardwood and 25 % softwood. Wood is sourced locally from around 80 km radius from the Cosne-sur-Loire factory.

## Biomass processing system



### 1 Debarker:

**Roundwood** is loaded on a log deck feeding debarker, and subsequently the chipper.

### 2 Conveyor:

**Conveyor** between debarker and Saalasti chipper is in two parts. First half is chain conveyor that resists the impact of falling logs and allows impurities to fall through. The second part is a belt conveyor to allow operating a metal detector.

### 3

#### Saalasti Chipper 1212H:

- Installed in 2013
- Motor power 2 x 355 kW
- Cutting tools: chipper knives
- Capacity 65 ART/h\*
- Particle size: P32

**Saalasti Chipper** process logs at the same capacity as they are debarked. Small sized chips: the particle size is P32.

**Obtainable capacity** through upgrades and optimization is 100 t/h\*

### 4

#### Exit conveyor Pelletizing plant

**The small sized chips** are dried, grinded and finally pelletized in the further processes. The annual capacity of the pellet plant is initially 30.000 tons/year with built-in potential for heavy growth.

\*Nominal capacity, softwood