

# Biomass to produce steam for Nestlé

As an energy services specialist, Dalkia partners many industrial concerns that want to implement economically efficient and environmentally friendly energy solutions. Take the case of Nestlé, the world's largest food company. It contracted the EDF subsidiary to optimise energy efficiency at its manufacturing sites in Rosières-en-Santerre, Picardy, and Saint-Pol-sur-Ternoise, Nord-Pas-de-Calais region (France) by improving production processes and switching to renewable energy. These two sites produce dehydrated potato flakes and delicatessen and cured meats respectively.



To produce these foods and extend shelf life under the best possible conditions, the processes involved are dehydration for the potato flakes and cooking for the cured meats. At both sites, these processes consume large quantities of steam, and equally large amounts of energy to generate it:

- 165,000 tonnes of steam consumed annually at the Rosières-en-Santerre plant;
- 46,000 tonnes of steam consumed annually at the Saint-Pol-sur-Ternoise plant.

The solution proposed by Dalkia involved installing **two very high efficiency biomass boilers**. Fired with woodchip from the local forestry industry whenever possible, they cover the full scope of both sites' requirements: steam, cold, air conditioning, controlled atmosphere storage rooms and industrial process water.

As a result, the two biomass boilers provide 90% of the steam used at the two plants, thereby reducing their dependence on fossil fuels. This solution avoids the emission of 40,000 tonnes of CO<sub>2</sub> a year<sup>(1)</sup>, cutting Nestlé France's carbon emissions by 20%.

#### ADVANTAGES FOR THE ENVIRONMENT

**40,000 tonnes** of CO<sub>2</sub> emissions avoided a year<sup>(1)</sup>, or 20% of Nestlé France's emissions  
**60,000 tonnes** of woodchip recovered from the local forestry industry

(1) Source: Dalkia.

#### INTERESTING FACTS



- A 20 MW biomass boiler in Rosières-en-Santerre.
- A 5 MW biomass boiler in Saint-Pol-sur-Ternoise.



- An automatic filling system for the boiler feed hoppers.

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