



Production of chocolate... green chocolate!

CAFFAREL CHOOSES UNICONFORT



SAVINGS ON HEAT PRODUCTION UP TO 50% Caffarel, confectionery industry in Piemonte (Italy), is saving up to 50% for the purchase of thermal energy necessary for its production processes thanks to a solid biomass boiler Uniconfort. The plant was strongly desired by the company which was facing huge costs for heating the tanks it uses for the production process of chocolate, and it was commissioned by a group of local entrepreneurs in Luserna San Mr Giovanni (To).

THE COGENERATION SYSTEM The boiler, a Global 500, produces 1 MW of electrical power and 4.1 MW of thermal power. It is powered with short supply chain solid biomass, coming from the maintenance of the nearby Val Pellice, which cost even half as much as fossil fuels: this allows the production of energy at low cost, but also the start of an induced leading to new jobs and the stimulation virtuous land management. The plant has virtually no environmental impact. Biomass, in fact, is a CO2 zero fuel and Uniconfort technology allows to maintain fumes and dust much below what the strict Italian legislation requires.

HEAT FOR CAFFAREL AND MORE The heat generated, 4,100 kW thermal per hour, powers a district heating system connected to the Caffarel plant, which absorbs 1 MW of the 4.1 MW produced. The remaining power is distributed to public buildings, swimming pools, schools and other public facilities, and to private individuals, for whom heating costs decreased by about 30% and who can eliminate their individual boiler. The electricity produced is sold to the network instead.

PLANT'S NUMBERS

boiler	Global 500
power	1 MW _{el} e 4,1 MW _t
electrical energy production	8 GWh/year
thermal energy production	32,8 GWh/year
biomass	woody scraps from maintenance forests
biomass consumption	17.000 t/year



CASE HISTORY Caffarel Luserna San Giovanni (To) /IT

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Biomass Energy Evolution