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# Technical and economic evaluation concerning the different employment of marc

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## Abstract

Marc can represent about 20-30% of the mass of grapes destined to the wine making; marc waste is obtained after the distillation phase of marc, and in Abruzzo, which is the fifth Italian producer, its quantity can reach 60-65 kilotons. In consideration of the availability of this kind of biomass, we have supposed the installation in the province of Chieti of a 12 MW electric power station needing about 130 ton/year of biomass, 75% of the total amount deriving from the distillation process. This work carried out a technical and economic evaluation concerning the investment required to realize such a biomass power plant. The Distilleria D'Auria, the only distillery in Abruzzo, can treat about 60 tons of marc, that is, less than that needed amount. We have found that the integration is necessary with further quantity of forestry or agro-industrial biomass coming from the neighbouring regions. If we consider the future interruption of incentives regarding the alcohol production, and the ongoing support given to encourage the production of energy from renewable resources, we can observe that the integration of the two plants (distillery and power station) is the most advantageous choice in order to minimize the effects of change introduced by the distillation support policies.

**Key words:** Marc, biomasses, renewable energies, biomass power station, distillation process, wine

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