

Name of the project	Generation of energy from the biomass of the olive oil residue in the Province of La Rioja – Argentina
Objective of the project	To solve the environmental problem of the organic residue of the olive oil manufacture generating renewable energy.
Brief description of the project and proposed activities	<p>The project consists in the recollection of the residue of the olive oil industry in the provinces of San Juan, La Rioja and Catamarca and its following treatment including the extraction of the pomace oil by further centrifugation and then the combustion of the residue to generate electrical energy.</p> <p>The quantity of hectares of olive plantations in these provinces has grown dramatically over the past 10 years as a result of tax differing policy implemented by the national government. This project would allow not only generate energy from a renewable source, being able even to access to the emission of CER's under the CDM mechanism of the Kyoto Protocol, but also would bring a solution to the environmental problem of the pomace accumulation which will be rendered in a increasingly aggravated problem as the recent plantations begin to yield at their normal rates.</p>
Technology used in the project	<p>Because of the nature of the availability of pomace in the target region, which have as a main feature the youngness of the most of the olive plantations grown for oil purpose, a technology that allows for a modular expansion was adopted in order to increase capacity and total power output of the plant at the same pace as the pomace availability.</p> <p>The technology utilized for the extraction of the pomace oil is by nature of modular characteristics as it uses identical centrifuge machines as the ones used for the typical extraction of virgin oil and they allow to easily increase the capacity of oil production just by adding further units.</p> <p>Both technologies have been widely used in Spain where they probed their effectiveness. In such country, the most important olive oil producer all around the world, many similar plants have been operating since many years ago.</p> <p>The project will have two stages, one for the first 4 years where it will produce 10 MW and the second one in its full</p>

	capacity 20 MW.
Category of the project	Grid connected electricity generation from renewable sources..

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Localization of the project	La Rioja City, Province of La Rioja, Argentina
Date of beginning of the activities of the project	January de 2007 (depending of the time spent for finding the best financing source)
Lifetime of the project	21 years
Current Stage or status in which the project is	Identification stage and Pre Selection
Financing and costs of the project	Initial Investment: 1° Module of Power Generation, 10.000.000 de euros Investment required for the expansion: 2° Module, 10.000.000 de euros

<p>Preliminary estimation of the emissions in the base scenario (in CO₂-equivalent mt)</p>	<p>An approved by the EB-CDM could be used: the AM0004 if the applicability is fulfilled.</p> <p>Expressed annually and for the entire life of the project:</p> <p>Annual: 35 040 (first 4 years), 70 080 (rest of the period) Total: 1 331 520 ton CO₂.</p>
<p>Preliminary estimation of the emissions in the scenario with project (in CO₂-equivalent mt)</p>	<p>Expressed annually and for the entire life of the project:</p> <p>Annual: 0 Total: 0</p>
<p>Preliminary estimation of the reduction of emissions achieved by the project (in CO₂-equivalent mt)</p>	<p>Expressed annually and for the entire life of the project:</p> <p>Annual: 35 040 (first 4 years), 70 080 (rest of the period) Total: 1 331 520 ton CO₂.</p>
<p>Justification of the additionality of the project.</p>	<p>There are few experiences with this kind of fuel at this scale in South America. This project would be unique in this province.</p>
<p>Project positive and negative impacts in the social, economical and environmental ambits</p>	<p>This kind of project is of great importance for the region as it would not only allow for generating energy from a renewable source but would also bring about a solution for the environmental problem of the pomace accumulation but also would bring a solution to the environmental problem of the pomace accumulation which will be rendered in a increasingly aggravated problem as the recent plantations begin to yield at their normal rates.</p> <p>In Argentina, the problem will be the destination of these residues. Given the important increase in the olives for oil application expected for the next years, a similar increase in the availability of pomace can be expected.</p> <p>In case that an use for the pomace is not properly planned, this residue of the olive oil industry may turned into a serious environmental problem and could get to become a barrier for the entry of the Argentinean olive oil into those countries which demand for industrial residues treatment.</p> <p>Some other factors that can be deemed as beneficial for the</p>

	olive sector in general may be: the economical benefit for the olive oil producers, the energy provision (specially in a moment in which the local power sector is facing problems to cope with an increasing demand due to the heavy dependence on natural gas of the energy generation matrix and the scarcity of this resource) and last, but not least, the new employment that would be created.
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Cláusula de confidencialidad: Especificar si los datos contenidos en el presente formulario deben mantenerse en confidencialidad. De no ser así, la información será presentada para su análisis en las Comisiones Asesoras de la OAMDL, así como a potenciales inversores o compradores de los CERs a generar por el proyecto. Además un resumen conteniendo los atributos principales del proyecto será publicado en nuestra página web.

Aclaración: Para la realización del presente cálculo la Secretaría de Ambiente y Desarrollo Sustentable se basó en los datos proporcionados por el Proponente del Proyecto. La Secretaría de Ambiente y Desarrollo Sustentable no se hará responsable en caso de que ocurra alguna de las siguientes eventualidades:

1. Cambios de valores utilizados en la fórmula aplicada;
2. Cambios en la fórmula o modelo de estimación;
3. Modificaciones de la línea de base.