

Spain, Aragón	Agustín Oliver
<i>Institution</i>	Oliver Energy consultancy
<i>Position</i>	Owner of the company
<i>Field of work</i>	<p>Oliver Energy consultancy is specialized in bioenergy, mainly on its production from local resources.</p> <p>They are engaged in biomass energy audits, processing of grants and seeking of funding for equipment.</p> <p>Distribution of feedstock such as almond shells, olive pits and pruning briquettes.</p>
Experience	
<i>About the feedstock</i>	<p>Pine wood, agricultural residues, almond shells, olive pits, peach pit and straw; Production of briquettes and pellets</p> <p>Properties of the pellets/briquettes:</p> <ul style="list-style-type: none"> • High calorific value • Low moisture content, which favors the ignition • Low ash content • Easy to store • Low production costs
<i>Processing chain</i>	Manufactured pellets are dried in the sun.
<i>Economy</i>	The final price of briquettes is 105-110 € per ton.
<i>Context</i>	Oliver Energy S.L have biomass logistics center built in Fabara (Zaragoza, Spain).
<i>Related formalities</i>	Every year there are subsidies for energy savings, rational use of energy and utilization of local energy sources.
<i>Difficulties</i>	<p>The main barriers for further development are:</p> <ul style="list-style-type: none"> • Performance of the biomass engines and boilers is lower than of those using fossil fuels • The processing of biomass requires special handling or technology, which results in higher processing costs and, therefore, final price • Bioenergy production requires higher amounts of feedstock to achieve the same energy gains. More feedstock means additional costs for storage. • In case of biofuels production the costs increase almost by 50 - 80 % compared to conventional fuels production • It is difficult to quantify the feedstock potential, accurate data are missing and further studies are necessary
<i>Wider insight</i>	The prunings and residual wood have a high potential to generate sustainable energy and to enter the market in form of e.g. pellets or woodchips.

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Picture 1: Final products - pellets and briquettes



Picture 2: Processing of the pruning residues