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Is interested in the **participation in a project** that will be prepared and submitted in the following **Area** of the **Thematic Priority 6 Environment** from the Specific Work Programme Cooperation:

<b>Specific Programme</b>	<b>Cooperation</b>
<b>Thematic Priority</b>	<b>5 - ENERGY</b>
<b>Activity</b> (number & title from the Work Programme)	
<b>Sub-priority</b> (number & title from the Work Programme)	<b>Biomass residues pelleting</b>
<b>Area</b> (number & title from the Work Programme)	<b>Other EU Programmes</b>
<b>Call</b> (number & title from the Work Programme)	
<p><b>Short description of the organization expertise relevant to the topic (e.g. staff, areas of expertise and research)</b></p> <p>The BIOFUELS AREA in CARTIF works on the promotion of the use of biomass as an energy resource, mainly focused on agro-forest and wood manufacturing processes, and their application to energy production for public and private buildings. The main research areas in which the department is working are:</p> <ul style="list-style-type: none"> <li>- Biomass resources quantifying in certain areas, with the objective to study the possibilities of producing thermal energy and electricity with residues.</li> <li>- Implementation of biomass installation projects in the real life.</li> <li>- Biomass residues pre-treatment and densifying.</li> </ul>	

**Proposed contribution to the selected Sub-Priority:**

The Biofuels Area of Cartif Foundation develops its activities in the framework of the energy production technologies from biomass and solid biofuels. Our most important projects consist in the energy use of residues from different areas, mainly forestry and agricultural residues and those which comes from the wood manufacturing industry.

Pelletising is becoming one of the best alternatives in the field of biomass compacting, with the objective of producing a renewable solid biofuel, alternative to fossils. This process diminishes biomass heterogeneity; increases its density, thus reducing storage and transportation costs, and allows the automation of the fuel inlet to heating equipment.

Wood pellets are a well known product as a solid biofuel for domestic heating. Pellets can also be made from other raw materials, such as agricultural waste and energy crops. However, these residues features may cause problems in heating equipment, such as slagging and corrosion. Researching in pellets from this other raw materials is necessary to avoid this operation problems.

Cartif Foundation owns a pelleting pilot plant with a capacity of 200 kg/h and 25 kW power and has experience and knowledge on the pelletisation of different types of biomass residues. A biomass boiler of 57 kW used to burn pellets produced and equipment for biomass characterisation are also available.

**Participation in relevant projects** (e.g. *National Projects, FP5, FP6, INTERREG, LIFE, etc.; acronym & title*):

Activities of the Biofuels Area are carried out at local, regional, national and international level. CARTIF has participated in the "Intelligent Energy for Europe" programme of the European Commission, through the projects "Pellets for Europe" (Contract No 4.103/C/02-160) and "Best Result" (contract signing at the moment). The "Pellets for Europe" project consisted in the assessment and promotion of the European pellet markets, focusing both on agri-pellets and wood-pellets ([www.pelletcentre.info](http://www.pelletcentre.info)).

**Relevant Publications** (*Authors, title, editor, year*):

**Other relevant information:**