

## PROJECTS FINANANCED IN INTERNATIONAL OR NATIONAL PUBLIC ANNOUNCEMENTS

PNI-13	<p><b>TITLE:</b> Complete biological treatment of the organic fraction of solid urban waste: improving the hydrogen production by separating the anaerobic phases.</p> <p><b>REFERENCE:</b> CTM2007-62164</p> <p><b>PERIOD:</b> 2007-2010</p> <p><b>FINANCING:</b> 348.480,00 €</p> <p><b>ENTITY:</b> MEC (Ministry for Education &amp; Science) (Science and Environmental Technologies PROGRAMME from the National R+D+I Plan)</p>
PNI-12	<p><b>TITLE:</b> Developing sustainable agro-industrial biogas production and use systems in Spain (PROBIOGAS).</p> <p><b>REFERENCE:</b> PSE-120000-2007-16</p> <p><b>PERIOD:</b> 2007 – 2010</p> <p><b>FINANCING:</b> 316.000,00 €</p> <p><b>ENTITY:</b> MEC (Ministry for Education &amp; Science) – NATIONAL ENERGY PROGRAMME. SINGULAR AND STRATEGIC SCIENTIFIC TECHNOLOGICAL PROJECTS</p>
PNI-11	<p><b>TITLE:</b> Optimising the dry anaerobic digestion of the organic part of solid urban waste. Effluent recovery from the process using composting.</p> <p><b>REFERENCE:</b> CTM2004-01655/TECNO</p> <p><b>PERIOD:</b> 2004-2007</p> <p><b>FINANCING:</b> 203.100,00 €</p> <p><b>ENTITY:</b> MEC (Ministry for Education &amp; Science) (Science and Environmental Technologies programme from the National R+D+I Plan)</p>
PNI-10	<p><b>TITLE:</b> Designing and optimizing a start up and stabilisation protocol on the high solid content thermophilic anaerobic digestion process (dry digestion). Developing and using the microbiological bacterial count techniques.</p> <p><b>REFERENCE:</b> PPQ2001-4032</p> <p><b>PERIOD:</b> 2001-2004</p> <p><b>FINANCING:</b> 115.514,52 €</p> <p><b>ENTITY:</b> MCyT-(Ministry of Science &amp; Technology) (Chemical Products and Processes PROGRAMME from the National R+D+I Plan)</p>
PNI-9	<p><b>TITLE:</b> Sludge recovery from Sewage Treatment Plants (EDAR): Obtaining class A biosolids to use them as fertilisers in agriculture.</p> <p><b>REFERENCE:</b> 148/PC08/3-04.3</p> <p><b>PERIOD:</b> 2008-2010</p> <p><b>FINANCING:</b> 225.500,00 €</p> <p><b>ENTITY:</b> MINISTRY FOR THE ENVIRONMENT</p>
PNI-8	<p><b>TITLE:</b> Concept of the Sewage Treatment Plant of the XXI Century. Development, implementation and evaluation of treatment and resources recovery from waste water technologies.</p> <p><b>REFERENCE:</b> CSD2007-00055</p> <p><b>PERIOD:</b> 01/10/2007 – 29/11/2011</p> <p><b>FINANCING:</b> 4.500.000,00 €</p> <p><b>ENTITY:</b> MEC (Ministry for Education &amp; Science) (PROGRAMA CONSOLIDER-INGENIO 2010)</p>
PNI-7	<p><b>TITLE:</b> Optimizing anaerobic digestion in the sequential temperature phase of sludge temperature from Sewage Treatment Plants (EDAR).</p> <p><b>REFERENCE:</b> 292/2006/3-4.2</p> <p><b>PERIOD:</b> 2004-2007</p> <p><b>FINANCING:</b> 199.322,00 € (2007)</p> <p><b>ENTITY:</b> MINISTRY FOR THE ENVIRONMENT</p>
PNI-6	<p><b>TITLE:</b> Composting and co-composting of organic waste (organic fraction of solid urban waste (FORSU) and sludge from Sewage Treatment Plants)</p> <p><b>REFERENCE:</b> PTR1995-0788 OP</p> <p><b>PERIOD:</b> 2004-2006</p> <p><b>FINANCING:</b> 81.560,00 €</p> <p><b>ENTITY:</b> CICYT (PETRI)</p>

PNI-5	<b>TITLE:</b> <b>REFERENCE:</b> <b>PERIOD:</b> <b>FINANCING:</b> <b>ENTITY:</b>	<b>Stability of thermophilic anaerobic degradation of sludge from Sewage Treatment Plants in view of the differences produced by temperature changes, exact load variations or toxic substances getting into the system.</b> PTR1995-0645-OP 2002-2004 65.500,00 € CICYT (PETRI)
PNI-4	<b>TITLE:</b> <b>REFERENCE:</b> <b>PERIOD:</b> <b>FINANCING:</b> <b>ENTITY:</b>	<b>Optimising antifouling treatment in cooling water used in thermal power plants in Andalusia.</b> 1FD97-1686-C02-01 1999-2001 116.325,89 € CICYT (FEDER)
PNI-3	<b>TITLE:</b> <b>REFERENCE:</b> <b>PERIOD:</b> <b>FINANCING:</b> <b>ENTITY:</b>	<b>Developing a process for the biorecycling (anaerobic digestion and composting) of the organic fraction of solid urban waste together with sludge from sewage treatment plants: product recovery and industrial use.</b> 1FD97-0717 1999-2001 127.579,84 € CICYT (FEDER)
PNI-2	<b>TITLE:</b> <b>REFERENCE:</b> <b>PERIOD:</b> <b>FINANCING:</b> <b>ENTITY:</b>	<b>Developing and comparing advanced techniques used to treat water-oil waste.</b> PB97-1352 1998-2001 37.863,76 € CICYT (P.G.C.)
PNI-1	<b>TITLE:</b> <b>REFERENCE:</b> <b>PERIOD:</b> <b>FINANCING:</b> <b>ENTITY:</b>	<b>Implementing themophilic anaerobic degradation to treat sludge from a conventional urban sewage treatment plant.</b> 95-0208-OP 1997-99 31.853,64 € CICYT (PETRI)

## PROJECTS FINANCED IN PROVINCIAL OR AUTONOMOUS REGION PUBLIC ANNOUNCEMENTS

PAP-5	<p><b>TITLE:</b> Production and recovery of biohydrogen from solid urban waste.</p> <p><b>REFERENCE:</b> TEP 2472</p> <p><b>PERIOD:</b> 2008 – 2011</p> <p><b>FINANCING:</b> 321.195,09 €</p> <p><b>ENTITY:</b> DEPARTMENT OF INNOVATION, SCIENCE AND BUSINESS-AUTONOMOUS GOVERNMENT OF ANDALUSIA – DISTINGUISHED RESEARCH GROUP PROJECTS</p>
PAP-4	<p><b>TITLE:</b> Biomethanisation and sequential composting of solid urban waste and sludge from sewage treatment plants.</p> <p><b>REFERENCE:</b> TEP 1085 (Incentivos a Proyectos de Investigación de Excelencia en Equipos de Investigación)</p> <p><b>PERIOD:</b> 30/12/2005 - 30/12/2008</p> <p><b>FINANCING:</b> 89.800,00 €</p> <p><b>ENTITY:</b> DEPARTMENT OF INNOVATION, SCIENCE AND BUSINESS-AUTONOMOUS GOVERNMENT OF ANDALUSIA</p>
PAP-3	<p><b>TITLE:</b> Composting and co-composting organic waste.</p> <p><b>REFERENCE:</b> OTRI-ATT 06-2003</p> <p><b>PERIOD:</b> 2004-2005</p> <p><b>FINANCING:</b> 18.800,00 €</p> <p><b>ENTITY:</b> OTRIs de la Universidades Andaluzas</p>
PAP-2	<p><b>TITLE:</b> Monitoring and control of the waste water treatment plants from the Gaudalete river basin.</p> <p><b>PERIOD:</b> 1996-98</p> <p><b>FINANCING:</b> 72.551,63 €</p> <p><b>ENTITY:</b> DEPARTMENT OF PUBLIC WORKS OF THE AUTONOMOUS GOVERNMENT OF ANDALUSIA</p>
PAP-1	<p><b>TITLE:</b> Environmental technology (tep-181). Distinguished group from the andalusian research plan.</p> <p><b>PERIOD:</b> 1993-PRESENT</p> <p><b>FINANCING:</b> ANNUAL OFFICIAL ANNOUNCEMENTS. VARIABLE FINANCING.</p> <p><b>ENTITY:</b> DEPARTMENT OF EDUCATION AND SCIENCE FROM THE AUTONOMOUS GOVERNMENT OF ANDALUSIA</p>