



## WP 4 – Task 5: PILOT PROJECTS

### Template for pilot projects – Best practice No. 2, 242 points

<b>Partner no.</b>	PP 07
<b>Name of institution</b>	The Potsdam Chamber of Commerce and Industry, Germany
<b>Pilot region</b>	Westbrandenburg, County Potsdam-Mittelmark, Village Feldheim belongs to City of Treuenbrietzen
<b>Regional biomass potential (current use)</b>	<ul style="list-style-type: none"> <li>• liquid manure from             <ul style="list-style-type: none"> <li>- pig 2,000 m<sup>3</sup>/a</li> <li>- cattle 1,500 m<sup>3</sup>/a</li> </ul> </li> <li>• energy crops like             <ul style="list-style-type: none"> <li>- maize silage 6125 t/a</li> <li>- rye (rough-ground) 650 t/a</li> <li>- ...</li> </ul> </li> <li>• wood (chips)</li> </ul>
<b>Title of the pilot project</b>	„Energieautarke Gemeinde Feldheim“ Energy independent Village Feldheim
<b>Description of the pilot project</b>	<p><b>General target:</b> supply of the whole village with electricity and heating from an own system with a local district heating grid</p> <p><b>Situation:</b></p> <ul style="list-style-type: none"> <li>• Village Feldheim belongs to City of Treuenbrietzen (since 2002)</li> <li>• approx. 150 inhabitants</li> </ul> <p><b>Actors:</b></p> <ul style="list-style-type: none"> <li>• Local Politicians of City of Treuenbrietzen and Village Feldheim as project coordinator</li> <li>• People of Feldheim</li> <li>• Agricultural cooperative “Agrargenossenschaft Fläming” providing biomass</li> <li>• Energiequelle GmbH for planning and construction</li> </ul> <p><b>Particular targets:</b></p> <ul style="list-style-type: none"> <li>• Biomass plant with 500 kW<sub>el</sub> and 553 kW<sub>th</sub> providing 3.67 M kWh/a of heat</li> <li>• 43 Wind mills with an installed power of 74.1 MW approx. 148,000 MWh/a</li> <li>• Solar park with 40 ha and 3MW<sub>el</sub> peak power</li> <li>• Wood chip burner to cover gaps in heat supply during winter time</li> </ul> <p><b>Local district heating:</b></p> <ul style="list-style-type: none"> <li>• 1.6 M € total investment</li> </ul>



	<ul style="list-style-type: none"> <li>• 3,000 € connection fee per household</li> <li>• 45 out of 46 households connected (1 household had already installed a subsurface geothermal heating)</li> </ul> <p>Current problem is the distribution of gaps and surpluses of heat:</p> <p style="text-align: right;">energiequelle</p>
<p><b>Proposed promotion</b></p>	<p>Will be solved by the installation of a wood chip burner</p> <p><b>Role model for small villages</b></p> <ul style="list-style-type: none"> <li>- to become independent from energy providers</li> <li>- to combine various forms of renewable resources</li> <li>- to provide heat from bioenergy for domestic use</li> <li>- to supply renewable heat also during peaks</li> <li>- to provide renewable electricity for domestic use and for feeding the grid</li> </ul>
<p><b>Target groups/partners to be addressed</b></p>	<ul style="list-style-type: none"> <li>• District and county politicians</li> <li>• Federal State of Brandenburg</li> <li>• other villages want to become independent</li> <li>• other regions want to become independent</li> </ul>
<p><b>Cooperation desired</b></p>	<p>yes</p>