



Name of company/institution	Czech University of Life Sciences Prague, Faculty of Agrobiology, Food and Natural Resources, Department of Agroenvironmental Chemistry and Plant Nutrition					
Contact details	<i>Contact person:</i>		Prof. Ing. Pavel Tlustos, CSc.			
	<i>Street:</i>		Kamycka 129			
	<i>Town:</i>		Praha 6			
	<i>Zip code:</i>		16500			
	<i>Country:</i>		Czech Republic			
	<i>Phone:</i>		00 420-224-38-4572			
	<i>E-mail:</i>		tlustos@af.czu.cz			
	<i>www:</i>					
<i>date:</i>		15.07.2017				
Description of activities	<p>The activities of the department related to biogas production are scoped to optimize the technologies where the main emphasis is given to the composition and properties of inputs into biogas plants and the application and processing outputs called digestate. The influence of the composition of different substrates (slurry, manure, organic waste materials, plant biomass) used for biogas production is studied intensively at our department. A possibility of using alternative plants for biogas production is one of main subjects of our investigation. . Simultaneously, optimal conditions for different variants of the pre-treatment of substrates leading to maximization of biogas production are studied (i.e. thermal hydrolysis). The department is equipped with the devices and equipments necessary for the evaluation of the input material properties as well for digestate analyses in solid and liquid phase. The activity of the department are also focused on the treatment of the liquid phase of the digestate using the combination of biological and physico-chemical methods enabling more rationale use of the nutrients. Simultaneously, the treatment of wastewater using aerobic as well as anoxic and anaerobic biological processes is also emphasised. Our laboratory is also equipped by 8 laboratory continually operated fermenters characterized by working volume of 20 L. The staff of the department has long-term experience with the application of "fast" anaerobic batch tests for the quantification of biogas production and with the determination of volatile fatty acids in digestate by gas chromatography. Also the chemical composition of produced biogas by gas chromatography is on a routine basis applied on this department.</p>					
Range of activities (please tick)	<input checked="" type="checkbox"/>	<i>pre-treatment systems</i>	<input checked="" type="checkbox"/>	<i>digestion systems</i>	<input type="checkbox"/>	<i>upgrading systems</i>
Type of company	<i>Technology supplier</i>		Yes		No	
	<i>End-user</i>				X	
	<i>Research unit</i>		X			
	<i>Consulting company</i>		X			
	<i>Engineering company</i>				X	
	<i>Production company</i>				X	
Experience in research projects			X			
Other comments						
Expectations from Record Biomap, e.g. - to find consortium partners for possible projects? - do you already know any funding call or other funding opportunities? - attend our planned workshops? - to find customers?	to find consortium partners for possible project, attend our planned workshop					