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BIOGAS PLANT INSTALLATION IN THE REGION OF BRANDENBURG, GERMANY: ENVIRONMENTAL IMPACTS-SAFETY ASPECTS AND RISK APPLICATION

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A significant renewable source nowadays is biomass that covers the 12% worldwide of the energy needs. The national German market belongs to one of the world leaders regarding the biogas use and production. Around 7800 biogas power plants are located in the Germany in a corresponding capacity of 3.5 GW. The world bioenergy association supports that up to 90% of the total bioenergy consumption is going for traditional uses like cooking and heating. The main biomass resources are mainly used for heat and electricity production or for generating secondary energy barriers such as biogas or biofuels. We have a variation of biomass residues whose main categories are agricultural, waste, forestry and industrial residues. All the types of the residues have the ability to be used as input in biogas power plants for biogas generation. In the production of biogas, the technological process which is used is known as anaerobic digestion. The process is microbiological and during operation, the organic material is decomposed in oxygen limited environment. In the biogas, generation technologies are given several difference substrates that all have a different environmental performance. The construction of a biogas power plant and its operation results in plenty of safety issues, possible risks and impacts in the human health, animals and the ecosystems. It is highly significant for the biogas power plants to provide a safe environment for the employees. The regional state of Brandenburg has been developing regarding the renewable sources of energy. The Ministry of Environment, Health and Consumer Protection has been focused in an innovative policy considering the energy efficiency and energy conservation, however there has been emphasized the production of renewable energy

Biography

Afroditi Anagnostaki has completed a Diploma in Natural Environmental Science at University of Aegean in Greece. She has participated (Scholarship Holder) on the ERASMUS Program in Brandenburg Technical University Cottbus-Senftenberg in Germany (2011). After moving to Germany permanently, she started gaining working experience in research projects in Brandenburg University of Technology Cottbus-Senftenberg. She was a Research Assistant in Global Challenges Initiative e.V, as well as in parallel, she has completed her Master of Science in Environmental and Resource Management with main focus the Renewable Energies. Furthermore, her last research project refers to waste management practices for energy generation scientific field, requested and supported by GICON Großmann Engineer Consult GmbH".

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