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Relationship between the fed substrates and the physical chemical parameters of an anaerobic biodigester in Ecuadorian Amazon Region.

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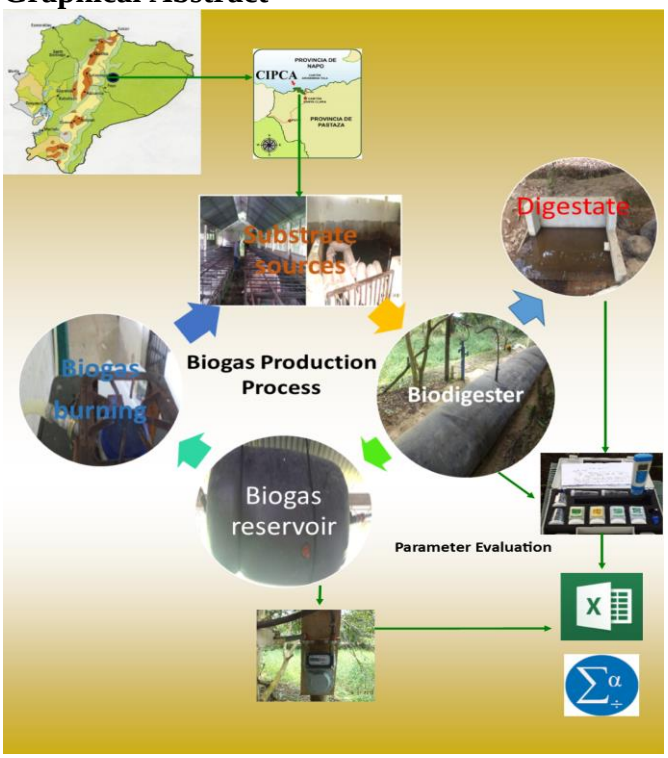
Graphical Abstract



Abstract.

At present the search for renewable energy sources and raw materials is the attention of many countries that seek to modify their energy and productive matrix. Anaerobic digestion of different substrates is one of the most studied processes. Not only with the aim of generating a renewable energy source but also by the use of waste generated in industry, agriculture and our homes. The operational parameters of this process directly influence the quality of the biogas and digestate that is produced. In addition to influencing the performance of the process. Amazon State University's (UEA) has a bioreactor that is fed mainly with animal manure so that the variability of the raw material quality can influence the product obtained quality. This work aims to relate the influence of the different

	substrates fed on the physical chemical parameter variability (pH, salinity, conductivity) that affect the digestion process. Keywords: Anaerobic digestion, animal manure, operational parameters

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