ABSTARCT

Macro algae, that are found in water bodies as sea water or fresh water. Macro algae species consist of proteins, lipids, Carbohydrates, DNA etc., will be used for biogas production. The production of biogas from macro algae by the pretreatment process for the effective cell wall disintegration followed by the anaerobic digestion. By using the pretreatment techniques, energy will be recovered from the macro algae. By using, various pretreatment technologies will increase solubilization and recover efficient energy. Numerous studies have been made to determine the effect of pretreatment on macro algae. Various types of pretreatments are mechanical, physical, chemical, thermal and biological. Among these microwave pretreatments will be used to determine the impact of solubilization of macro algae by optimizing the parameters such as time, temperature, intensity. And response factors such as protein, carbohydrate, total carbohydrate and DNA will be determined and energy recovery can be carried out efficiently in the form of Biogas or Biofuel.