



University : University of Babylon
Country : Iraq
Web Address : <http://www.uobabylon.edu.iq/>

Renewable energy produce inside campus



Al-Musayyaib Campus



Total annual energy production for all campus solar energy production systems: 187200 kilowatt hour

Solar Panel – Collage of Engineering (University of Babylon, Iraq)





Total annual energy production for College of Engineering - Al-Musayyib Bio Diesel station : **14000** kilowatt hour

The College of Engineering - Al-Musayyib station for the production of organic fuels used to produce electrical energy

- Solar energy cells are the first renewable energy in different sites of the campus. It is mainly used for operating water distribution systems and sewage systems, also for lighting during night. University management for logistic programs expands this project of using solar energy by providing more cells in different sites of the university.
- The biogas or Biodiesel Production Unit at the College of Engineering, Al-Musayyib, is one of the recent formations at the University of Babylon. The source of nutrition for this system is “organic waste” and “food remnants”, as well as making use of the remains of agricultural crops, their branches, leaves and their residues, as this gas can be utilized in several ways, the most important one is the electric power generation by linking it to gasoline generators and using the produced gas as an alternative fuel after the mechanical modification of the generator, as well as the use of this gas in the field of Cooking, heating and lighting, noting that there is an byproduct of this system, which is the organic fertilizer that is in the form of an emulsified liquid that contains nutrients of high value that the soil can benefit from and improve its properties. This fertilizer is added by putting it directly with irrigation water and irrigation the plants. This system is considered as one of the applications of sustainable engineering and represents the optimal utilization of energy resources and the preservation of the environment, and this in turn aims to spread and popularize the culture of sorting and recycling of waste in our society, similar to the advanced societies and European countries



which began to encourage such issues and try hard to develop it and even allocate the financial and encouraging rewards for that culture, Moreover, It has a significant financial impact that benefits these countries

This system is currently being used to train fourth-stage students in the Department of Energy Engineering in College of Engineering within practical experiments of Bio-energy.

For more information, Please visit the link:
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