Hussein A.Z. AL-bonsrulah, J Chem Biol Pharm Chem 2020, Volume 03

Green energy Technologies & Solutions to reduce carbon emissions

Hussein A.Z. AL-bonsrulah[1,*]

[1]Department of Energy Systems Engineering, Sharif University of Technology, Azadi Avenue, 14588-89694, Tehran, Iran.

The recent climate change agreement in Paris highlights the imperative to aggressively decarbonize the energy economy and develop new technologies, especially for the generation of electrical energy that are environmentally clean. This challenge can only be addressed by a multi-pronged approach to research and education of the next generation of scientists and engineers as well as informed public discourse. This study deals with appropriate technological solutions to reduce carbon emissions by using green energy while maintaining the appropriate economic cost at the same time, the purpose of this study is to design a hybrid system consisting of PV/Diesel generator, where the two will work alternately in all climatic conditions to generate the required load This method is considered the best in the world of technology.

Keywords: Technology solutions; Hybrid system; Carbon emissions; Green energy; Sustainable energy; Economic analysis.