

Proposal Of Canal Top Solar PV Plant near Thermal Power Plant

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Abstract

Energy crises is very severe issue in Pakistan due to increase in population. Demand is increasing day by day and now a days cost of electricity generation is major concern. Cost of electricity generation is high in Pakistan as compare to other Asian countries. Geographical position of Pakistan has potential of about 1.748 GWh per year from renewable energy resources. But only 2% demand of electricity is fulfilling from renewable energy resources. Solar energy has the greatest potential in Pakistan. Different installing techniques can be used for acquiring energy from the sun. Now a days Canal top power plant is common trending technique. Most of Thermal power plants are located near the bank of canals. Paper proposed a structure that canal top power plant should be mounted near the thermal power plants. This idea will save the cost of transmission line and Grid station and will save space on the ground. Electricity from solar power plant will integrate with transmission line and grid available for thermal power plant. Evaporation of canal water will save. Almost 9 million litre water will save by installing 1MW solar power plant.

Biography

Fahad Javaid has completed his BS ELECTRICAL ENGINEERING in 2017 from GOVT. COLLEGE UNIVERSITY FAISALABAD, PAKISTAN. I am student of last semester of MS Electrical Power and Energy Engineering from University of Gujarat. My research interest areas are power electronics (DC-DC Converter) and renewable energy resources for clean and green energy. I am also a visiting instructor in technical college name of college is Govt. College of Technology Gujranwala.

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