Feasibility on land for solar energy generation in ghana

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The gap between the Pakistan"s energy demand and supply is flaring owing to exponentially growing population, modern way of life, and cheaper information technology (IT) gadgets. The present energy mix of Pakistan shows a major portion is supplied by fossil fuels (23.8%), hydel (32.7%), gas (11.9%) [11] presented in Figs. 2 and 3. The existing energy mix relies mainly on burning of furnace and diesel oil, liquefied petroleum gas (LPG) and coal which has very high CO2 emission rate.

Pakistan has vast potential for various renewable energy sources. Solar has a potential of 2,900,000 MW, biogas 3000 MW, waste materials energy has 1000 MW, wind 34,600 MW and small hydel power has 2000 MW. Currently, most of the electric power is produced from conventional sources and less than 1% energy is being generated from renewable resources [13].

Considering area and power production of a single PV panel can be extended to all plant. Size of a single half-cut cell mono-perc solar PV panel of 500Wp capacity is 7.5*3.5ft. Converting this value to square meter area will be as;

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