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Solar power is an alternative source of renewable energy in Bangladesh: A qualitative literature review

Bangladesh has given prime priority on renewable sustainable energy for securing natural sources solar, wind, hydro, biomass and conventional energy oil, gas, coal etc. Natural Gas is the main source of producing electricity in Bangladesh. According to the report of BPDB, the country generates about 68% of total electricity from natural gas. Moreover, rapid economic growth means creating demand for electricity. The energy demand in Bangladesh is increasing up concurrently due to rapid urbanization and industrialization. In Bangladesh, a large number of population usually live in rural and hard-to-reach hilly areas, where unavailable access to grid electricity. Moreover, approximately 30% of total citizens who live in rural areas are still deprived of grid electricity. This scarcity should be minimized by generating electricity from renewable solar energy. Bangladesh is a typical south asian country where it makes up to 2,500 hours of sunshine each year but with humid and hot climatic condition. Solar home system has got much popularity due to fewer cost and easier installation facility. Renewable solar energy is becoming a broadest alternative source of electricity where it widely expanded in charland, coastal and hilly areas. Since 2016, floating solar panels on water bodies have seen rapidly growth in different countries due to benefits of higher efficiency, cost effectiveness and land savings. Studies suggested that there are high risk factors of established solar plan in coastal, char land for facing recurrent riverbank erosion and flooding. Those barriers force people to relocate the alternative renewable energy network development and policy.