IMPACT: International Journal of Research in Engineering & Technology (IMPACT: IJRET)
ISSN(E): 2321-8843; ISSN(P): 2347-4599
Vol. 2, Issue 7, Jul 2014, 85-92

PERFORMANCE ANALYSIS OF THE SOLAR PV UNITS USED TO ASSIST GOVERNANCE IN KARNATAKA, INDIA

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ABSTRACT

The power sector in India is growing at a faster rate in the recent decades. Even with the growth of about 5.6%, an urban population of about 6% and about 33% of the rural population has no access to electricity. The remaining populace is troubled by intermittent and/or unreliable electricity supply. Because of the increasing power shortages the economy is endangered and the governance has become difficult. The governments both at centre and state are facing problems in providing the necessary assistance to the people. Recently the Karnataka state has established centers called 'Nemmadi Kendra' all over the state (approximately 800) to provide an information technology (IT) enabled services from government to consumer at their doorstep. Majority of these centers are situated in rural areas, where the power situation is very depressing. Hence the success of this scheme was fully dependent on the availability of reliable power. Hence, government has come up with a solution to provide power using solar photo-voltaic (PV) power. This paper studies the relevance and performance of these PV systems in the governance.

KEYWORDS: Development, Electricity, Governance, Service, Solar Energy