**Solar Power Analytics Using Internet of Things**

**by**

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The current scenario of today’s solar energy ecosystem is that, it is highly unstructured and localized. There are about 50 solar power plants in India but none of them are connected in a manner that there would be a method to perform analytical analysis of the solar energy produced. Today, with the advancements in sensor technology it is a very viable option to connect the solar energy systems to the cloud (internet) with the help of Internet of Things. Once these systems are connected to the cloud, the analysis of the performance, productivity and efficiency can be calculated very easily. With the software-technology of Big Data it is also possible to predict possible problems and failures with ease. Once, all the known solar energy systems are connected to the internet it can then be used to monitor these systems at a global level. This paper aims at finding a possible and viable method to connect the Solar based systems to the Cloud and perform analytical operations to increase efficiency of Solar Energy.

Keywords: Solar Energy, Cloud Services, Internet of Things (IoT)