Now, an app for solar energy data in any ar

GERMI researchers also prepare solar energy generation map for the entire country

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Gandhinagar: Considering the immense scale of harnessing solar energy the country looks forward to in view of prime minister Narendra Modi's goal of achieving a solar power generation target of 100 GW by 2020, a new mobile phone application promses significant help in measuring soar power generation.

The Gujarat Energy Research and Ianagement Institute (GERMI), a rominent research centre in the field energy promoted by Gujarat State etroleum Corporation Ltd (GSPC), a Saturday launched a mobile Ancid application that can provide ta of solar energy generation in a rticular area.

Researchers at GERMI have prered a solar energy generation map the entire nation with emphasis on

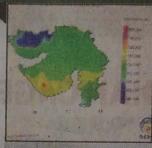


developments at the regional levels and also detailed energy maps of Gujarat, Andhra Pradesh and Telangana.

The mobile application for Android devices can provide digital values of solar energy generation in a particular area within moments. Using the maps created by GERMI, solar power developers can plan their plants in an optimized way. Earlier one required a solar specialist to make basic estimation work through modeling, which often took as long as a week.

"The application is based on ten

JUNAGADH HAS MAXIMUM SOLAR POTENTIAL I



The map prepared by GERMI shows that Junag has the maximum solar potential in Gujarat des Kutch region receiving maximum amount of sol radiation. This is, as GERMI researchers explain because the efficiency of solar cells (photovoltacells) decreases as temperature rises. These ce work at their highest efficiency at around 25 de

Celsius, whereas Kutch normally has temperatures around 35 degree Celsius. Junagadh, being at a high altitude, has cooler atmosphere raises the efficiency of the photovoltaic cells, thus endowing it with maximum potential for solar power generation.

Right now, the application calculates the amount of solar generation for an acre of land. In near future, we are going to develop it for use in rooftop solar power generation. We are also thinking of connecting the application with the GPS-provided coordinates," said Professor T Harinarayana, the director of GERMI.

The mobile app requires a user to feed latitudinal and longitudinal coordinates in order to get data of solar energy generation in a particular area within moments. The app was created

narayana. "The data we have by this application has also fied with the actual generation of the areas where solar planeady established," said Gaj

The application also feath links so that the developer of feedback for future improve sides solar power generation is also conducting research renewable energy sources we will be launching a solar map for the entire national Harinarayana.

SMARTER THAN THE SMART