

BRIEF REPORT OF WEBINAR

Resource person:K. Somarajan (RTD.KSEB Assistant Engineer)

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Webinar topic: SOLAR PV DESIGN

MAR BASELIOS CHRISTIAN
COLLEGE OF ENGINEERING & TECHNOLOGY
KUTTIKANAM, PEERMADE

DEPARTMENT OF
ELECTRICAL AND
ELECTRONICS
ENGINEERING

| SOLAR P V DESIGN |

SPEAKER

Online
WEBINAR

26th-JAN-2022
08:00PM

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Solar photovoltaic modules are where the electricity gets generated, but are only one of the many parts in a complete photovoltaic (PV) system. In order for the generated electricity to be useful in a home or business, a number of other technologies must be in place. To figure out how to size your solar system, take your

daily kWh energy requirement and divide it by your peak sun hours to get the kW output. Then divide the kW output by your panel's efficiency to get the estimated number of solar panels you'll need for your system. Solar PV systems use cells to convert sunlight into electricity. The PV cell consists of one or two layers of a semi conducting material, usually silicon. When light shines on the cell it creates an electric field across the layers causing electricity to flow.

How to get maximum efficiency from the PV module is elucidated through this session. Photovoltaics are best known as a method for generating electric power by using solar cells to convert energy from the sun into a flow of electrons by the photovoltaic effect. Solar cells produce direct current electricity from sunlight which can be used to power equipment or to recharge a battery.

Program arranged and report

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