



Fr. C. Rodrigues Institute of Technology

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Fr. C. Rodrigues Institute of Technology won ISGF Innovation Award 2023

Agnel Charities' Fr. C. Rodrigues Institute of Technology (Fr. CRIT) , Vashi, Navi Mumbai, has received the national 'ISGF Innovation Award 2023' for a post graduate project titled "Transformer-less Inverter with improved gain suitable for Photovoltaic-Grid Interface" under the category of **Smart Technology- Electricity Distribution**. India Smart Grid Forum (ISGF) Innovation Awards instituted in 2017 is aimed to recognize and to celebrate organizations, projects, products and personalities that have set a new benchmark in Electricity, Gas, Water and E-Mobility domains. A team from Fr. CRIT, comprising of Dr. Mini Rajeev, Mr. Omkar Patkar, Ms. Shalini Tuscano and Ms. Keerthi Unni received this award at a ceremony organised by ISGF in New Delhi on 3rd March 2023.

In this novel inverter, ground leakage current is eliminated and voltage gain is improved by using switched inductor cell concept at the input side. Therefore, the inverter topology is a strong contender for transformer-less Photovoltaic-Grid interface with lesser number of series connected PV panels at the distribution level.



