

DOST-ITDI develops a new Power Backup System as a UPS alternative

Bicutan, Taguig City – The Department of Science and Technology - Industrial Technology Development Institute (DOST-ITDI), in its desire to provide an alternative solution to interrupted power supply and outages, has developed a power backup system that has the same functionality as the typical Uninterruptible Power Supply (UPS) system.



ITDI's power backup system has a sturdy modular design fabricated using locally available materials and is simple and easy to operate and maintain.

Developed as an alternative to commercially sold UPS, it provides an uninterruptible energy source for large equipment operations.

The system can transfer from utility mode to backup mode in less than one second providing continuous power to avoid a total shutdown of equipment in a power outage.

DOST Secretary Fortunato Dela Peña, in one episode of his DOSTv Reports, said, "Parameters such as current, temperature, and relative humidity that may affect the systematic operation of the power backup system are on the prescribed scale and do not affect its reliability, durability, and

efficiency."

"The technology is meant for continuous processing and manufacturing in areas highly susceptible to power outage. It has been tested on some equipment installed in DOST – ITDI's Modular Multi-industry Innovation Center, such as pressure filter, blast freezer, slicer, grater, and conveyor," Dela Peña further stated.

The system has no significant difference in the power quality output for both backup and utility mode when installed. Thus voltage and current input will not affect any components or the usual function of the equipment.(DDGotis\ITDI S&T Media Service)

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