

GREEN POWER SOLUTIONS

Rapid urbanization and a revitalized indigenous manufacturing have spiked India's need for power. The solution lies in cutting-edge 'Make in India' Green Power Solutions that contributes to the development of sustainable society.

Hitachi Hi-Rel Power Electronics Pvt. Ltd. (HHPE), a Hitachi group company that has state-of-the-art manufacturing facilities in Sanand & Gandhinagar, Gujarat, has established itself as a pioneer in Power Electronics Products that is helping a wide array of industries and organizations meet the escalating demand through low-polluting and innovative Power Solutions.

HHPE is contributing to new value creation in India by manufacturing an array of highly efficient products like UPS, Drives and Solar Inverters which are helping India meet the present and future Information Technology and Operational Technology requirements.

The cutting-edge products of HHPE conform to and promote

essential criteria of availability, affordability, reliability and quality of electricity supply, which are fundamental pillars of 'Power for All' program objectives.

Grid Tied Solar Inverters

Hitachi Hi-Rel's advanced Solar Inverters that stand apart for their highly efficient conversion technology have been instrumental in bringing the renewable and abundant solar power to millions of homes, industries & factories in India through the National Grid.

At present, Hitachi Hi-Rel has over 2.5 GW Grid Tied Solar inverters installed base in various states of India⁽¹⁾. Pursuant to the Government's 'National Solar Mission' targets, Hitachi Hi-Rel is suitably equipped to co-partner with its

clients and the government for the nation to achieve targeted 100 GW from solar energy by 2022. A significant step towards building nation's Green Energy capability that will mitigate climate change impacts and promote energy security leading to a sustainable society.

Variable Frequency Drives

In the industrial sector, motors are a major source of power consumption. Hitachi Hi-Rel's energy efficient Variable Frequency Drive (VFD) invaluablely contributes through conserving energy spent on the motors by regulating the speed and torque output of an electric motor, which is an effective means of process control. The power thus saved can be made available to more consumers' usage.

This establishes that Hitachi's VFD has immense potential to contribute to a greener and low carbon footprint society.

UPS (Uninterruptible Power Supply)

Hitachi Hi-Rel's Industrial UPS equipped with latest DSP (Digital Signal Processor) based technology & Vermin proof design⁽²⁾ is emerging as exceptional safeguard against power disruption by providing both uninterrupted Power Backup and Power Conditioning. Supporting the rapidly growing digital ecosystem in India, Hitachi Hi-Rel's advanced Online UPS or IT UPS for Enterprise and Commercial Applications with true online double & triple conversion designs is providing customers a highly stable power solution.

Inverter for Railway AC Coach

Railway is critical to India's mass transportation. Hitachi Hi-Rel



offers highly reliable high-performing and durable IGBT (insulated-gate bipolar transistor) based PWM (Pulse Width Modulation) Inverter (25 kVA Under Slung Inverter) for Railway AC coaches, employing latest technology 8-bit microcontroller-a revolutionary development of energy supply system for Railway Application,

supplies power and offers proper air conditioning for AC coaches.

Being a part of every small yet significant transformation, Hitachi Hi-Rel is at the forefront of Social innovation in India's power sector and helps bring-in the nation's dream of clean and green power to realization.



Hitachi Hi-Rel Power Electronics facility in Sanand, Ahemdabad

Source -

(1) <http://www.hitachi-hirel.com/products/solar-inverters>

(2) <http://www.hitachi-hirel.com/products/solar-inverters>



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