

L&T Press Release

Issued by Corporate Brand Management & Communications

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L&T Semiconductor Technologies partners with Newen for SiC-Based Power Modules for Renewable Energy Applications, signs a Master Services Agreement (MSA)

Strategic agreement focuses on design, development and supply of energy-efficient power solutions for power converter systems, driving energy transition through BESS, Green H2 and e-mobility



***L to R:** Shri Ghanshyam Prasad, Chairperson, Central Electricity Authority; Nitin Sharma, Founder and CEO, Newen Systems Pvt Ltd.; Dhirendra Verma, Chief Business Officer, L&T Semiconductor Technologies; Anamika Bhargava, Global Head – Energy Sales & Market Development, L&T Semiconductor Technologies*

India, 21st April 2026: L&T Semiconductor Technologies (LTSCT), a wholly owned subsidiary of Larsen & Toubro, has entered into a **Master Supply Agreement (MSA)** with **Newen Systems** to collaborate on the design, development, qualification and supply of Silicon Carbide (SiC)-based power modules for use in renewable energy inverter applications. This will help India drive the energy transition of global proportions and position India as full stack power electronics solution provider. The partnership will power new-age data centre and AI model development through existing and upcoming DC solutions.

This MSA positions both companies at the forefront of the rapidly expanding renewable energy semiconductor market, with particular focus on BESS, Solar etc. that demand high-efficiency power conversion technologies. The agreement encompasses partnership in joint engineering efforts to create next-generation SiC-based power modules optimised for renewable applications, leveraging both companies' technical expertise and innovation capabilities.

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The MSA includes rigorous testing and validation processes to ensure products meet the stringent reliability and performance standards required for renewables applications in diverse environmental conditions. To support market demands, the agreement establishes streamlined manufacturing and distribution to deliver scalable solutions that meet the growing market demand for renewable energy infrastructure.

The renewable energy sector continues its unprecedented growth trajectory, with solar installations driving substantial demand for advanced power conversion technologies. SiC-based power modules offer superior efficiency, thermal performance, and reliability, compared to traditional silicon solutions, making them essential components for next-generation inverters. This partnership directly addresses the semiconductor ecosystem's need for specialised solutions that can handle the unique requirements of renewable energy applications, including high switching frequencies, high Power density, elevated operating temperatures, and extended operational lifespans.

Shri Ghanshyam Prasad, Chairperson, Central Electricity Authority, said: *"India's commitment to achieving 500 GW of renewable energy capacity by 2030 requires cutting-edge technological solutions that can handle the complexities of grid integration and energy storage. Silicon Carbide-based power modules represent a significant technological leap in power conversion efficiency, which is critical for optimizing renewable energy systems. Collaborations like this between leading semiconductor and power electronics companies strengthen India's position in the global clean energy value chain and support our nation's energy security and climate goals. Such partnerships accelerate the adoption of advanced technologies that will be instrumental in India's transition to a sustainable energy future."*

Dr. Sandeep Kumar, Chief Executive, L&T Semiconductor Technologies, added: *"The energy sector is evolving with the rise of smart grids and renewable energy integration, and this agreement reflects our focus on developing advanced power semiconductor solutions for high-growth sectors such as renewable energy. SiC-based power modules are essential to meeting the efficiency and performance demands of power converter applications, and this partnership allows us to work closely towards delivering robust, energy-efficient solutions."*

Nitin Sharma, Founder and CEO, Newen Systems Pvt Ltd. shared, *"The renewable energy market continues to expand rapidly, increasing the need for efficient and reliable power electronics. Through this partnership, we aim to collaborate on solutions that support energy efficiency and meet the evolving needs of battery inverter applications. With 30 GW power electronics world-class manufacturing infrastructure in India, collaboration with LTSC will help drive global innovation and adoption from India to the World."*

The strategic agreement brings together LTSC and Newen's capabilities in semiconductor design, development and supply. The agreement is expected to contribute to the broader semiconductor ecosystem by supporting the growing renewable energy market and enabling energy-efficient solutions for end customers.

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About L&T Semiconductor Technologies Ltd (LTSCT):

L&T Semiconductor Technologies (LTSCT), a fully owned subsidiary of L&T, is the first major Indian Semiconductor product company - a fabless company for designing & delivering Smart Devices for Global Customers. A company that provides Semiconductor Devices and Technology partnerships by helping customers realise energy-efficient, high-performance systems to benefit from data, electrification and software-defined technology trends. Our aim is to build an India-based semiconductor portfolio of Smart Devices across MEMS Sensors, Power, Analog Mixed Signal & RF products, to support Automotive, Industrial, Energy and Telecommunication verticals. We have a presence in four prominent geographies, i.e. US, Europe, Japan and India, with offices in Austin, Munich, Tokyo, Bangalore and Chennai. For more information, visit <https://www.ltsct.com/about-us/>

Media Queries:

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About Newen Systems Private Limited:

Newen Systems Private Limited is a group company of an energy transition platform supported by IFC, Norfund, ADB, DEG Germany and TPG Rise. In technology collaboration with Dynapower, USA, Newen Systems has established itself as leading power electronics manufacturing company, driving energy transition through BESS, Green Hydrogen, Microgrids and e-mobility infrastructure. Newen operates two manufacturing plants in Vadodara, GJ with a manufacturing capacity scalable to 4 GW. Newen is opening a new world-class power electronics manufacturing facility in Vadodara with 30 GW of annual manufacturing facility. Newen supports customers with both AC and DC coupled BESS solutions. Newen is uniquely positioned globally with PCS and EMS solutions under one roof to help customers with integration solutions at the factory thereby reducing overall project risks and scope creep. Newen has offices and teams placed in Mumbai, Delhi, Ahmedabad, Bangalore, Chennai and Hyderabad. For more information, visit <https://www.newensystems.com/>.

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