

### | INDUSTRY SPEAKS || SOLAR



#### **RAMAN BHATIA**

Founder & Managing Director,  
Servotech Power Systems Ltd.

## Enlightening the future of India with sustainable solar solutions

*"Servotech ensures that its solar panel solutions meet high performance and reliability standards while minimising environmental impact."*

### Can you summarise your mission and principles in providing solar panel solutions?

Servotech Power Systems is committed to providing cutting-edge, sustainable solar panel solutions. Prioritising quality, affordability, and customer satisfaction, our approach aims to create a greener future for India. We emphasise sustainability in materials and manufacturing, meeting high standards while minimising environmental impact. Our products contribute to India's transition to renewable energy, supporting government initiatives like the Pradhan Mantri Suryodaya Yojana and solarisation projects in Varanasi. Through excellence and accessibility, we empower individuals, businesses, and communities nationwide to embrace clean and renewable solar energy, fostering a brighter and more sustainable future for India.

### Given the dynamic nature of the solar industry, how does your company stay abreast of the latest advancements in solar panel technologies?

Currently, we are manufacturing Mono PERC solar panels and Mono Bifacial panels. The Mono Bifacial panels offer a significant advantage in terms of generation, with an estimated increase of 22-30 percent compared to Mono PERC panels. Looking ahead, market trends suggest that solar panels with capacities ranging from 700 to 1000 watts will become prevalent shortly, and we are actively working on incorporating this technology into our product portfolio.



Now you can read this story online by scanning the QR code



Our commitment to innovation and staying at the forefront of advancements in solar technology drives our efforts to provide cutting-edge solutions to meet the evolving needs of our customers and the market. To ensure top-notch quality, we've developed in-house PLC modules using cutting-edge technology for meticulous inspection at every assembly stage. Our solar panels boast a high 22 percent efficiency rating and a 30-35 year lifespan. Innovations undergo rigorous performance, durability, and quality adherence testing, resulting in detailed testing reports for product insights.

### Can you enlighten us with your solar panel solutions that have significantly impacted reducing carbon footprints?

As a leading solar panel manufacturer, we prioritise sustainability using recycled materials and energy-efficient manufacturing. Despite some environmental impacts, the long-term benefits of solar energy far outweigh the potential negatives. We employ data-driven strategies to extend product lifespans, optimise resource use, and ensure responsible disposal. Research and development efforts focus on enhancing panel longevity, and advanced recycling methods recover vital components like silicon.

Governments and industry stakeholders are adopting Extended Producer Responsibility (EPR) frameworks for accountability. Standardised recycling processes, consumer awareness initiatives, and regulatory frameworks are vital for promoting sustainability in the solar industry. We've led regional solar initiatives, collaborating with IOCL in Haldia and HPCL to install solar systems. In Delhi, we've implemented a smart grid, reducing CO2 emissions by 115 tonnes annually. Our partnership with NSEFI led to a solar-powered EV Charging Carport. Collaborating with UPNEDA, we've solarised government offices, schools, and buildings. In Tamil Nadu, with the Tamil Nadu Energy Development Authority, we've implemented solar home lighting systems benefiting over 10,000 households. In Himachal Pradesh, partnering with Him Urja, we've solarised 2,800+ homes. These efforts showcase our commitment to driving positive environmental impact and promoting renewable energy adoption.

