

Adani Solar: Powering the vision of ‘Atmanirbhar Bharat’

Rahul Bhutiani, Chief Marketing Officer of Adani Solar, shared insights on the company's expansion plans during the Renewable Energy India (REI) Expo 2024 held in Greater Noida. In his discussion, he highlighted strategic initiatives aimed at enhancing Adani Solar's market presence and driving growth in the renewable energy sector.

Adani Solar aimed to establish a 10-gigawatt (GW) manufacturing setup. Can you provide an update on the status of this initiative?

Our vision to achieve a fully integrated 10-GW capacity remains on track, covering everything—from polysilicon to finished modules. We've made great progress, particularly with our cell and module lines. We expect the module line to be operational by the end of 2025, followed by the cell line in mid-2026. We are also expanding into ingot, wafer, and polysilicon production, aiming to complete these by late 2027 or early 2028. Moreover, we're developing a fully integrated ecosystem, including ancillary units for solar glass, aluminium frames, encapsulants, and back sheets. All of this will be housed in the same location—a feat not seen anywhere else in the world.

How is Adani Solar positioning itself in the expanding solar industry?

We are positioning ourselves as a leading manufacturer in the solar sector by aligning our strategies with both national objectives and

global market trends. For example, in support of the Prime Minister's initiative to solarize one crore households under the residential rooftop program, we are dedicating a significant portion of our manufacturing capacity to serve this market segment. This not only shows our commitment to national goals but also highlights our belief in the transformative

role solar energy can play in meeting household energy needs across the country. By producing high-quality, efficient solar products, we aim to drive the transition to renewable energy and make solar power a viable and accessible option for everyone.

What role does Adani Solar play in achieving India's target of 300 GW of solar capacity by 2030?

Adani Solar is strategically expanding its capacity to align with this national target. We have already committed to scaling up both our module and cell production to 10 GW each. By the end of next year, we expect our module capacity to reach 10 GW, with cell production closely following. Our focus is not just on increasing output but also on ensuring a strong contribution to the domestic market. This is crucial, as it supports the broader goal of enhancing India's energy independence and sustainability. We believe that our efforts will play a significant role in helping the country achieve its solar capacity targets, accelerating renewable energy adoption and reducing reliance on fossil fuels.

How does Adani Solar contribute to the vision of Atmanirbhar Bharat?

Atmanirbhar Bharat's vision is centered on self-reliance, and for Adani Solar, this means maximizing domestic manufacturing capabilities. We are heavily investing in the production of key components like cells, encapsulants, solar glass, and aluminium frames to ensure that India becomes self-sufficient in its solar supply chain. This commitment is crucial not only for meeting current energy demands but also for securing India's long-term energy security.



Rahul Bhutiani

By focusing on domestic manufacturing, we can respond quickly to market needs and foster local innovation, ultimately reducing import dependency and strengthening the economy.

What products did Adani Solar showcase at the REI Expo 2024?

At the REI Expo 2024, we showcased our existing product lines, including Dopman and MonoPERC modules—both designed for optimal efficiency and performance. We are also excited to introduce our upcoming G12R product. This innovative module features rectangular wafer technology, enabling us to increase module capacity from 580 watts to over 620 watts. Currently, the product is in the testing and certification phase, and we expect it to be commercially available by mid-2025. This development underscores our commitment to innovation and delivering cutting-edge solutions to our customers.

What additional government support would help drive the solar industry forward?

The government has taken commendable steps to support the solar industry, striking a balance between the needs of manufacturers and developers. Moving forward, we believe that the key to sustained growth will be stability in policies and a long-term vision. Continued support through clear guidelines, incentives for domestic manufacturing, and initiatives aimed at increasing renewable energy adoption will be crucial. We are optimistic that with such supportive policies in place, the solar industry will continue to thrive and contribute significantly to India's energy landscape.



Watch the video here:
<https://bit.ly/adanisolar>

ECE India launches TOPCon 650 Wp Solar Module

Aniket Tondare, Director of Distribution Sales at ECE India Energies, recently outlined the company's growth roadmap during the Renewable Energy India (REI) Expo 2024. In his remarks, he emphasized key strategies and initiatives aimed at strengthening ECE India's position in the renewable energy sector and expanding their market reach.

Since the last REI Expo, how has ECE India Energies evolved in terms of market reach and product offerings?

ECE India has seen substantial growth since last year. We've expanded our manufacturing facility and strengthened our market presence through an enhanced channel partner and distributor program. Additionally, we established the ECE India Foundation, which focuses on key pillars such as environmental sustainability and education. One of our flagship projects, Vidyalam, sponsors the education of 50 students from 1st to 12th standard. Another initiative, the Devrai project, involves our commitment to planting 1,000 trees on a dedicated farm. These efforts reflect our broader vision of contributing to both the community and the environment.

Aniket Tondare



You launched a TOPCon module at the expo. Can you tell us more about its features?

Yes, our TOPCon technology offers several advanced features, including increased bifacial gain, improved temperature coefficients, and reduced Light-Induced Degradation (LID) effects. Our module is now available with a capacity of 650 Wp, providing higher efficiency and enhanced performance under various conditions.

Given the rapid growth in the renewable energy sector, how is ECE India positioning itself?

The renewable energy sector is indeed growing rapidly, and ECE India is actively keeping up with this momentum. We are enhancing our capacity and launching new products, such as the TOPCon module. Our focus is strong in key segments like solar pumps, commercial and industrial (C&I) solar, and utility-scale solar projects. Additionally, we are developing solar parks, including our own initiatives in Solapur and Amravati, to further strengthen our position in the market.

Can you tell us more about the solar park you mentioned?

The solar park is a 50-megawatt project developed by ECE India in collaboration with our four partners. It is aimed at industries that require power but may not have the capacity to install solar modules on-site. As a CAPEX project, we take care of all aspects of the development, including securing the land and managing the entire process.

What's the latest update on your channel partner program?

We have successfully added 100 new channel partners since last year, bringing our total to over 150. The program has been performing well in Maharashtra and Uttar Pradesh, and we are now planning to expand into Telangana, Madhya Pradesh, Chhattisgarh, and Andhra Pradesh.



Watch the video here:
<https://bit.ly/eceindia>

Testo presents Smart HVACR solutions

At REFCOLD 2024, Testo India, a leader in measurement solutions, presented an impressive array of HVACR products designed to enhance efficiency and precision in various industries. In an exclusive walkthrough, mojo4industry explored Testo India's booth, guided by Nikunj Gohil, Distribution Manager - HVAC, who shared detailed insights into their latest offerings. The focus was on products that promise cutting-edge solutions for HVAC and refrigeration applications, helping industries boost reliability and performance.

Flue Gas Analyzers and Electrical Measurement Tools

The tour began with a focus on flue gas analyzers, essential for heat pumps and applications that require monitoring flue gases for combustion efficiency. Nikunj explained, "These analyzers are key for ensuring efficiency in combustion systems, allowing users to monitor flue gases for safety and performance." Testo also offers tools for electrical parameter measurement, including current measurements with one-handed operation and Bluetooth connectivity, making it easy to collect and transfer data.

Temperature & Humidity Monitoring for Cold Storage

Testo then showcased their humidity and temperature transmitters, designed for cold storage environments where precise monitoring is crucial. "These transmitters

provide continuous tracking of relative humidity and temperature, ensuring optimal conditions in cold storage facilities," Nikunj noted. The company offers ductable and wall-mounted transmitters equipped with advanced measurement technology, helping users monitor changes and adjust parameters efficiently.

Portable Instruments and Multifunctional Tools

Testo India also highlighted their portable instruments and pocket-sized tools. "Our pocket instruments, though small, are highly accurate, offering a range of measurements from lux to temperature, RPM, and more," Nikunj shared. One standout product is a multifunctional device that can perform both contact and non-contact measurements, supporting a variety of HVAC applications. "These tools are designed for on-the-go professionals, and all measurements can be viewed instantly via Bluetooth on mobile devices," he added.

Refrigeration Tools: Award-Winning Innovations

One of the highlights of Testo's showcase was their refrigeration tools, which include vacuum pumps and gauges. "We have won the Innovative Product of the Year award in Germany for our vacuum pump, which is part of our suite of refrigeration tools," Nikunj stated. Testo also offers vacuum gauges and manifolds, available with or without displays, supporting everything from evacuating and



charging systems to compressor and pressure tests. "Our tools offer end-to-end solutions, from the start of the refrigeration cycle to generating instant reports via mobile devices," he explained.

Revolutionizing Cold Storage

Testo also introduced the Severus II or 160 IQ, an IoT-based solution that integrates CO2 monitoring, RS temperature, and absolute pressure. "This system connects to existing routers and allows users to monitor cold storage environments remotely, making it highly efficient and user-friendly," Nikunj explained. This standalone data logger is ideal for industries like pharmaceuticals, cold storage, and transportation, providing continuous monitoring and instant reporting.

Efficient Refrigeration Cycle Monitoring and Leak Detection

After introducing the refrigeration tools, Nikunj emphasized the importance of monitoring the entire refrigeration cycle for performance. "Our tools allow users to measure pressure drops and detect any potential leaks in the system," he

said. Testo's leakage testers are compatible with gases like CFC, HFC, and ammonia, making them versatile for various applications. Additionally, Testo's CFM measurement tools are light and efficient, allowing users to measure airflow across HEPA filters and fume hoods.

Advanced Measurement Technology

Testo's solutions extend beyond traditional HVAC tools. They offer sound level measurement tools, crucial for monitoring noise pollution, and non-contact voltage testers that can be used in any industry, including HVAC. "Our voltage testers can measure sequence and RCCB trip tests, ensuring safety and compliance across industries," Nikunj explained. Additionally, Testo provides differential temperature and pressure measurement tools, as well as LUX and CO2 measurement devices, essential for applications like potato storage.

German Engineering for Precision and Reliability

Testo India's comprehensive range of products, backed by German-engineered precision, ensures accurate and reliable monitoring across HVAC, refrigeration, and cold storage industries.



Watch the video here:
<https://bit.ly/testo-refcold>

Delta hosts Automation Solution Day

Delta, a leading power and energy management company, hosts Automation Solution Day, in its Gurgaon facility

Niranjan Nayak, Managing Director, Delta Electronics India, said, "India's manufacturing sector is expected to reach US\$1 trillion by 2026, boosted especially by the electronics, automotive, and textile industries and by government initiatives like Make in India and PLI schemes. Automation Solution Day is a testament to our commitment to innovation and excellence in industrial automation. We are excited to share our latest innovations with customers and partners, demonstrating how our smart manufacturing solutions transform industries by enhancing productivity and energy conservation."

Automation Solution Day is a unique event that offers esteemed customers and partners an exclusive, hands-on experience on its latest innovations in industrial automation and smart manufacturing solutions, which are designed to enhance the operational efficiency and productivity of India's manufacturing sector. The event also provided an interactive platform where Delta's management discussed their vision for the future of smart



Manish Walia with newly launched automation solutions

manufacturing in India, especially the implementation of robotics, IIoT, digitization, and energy management in production lines and entire manufacturing sites.

Delta's commitment to addressing real-world industrial challenges through these

innovative solutions was emphasized by Manish Walia, Head of Automation at Delta Electronics India. He added: "This event provides our customers with an opportunity to see firsthand how our automation technologies can solve real-

world challenges. Our solutions are designed to boost efficiency, improve precision, and enable businesses to stay ahead in a rapidly evolving industrial landscape."

During the event, Delta Electronics India showcased a wide range of automation solutions, including Semi-Automated Lines, Machine Loading and Unloading, Saline Bottle Automation, and Delta SCARA & Servo Press.

A highlight of the event is the High-Speed Press Automation Solution, particularly beneficial for industries such as stamping presses, laptop and mobile device manufacturing, and AC cabinet production. This high-performance system ensures faster production cycles, reduces downtime, and enhances precision in complex stamping operations.



Read the news here:
<https://bit.ly/delta2610>

Boosting India's medtech manufacturing

Dr. Jitendra Sharma, Managing Director and Founder CEO of Andhra Pradesh MedTech Zone (AMTZ) talks about enhancing competitiveness

As India positions itself as a burgeoning hub for medical device manufacturing, the need to align local practices with international standards has never been more urgent. However, Dr. Jitendra Sharma, Managing Director and Founder CEO of Andhra Pradesh MedTech Zone (AMTZ) cautioned that the path to aligning with global standards requires both vision and hard work. He proposed three key steps to help India's medical manufacturing sector become globally competitive.

Harmonizing certification systems

Dr. Sharma's first recommendation is for Indian and multinational companies operating in India to agree on a mutually equivalent certification system. He referenced the Global Harmonization Task Force as an international example of aligning various countries' quality systems. "I think various states and industry bodies must come together on one platform, pen down a set of certification systems—whether it is ISO or ICMED—that are not anti to each other, that are similar if not the same," he said. This would help streamline the certification process, making it easier for Indian medical devices to meet global standards.

Strengthening free trade agreements

As India signs a growing number of Free Trade Agreements (FTAs) and bilateral trade agreements, Dr. Sharma underscored the importance of due diligence and traceability. He warned that although governments may sign agreements with the right intentions, loopholes could allow for exploitation. "There might be people, bodies, and regions that might take undue advantage of this right intention," he remarked. Dr. Sharma advocated for



Dr. Jitendra Sharma

industry associations—such as the India Business Council or Association of Indian Medical Device Industry (AiMeD)—to take a proactive role in signing agreements on the acceptance of quality standards. These agreements could complement governmental efforts and ensure that Indian-made devices meet the standards of partner countries.

Strong auditor workforce

Finally, Dr. Sharma stressed the urgent need to develop a robust workforce of qualified auditors. "A right qualified

auditor with the right training, with a certain number of credit hours and inspection hours, is a dire need of the country," he emphasized. He expressed concern that the rapid growth of India's economy, combined with the accelerated pace of the medical technology sector, could lead to a shortage of auditors. "My fear is the paucity of our own auditors in our own country might become a barrier."

Expanding the pool of trained auditors, he argued, is crucial for ensuring that Indian manufacturers can consistently meet international standards.

In conclusion, Dr. Sharma's remarks underscored the potential for India to take a leading role in the global medical device industry. However, this will require concerted efforts in harmonizing certification systems, strengthening trade agreements, and building a skilled auditing workforce. "With these three steps, I believe we can align Indian medical manufacturing with global standards and enhance our competitiveness in the international market," he concluded.



Watch the video here:
<https://bit.ly/medical-standards>