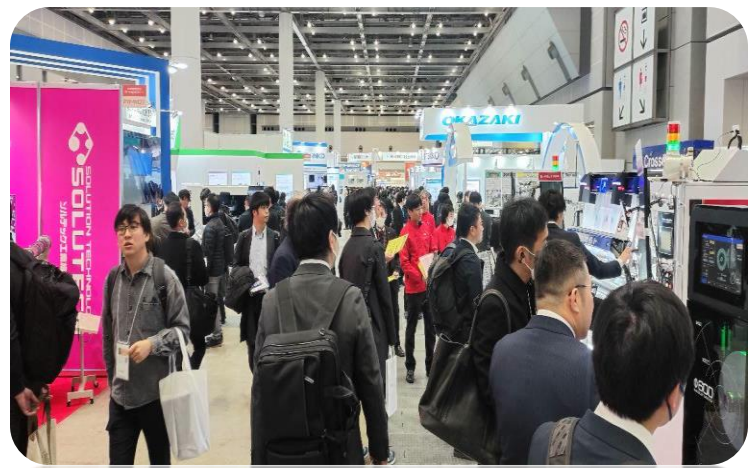


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NANOTECH 2026 EXHIBITION VISIT REPORT

**With attendance at B2B meetings and technical visits to companies
providing nanotechnology equipments and services in Japan**

JANUARY 2026 - TOKYO



SCIENCE-BASED COMPANIES ATTENDING THE NANOTECH EXHIBITION

Pakbronze Pakzad Company 	Kani Plast Shiller Company 	PakShimiSofeh Sepahan Co. 	Alumrod Company 
Ama Industrial Company 	Fara Pooyan Isatis Yazd Co. 	Bistoun Chemical Co. 	Arman Shimisanj Company 
Mohafezan Behbood Ab Co. 	Bonian Danesh Pajouhan Inst. 	Tajhizat System Zamin Co. 	Zarazma Mineral Studies Co. 
Nanotechfam Giti Company 	Pishgaman Fanafarin Fardad Co. 	Sadra Atieh Mahour Co. 	Aria Ofogh Feeyar 
ZarFaravar Khavarmianeh Co. 	Samat Sanat Sepahan Co. 	JahanOrum Ayaz Textile Co. 	Paya Baspar Arya Company 
SalamatSazan Badii Hedayat 	Arca Advanced Materials Co. 	Biotech Fund 	Azar Kavin Co. 
Roshana Ab Avash Co. 	Zarazma Mahan Co. 	Faratec Novin Parseh 	Zangan Ideh-Parvaran Coosha Co. 
Ariya Shimi Sharif Co. 	Paya Baspar Arya Co. 	Azki 	Part Gowal Co. 
			Namago Pars 

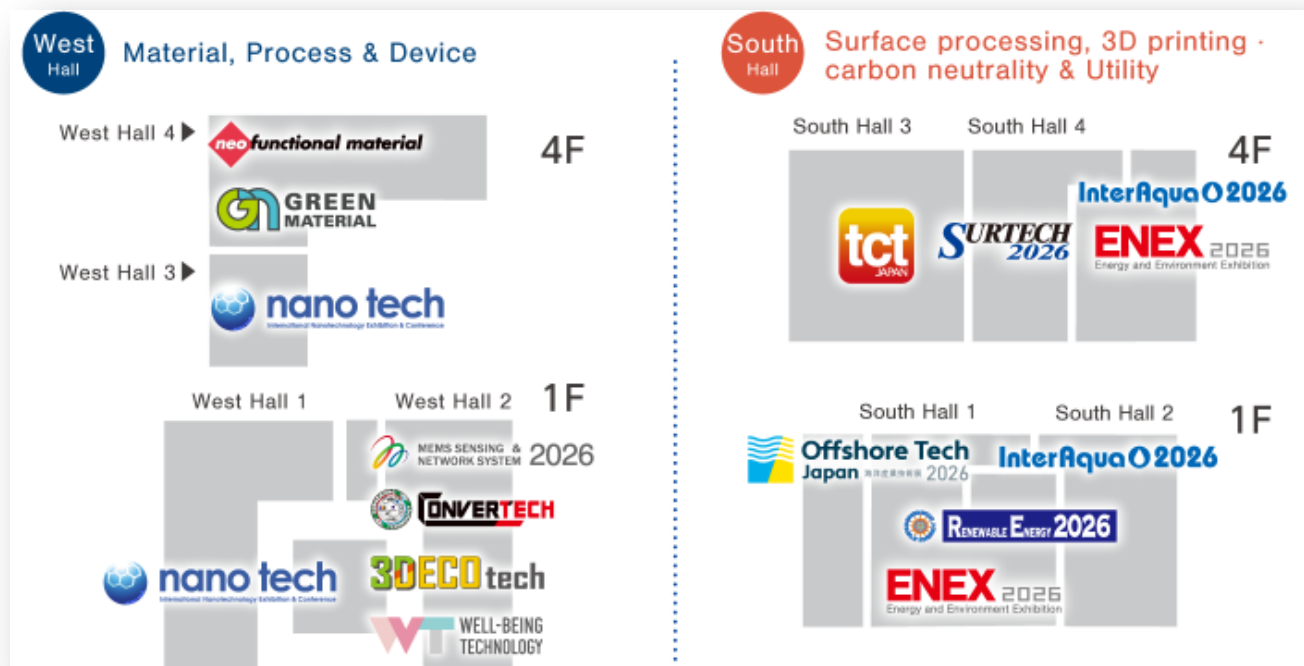
DAILY PROGRAM OF THE EXHIBITION, B2B MEETINGS AND TECHNICAL VISITS TO JAPANESE COMPANIES IN TOKYO

DAY	ACTIVITY DESCRIPTION	DATE
1	17:00 - Arrival at Imam Khomeini Airport 18:00 - Delivery of luggage and receipt of boarding pass 21:15 - Flight to Guangzhou International Airport by Mahan Airlines - Flight No. W5081	Jan, 27th
2	09:00 - Landing at Guangzhou International Airport 15:00 - Flight to Tokyo - China Southern Flight - Flight No. CZ3085 20:00 - Landing at Tokyo Haneda International Airport 21:30 - Move to Shingawa Prince Hotel 22:30 - Check-in	Jan, 28th
3	07:30 - Attend the hotel restaurant for breakfast 09:00 - Move to the Nanotechnology Exhibition (Tokyo Bigsight) 10:00 - Receive an entry card 10:15 - Attend the exhibition and specialized sessions & seminars 15:00 - Move to visit the Tokyo Skytree Town Campus 17:30 - Return to the Shingawa Prince Hotel 18:30 - Residence at the Shingawa Prince Hotel	Jan, 29th
4	07:30 - Attend the hotel restaurant for breakfast 09:00 - Move to the Nanotechnology Exhibition (Tokyo Bigsight) 10:00 - Attend the exhibition and specialized sessions & seminars 13:30 - Move to visit the Kawasaki Robostage 17:00 - Return to the Shingawa Prince Hotel 18:00 - Residence at the Shingawa Prince Hotel	Jan, 30th
5	07:30 - Attend the hotel restaurant for breakfast 10:00 - Check Out from Shingawa Prince Hotel - First group Return 10:30 - Move to Haneda International Airport 12:00 - Arrival at Haneda International Airport, check in and receive boarding passes 15:05 - Flight to Guangzhou, China - China Southern Airlines - Flight No. CZ386 19:20 - Landing in Guangzhou, China 23:30 - Flight to Imam Khomeini International Airport by Mahan Airlines - Flight No. W5080	Jan, 31st
6	07:30 - Attend the hotel restaurant for breakfast - Personal schedule	Feb, 1st
7	07:30 - Attend the hotel restaurant for breakfast - Personal schedule	Feb, 2nd
8	07:30 - Attend the hotel restaurant for breakfast 14:30 - Departure from the hotel to the Iranian Embassy in Tokyo 15:00 - Meeting with the Ambassador of the Islamic Republic of Iran, and discussing the Japanese technology market 16:00 - Q&A session regarding business opportunities and challenges between Iran and Japan 17:00 - Return to the Shingawa Prince Hotel 18:00 - Residence at the Shingawa Prince Hotel	Feb, 3rd
9	07:30 - Attend the hotel restaurant for breakfast 10:00 - Check Out from Shingawa Prince Hotel - Second group Return 10:30 - Move to Haneda International Airport 12:00 - Arrival at Haneda International Airport, check in and receive boarding passes 15:05 - Flight to Guangzhou, China - China Southern Airlines - Flight No. CZ386 19:20 - Landing in Guangzhou, China 23:30 - Flight to Imam Khomeini International Airport by Mahan Airlines - Flight No. W5080	Feb, 4th
10	04:30 - Arrival at Imam Khomeini International Airport, Tehran	Feb, 5th

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Timetable of Main Conferences held on the Japan Nanotech Exhibition Thursday and Friday, January 29th and 30th

Date	Time	Venue	Title	Organization
Jan-29	10:30-12:30	Main Theater (West hall Atrium)	Nano tech Special Symposium Sustainable Growth Strategies: Strategic Utilization of Plastic Recycling	
Jan-29	10:30-12:00	Conference Tower (102)	TIA MEMS Winter Seminar	
Jan-29	10:30-11:20	DX Seminar Stage	Overview of Materials Research and Development and Application of Digital Transformation in Research and Development	Mitsubishi UFJ Research and Consulting Co., Ltd.
Jan-29	11:35-12:05	DX Seminar Stage	Material Informatics Leveraging Experimental Processes Materials Development DX Using Graph-Structured Data and AI	CrowdChem, Inc.
Jan-29	13:00-13:30	DX Seminar Stage	Beyond MI: Why Isn't "Data Alone" Enough? Zeon Corporation and QunaSys Discuss "Democratizing Mathematical Modeling" to Revolutionize R&D	Zeon Corporation & QunaSys Inc.
Jan-29	13:30-15:30	Conference Tower (102)	SSN Study Group Public Symposium	
Jan-29	13:45-14:15	DX Seminar Stage	Introducing GeoDict, a materials development simulation for research and development	SCSK Corporation
Jan-29	14:15-16:15	Main Theater (West hall Atrium)	nano tech Special Symposium Revolutionary Advances in Diabetes Treatment: Therapeutic Drugs and New Trends in Nanotechnology	
Jan-29	14:30-15:15	DX Seminar Stage	Let's innovate R&D by promoting the utilization of experimental/analytical data and the introduction of AI.	QUATRE-i SCIENCE
Jan-29	15:45-16:30	Conference Tower (102)	MEMS Industry Forum	
Jan-30	10:30-12:15	Main Theater (West hall Atrium)	nano tech Special Symposium Next-Generation Semiconductors: Latest Packaging Technologies and Material Trends	



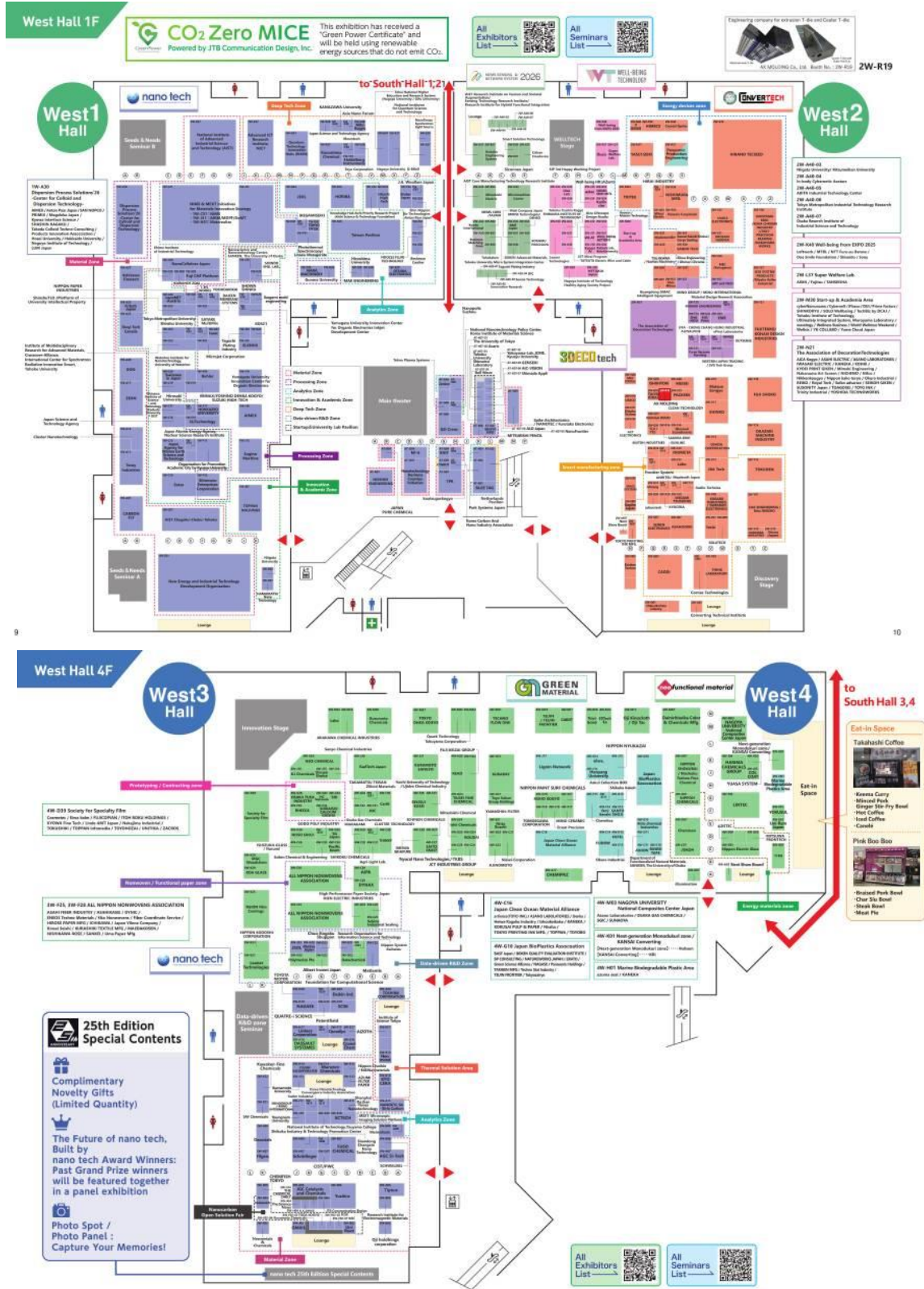
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Timetable of Conferences held on the Concurrent Events of the Japan Nanotech Exhibition Thursday and Friday, January 29th and 30th

Date	Time	Venue	Title	Organization
Jan-29	10:30-11:00	TCT Introducing stage	New Era of Manufacturing: 3D Printing with Recycled Materials	Aspect Inc.
Jan-29	11:15-11:45	TCT Introducing stage	Metal AM x Dental Care Evolution	Sanwa Dental CO., LTD.
Jan-29	10:30-11:30	WELLTECH Stage	Well-being technology through Employment in a Super-Aged Society: Building a virtual space where everyone can enjoy happy working all along	University of Tsukuba, CUAR
Jan-29	11:00-11:15	Discovery Stage	Introduction of SUSONITY and new pearl pigment, Xirallic® NXT T260-10SWLeopard White	SUSONITY Japan G.K.
Jan-29	11:45-12:15	WELLTECH Stage	What is sensory nutrition science? Unravelling the cross-talk between sensory, functionality and preference.	SHIBAURA INSTITUTE OF TECHNOLOGY
Jan-29	13:00-13:50	Innovation Stage	Proposal for Next-Generation Composite Materials Aimed at a Circular Society	NAGOYA UNIVERSITY
Jan-29	12:15-13:00	SURTECH Seminar	High-resolution measurement of Depth Direction Strength Distribution from Material Surface, Useful for Analysis such as Adhesion, Adhesive Interface from Degradation or Surface Modification.	PALMESO CO., LTD.
Jan-29	12:45-13:15	TCT Introducing stage	Breaking the Barriers to Metal AM: Unified Design and Manufacturing with nTop × PanX	TECHNOsolutions Corp., Layered Ltd
Jan-29	14:15-14:45	TCT Introducing stage	Accelerating Additive Manufacturing: Practical Approaches Explained - A One-Stop Service leveraging proven results in equipment implementation, contract manufacturing, and DfAM	FASOTEC Co., Ltd.
Jan-29	15:00-15:30	TCT Introducing stage	CAE Solution for Structural Design Support in Thermal Management; ToffeeX	SCSK Corporation
Jan-30	10:20-14:30	TCT Main stage	TCT Japan Conference Day 3 (Research and Development Case Studies)	
Jan-30	11:15-11:45	TCT Introducing stage	Breaking the Barriers to Metal AM: Unified Design and Manufacturing with nTop × PanX	TECHNOsolutions Corp., Layered Ltd
Jan-30	12:15-13:00	SURTECH Seminar	High-resolution measurement of Depth Direction Strength Distribution from Material Surface, Useful for Analysis such as Adhesion	PALMESO CO., LTD.
Jan-30	12:45-13:15	TCT Introducing stage	Metal AM x Dental Care Evolution	Sanwa Dental CO., LTD.
Jan-30	13:30-14:00	TCT Main stage	Breaking Through the "Barrier" to Mass Adoption of AM: Design Innovations Achieving 37% Cost Reduction and 76% Weight Reduction	Ricoh Company, Ltd.
Jan-30	14:15-14:45	TCT Introducing stage	Accelerating Additive Manufacturing: Practical Approaches Explained	FASOTEC Co., Ltd.
Jan-30	15:00-15:30	TCT Introducing stage	CAE Solution for Structural Design Support in Thermal Management; ToffeeX	SCSK Corporation
Jan-30	12:00-12:30	Discovery Stage	The latest, highly reliable evaluation method for TIM under conditions close to the actual use environment	Matsuo Sangyo Co., Ltd.
Jan-30	13:00-15:00	WELLTECH Stage	ISO 25554:2024 First Mutual Recognition Meeting on Corporate Case Studies	National Institute of Advanced Industrial Science and Technology

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JAPAN NANOTECH 2026 EXHIBITION MAP



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B2B MEETINGS PHOTOS TAKEN AT THE EXHIBITION



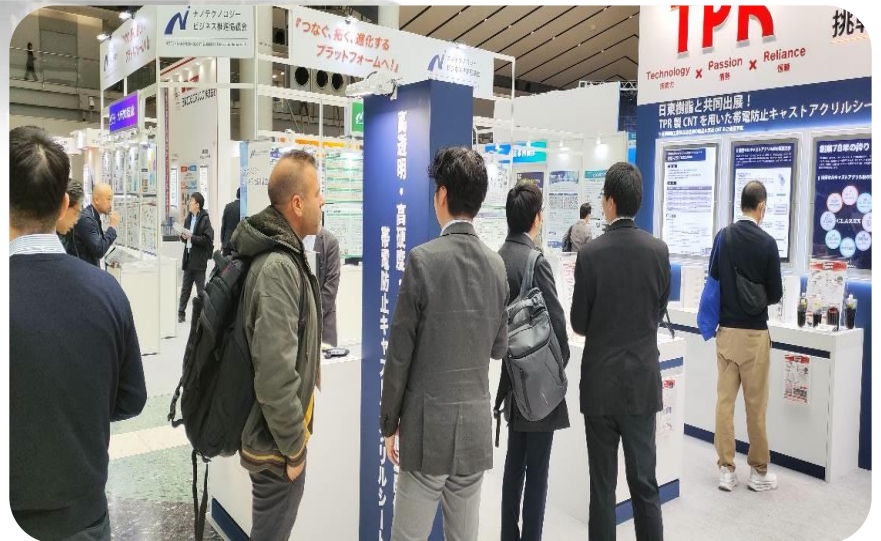
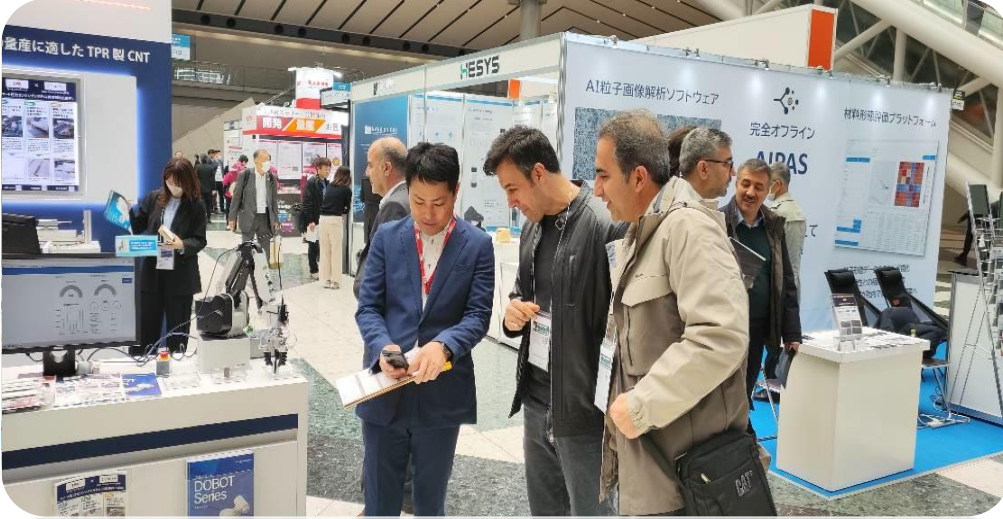
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MEETINGS HELD ON THE SIDELINES OF THE EXHIBITION



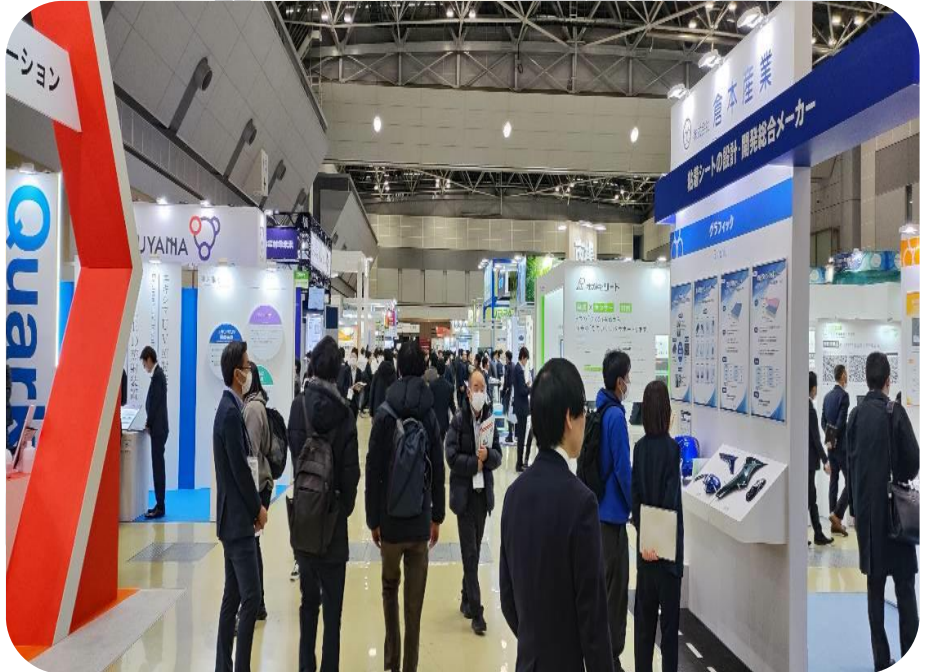
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VISIT TO EXHIBITION BOOTHS



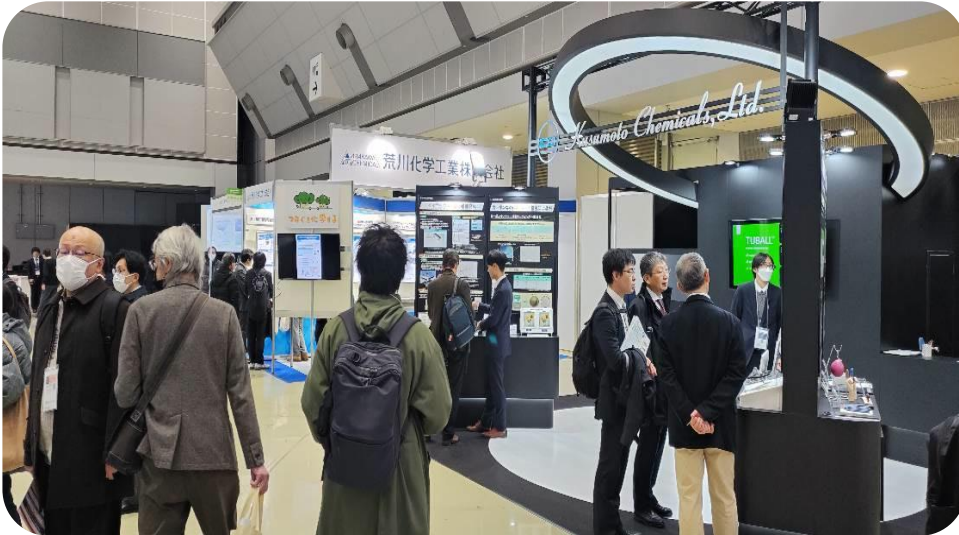
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VISIT TO EXHIBITION BOOTHS



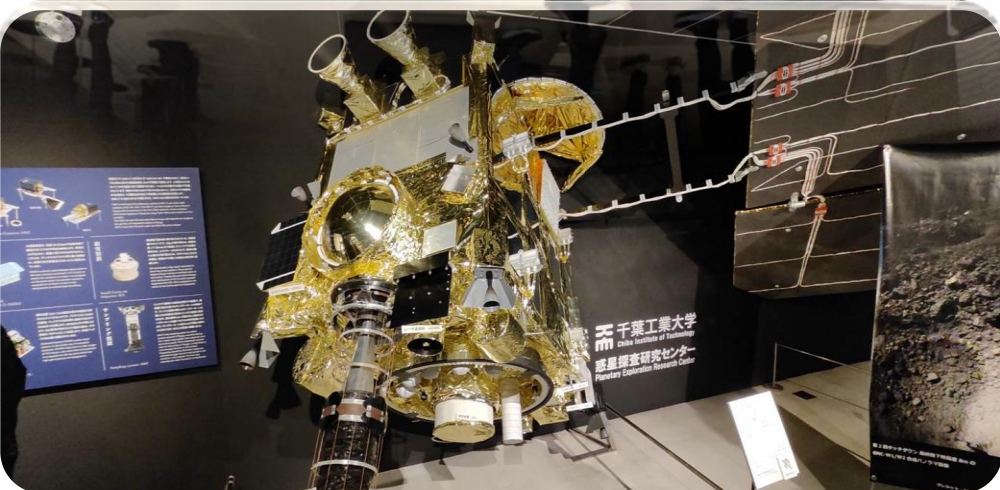
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VISIT TO EXHIBITION BOOTHS



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TECHNICAL VISIT TO INDUSTRIAL JAPANESE COMPANIES

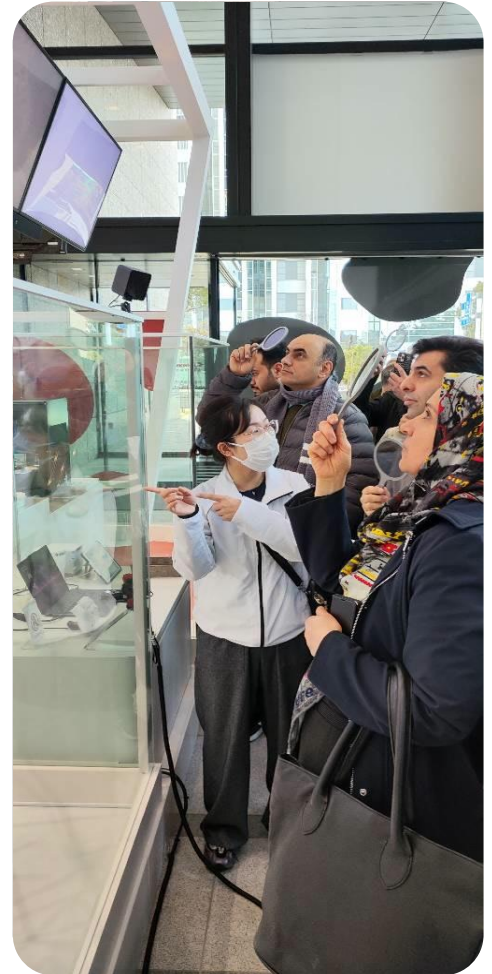


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Center	Chiba Institute of Technology Tokyo Skytree Town Campus	
Location	Tokyo - Japan	
Field of Activity	Tokyo Skytree Town Campus (東京スカイツリータウン®キャンパス) is a public interactive technology and science experience facility operated by Chiba Institute of Technology (千葉工業大学) located within the larger Tokyo Skytree Town complex in Tokyo, Japan. It serves as a bridge between cutting-edge university research and the general public, focusing on experiential education and showcasing advanced technological developments. The Campus is part of the Tokyo Skytree Town environment, which itself is a major urban complex built around the iconic Tokyo Skytree tower, designed for broadcasting, tourism, commerce, and community engagement. It was established by the Chiba Institute of Technology (CIT) as a public-facing “experience zone” where visitors can interact with and learn about state-of-the-art technologies developed through the university’s research activities. Field of Activity: 1. Public Science & Technology Education The Campus functions as an educational space where people — including students, families, and tourists — can experience future technologies firsthand. It actively promotes scientific curiosity and learning outside of formal academic settings. 2. Exhibition of Research Outcomes It showcases research results from CIT, particularly in areas such as: Advanced Robotics — including prototypes of disaster-response robots and remote operation systems. 3D Imaging & Projection systems demonstrating innovative sensing technology. Space and Planetary Exploration — such as simulators that allow visitors to “experience” exploring Mars using real photographic data. These exhibits bring sophisticated research concepts into accessible, hands-on forms. 3. Interactive Experiences & Simulations Many exhibits are interactive, blending play with learning. For example: A Mars probe simulator lets visitors engage with surface exploration scenarios using real data. Robot and sensing technology displays allow hands-on interaction. This experiential approach helps demystify complex technologies for a broad audience.	
Website	https://chibatech.jp/english/about/institute/campus/skytree.html	

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Center	Kawasaki Robostage	Kawasaki Robostage
Location	Tokyo - Japan	
Field of Activity	Kawasaki Robostage is a <i>robot-focused public experience and learning facility</i> in Odaiba, Tokyo, Japan, operated by Kawasaki Heavy Industries (KHI) as part of its robotics and automation outreach. Its primary role is to <i>showcase, educate, and engage</i> visitors with advanced robotics technology developed by Kawasaki, with a special emphasis on the <i>future coexistence and collaboration between humans and robots</i>. Core Field of Activity 1. Public Robotics Showcase & Exhibition Kawasaki Robostage functions as a showroom and exhibition space where visitors can see, touch, and experience Kawasaki's robotics technologies in action. It displays various industrial robots and collaborative robots produced by Kawasaki Heavy Industries, demonstrating <i>how robots work and what they can do</i>. The exhibitions are organized around the central theme of <i>"human-robot coexistence and collaboration."</i> Key exhibits typically include: • Industrial robots used in manufacturing and automation • Collaborative robots (cobots) designed to work safely alongside people • Demonstrations showing robots performing tasks that reveal their precision, speed, and capabilities 2. Robotics Education & Learning Center The facility is <i>designed to educate the public</i>, including students and families, about robotics fundamentals and real-world applications. It provides information on: • What robots are and how they work • Types of robots and their roles in industry and society • Potential future of human-robot interaction This educational focus helps demystify robotics and encourages visitors to think about the role of robots in everyday life and in solving future societal challenges. 3. Interactive Programs & Events Beyond passive viewing, Kawasaki Robostage offers interactive learning programs, especially for young learners. Examples include: • Workshops and experiences tailored to school-age children that introduce them to robot operation and programming concepts • Special group tours and presentations aimed at explaining robotics technology in depth These activities are designed to <i>inspire interest in science, technology, engineering, and mathematics (STEM)</i> fields and to build familiarity with robotics from a young age.	
Website	https://kawasakirobotics.com/jp-sp/robostage/en/	

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VISIT TO THE IRANIAN EMBASSY IN TOKYO AND A MEETING WITH THE AMBASSADOR OF THE ISLAMIC REPUBLIC OF IRAN



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EXECUTIVE SUMMARY

The **Nano Tech 2026** exhibition in Tokyo promises to be one of the most significant global events in the field of nanotechnology, showcasing cutting-edge research, technological innovations, and real-world applications of nanoscience. Scheduled to take place at the iconic Tokyo Big Sight in February 2026, this exhibition will feature advancements that span a wide array of industries, including electronics, healthcare, energy, materials science, and manufacturing. As the world continues to embrace the potential of nanotechnology, Nano Tech 2026 will serve as a critical platform for the exchange of ideas, partnerships, and solutions that are shaping the future of technology.

This report provides a comprehensive overview of the Nano Tech 2026 exhibition, detailing its objectives, themes, technological highlights, participants, venue details, and the anticipated impact on various industries.

	
Name	nano tech 2026 The 25th International Nanotechnology Exhibition & Conference
Theme	Bridge to Future Business: Innovating Nanotechnology
Date	Wed. 28 Jan. - Fri. 30 Jan. 2026 10:00~17:00
Address	3-11-1 Ariake, Koto-ku, Tokyo 135-0063, Japan
Website	https://www.nanotechexpo.jp/en/
Venue	West Hall 1,3 & Conference Tower, Tokyo Big Sight

1. INTRODUCTION

Nanotechnology, the science of manipulating matter at the atomic and molecular levels, has seen exponential growth over the last two decades. The Nano Tech exhibition series, organized annually in Japan, has become a global hub for innovation in nanotechnology. Nano Tech 2026, which will be held at Tokyo Big Sight, continues this tradition by bringing together a diverse community of scientists, engineers, entrepreneurs, and businesses from around the world to explore the revolutionary potential of nanotech.

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The exhibition will provide an opportunity to experience live demonstrations, attend cutting-edge conferences, and network with industry leaders in the world of nanotechnology. The event will focus on several key technological trends and challenges, aiming to address global concerns such as sustainability, healthcare, energy efficiency, and data security through nanotechnology.

2. EXHIBITION OVERVIEW

- **Event Name:** Nano Tech 2026
- **Location:** Tokyo Big Sight, Tokyo, Japan
- **Dates:** January 2026 (28th – 30th)
- **Organizers:** Japan Nano Tech Association (JNA), co-hosted by the Ministry of Economy, Trade and Industry (METI) of Japan
- **Expected Attendance:** 100,000+
- **Exhibitor Participation:** Over 500 companies, research institutions, and startups
- **Target Audience:** Researchers, industry professionals, investors, government representatives, and students from the global nanotechnology community.

3. KEY THEMES AND FOCUS AREAS

The Nano Tech 2026 exhibition will cover a broad spectrum of nanotechnology applications. These are some of the key focus areas expected to dominate the event:

3.1 Nanomaterials and Nanofabrication

- Nanomaterials are the backbone of nanotechnology, with properties that differ dramatically from bulk materials. The exhibition will highlight the latest advancements in materials like graphene, carbon nanotubes, quantum dots, and nano-coatings. These materials are expected to revolutionize industries such as electronics, automotive, construction, and aerospace by providing lighter, stronger, and more durable products.
- Nanofabrication will be another critical theme, focusing on methods for manufacturing structures at the nanoscale. The goal is to create smaller, more efficient devices that can achieve performance levels previously unthinkable, such as ultra-efficient solar panels and high-capacity data storage devices.

3.2 Nanomedicine

Nanotechnology in healthcare, or nanomedicine, is rapidly evolving, with significant strides being made in areas like drug delivery, nano-diagnostics, and personalized medicine.

- Targeted drug delivery systems, which use nanoparticles to deliver drugs directly to affected cells (e.g., in cancer treatments), are a key highlight. These techniques can minimize side effects and increase treatment effectiveness.

- The exhibition will also showcase nano-enabled diagnostic devices, such as portable sensors capable of detecting diseases at an early stage through blood or saliva samples, enhancing the future of preventative healthcare.

3.3 Energy and Environmental Solutions

Nanotechnology is poised to play a major role in addressing the global energy crisis and environmental challenges.

- Nano-based energy solutions will focus on improving the efficiency and sustainability of renewable energy sources. For example, nanomaterials in solar cells can increase their efficiency by harnessing more of the sun's energy.
- Additionally, nano-enhanced batteries and supercapacitors are designed to store more energy with faster charging times, addressing the global demand for better energy storage solutions.
- On the environmental front, nanotech can be used to clean up pollutants, remove toxins from water, and filter air more effectively than traditional methods, promising sustainable solutions for a cleaner planet.

3.4 Nanoelectronics

Nanotechnology is a driving force behind the miniaturization of electronic components, enabling the development of more powerful and efficient devices.

- Quantum dots, nanochips, and memristors are expected to lead the way in creating faster, more energy-efficient processors and memory chips, advancing everything from personal computers to artificial intelligence.
- Nanoelectronics will also enhance sensor technologies, leading to better connectivity for the Internet of Things (IoT) and improved security in digital systems.

3.5 ETHICAL, LEGAL, and SOCIAL IMPLICATIONS

With the rapid advancement of nanotechnology comes the need for thoughtful consideration of its ethical, legal, and social implications (ELSI). At Nano Tech 2026, experts will discuss the responsible development of nanotechnologies, addressing issues such as:

- Potential health risks associated with exposure to nanoparticles.
- The environmental impact of nanomaterials in production and disposal.
- Regulatory and safety standards for nanotechnology products.
- Ethical concerns surrounding nanomedicine, such as privacy and consent in the use of nano-enabled healthcare devices.

4. KEY PARTICIPANTS AND EXHIBITORS

4.1 Research Institutions and Universities

Leading global research institutions will play a crucial role in the exhibition, providing insights into the latest academic advancements in nanotechnology. Notable participants will include:

- University of Tokyo
- Kyoto University
- MIT (Massachusetts Institute of Technology)
- Stanford University
- Max Planck Institute for Intelligent Systems

These universities will showcase cutting-edge research projects on nanomaterials, nanoelectronics, and nanomedicine.

4.2 Corporate Exhibitors

Prominent technology companies from around the world will exhibit their products and innovations:

- Sony, Toshiba, and Hitachi will highlight their advancements in nanoelectronics and nanomaterials for consumer devices.
- Johnson & Johnson and Pfizer will demonstrate nanomedicine solutions aimed at improving healthcare outcomes.
- Tesla and Panasonic are expected to exhibit their latest nanotech innovations in energy storage and battery technologies.

4.3 Startups and Emerging Companies

A special Startup Pavilion will be dedicated to showcasing innovative startups pushing the boundaries of nanotechnology. These startups will present new business models and disruptive technologies, with a focus on commercialization, scalability, and market impact.

4.4 Government and Regulatory Bodies

Governments and international bodies will also participate, discussing the regulation, standards, and policy frameworks for safe and sustainable nanotechnology development. Japan's Ministry of Economy, Trade, and Industry (METI), the European Commission, and organizations like the World Health Organization (WHO) may be involved in discussions about global standards for nanotech.

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5. CONFERENCE AND SEMINARS

In addition to the exhibition, Nano Tech 2026 will feature scientific seminars and technical workshops that will delve deep into specific aspects of nanotechnology. These events are a vital part of the exhibition, providing attendees with access to expert knowledge and cutting-edge research.

- Keynote speakers from industry leaders, universities, and government bodies will discuss global trends and emerging opportunities in nanotech.
- Specialized workshops on nanomedicine, energy solutions, and the ethical dimensions of nanotechnology will provide practical insights and hands-on experiences for attendees.

6. VENUE: TOKYO BIG SIGHT

The exhibition will take place at Tokyo Big Sight, one of Japan's premier convention and exhibition centers, located in the Odaiba district. Tokyo Big Sight is known for its futuristic architecture and world-class facilities, which include large exhibition halls, state-of-the-art conference rooms, and expansive outdoor spaces.

- Address: 3-11-1 Ariake, Koto-ku, Tokyo, Japan
- Accessibility: The venue is easily accessible by train, with convenient access from Tokyo Station and Narita International Airport. The center also offers various amenities for international visitors, including translation services and international food courts.

7. CONCLUSION AND FUTURE OUTLOOK

Nano Tech 2026 will be a pivotal event in the world of nanotechnology, offering an unparalleled opportunity to engage with the latest advancements and discover the next big breakthroughs. As industries from electronics to healthcare to energy continue to be transformed by nanotechnology, this exhibition will provide invaluable insights into the potential and challenges of nanoscale innovations.

As we look ahead to the future, Nano Tech 2026 will not only showcase current technological achievements but also lay the foundation for the next wave of disruptive technologies. It will highlight the crucial role of nanotechnology in addressing some of the world's most pressing issues, including sustainability, healthcare, and technological advancement. Through continued collaboration, research, and innovation, nanotechnology will continue to play an integral role in shaping the future of our world.

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CONCURRENT EXHIBITIONS:

Nanotech Exhibition 2026 was held alongside several related trade events such as:

- SURTECH 2026
- CONVERTECH 2026
- ENEX 2026
- MEMS Sensing & Network System Expo
- New Functional Materials Expo
- TCT Japan and others

This simultaneous staging increased the diversity of technologies and visitors, making it especially valuable for cross-sector collaboration.

Concurrent Events



A brief explanation of main concurrent events will be given below.

OVERVIEW OF SURTECH 2026

SURTECH 2026 (表面技術要素展) was a major *international trade exhibition* focused on **surface technology and surface treatment solutions**. The event brought together industry professionals, manufacturers, researchers, and technology providers specializing in surface modification, coatings, plating, and related advanced processes.

Purpose and Theme

The central theme was “表面技術でサステナブルな世界を支える” — essentially highlighting how *surface technology contributes to a sustainable world*.

The exhibition emphasized:

- Environmentally friendly surface technologies, including processes that enhance durability, recyclability, and performance while reducing environmental impact.
- Surface modification and functionalization suited for evolving applications like electronics, automotive, energy, and medical devices.
- The practical role of surface technology in *product lifecycle improvement, energy efficiency, and material performance enhancement*.

Who Attended and Why It Matters

Participants included:

- Surface treatment and coatings companies
- Equipment manufacturers and suppliers
- Research institutions and universities
- Industry experts and technical specialists
- Engineers and R&D professionals

Visitors came from a broad range of sectors such as:

- Semiconductors and electronics
- Automotive and mobility systems
- Energy and sustainability technologies
- Industrial machinery
- Medical and consumer products

The exhibition served both as a *technology showcase* and a *business networking hub*, allowing attendees to discover innovations, compare solutions, and build partnerships.

Exhibition Highlights

Cutting-Edge Surface Technologies

Wide variety of surface-related technologies were on display, including but not limited to:

- Plating and coating systems
- Surface modification and finishing processes
- Dry processes and advanced surface reform technologies
- Environmental and safety-oriented surface solutions

Special Feature Zones

Organizers created special exhibition zones to focus attention on key areas:

- Environmental Technology Zone
- Surface Modification & Dry Process Zone
- Electronics / Semiconductor Pavilion

These areas highlighted specific technological trends and innovation pathways.

Seminars, Workshops & Presentations

The exhibition included:

- Organizer-led seminars — featuring expert insights on industry trends, sustainability, and emerging surface technologies.
- Exhibitor presentations — companies showcased their latest solutions and use cases.
- Tribology Seminar — focusing on friction, wear, and lubrication science, which is critical for many surface applications.

Organizers and Support

The event was organized by:

- The Surface Finishing Society of Japan
- The Japan Suppliers Association of Plating Materials
- JTB Communication Design, Inc.

and supported by related industry associations.

Why SURTECH 2026 Was Important

SURTECH 2026 served as:

- A global platform for showcasing innovations in surface science and engineering.
- A bridge between research and industrial application, highlighting technologies that solve real-world challenges.
- A forum for multi-industry engagement, bringing insights from sectors as varied as semiconductors and sustainable manufacturing.
- A contribution to promoting sustainable production technologies in line with global environmental goals.

What Is CONVERTECH 2026?

CONVERTECH 2026 was a professional trade exhibition focused on converting technology and related manufacturing processes. In industrial and production contexts, *converting* refers to processes that transform base materials — especially films, sheets, textiles and web-based substrates — into finished or intermediate products through operations like coating, laminating, printing, slitting, cutting, bonding and surface finishing.

The show brought together manufacturers, equipment suppliers, technology developers, and business professionals involved in manufacturing and converting processes across industries like electronics, energy, packaging, automotive and materials.

Target Audience: Trade professionals, engineers, researchers, product developers, procurement specialists, and business leaders involved in manufacturing, materials processing, quality control and production technologies

Core Focus & Technology Areas

CONVERTECH 2026 highlighted technologies and solutions that support *converting and material transformation processes*. The exhibition scope included:

Mechanical & Processing Technologies

- Coating and laminating machines
- Slitting and rewinding lines
- Printing technologies (e.g., gravure, flexo, screen and pad printing)
- Drying and curing equipment
- Web-handling systems and rollers/chucks
- Inspection, measurement and control systems

Supporting Technologies and Materials

- Film and sheet manufacturing machinery
- Dispersion, mixing and defoaming devices
- Test and inspection instruments
- Peripheral devices and accessories
- Automation and control solutions

These technologies are essential in industries where continuous materials (like thin films and rolls) must be precisely **transformed, printed, treated or integrated** into components used in electronics, energy storage (e.g., batteries), packaging, displays and sensors.

Why It Matters

Industry-Specific Solutions

The event was designed to **help businesses find solutions to manufacturing challenges**, such as:

- Improving production accuracy and repeatability
- Enhancing quality control and inspection
- Reducing downtime through automation
- Integrating new materials and advanced conversion processes

Networking & Collaboration

CONVERTECH served as a **business-to-business platform** where suppliers and buyers across the manufacturing value chain could:

- Demonstrate equipment and process innovations
- Discuss technical requirements and customization
- Explore partnerships, licensing and cross-industry applications

Exhibitor Highlights & Technology Demonstrations

The exhibition drew companies from a wide range of manufacturing and processing sectors. Examples from exhibitors included:

- **AI-assisted inspection and defect detection systems** for roll-to-roll processes (e.g., quality control solutions showcased by technology firms).
- **Automated packaging and transport equipment** for roll products, demonstrating efficiency improvements in material handling.
- **Web-handling and floating conveyor technologies** for delicate films and sheets, useful in electronics and flexible material processing.

- **Advanced printing and coating machinery** from equipment makers aiming to support designers and converters working with high-precision surface decoration.

Trends & Takeaways

CONVERTECH 2026 reflected several trends shaping manufacturing and materials processing in 2026:

- **Integration of automation and AI in inspection and quality control**
- Continued emphasis on **high-precision converting processes** for advanced electronics
- Growing demand for **sustainable and energy-efficient manufacturing technologies**
- Cross-sector applications of converting technologies, from displays and sensors to mobility and energy infrastructure

Event Impact

Overall, CONVERTECH 2026 provided a platform for manufacturers and technical experts to:

- exchange insights on *current and future converting technologies*
- discover solutions tailored to high-value production challenges
- build collaborations supporting innovation and efficiency in industrial manufacturing

OVERVIEW OF ENEX 2026

The **ENEX 2026** (Energy Next Expo 2026) is a major event that focuses on the latest advancements in energy technologies and sustainability solutions. This expo is an important gathering for professionals, businesses, and government officials to discuss and showcase innovations related to the energy industry. While I don't have specific data on ENEX 2026 (since my knowledge was last updated in 2023 and ENEX 2026 hasn't yet occurred at the time of my training), I can give you an overview of what such an event typically includes and what can be expected based on past ENEX exhibitions and trends in the energy industry.

Background of ENEX Expo:

ENEX is an annual trade fair organized in Tokyo, Japan, that primarily focuses on renewable energy, energy conservation, and other related technologies. The event brings together stakeholders from various sectors of the energy industry, including:

- **Renewable Energy Providers:** Solar, wind, hydro, geothermal, and biomass energy companies.
- **Energy Storage Solutions:** Battery manufacturers, grid storage companies, and other technologies related to energy storage.
- **Energy Efficiency Products and Services:** Innovations in appliances, buildings, and systems designed to optimize energy use.

- **Smart Grid and Power Networks:** Companies working on enhancing grid infrastructure with IoT, AI, and machine learning to optimize energy distribution.
- **Electric Vehicles (EV):** Technologies related to EVs, charging stations, and energy management for electric vehicles.
- **Government and Regulatory Bodies:** Agencies and organizations discussing policies, regulations, and incentives related to the energy transition.

Key Themes and Focus Areas for ENEX 2026:

While specific details of ENEX 2026 are unavailable at the moment, based on global energy trends and the trajectory of Japan's energy policies, we can expect several key themes to dominate the exhibition.

1. Japan's Green Energy Transition and Decarbonization Goals:

Japan has committed to reducing its greenhouse gas emissions to net-zero by 2050, and it has set an ambitious target of 50-60% renewable energy in its power mix by 2030. ENEX 2026 will likely feature a significant focus on:

- **Offshore and Onshore Wind Energy:** Japan is expanding its wind energy sector, particularly offshore wind farms, which are seen as a key part of its renewable future.
- **Solar Power:** Continued growth in both utility-scale and residential solar PV.
- **Hydrogen Economy:** Japan is one of the world's leaders in hydrogen energy research, and the expo may highlight hydrogen production, storage, and distribution technologies.
- **Energy Management Systems (EMS):** Technologies that help optimize the use of renewables and improve energy efficiency at the grid and consumer level.

2. Carbon Capture and Storage (CCS):

With the push for decarbonization, technologies focused on capturing CO₂ from industrial processes and the atmosphere will be key areas of interest. ENEX 2026 may feature advancements in:

- Direct Air Capture (DAC).
- CCS for heavy industries like cement, steel, and chemicals.
- Storage and transport solutions for captured CO₂.

3. Advanced Energy Storage Technologies:

As renewable energy generation depends on weather conditions (like sunshine and wind), energy storage systems are critical to ensure grid stability. Exhibitors at ENEX 2026 will likely showcase:

- **Battery Storage Systems:** Innovations in lithium-ion and next-generation batteries.
- **Hydrogen Storage:** Storage of energy in the form of hydrogen and its potential use in long-duration storage.

- Grid Storage Solutions: Technologies like pumped hydro storage, compressed air energy storage (CAES), and others that can support grid stability.

4. Smart Grids and AI-powered Energy Management:

With the increasing complexity of energy grids, smart grid technologies are becoming essential. ENEX 2026 could see:

- AI-based Grid Optimization: Machine learning and AI algorithms for demand response, grid balancing, and fault detection.
- Smart Meters and IoT: Technologies enabling real-time monitoring and data analytics for energy consumption.
- Blockchain for Energy: Blockchain solutions to enable peer-to-peer energy trading and secure transactions in decentralized grids.

5. Energy-efficient Buildings and Cities:

Japan has been focusing on "smart cities" and low-energy buildings, and this will likely be a significant topic at ENEX 2026. Exhibitors will likely showcase:

- Building-integrated photovoltaics (BIPV).
- Zero-energy buildings (ZEBs): Buildings that produce as much energy as they consume.
- Smart home technologies: Solutions for reducing energy consumption in residential settings.
- District Energy Systems: Multi-building systems that integrate heating, cooling, and electricity into one unified grid.

6. Electric Vehicles (EVs) and Mobility:

The transition to electric vehicles is a critical part of reducing CO2 emissions. Japan is a leader in automotive innovation, and ENEX 2026 is expected to highlight:

- EV Charging Infrastructure: Technologies to scale up EV charging, including ultra-fast charging and wireless charging solutions.
- Vehicle-to-Grid (V2G): EVs that can supply energy back to the grid.
- Battery Recycling: Solutions for reusing and recycling EV batteries.

7. Global Collaboration and Policy Discussion:

As energy challenges are global, ENEX 2026 will likely include panel discussions, keynote addresses, and networking events aimed at fostering international collaboration, sharing best practices, and discussing policy frameworks for accelerating the energy transition. Japanese government representatives may present updates on their clean energy initiatives and how they align with global climate goals.

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Networking and Innovation:

Like most trade expos, ENEX 2026 will offer an excellent platform for networking, collaborations, and business development. Participants can expect to meet industry leaders, investors, researchers, and government officials. It will also be a venue for startup companies and emerging technologies to showcase their innovations to potential partners and customers.

ENEX 2026 served as a key event for anyone involved in the energy transition in Japan and the Asia-Pacific region. With Japan's ambitious decarbonization targets and the growing importance of sustainable energy solutions globally, ENEX 2026 provided a comprehensive platform to explore the cutting-edge technologies and strategies that will shape the future of energy.