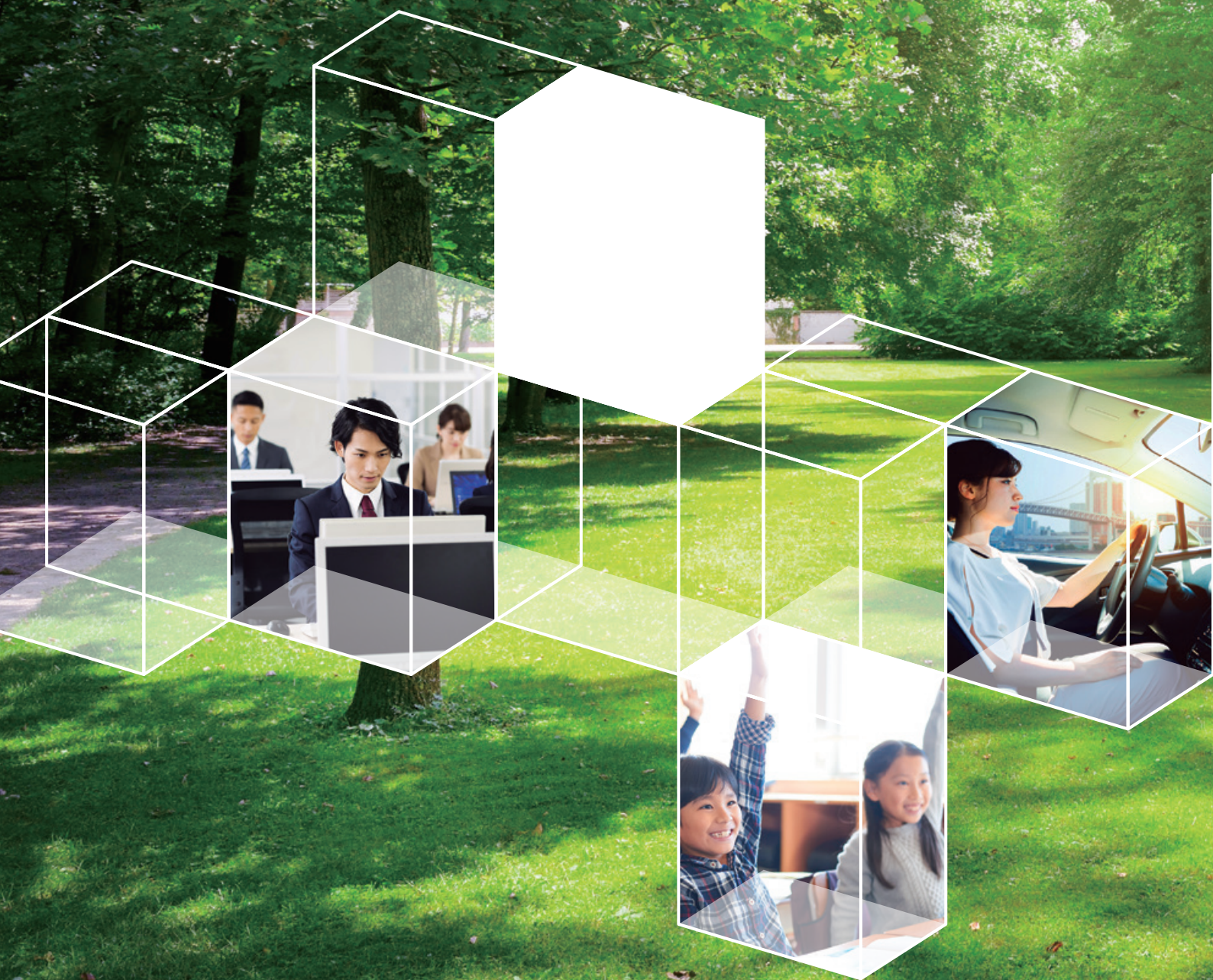






# We are part of your everyday lives.

Connecting to the future through electricity and information.  
NITTO KOGYO is a value-creating company that cultivates  
new value in social infrastructure.









# Connecting to the future through innovation. Supporting social infrastructure through manufacturing.



Since the founding of NITTO KOGYO, we have continually supported social infrastructure with connection technology as the demand for electricity to support daily life and industry has increased and information networks have expanded.

In recent years, technology has been advancing at a rapid pace, with the spread of IoT, AI technology, 5G communication standards as well as advancements in autonomous driving technology and an increase in EV cars. As these technological innovations accelerate, issues that society as a whole must confront, such as cybersecurity, disaster response, and environmental conservation, have increasingly become apparent. At NITTO KOGYO, we strive to anticipate what our customers will need to solve their problems, and work to rapidly develop and create products that provide new value, with "electricity and information infrastructure" as our foundation. In addition, we carry out sustainable development and production on the global stage, striving to minimize the impact on the environment with new company infrastructure.

For people and for society. One's expectations should be high in regard to NITTO KOGYO. After all our goal is to become a value-creating company that connects to the future through electricity and information. We hope to have your support as always.

Chairman & CEO  
Tokio Kato



President & COO  
Toru Kurono







New developments in technology and digitalization for a society with next-generation electric power networks



**Safely connecting electricity**

Intelligent ICT for a new society



**Connecting information**

Global warming countermeasures by promoting the use of clean energy



**Connecting the global environment to the future**



# Supporting electricity and information communication infrastructure in every societal setting

## Distribution Boards



**High-voltage Power Receiving Equipment**

For storing devices that convert power from high voltages to low voltages.



**Standard Panel Boards**

For supplying electricity to lighting and outlets in buildings and factories.



**Control Panel Boards**

For operating machines in factories and water supply pumps in condominiums.



**EV/PHEV General Charging Stands**

For charging electric vehicles and plug-in hybrid vehicles.



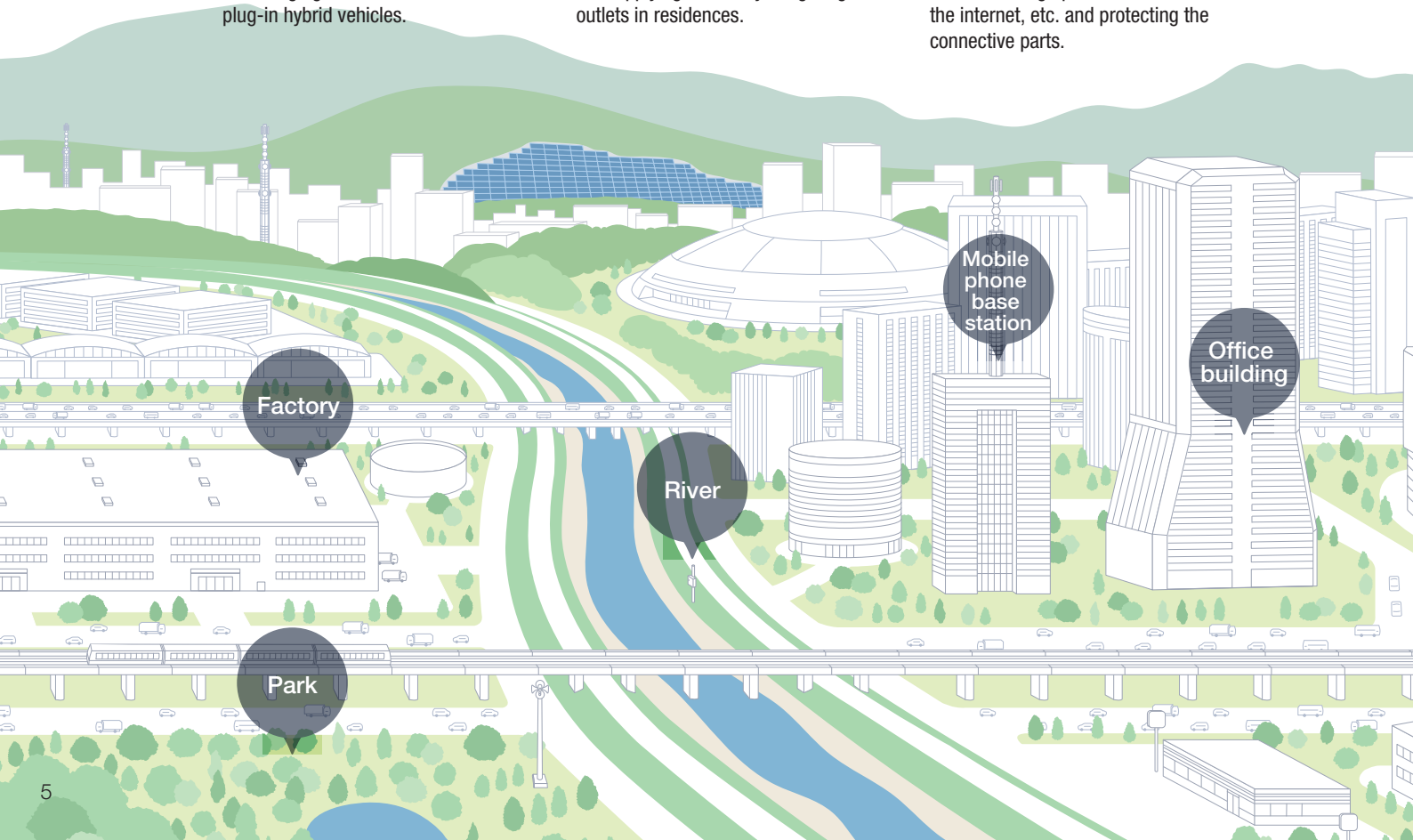
**Home Panel Boards**

For supplying electricity to lighting and outlets in residences.

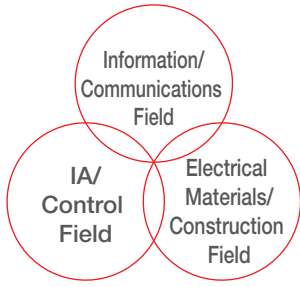


**Optical Junction Boxes**

For connecting optical fibers used for the internet, etc. and protecting the connective parts.







**Business Fields of NITTO KOGYO**

For example, household "panel boards." They are products that can easily go unnoticed, but they are essential devices that allow you to use electricity safely. "System racks" for storing telecommunications equipment. These are products that are required to construct highly reliable information communication infrastructure in data centers, server rooms, and offices. Even if you do not notice them, you encounter them every day, and they connect you with the rest of society. We at NITTO KOGYO support electricity and information communication infrastructure in various settings from homes to commercial facilities, factories, and schools by manufacturing these kinds of familiar, valuable products.

**Enclosures**



**Enclosures**

For storing electric and electronic devices and protecting the internal devices from the external environment.



**Plastic Enclosures**

For protecting internal devices from the external environment with a plastic material.



**System Racks**

For storing communications equipment used in data centers and server rooms.

**Breakers/Switchgears**



**Breakers, Switchgears, Terminal Blocks**

For protecting electrical circuits and connecting, branching, and relaying wires.

**Parts/Other**



**Thermal Management Products**

Used for high-temperature and low-temperature countermeasures for enclosures and internal devices.



**Distribution Board Parts**

Parts for installation to distribution/panel boards and enclosures.

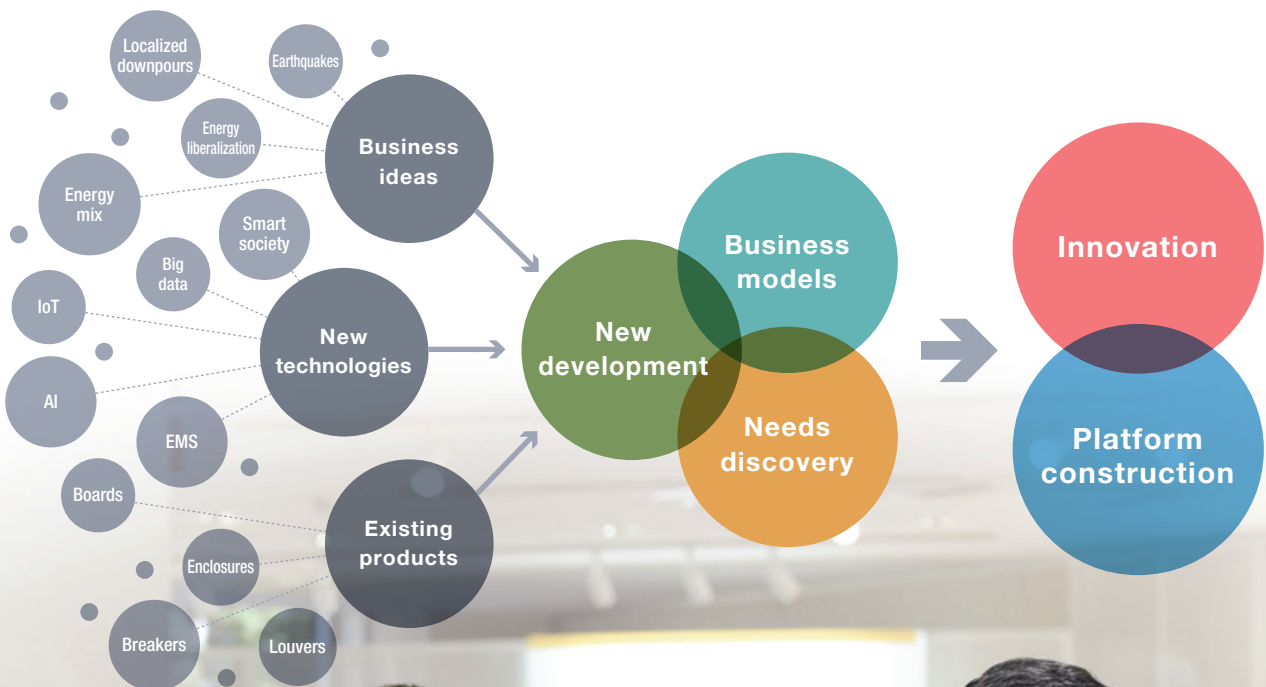




# New development that stems from innovation

## Development from a new approach that brightens up tomorrow and makes every day a little more exciting

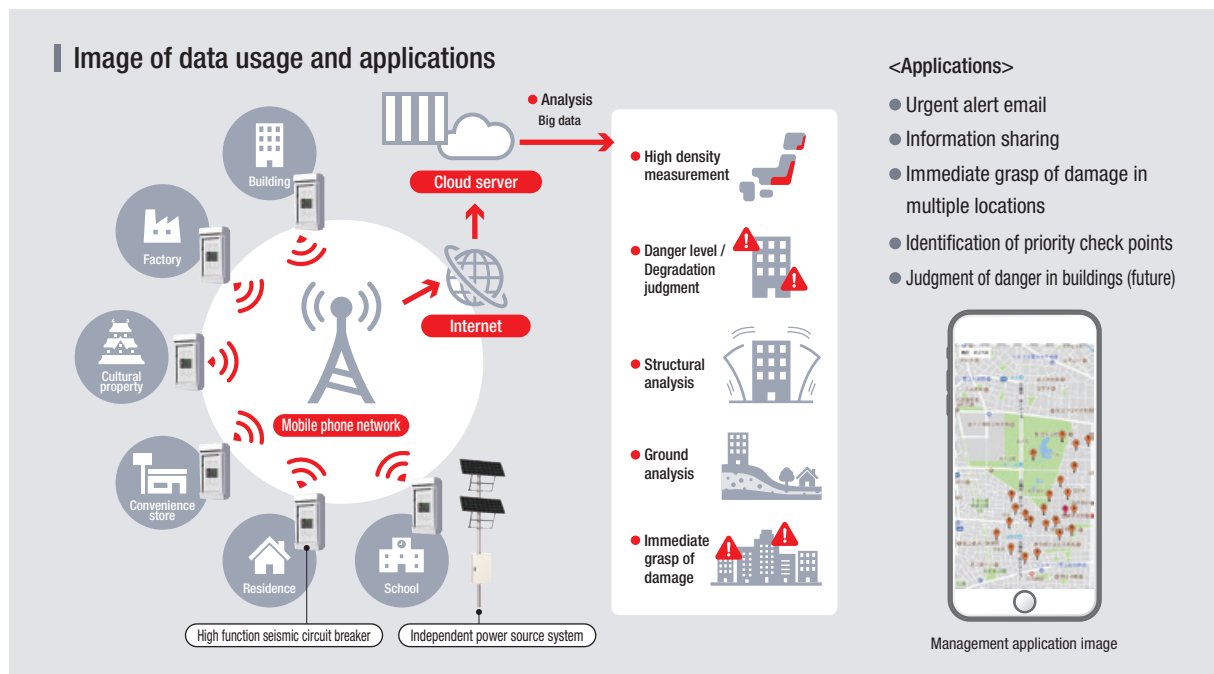
Robots that you may have seen in cartoons as a child and machines that contribute to a more convenient life continue to be achieved in real life. Realize the future we've dreamed. We continue to tackle new innovations in electricity and information. Our wish is to provide electricity that enriches our lives and brightens our tomorrow. With that vision, we continuously strive for improved manufacturing.





## Disaster prevention system that supports local safety and security

When there is a major earthquake, even if buildings do not collapse, secondary damage caused by fires and the like can be severe. 60% of the past fires after earthquakes were caused by electricity. Therefore, we have added earthquake IoT sensors to "seismic circuit breakers," making them effective at preventing electrical fires in large earthquakes. Using earthquake-detecting sensors, the breakers are automatically shut off when an earthquake occurs to protect buildings and people from electric fires. After the earthquake, the condition of the local buildings, such as whether buildings have collapsed or not, can be checked remotely. This can be useful in determining the level of danger in buildings and identifying priority check points. Installing this disaster prevention system in factories, convenience stores, houses, and schools helps conduct high density observations, enhancing the disaster prevention capabilities of the area.



## Enhancing charging infrastructure for a decarbonization society

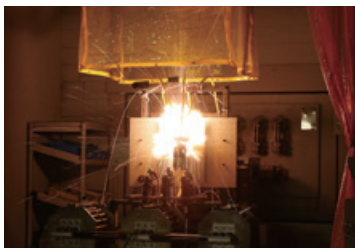
With the growing interest in environmental issues, next-generation automobiles such as electric vehicles (EV) and plug-in hybrid vehicles (PHEV) are becoming widespread. Charging facilities are important in order to encourage their popularization. We at NITTO KOGYO have worked to develop our "EV/PHEV General Charging Stands" since 2009. We will constantly strive to develop chargers and charging services that meet the needs of our customers and contribute to the spread of charging infrastructure in order to achieve a decarbonization society.





# Pursuit of customer satisfaction through abundant test data and evaluation technology

## Pursuit of safety by conducting performance evaluation tests



### Short-circuit Test

This test simulates the high electric power that flows during a short circuit in order to evaluate the cutoff performance of the breaker and the short circuit's effect on the distribution board circuitry.



### Dust-proof Test (Above) Water-proof Test (Below)

These tests confirm the dust-proof and water-proof performance of enclosures according to IEC Standard 60529 (JISC0920).



### Seismic Test

This test reproduces the vibration of earthquakes by simultaneously exciting 3 axes in order to check the effect of tremors on the product.

## CAE Analysis

We use CAE (Computer Aided Engineering) to evaluate the performance of the product as well as to examine the optimum shapes and specifications.

### Strength Analysis

We evaluate the strength of the enclosure.

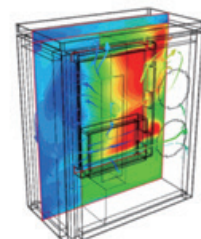
Earthquake resistance of system racks



### Thermal Analysis

We evaluate the temperature inside the enclosure.

Enclosure temperature





# Sophisticated testing facilities that achieve high reliability

The Nagoya Laboratory and Kikugawa Laboratory are equipped with a full array of testing and research facilities, allowing for thorough evaluation tests and continuous research into usage environments, resulting in the development of highly reliable products.



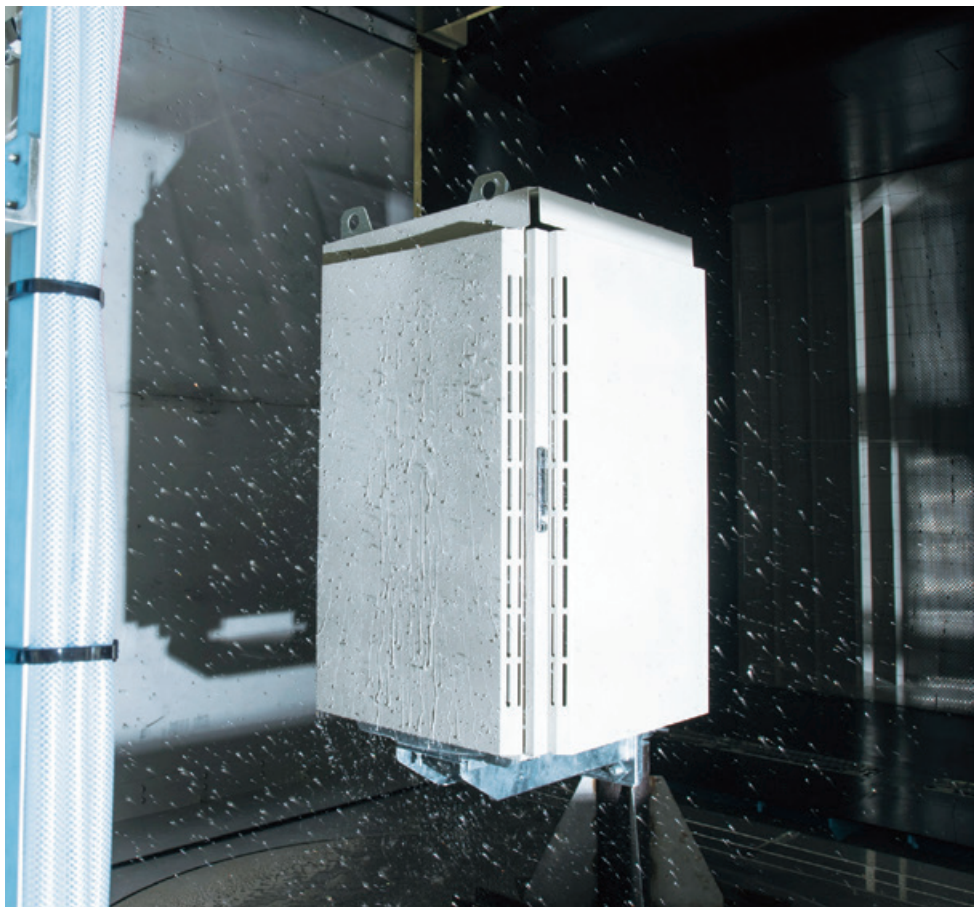
**Nagoya Laboratory** (within Research and Development Center)



**Kikugawa Laboratory**



**Kikugawa Laboratory** (wind driven rain and seismic performance evaluation building)



## Wind driven rain performance evaluations

This test confirms the water-proof performance of outdoor enclosures as well as the effects of wind pressure using a simulation facility capable of simulating a rainstorm.



## Solar heat performance evaluations

This test reproduces outdoor solar radiation with lamps that simulate sunlight in order to evaluate its thermal effects.



## Compression Test

This test confirms the effects of various compressive loads such as snowfall and stacking in logistical storage on performance.



## Corrosion resistance evaluation

This is a test to check the corrosion effect of salt water by spraying the salt water to test piece.

### Other Tests

- Electrical performance tests
- Analysis evaluation
- Mechanical test evaluation
- EMC tests
- Transportation environment evaluation
- Mathematical analysis evaluation
- Environmental tests



# A production system that achieves standardization, high quality, and short delivery times

All of the factories at NITTO KOGYO are equipped with an advanced production system. High quality and short delivery times are achieved through standardization and automation, and a flexible production system is established to meet the various needs of the market. All products are uniformly managed with automated warehouses and a warehouse entry/dispatch system utilizing IT. Products are rapidly delivered to customers through a distribution network that spans all of Japan.

## Efficient manufacturing of standard products utilizing advanced technology

The use of technologically advanced facilities and integrated production makes it possible to manufacture high-quality, standardized products day after day.



## Custom-made products quickly prepared with a combination of manpower and IT

A unique integrated system using coordination between people and IT is used for everything from quotes and automated drafting to receiving orders, designs, preparations, production, and shipping, achieving a rapid response.



## Standardization through reliable production technology

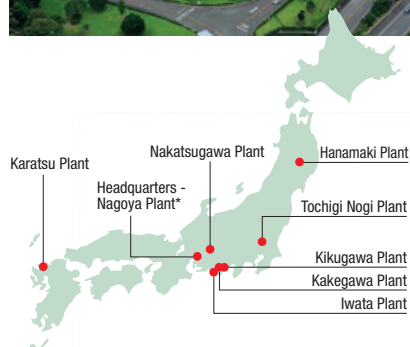
We are constantly working on building production and processing methods according to desired product specifications so that we can propose standardization that satisfies quality, function, and cost in the diversifying market.





## Extensive production system (8 bases in Japan)

Our extensive production system effectively utilizes 8 bases throughout Japan to deliver high quality, low prices, and short delivery times to our customers.



\*Nagoya Plant is scheduled to relocate to Seto Plant in spring 2024

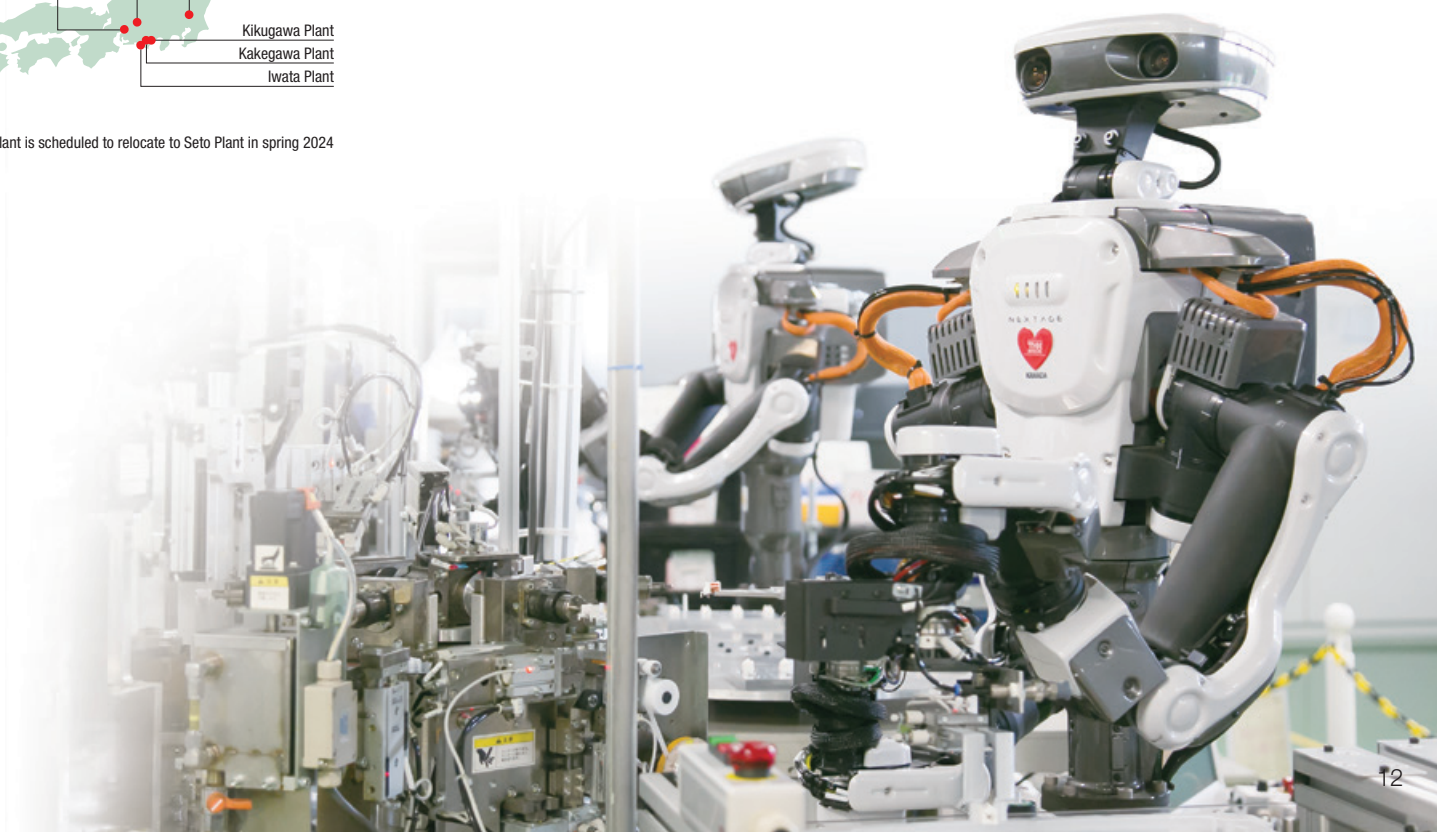
## Hole cutting problems solved with "An easy drilling web system"

Hole cutting is essential when using enclosures. "An easy drilling web system" enables online creation of diagrams and rapid support for hole cutting.



## Logistics system enabling quick product delivery to customers

We have achieved faster, more reliable service through the combination of automated ordering and shipping management systems and our distribution network throughout Japan. With proactive modal shift changeovers, we have implemented a distribution service that is more environmentally conscious.





# Extensive production bases and business network to rapidly deliver products and services



## NITTO KOGYO's Bases in Japan

There are 8 production bases within Japan. We strive to coexist with the regional community and abundant nature in each area while carrying out manufacturing. There are also 45 sales offices throughout Japan. With our strong sales network, we rapidly and precisely deliver high quality products and services to our customers.



**Headquarters - Nagoya Plant**  
Nagakute-shi, Aichi (Nagoya Plant is scheduled to relocate to Seto Plant in spring 2024)  
[Site area] 70,000m<sup>2</sup>  
[Building area] 50,000m<sup>2</sup>  
[Major manufactured products] System racks, breakers, switchgears, thermal management products



**Seto Plant** (Scheduled to start operating in spring 2024)  
Seto-shi, Aichi  
[Site area] 253,000m<sup>2</sup>  
[Building area] 50,000m<sup>2</sup>  
[Major manufactured products] Metal enclosures, breakers, system racks, optical junction boxes, thermal management products



**Kikugawa Plant**  
Kikugawa-shi, Shizuoka  
[Site area] 181,000m<sup>2</sup>  
[Building area] 82,000m<sup>2</sup>  
[Major manufactured products] Metal enclosures, panel boards, AC Normal Charger for EV/PHEV



**Iwata Plant**  
Iwata-shi, Shizuoka  
[Site area] 50,000m<sup>2</sup>  
[Building area] 25,000m<sup>2</sup>  
[Major manufactured products] Plastic enclosures, home panel boards



**Kakegawa Plant**  
Kakegawa-shi, Shizuoka  
[Site area] 68,000m<sup>2</sup>  
[Building area] 16,000m<sup>2</sup>  
[Major manufactured products] Compact enclosures



**Nakatsugawa Plant**  
Nakatsugawa-shi, Gifu  
[Site area] 42,000m<sup>2</sup>  
[Building area] 14,000m<sup>2</sup>  
[Major manufactured products] High-voltage power receiving equipment



**Karatsu Plant**  
Karatsu-shi, Saga  
[Site area] 99,000m<sup>2</sup>  
[Building area] 16,000m<sup>2</sup>  
[Major manufactured products] High-voltage power receiving equipment, panel boards



**Hanamaki Plant**  
Hanamaki-shi, Iwate  
[Site area] 63,000m<sup>2</sup>  
[Building area] 16,000m<sup>2</sup>  
[Major manufactured products] High-voltage power receiving equipment, panel boards



**Tochigi Nogi Plant**  
Nogi-machi, Shimotsuga-gun, Tochigi  
[Site area] 43,000m<sup>2</sup>  
[Building area] 18,000m<sup>2</sup>  
[Major manufactured products] System racks



# Main Group Companies in Japan

In order to expand the potential for the distribution/panel board business that has traditionally been our strength, we created new initiatives with various group companies, including developing products by collaborating with power distribution equipment manufacturers and control panel board manufacturers, establishing the new business area "One-stop maintenance work" in cooperation with information-related and electrical facility construction companies, and strengthening our sales channels through partnerships with dedicated telecommunications equipment companies.



**AICHI ELECTRIC WORKS CO., LTD.**  
Komaki-shi, Aichi

[Business details]  
Design, manufacturing, sales, repair, etc. of various electrical devices and tools



**NANKAIDENSETSU CO., LTD.**  
Osaka-shi, Osaka

[Business details]  
Telecommunication network business, electrical facilities business, etc.



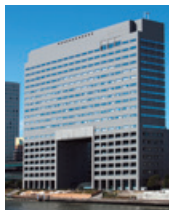
**Taiyo Electric Mfg. Co., Ltd.**  
Nagoya-shi, Aichi

[Business details]  
Manufacturing and sales of control systems, software, etc. for industrial machinery



**ECAD Solutions Co., Ltd.**  
Saitama-shi, Saitama

[Business details]  
Development and sales of CAD systems dedicated for electrical and harness design



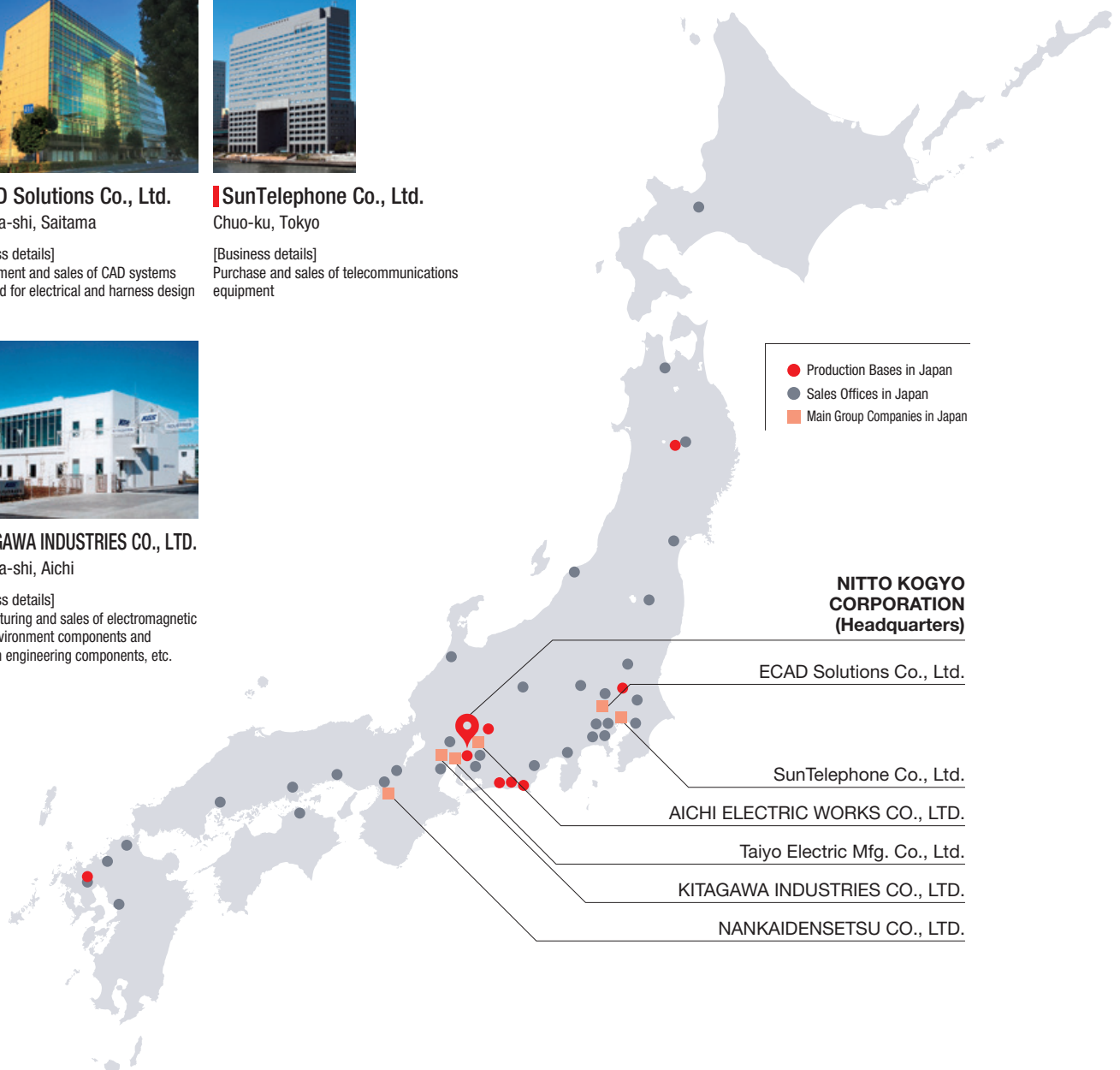
**SunTelephone Co., Ltd.**  
Chuo-ku, Tokyo

[Business details]  
Purchase and sales of telecommunications equipment



**KITAGAWA INDUSTRIES CO., LTD.**  
Inazawa-shi, Aichi

[Business details]  
Manufacturing and sales of electromagnetic wave environment components and precision engineering components, etc.



# Overseas business expansion that responds to global needs

NITTO KOGYO Group's production and sales bases have expanded to China, Singapore, and Thailand.

By providing high-quality, high-added-value products and services, we are meeting the various needs of our overseas clients and contributing to global development through the establishment of electrical infrastructure.



## **NITTO KOGYO (CHINA) CORPORATION** Zhejiang Province, China

[Business details]  
Manufacturing and sales of electrical machines and devices such as metal enclosures and distribution board parts  
Import and sales of NITTO KOGYO products in China and sales of products manufactured by overseas companies

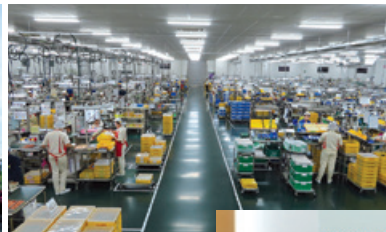






**Gathergates Group Pte Ltd**  
Republic of Singapore

[Business details]  
Manufacturing and sales of electric machines and devices such as distribution boards, panel boards, control panel boards, and meter boxes



**ELETTO (THAILAND) CO.,LTD.**  
Ayutthaya Province, Kingdom of Thailand

[Business details]  
Manufacturing and sales of electric machines and devices such as breakers and switchgears



# Global Network



**NITTO KOGYO BM (THAILAND) CO.,LTD.**  
Ayutthaya Province, Kingdom of Thailand

[Business details]  
Manufacturing and sales of electric machines and devices such as metal enclosures, distribution boards, and panel boards  
Import and sales of NITTO KOGYO products in Thailand and sales of products manufactured by overseas companies



- Main group companies overseas
- Overseas subsidiaries of main domestic group companies

# Linking the global environment to the future

## Creating environmentally-conscious products

We strive to manufacture products that are environmentally conscious in order to ensure that the Earth will remain beautiful for the next generation. We consider the environmental impact for everything from the development stage to manufacturing, product transport, use by customers, and product disposal. By using our products, our customers can create structures that contribute to environmental conservation.

### Development/Design

We strive to manufacture products that are environmentally conscious, creating our own strict, proprietary environmental certification standards.

### Production

We promote production activities that reduce the emission of CO<sub>2</sub> and other waste products.

### Transport

We rapidly deliver our products with an environmentally-conscious transport system.

### Customers

## Initiatives to Create a Virtuous Cycle Towards a Decarbonized Society

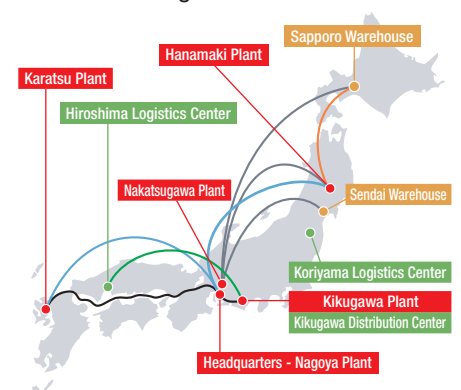
"The Industrial Solar Self-Consumption Battery System" achieves the creation of a virtuous cycle by using reused batteries, which are made from repurposed used electric vehicle batteries, leading to a reduction in CO<sub>2</sub> emissions in the manufacturing process and the recycling of resources such as rare metals. This system stores surplus electricity generated from solar power in batteries for self-consumption, contributing to a reduction in purchased electricity consumption and a decrease in CO<sub>2</sub> emissions.



## Modal shift initiative

Transporting products by truck leads to a high volume of CO<sub>2</sub> emissions, and recently a lack of drivers has become increasingly serious. Therefore, we are changing from transport by truck to transport by rail and boat (modal shift). Due to this initiative, we were presented with the "Green Logistics Excellent Business Special Award" by the Ministry of Economy, Trade and Industry and Ministry of Land, Infrastructure, Transport and Tourism of Japan in 2014 and the "Eco Ship Modal Shift Excellent Business Award" by the Ministry of Land, Infrastructure, Transport and Tourism of Japan in 2016.

### Modal shift segments





Corporate Profile

Company name	NITTO KOGYO CORPORATION
Establishment	November 24, 1948
Representative	President & COO Toru Kurono
Headquarters location	2201 Kanihara, Nagakute-shi, Aichi, 480-1189 JAPAN
Telephone number	(0561) 62-3111 (main number)
Registered capital	6,578,000,000 JPY
Business details	The manufacturing and sales of electric and mechanical equipment such as high-voltage power receiving equipment, panel boards, home panel boards, optical junction boxes, metal enclosures, plastic enclosures, system racks, breakers, switchgears, EV/PHEV general charging stands, thermal management products, and so on. Power generation and sales business.

History

1950	1948	Established NITTO KOGYO CORPORATION (Seto-shi, Aichi).		1948	Manufacturing and sales of cut-off switches.	
				1951	Manufacturing and sales of covered knife switches.	
1960	1967	Established the Nagoya Plant (Nagakute-shi, Aichi).	 Nagoya Plant	1963	Manufacturing and sales of standard panel boards and control panel boards.	
				1963	Manufacturing and sales of home panel boards.	
				1966	Manufacturing and sales of enclosed panel-board-type high-voltage power receiving equipment.	
1970	1970	Relocation of headquarters (Nagakute-shi, Aichi).	 Kikugawa Plant	1967	Manufacturing and sales of steel enclosures.	
	1974	Established the Kikugawa Plant (Kikugawa-shi, Shizuoka).		1969	Manufacturing and sales of plastic enclosures.	
1980	1981	Listed in Nagoya Stock Exchange second section.		1975	Manufacturing and sales of safety breakers.	
	1983	Established the Hamamatsu Plant (Now the Iwata Plant) (Iwata-shi, Shizuoka).		1976	Manufacturing and sales of leakage breakers.	
1990	1990	Listed in the second section of the Tokyo Stock Exchange.		1980	Manufacturing and sales of system racks.	
	1992	Established the Research and Development Center (Nagakute-shi, Aichi).	 Research and Development Center	1984	Manufacturing and sales of heat exchangers for panel boards.	
	1992	Established the Nakatsugawa Plant (Nakatsugawa-shi, Gifu).		1984	The enclosure acquired the IP label, an international standard.	
	1992	Established the Saga Kyuragi Plant (Now the Karatsu Plant) (Karatsu-shi, Saga).		1995	Manufacturing and sales of slim-type breakers.	
	1996	Listed in the first sections of the Tokyo and the Nagoya Stock Exchanges.		1996	Manufacturing and sales of optical junction boxes.	
	1997	Established the Hanamaki Plant (Hanamaki-shi, Iwate). (2006:Split as TOHOKU NITTO KOGYO CORPORATION, 2022:Merged)		1996	Manufacturing and sales of seismic relays.	
2000	1998	Established the Kikugawa Laboratory (Kikugawa-shi, Shizuoka).		1998	Manufacturing and sales of auto reset breakers.	
	1999	Established the Tochigi Nogi Plant (Nogi-machi, Shimotsuga-gun, Tochigi).				
	2004	Established a local corporation in China "NITTO KOGYO (Jiaxing) Electric Corporation" (Now "NITTO KOGYO (CHINA) CORPORATION").		2001	Manufacturing and sales of "FS Series" system racks.	
	2007	Made Aichi Electric Works Co., Ltd a consolidated subsidiary.		2002	Manufacturing and sales of small high-performance breakers.	
2010	2008	Established the Kakegawa Plant (Kakegawa-shi, Shizuoka).		2009	Jointly developed a charging stand for EV/PHEV with Toyota Industries Corporation.	
	2008	Established a local corporation in Thailand "ELETTO (THAILAND) CO., LTD."				
	2013	Made SunTelephone Co., Ltd a subsidiary.		2016	Manufacturing and sales of agreement type plug-in type small power distribution panel.	
	2013	Made NANKAIDENSETSU CO., LTD. a subsidiary.		2017	Manufacturing and sales of seismic circuit breakers.	
	2014	Made Taiyo Electric Mfg. Co., Ltd. a subsidiary.		2020	Manufacturing and sales of discharge detection devices.	
	2015	Established a local corporation in Thailand NITTO KOGYO TRADING (THAILAND) CO., LTD. (Now NITTO KOGYO BM (THAILAND) CO., LTD.).		2020	Manufacturing and sales of movable booths.	
	2015	Made Singapore corporation Gathergates Group Pte., Ltd. a subsidiary.		2021	Manufacturing and sales of general charger for EV/PHEV.	
	2017	Established the Kikugawa Laboratory, Wind Driven Rain/Seismic Resistance Test Facility.		2023	Manufacturing and sales of Industrial Solar Self-Consumption Battery System.	
	2017	Established ECAD Solutions Co., Ltd.				
	2019	Made KITAGAWA INDUSTRIES CO., LTD. a subsidiary.				
2022	Transition to the Prime Market of the Tokyo Stock Exchange and the Premier Market of the Nagoya Stock Exchange.					

**NITO** NITTO KOGYO CORPORATION

<https://www.nito.co.jp/>