

A mission to deliver.

The power to challenge.

A future to connect.

**Kansai
Transmission and
Distribution, Inc.**

Company Profile

Top Message

Reaffirming our dedication to a safe, stable supply of electricity for a brighter future

To ensure even greater neutrality in our power transmission and distribution business, and in line with the revision of the Electricity Business Act, the general power transmission and distribution business division split off from Kansai Electric Power and continued as Kansai Transmission and Distribution in April 2020.

Since our beginning as a division of Kansai Electric Power, we at Kansai Transmission and Distribution have been working to ensure a stable supply of electricity by steadily renewing aging facilities even in the face of a downward trend in electricity demand due to Japan's declining population, wider adoption of power-saving practices, and greater energy conservation activities. On top of this goal, our role as a power transmission and distribution company is becoming more essential as the expectations of both customers and society increase in light of expanding renewable energy power sources in line with zero-carbon initiatives, strengthening resilience to deal with increasingly serious natural disasters, diversifying needs of the power system, and other initiatives. Meanwhile, the continued COVID-19 pandemic has significantly impacted economic activities and social activities, resulting in unpredictable conditions.

Even under such circumstances, Kansai Transmission and Distribution remains firmly committed to its mission of continuing to deliver a safe and steady supply of low-price electricity, which underpins the activities of industry and our daily lives.

In addition to utilizing big data acquired through smart meters, and to realizing DX (digital transformation) through aggressive adoption of digital technologies such as AI and IoT, we will continue to dedicate ourselves fully to furthering the transmission and distribution business and to ensuring greater cost efficiency and improved productivity. We will also continue to find ways to utilize our strengths cultivated in the power transmission and distribution business in undertaking new business—both in Japan and overseas—together with Kanden Engineering Co. and The Kanden Services Co., Inc. to further promote expansion beyond the Group companies.

As a member of the Kansai Electric Power Group, we at Kansai Transmission and Distribution will continue to provide trusted, reliable services to customers and society based on our mission of "Serving and Shaping the Vital Platform for a Sustainable Society" and with dedication to safety and security in line with our values of fairness, integrity, inclusion, and innovation, as outlined in our management philosophy. We look forward to your continued support.

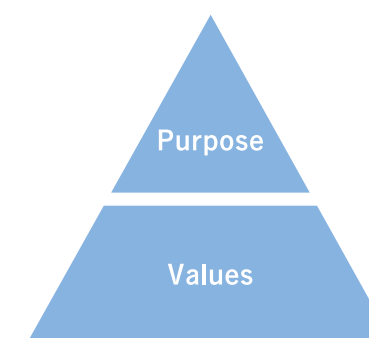


Yoshikazu Iri

President and Director
Kansai Transmission and
Distribution, Inc.

Management Philosophy

Kansai Transmission and Distribution Group Management Philosophy Purpose & Values



Purpose **Serving and Shaping the Vital Platform for a Sustainable Society**

Values **Fairness × Integrity × Inclusion × Innovation**

With dedication to safety and security, we will act upon the values of Fairness, Integrity, Inclusion, and Innovation.

Concept Behind the Logo

The Kansai Transmission and Distribution logo embodies the aspirations we have for our business.

Kansai Transmission and Distribution

The design uses V for voltage and A for ampere as basic motifs, which are shaped into the infinity symbol.

The logo represents the perpetual bond that links customers with power generation and power transmission and distribution vendors, as well as the ceaseless mission of ensuring safe and stable power transmission and distribution, and the infinite possibilities it holds.

The logo has a sense of movement to it that is both powerful and gentle, expressing reliability and flexibility and creating a harmony by smoothly connecting people and society.

The slanted S-shaped logo also captures our intention to safely and stably provide electric power to customers.

Dedicated to building, maintaining, and operating power transmission, transformation, distribution, and supply facilities for the safety and security of customers



Business Overview
 Transmission and Distribution Business

Business outline

In order to deliver electricity from power plants to customers, Kansai Transmission and Distribution not only operates power systems but also plans and builds power transmission and distribution facilities and substations. We will continue to deliver a safe and steady supply of electricity to customers at a low price and in a neutral and fair manner, along with reliable and secure power utilization services, and by doing so contribute to the development of local communities.



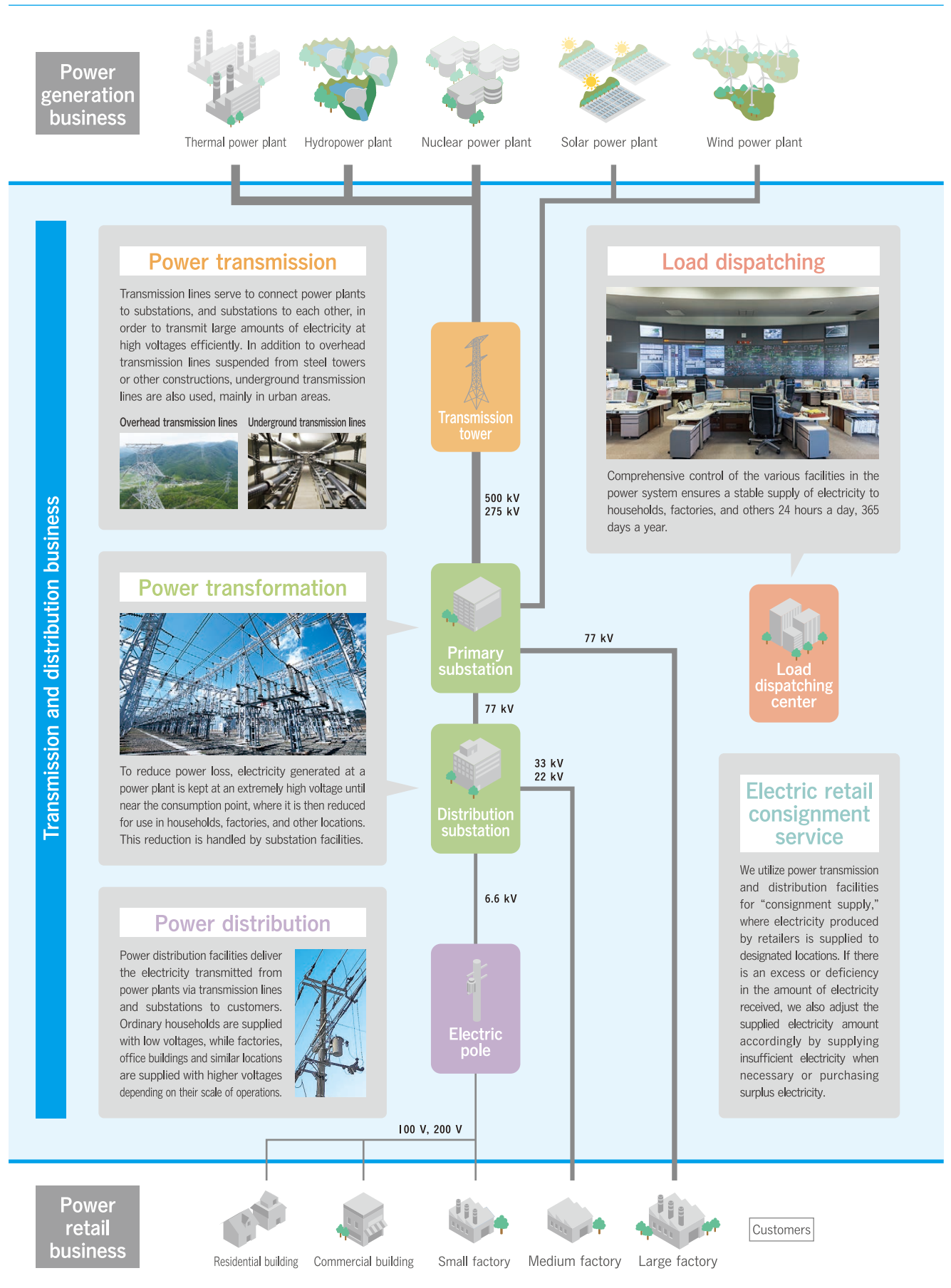
Business scale

Length of transmission lines (route length)	Approx. 19,000 km
Length of distribution lines (route length)	Approx. 133,000 km
Number of substations (excluding distribution unit substations)	Approx. 1,000

* As of end of March 2021



Ensuring a Safe and Stable Supply of Electricity



Safe and stable supply of electricity

To ensure a stable supply of electricity in support of today's lifestyles, we strive to prevent power outages by conducting patrols and inspections of transmission and distribution facilities. We are also dedicated to the planned replacement of facilities and developing new technology such as system control methods using IT technology. Our Distribution Automation System also ensures quick recovery following a power outage.

Dedication to the maintenance and operation of power facilities in the Kansai area

We carefully monitor and regularly patrol and inspect all of our facilities located in various natural environments, ranging from electric poles in the city to rugged mountainous and snowy areas while replacing or repairing parts as necessary.



Countermeasures against aging to ensure safe and stable delivery of electricity

We regularly inspect aging* power distribution facilities to ensure repairs and renewal are performed with optimal timing.

* The state where the equipment and materials have been in use for extended periods.



Constant monitoring of power facilities and using an automated system for early recovery from power outages

At the Central Load Dispatching Center as well as the Grid Operation Centers and business sites for each area, we maintain a 365-day, 24-hour watch on the electricity flow, in order to respond quickly if a power outage should occur. If a power outage occurs, the Distribution Automation System quickly pinpoints the trouble spot and immediately locks it out so that power can be quickly restored to unaffected sections. At the same time, a work team makes its way to the site to remove the cause of the power outage.



Quick assessment and response to disasters with technical know-how based on extensive training

In the event of a disaster, we use drones and mobile devices to quickly collect information and investigate the extent and status of the damage. This information is then applied to achieve a quick recovery.

In order to fulfill our mission of ensuring a safe and stable supply of electricity, we regularly conduct power outage recovery drills. Through our yearly "Company-wide Skills Presentation," we are aiming to further enhance the skills of personnel working at the front line.

Improving productivity and efficiency

Our goal is to supply safe and stable electricity at low prices. To that end, we promote productivity and efficiency improvements through DX (digital transformation) and innovations in materials procurement.

Improving productivity through DX

We are enhancing the quality and productivity of operations through the utilization of AI and the IoT in a wide range of fields, such as automatic processing of routine tasks and remote inspection and monitoring using drones and sensors, while pursuing the creation of new value.



Remote support for on-site operations using smart glasses (glasses-like devices equipped with cameras and microphones)

Unifying facility specifications and optimizing materials procurement to promote efficiency

Unifying the specifications of facilities such as electric poles and transformers, and reforming procurement methods for example by harmonizing materials procurement among transmission and distribution operators will result in lower costs and greater management efficiency.



Expanding our business area drastically to further growth



Business Overview

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New Business

Utilizing electric power industry technologies and know-how to boost profitability and international cooperation

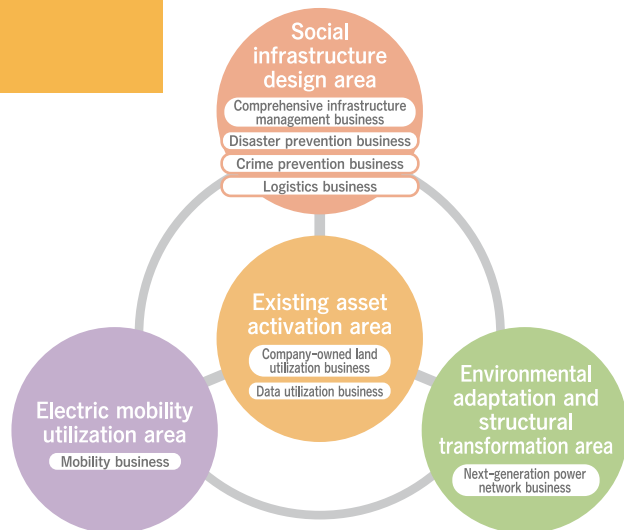


Business Overview

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International Business

Business outline

Utilizing our facilities located throughout the Kansai region and drawing on our accumulated technologies and extensive experience, Kansai Transmission and Distribution is venturing into new business areas such as providing services that use location information on electric poles, and data on smart meters. Centering on four strategic areas and eight key businesses, we will consolidate our autonomous business base as a power transmission and distribution company, while creating new services that will make a positive difference in local communities.



Business outline

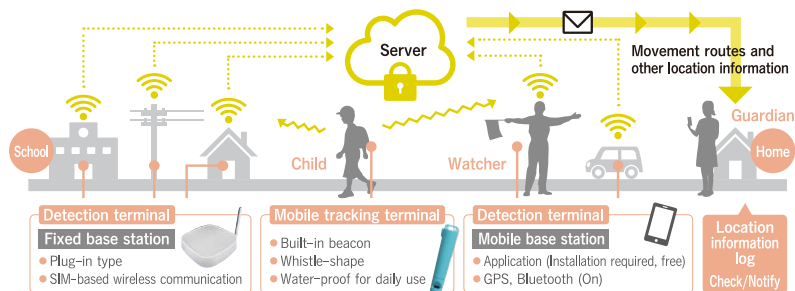
Kansai Transmission and Distribution utilizes the technical capabilities and expertise acquired across all domestic power transmission and distribution operations, including planning and operating power systems, and survey, design, construction, and maintenance work in the power transmission and conversion, power distribution, security, and control fields. We will continue to work with Group companies to expand the power transmission and distribution business overseas and promote international cooperation to boost profitability and advance technical capabilities.



Introduction of new business

OTTADE — Our Team of Watchers!

The OTTADE — Our Team of Watchers! service allows customers to check an information log on where their children have been, such as by tracking their movement routes. The signal emitted from the mobile tracking terminal carried by each child is detected by fixed base stations (detection points) and mobile base stations (watcher), and data is collected on the child's movements. This service is useful for watching children going to and from school.



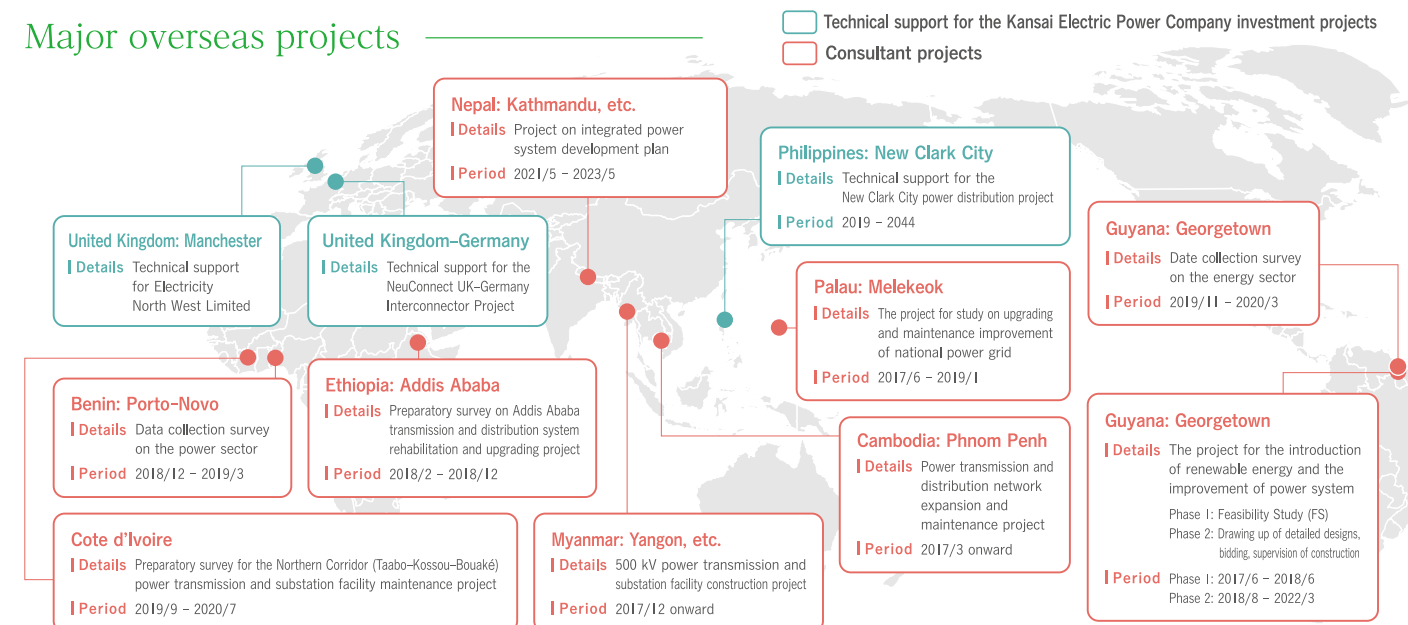
Development of frequency control technology using storage batteries

With the goal of establishing frequency control technology utilizing storage batteries and EVs, we are working on creating virtual power plants (VPPs) that we can also use in future power system environments, including to solve problems related to the mass introduction of renewable energy and to help establish a low-carbon society.

Consideration of smart poles, etc.

We are dedicated to helping solve various social issues using electric power infrastructures such as by using electric poles for road-to-vehicle communication in support of safer driving, electric pole suspended parcel delivery, and as "smart poles" with various features including information and communication technology.

Major overseas projects



Outline

Company name	Kansai Transmission and Distribution, Inc.
Establishment date	April 1, 2019 (Business continuation as of April 1, 2020)
Capital	¥40 billion
Supply area	Osaka, Kyoto, Hyogo (excluding some areas), Nara, Shiga, Wakayama, parts of Mie, parts of Gifu, parts of Fukui
Number of employees	8,969 (As of end of March 2021) * Excluding employees on loan and on administrative leave
Executives	Yoshihiro Doi, President and Director Niichiro Kitamura, Director and Executive Vice President Takayuki Hakugin, Director and Managing Executive Officer Yukio Tokimasa, Director (part-time) Masanobu Noda, Director (part-time) Toshiki Hanada, Audit & Supervisory Board Member Seiichiro Toda, Audit & Supervisory Board Member Yasuji Shimamoto, Outside Audit & Supervisory Board Member (part-time) Takashi Fukuda, Managing Executive Officer Kazuaki Takaichi, Managing Executive Officer Masahiko Tsuda, Executive Officer Takeshi Myotoku, Executive Officer Yoshikazu Matsuda, Executive Officer Atsushi Nishida, Executive Officer * As of July 1, 2021

Jurisdiction Facilities

Control stations	3 (excluding manned substations)
Load dispatching centers / Dispatching control offices	10
Substations	961 (excluding distribution unit substations)
Switching stations	38
Converter station	1
Overhead transmission lines ^{*1}	14,254 km
Underground transmission lines ^{*1}	4,597 km
Overhead distribution lines ^{*2}	126,169 km
Underground distribution lines ^{*2}	6,711 km

^{*1} Including distribution lines over 20 kV

^{*2} Excluding distribution lines over 20 kV

* Figures as of end of March 2021

Group Companies

Kanden Engineering Corp.
The Kanden Services Co., Inc.

History

May 1951	Load Dispatch Department launched by Kansai Electric Power Company, Incorporated
Jul. 1952	Became first power company in Japan to offer 275 kV super-high voltage power transmission
Feb. 1962	Introduced a 220 kV interconnected power system (Himeji-Okayama) with Chugoku Electric Power
Nov. 1963	Introduced a 275 kV interconnected power system (Johana) with Hokuriku Electric Power
Feb. 1968	Began full-fledged operation of an automatic power feeding system at the Central Load Dispatching Center
Jun. 1973	Began operation of a second automatic power feeding system at the Central Load Dispatching Center
May 1976	Completed the 500 kV basic system, and began operation of the 500 kV power system
Feb. 1980	Introduced a 500 kV interconnected power system (Seibu-Minami Kyoto) with Chubu Electric Power
Mar. 1980	Introduced a 500 kV interconnected power system (Seiban-Higashi Okayama) with Chugoku Electric Power
Apr. 1989	Introduced a Distribution Automation System for power distribution
Jun. 1995	Began operation of a high-performance system at the Central Load Dispatching Center
Jun. 1997	Introduced a 500 kV interconnected power system (Echizen-Reinan) with Hokuriku Electric Power
Sep. 1997	Completed the 500 kV crossed dual trunk line system
Nov. 1999	Began research on smart meters
Mar. 2000	Began the electric retail consignment service
Jun. 2000	Began operation of the Kii Channel HVDC System
Jun. 2001	Introduced the 500 kV interconnected dual trunk line system with Chugoku Electric Power
Jun. 2002	Introduced an advanced Distribution Automation System for power distribution
Apr. 2008	Began verification tests for smart meters
Jun. 2008	Began operation of a wide-area distribution system at the Central Load Dispatching Center and Grid Operation Center
Feb. 2014	Began remote monitoring/control of 500 kV electrical stations
Apr. 2014	Began full-scale installation of smart meters
Dec. 2017	Changed southern area 500 kV systems into loop systems
Jun. 2018	Set up the Transmission and Distribution Company (internal company)
Apr. 2019	Established a preparatory company for corporate splitting of general power transmission and distribution business
Apr. 2020	Started Phase 3 of the Electricity Sector Reforms (separation of power transmission and distribution business) Split power transmission and distribution business from Kansai Electric Power Company and continued as Kansai Transmission and Distribution

Main Offices

Head Office

3-6-16 Nakanoshima, Kita-ku, Osaka 530-0005

Osaka Branch Office

3-9-5 Hamaguchi-Nishi, Suminoe-ku, Osaka 559-0006

Kyoto Branch Office

579 Higashi-Shiokoji-cho, Shiokoji-dori Karasuma-Nishi-iru, Shimogyo-ku, Kyoto 600-8216

Hyogo Branch Office (Kobe)

6-2-1 Kano-cho, Chuo-ku, Kobe, Hyogo 650-0001

Hyogo Branch Office (Himeji)

117 Junishomae-cho, Himeji, Hyogo 670-0911

Nara Branch Office

48 Omori-cho, Nara 630-8131

Shiga Branch Office

4-1-51 Nionohama, Otsu, Shiga 520-0801

Wakayama Branch Office

40 Okayama-cho, Wakayama 640-8145

Tokai Electric Power Headquarter

2-27-14 Izumi, Higashi-ku, Nagoya, Aichi 461-0001

Hokuriku Electric Power Headquarter

1-2-13 Higashi-Denjigata-machi, Toyama 930-0017

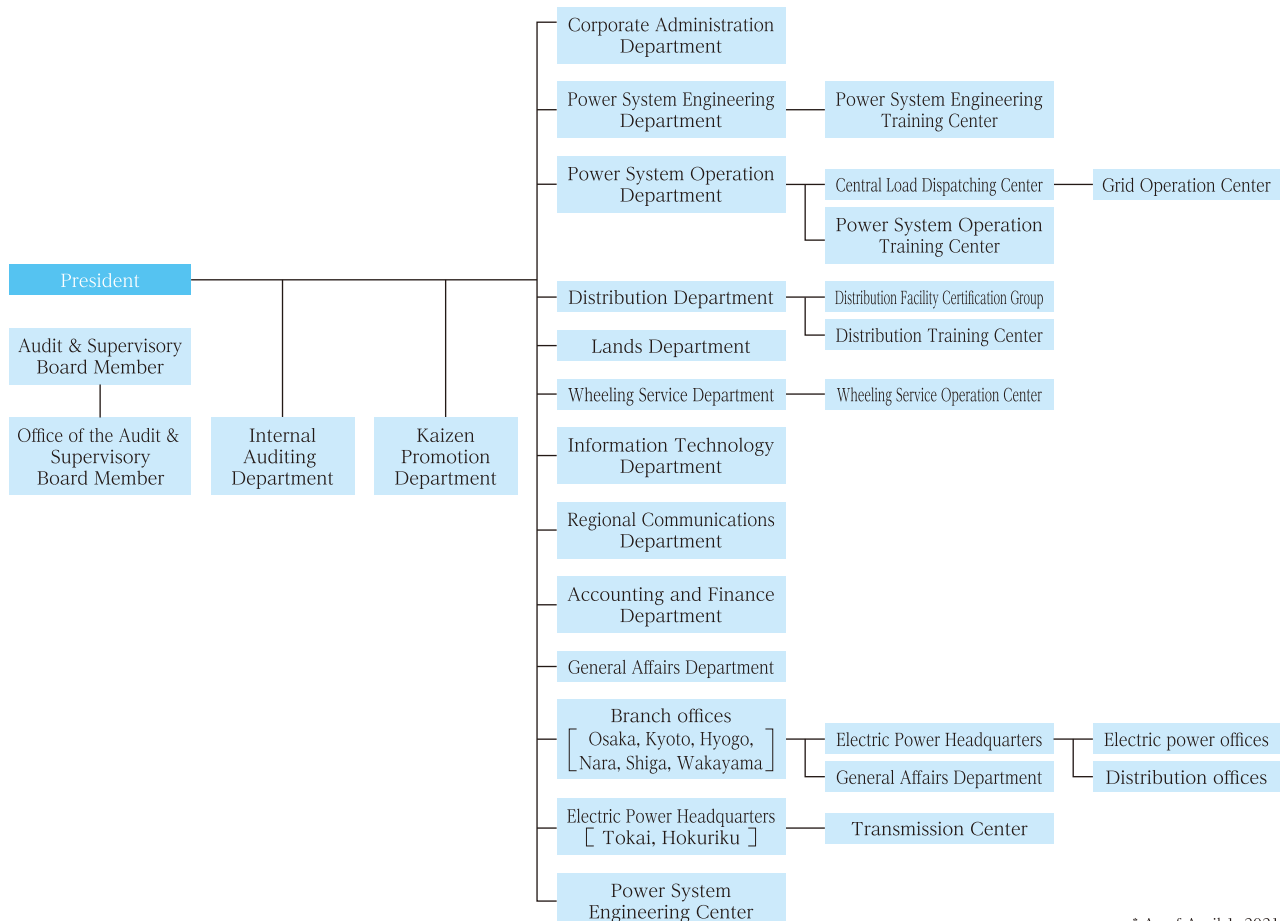
Power System Engineering Center

2-13-31 Mikuni-Honmachi, Yodogawa-ku, Osaka 532-0005

Wheeling Service Operation Center

Nakanoshima Center Building, 6-2-27 Nakanoshima, Kita-ku, Osaka 530-6691

Organization Chart



* As of April 1, 2021

Kansai Transmission and Distribution, Inc.

3-6-16 Nakanoshima, Kita-ku, Osaka 530-0005 Japan
<https://www.kansai-td.co.jp/>

