

# Connect to the Future

– What we can do for people, the environment and society

“Transportation Systems” to support the safety of railway infrastructure with electrical equipment such as pantographs and driving gear units.  
 “Industrial Systems” to help people’s lives and energy saving with automotive development, processing equipment, and electrical products for power generation infrastructure.

“Information Equipment Systems” to watch the work comfortably in the network such as terminals for stations and conductors, monitoring control of remote facilities, etc.

In our three businesses, we are manufacturing things that help the environment and society (ESG).

We will contribute to the realization of a sustainable society by further leveraging our accumulated technology and experience.

## Environment

→ Page 14

- Environmental stewardship activities (Environmental Philosophy and Action Guidelines)
- Implementation of environmental management

## Social

→ Page 16

- Initiatives for stakeholders
- Creating a pleasant workplace

## Governance

→ Page 21

- Corporate governance

The business activities of Toyo Denki Seizo are closely related to the environment and social infrastructure. By offering products and systems combining “environmental technology” and “IT technology,” we contribute to infrastructure development and sustainable development of a safe and secure society. We are endeavoring to proliferate energy-saving products toward the following specific goals of SDGs:

- 7 Affordable and Clean Energy
- 13 Climate Action



## Examples of initiatives

### Energy saving of railways

We have been supplying various electrical equipment for vehicles to railways around the world to support their development. Examples of our products accepted by customers in recent years include the supply of VVVF inverters using SiC elements and high-efficiency totally-enclosed motors for Keisei Electric Railway’s new 3100 series rolling stock. Energy consumption was reduced by about 18% compared to the conventional system, achieving energy savings.



### Energy saving with eco-drive (ED) motors and intelligent inverters

The Company’s permanent-magnet synchronous motors, “eco-drive (ED) motors,” and intelligent inverters are widely used for production and processing facility systems in Japan and overseas, facilitating energy-saving.



## Internal awareness-raising activities

We conduct awareness raising activities such as in-house newsletters to raise awareness and knowledge of SDGs and to encourage employees to think themselves about efforts to achieve SDGs through business.



# Plant Opening Ceremony of Chalco-Toyo Permanent Magnet Motor Co., Ltd.



Plant opening ceremony



Internal view of the plant

In June 2019, the Company established Chalco-Toyo Permanent Magnet Motor Co., Ltd., a joint venture company that primarily engages in the manufacture and sales of industrial permanent-magnet synchronous motors in Changshu, Jiangsu Province in the People’s Republic of China (hereinafter China). Preparations for the plant’s operation had been underway and were completed recently, with an opening ceremony held on September 10, 2020.

The opening ceremony was a grand affair and attended by the joint venture partner companies, senior officials of the Changshu government, business partners, local media, and many other guests.

We will continue to capitalize on our outstanding motor drive technology and globally expand our business in order to contribute to the realization of social infrastructure systems that are friendly to the global environment.

## Background to the establishment of Chalco-Toyo Permanent Magnet Motor Co., Ltd.

Chalco-Toyo Permanent Magnet Motor Co., Ltd. was established as a joint investment between Chinalco Rare Earth & Metals Co., Ltd., a supplier of rare earth metal resources affiliated with Aluminum Corporation of China (CHINALCO), a trading company Beijing Ling Yang Trading Co., Ltd., and the Company. The purpose of the joint venture is to manufacture highly efficient permanent-magnet synchronous motors for production and processing facilities as the Company’s first overseas manufacturing base for the Industrial Systems segment, and to capture energy-saving needs in the Chinese and ASEAN markets.



### Overview of the plant

Location	Block G, Jiadi (Changshu) International Industrial Park, No.1150 Southeast Avenue, Changshu Hi-tech Industrial Development Zone, Changshu City, Jiangsu Province
Site area	approx. 20,000 m <sup>2</sup>
Employees	42 people
Products	Industrial permanent-magnet synchronous motors
Applications	Factory lines, processing equipment, printing machines, compressors, pumps, etc.
Production capacity	Target production of 5,000 units in fiscal 2021