



September 3, 2021

A first in the 62-year history of PLARAIL!(\*1) Runs electrically without batteries.

**PLARAIL “No batteries needed, all aboard! Te-cology Charge” Series**  
**“Shinkansen Series E5 Hayabusa” and “Shinkansen Series E6 Komachi”**  
**To be launched on Thursday, October 21, 2021**

**Charge the train by rolling it by hand for 30 seconds! Generate your own energy!**

\*1 According to the Company’s research (based on a survey of the “PLARAIL Catalog” issued from May 1959 to April 2021) TOMY Company, Ltd.

TOMY Company, Ltd. (Representative Director, President & COO: Kazuhiro Kojima, headquarters: Katsushika-ku, Tokyo) will release the **“Shinkansen Series E5 Hayabusa”** and the **“Shinkansen Series E6 Komachi”** (SRP: JPY 4,180 each/tax included), **“No batteries needed, all aboard! Te-cology Charge”** Series—PLARAIL that runs electrically without batteries. These new products in the PLARAIL railroad toy series will be on sale from Thursday, October 21, 2021 at toy stores, toy sections of department stores and mass retailers in Japan, online stores, specialty stores for PLARAIL products “PLARAIL Shops,” and TOMY Company’s official online store “Takara Tomy Mall” ([takaratomymall.jp](http://takaratomymall.jp)), etc.



\* The beams, tracks, and transparency of the trains in the photo are for visual representation purposes only. There may be slight differences with the actual products.

This product is **the first train in the 62-year history of PLARAIL to run electrically without batteries.** By rolling the train back and forth on the floor or a table, the wheels spin to generate electricity; and by charging the train for about 30 seconds, it can run electrically for about 7 meters (about 5 to 6 laps of a regular circle layout) without using batteries.



In order to generate enough electricity to run the PLARAIL electrically with only the power of a child’s hands, a more efficient power generation mechanism was needed. This was made possible by the development of a new, patent-pending special system. The train runs electrically with a mechanism that generates and stores electricity by rolling it by hand in both forward and backward directions.

Amid the transition to clean energy attracting attention for the realization of a decarbonized society, we have invented a renewable energy system and proudly offer a product that enables children to learn while playing by creating their own energy. In addition, this product is an **Eco Toy certified product** by TOMY Company, which aims to create toys that are friendly to the global environment.



## Features of the Product

### 1. A first ever for PLARAIL! Runs electrically without batteries!

All you have to do is “roll” the train by hand. Turn off the main switch, hold the train firmly, and roll it back and forth by pressing it lightly against the floor or other surface so that the wheels rotate. After a while, the LED on the driver’s seat will start to glow and gradually get brighter. The amount of charged energy can be checked by looking at the intensity of the LED light on the driver’s seat. When the brightness does not change, the charge is complete. When the switch is turned on, the train runs for about 7 meters on a charge of about 30 seconds. The standard charge provides about 15 round trips (about 30 seconds) at a speed of about 2 seconds back and forth over a distance of about 30 cm.

[Video] Runs electrically without batteries!?! How to play with the “Te-cology Charge Series”: [youtu.be/2bbAknpsq8M](https://youtu.be/2bbAknpsq8M)



### 2. Equipped with a special patent-pending system, the first to generate power by hand rolling in both forward and backward directions!



We have developed a mechanism that can generate electricity when the train is rolled by hand in both forward and backward directions. (Patent pending.) It is a renewable energy system that generates electricity when the train is rolled back and forth by hand and runs electrically, giving children the joy of generating their own energy.

[Video] Runs electrically without batteries!?! Secrets of charging with the “Te-cology Charge Series”: [youtu.be/ekGDNiWCMD4](https://youtu.be/ekGDNiWCMD4)

## **<Product Outline>**

Product Name: “No batteries needed, all aboard! Te-cology Charge Shinkansen Series E5 Hayabusa” and “No batteries needed, all aboard! Te-cology Charge Shinkansen Series E6 Komachi”

SRP: JPY 4,180 (tax included)

Launch Date in Japan: Thursday, October 21, 2021

Recommended Age: 3 years and up

Package Contents: Train (1)

Batteries Required: Not required

Sales Channels: Toy stores, toy sections of department stores/mass retailers in Japan, the specialty store for PLARAIL products “PLARAIL Shops,” online stores, TOMY Company’s official online store “Takara Tomy Mall” ([takaratomy.com](http://takaratomy.com)), etc.

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Official Website: [www.takaratomy.co.jp/products/plarail/sp/tekoro\\_charge](http://www.takaratomy.co.jp/products/plarail/sp/tekoro_charge)

Sales Target: 20,000 units (in a total of 2 types)

### **[What is PLARAIL?]**

“PLARAIL” (Sales agent: TOMY Company) is a long-running series of railroad toys that marked its 60th anniversary of the sales launch in 2019. It is a brand loved across three generations. The prototype of “PLARAIL” is the “PLASTIC TRAIN AND RAIL SET” which was launched in 1959 as a toy made from plastic, a new material at that time when metal and wood-made toys were the mainstream.

The iconic blue rails were designed in a size allowing it to be played on the “chabudai” (a low, Japanese-style dining table), which families gathered around to have a pleasant time back then. This specification remains unchanged even 60 years after its sales launch and you can still enjoy playing by connecting the rails made at that time with the newest ones.

We will continue to develop PLARAIL as a brand that will teach children about their society, enhance their growth including creativity, and nurture communication of children and their parents under the familiar and attracting theme of “railway.” Up to present, a total of approximately 1,800 types and more than 177 million products have been sold in Japan (as of March 31, 2021).

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