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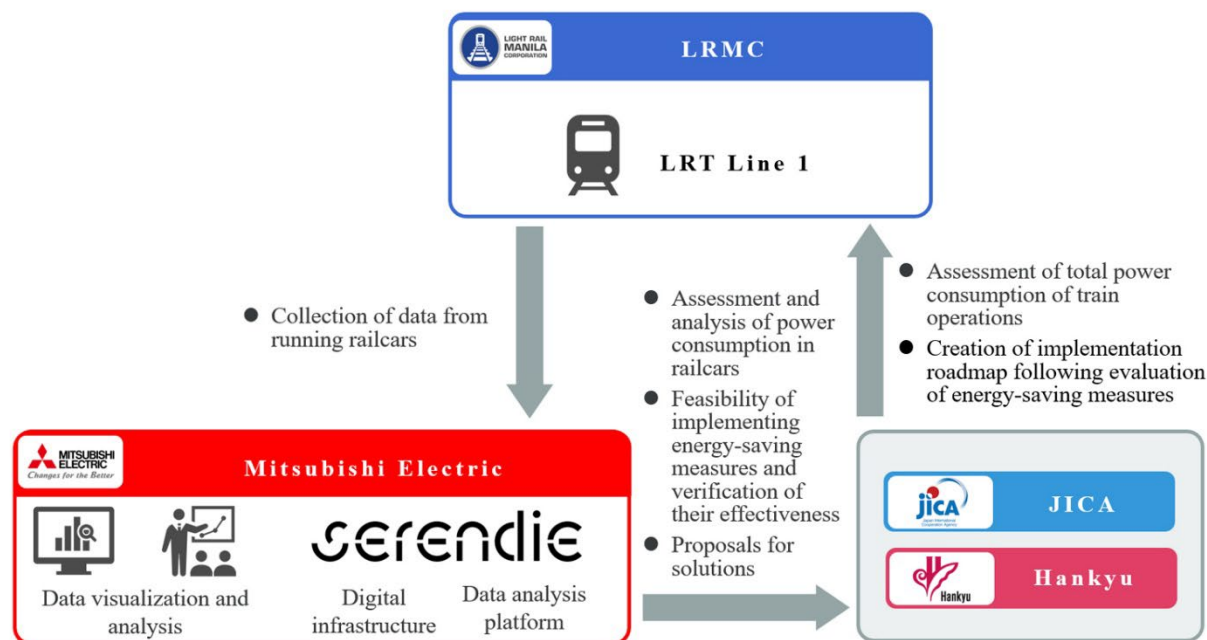
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Mitsubishi Electric Collaborating with JICA and Hankyu to Promote Energy Conservation of Manila's Light Rail

Using data-analysis services to reduce environmental impact of Manila's light rail system



Overview of technical cooperation to promote energy conservation in Manila's light rail transit system

TOKYO, October 6, 2025 – [Mitsubishi Electric Corporation](https://www.mitsubishi-electric.com) (TOKYO: 6503) announced today that it is collaborating with the Japan International Cooperation Agency (JICA) and Hankyu Corporation on a technical-cooperation project to promote the energy conservation of the Manila Light Rail Transit Authority's (LRTA) Line 1,* which is operated and maintained by the [Light Rail Manila Corporation](https://www.lrmc.com.ph) (LRMC). Mitsubishi Electric will leverage its [data-analysis services](#) for railways to assess the railway line's energy usage, verify energy-saving measures and propose corresponding solutions.

Railway infrastructure development is being promoted in the Manila metropolitan area, where reliance on

* Reference: JICA's recent activity for LRMC in Manila
<https://www.jica.go.jp/english/overseas/philippine/information/press/2025/JICALRMCTechnicalAssistance20250521.html>

automobiles as the main mode of transportation has led to chronic traffic congestion, worsening air pollution and increasing CO₂ emissions. LMRC requested JICA’s support to achieve more energy-efficient operations and reduce CO₂ emissions of LRT Line 1. In turn, JICA launched a technical-cooperation project with Hankyu, a company with a proven record of operating energy-efficient railways in Japan.

Commissioned by Hankyu to participate in the project, Mitsubishi Electric will use its Serendie™ digital platform to analyze the LRT Line 1’s current power consumption, verify the feasibility and effectiveness of various energy-saving measures and then propose optimal solutions. For example, using mapping technology that visualizes surplus regenerative energy produced when railcars brake, Mitsubishi Electric expects to propose energy-saving solutions such as installing auxiliary-power supply equipment to enable station buildings to use energy and installing separate equipment to store surplus energy for later use.

Mitsubishi Electric’s participation in the project reflects Hankyu’s recognition of its long history of supplying electrical equipment for railcars and providing energy-saving solutions for Japanese railway operators. Going forward, Mitsubishi Electric is committed to collaborating with JICA and Hankyu to promote the energy conservation of LRT Line 1 and thereby reduce the environmental impact of Manila’s public transportation sector.

Overview of Mitsubishi Electric’s Roles in This Technical Cooperation

Contract Period	June 30, 2025–May 29, 2026
Implementation Details	1. Collect data from railcars on LRT Line 1. 2. Use the Serendie digital platform to analyze power consumption on LRT Line 1. 3. Verify the feasibility and effectiveness of appropriate energy-saving measures. 4. Propose energy-saving solutions to the railway operator.

Overview of LRT Line 1

Opening	1984
Stations	25 stations
Length	Approximately 27km
Ownership	Light Rail Transit Authority (administered by the Philippine Department of Transportation)
Operation and maintenance	Light Rail Manila Corporation

Future Plans and Outlook

Based on insights gained from this technical cooperation, including data analysis using Serendie, Mitsubishi Electric expects to deploy energy-saving solutions based for railway operators in Japan and worldwide, ultimately to contribute to a more carbon-neutral world.

“Serendie” is a pending trademark of Mitsubishi Electric Corporation.

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About Mitsubishi Electric Corporation

With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Mitsubishi Electric enriches society with technology in the spirit of its “Changes for the Better.” The company recorded a revenue of 5,521.7 billion yen (U.S.\$ 36.8 billion*) in the fiscal year ended March 31, 2025. For more information, please visit www.MitsubishiElectric.com

*U.S. dollar amounts are translated from yen at the rate of ¥150=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2025