

Company Profile

Name in Full	MinebeaMitsumi Inc.	Head Office	Tokyo H.Q.: 1-9-3, Higashi-Shimbashi, Minato-ku, Tokyo, 105-0021
Establishment	July 16, 1951	Telephone	81-3-6758-6711
Capital	68,258 million yen (As of March 31, 2024)	President	Yoshihisa Kainuma, Representative Director, Chairman CEO
Employees	83,886 (As of March 31, 2024) * Excluding temporary employees	Website	https://www.minebeamitsumi.com/
Consolidated Subsidiaries and Affiliates	MinebeaMitsumi Group 145 (As of March 31, 2024)		
Business Outline	Machinery Components Business, Electronic Devices and Components Business Automotive, Industrial Machinery and Home Security Unit Business		

Overview of Smart City Solution

Overview of MinebeaMitsumi Smart City Solution

Wireless Network that is created by smart lighting becomes the foundation for the Smart City

1 The wireless devices (Node) are developed and manufactured by MinebeaMitsumi. In the city these Nodes will manage the streetlight and communicate with each other and with the GW.

2 The communication method is 6LoWPAN, which is a type of LPWAN network. The nodes in the city will create wireless mesh-like communication network.

3 Sensor and IoT devices can be connected to the same network to expand the functions of the Smart City.

4 Each node and sensor connects to a central management system (CMS) in the cloud through the GW and allowing the user to check the status of each device and to control them remotely using a PC.

5 Depending on the location and situation, we are also developing the "LoRa" communication network as an option for the users.

MinebeaMitsumi's highly efficient Smart LED Streetlight



By combining our technologies, we can achieve excellent energy efficiency. Furthermore, dimming control can be used to significantly reduce power consumption.

Excellent energy efficiency through the synergy of our parts and technologies

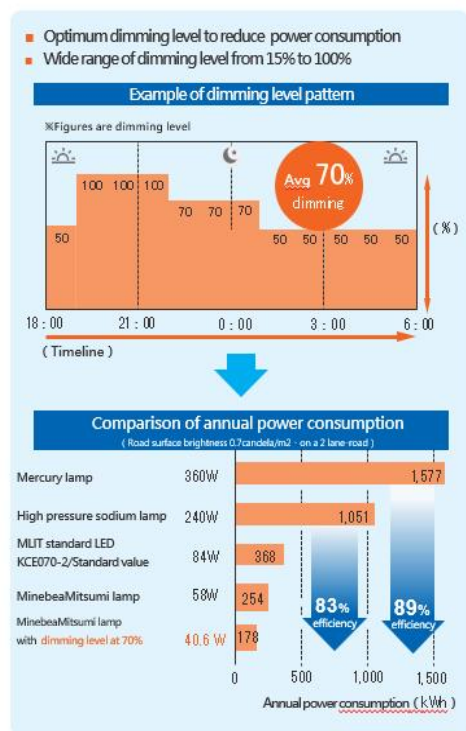
Backlight technology + Lens technology

Power Unit technology

Semiconductor technology

Wireless technology

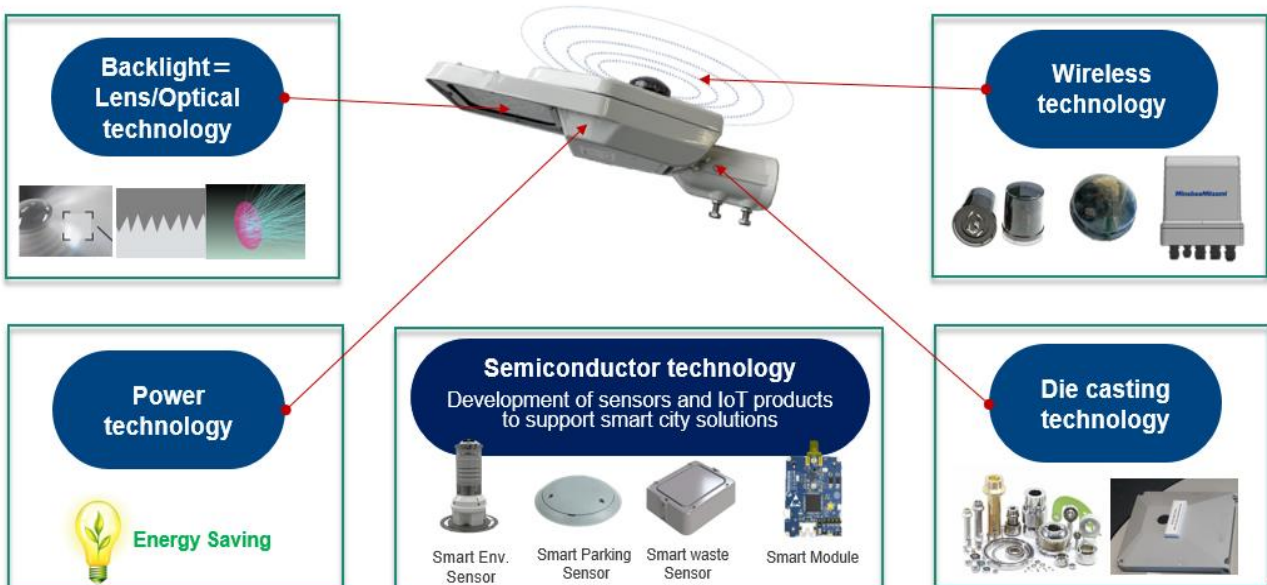
IoT devices and technology that supports the Smart City Solution




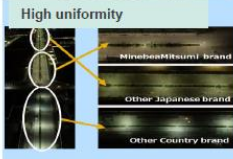
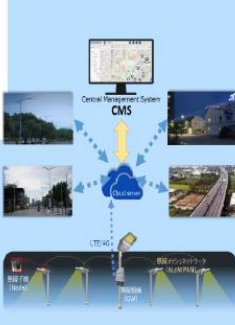



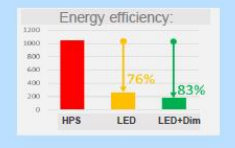

Technical Expertise

Synergy of MinebeaMitsumi technology

Integration of MinebeaMitsumi's original technologies and IoT technology toward development of smart lighting and smart city solutions.



Features of MinebeaMitsumi's Smart City Solution

[1] Efficient lighting	[2] Wireless technology	[3] Centralized management	[4] Energy efficiency	[5] Expandability
<ul style="list-style-type: none"> • Dynamic lighting. • Customized dimming. • High uniformity. 	<ul style="list-style-type: none"> • 6LoWPAN mesh network. • Effective operation and monitoring. 	<ul style="list-style-type: none"> • Manage all devices by CMS. 	<ul style="list-style-type: none"> • Reduce power consumption by dimming. • Reduce CO₂ emission. • Reduce electricity cost. 	<ul style="list-style-type: none"> • Add new devices in same network. • Design innovative solutions.
 <p>High uniformity</p> 		<p>CMS=Central Management System</p>   <p>Control center</p>	<p>Example of Dimming schedule</p>  <p>Average 70% dimming</p> <p>Energy efficiency:</p> 	

- Creating energy efficient city
- Creating city with disaster management measures and preparedness system
- Creating environment friendly city
- Creating a city that support convenient life
- Creating a safe city that prioritize public security



CMS 管理システム

Central Management System の中で、ミネベアミツミ独自のクラウドプラットフォームです。様々な種類のセンサーやアクチュエーターをプラットフォームとして集約し、ネットワークでつなげるセンサーやアクチュエーターを管理する仕組みです。最新のクラウドプラットフォームで、最新のセンサーやアクチュエーターを管理する仕組みです。

Contact person

Ashok BAJRACHARYA

MinebeaMitsumi Inc. Sales HQ. Smart City Promotion
 Address: 1-9-3 Higashi-Shimbashi, Minato-ku, Tokyo 105-8317
 T: +81(0)3 6370 3661 M: +81(0)70 7774 5094
 E: ashok.bajracharya@minebea.com

