News Release
Oct 1, 2015
GS Yuasa Corporation

Anti-disaster LED Lithium Solar-Powered Lighting Installed with Lithium-ion Batteries

-Field test started in Okazaki Park, Sakyo-ku, Kyoto-

GS Yuasa Corporation (Tokyo Stock Exchange: 6674; "GS Yuasa") installed an anti-disaster LED lithium solar-powered lighting ("LEGA Solar") in Okazaki Park (located in Sakyo-ku, Kyoto) as part of the Smart City KYOTO Project advocated by Kyoto City and started its field test on September 1, National Disaster Prevention Day.

The installed LEGA Solar is an LED lighting equipment system equipped with photovoltaic panels, high capacity lithium-ion batteries and anti-disaster plug points. In normal times, it provides light as a stand-alone LED lighting, and during disasters it offers a sense of security as a power supply base, and supporting the tourists and citizens evacuated to Okazaki Park, which is a regional refuge area of Kyoto City.

GS Yuasa has been producing and distributing similar systems using lead-acid storage batteries, but this is the first time for the company to commercially produce such a high-capacity system (guaranteeing four hours of electricity at AC100V/250VA) using lithium-ion batteries, and it will be assessing the system's efficacy during disasters in this field test.

GS Yuasa plans to make similar proposals, based on the expertise acquired in this project, to other municipalities around the nation and cooperate in further enhancing their disaster prevention plans.

[Overview of LEGA Solar]

Equipment type	Small-sized street light type (JR12 series)		Box type	
Solar cells	Maximum output 140W (poly-crystal silicon 70W×2)			
Lighting output	LED12W	LED18W	LED12W	LED18W
Storage batteries	Lithium-ion battery LIM50E-7G×1 (47.5A 25.9V)			
Energy	1.23kWh			
Duration without sun light	5 days			
Expected life span	About 10 years (4,000 cycles)			

*The small-sized street light type LED18W has been installed for the field test.

[Images]

(1) LEGA Solar in day time

(2) LEGA Solar at night

(3) Anti-disaster plug points (AC100V)