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GS Yuasa Corporation

**GS Yuasa Storage Battery System
Adopted by Sekisui House for Eco-Home**

GS Yuasa Corporation (Tokyo Stock Exchange: 6674) announced today that Sekisui House, Ltd. has selected its storage battery system for the “Green First Hybrid” series of environmentally friendly homes utilizing storage batteries.

In recent years, solar power generation systems and fuel cells have garnered attention as effective ways to prevent global warming and reduce CO₂ emissions. Interest in storage batteries has also surged due to electric power shortages in the wake of the Great East Japan Earthquake. Sekisui House announced today the launch of a new series of environmentally friendly homes, the “Green First Hybrid,” which combines solar cells, fuel cells, and storage batteries to both generate and store electric power. With its storage battery system, “Green First Hybrid” homes can store power at night, when electric power rates are lower, and then consume the power during the day to reduce utilities costs. In addition, in the event of a power blackout caused by a disaster, the storage batteries provide a backup power source that gives homeowners peace of mind.

The storage battery system consists of storage batteries with a capacity of 8.96kWh and a power conditioner for the photovoltaic power generation system. The storage batteries can supply 23 hours of backup power to appliances using 350W of electricity (*1) or 17 hours of power to appliances using 450W of electricity (*2). Using the storage batteries alone, homeowners can maintain their daily power needs for more than 12 hours. Sekisui House has set a three-month sales target of 150 eco-homes.

GS Yuasa will continue to leverage its long-accumulated storage battery and power supply technologies to support a higher quality of life with greater comfort and security, while lowering society’s burden on the environment.

*1: Estimates assume 200W refrigerator and 150W LCD TV.

*2: Estimates assume 200W refrigerator, 150W LCD TV, and 100W room lighting.

Storage Battery Features:

1. Superior Cycle Life Performance

- Spherical silica is used as an electrolyte retention material for the long-life, clad-tube style vented lead-acid battery. This makes it possible to maintain the life performance in a sealed state.
- Battery achieves a life performance of 4000 cycles at a discharge depth of 50%, making it ideal for storage of photovoltaic generated power.

2. Superior Safety

The highly safe and secure design ensures that there are absolutely no unnecessary spaces within the battery, completely eradicating the possibility of a build up of flammable gases or rupture points occurring from fire ignition.

3. Low-maintenance Design

Low-maintenance design features a valve regulated system which does not require water refilling or specific density measuring. In addition, with the horizontal design, the battery contacts face forward to make maintenance easier.

Battery Specifications

Item	Specification	Reference
Product name	SLC70-4V	
Number of cells	64	32 units
Nominal capacity (Ah)	70	10-hour rate
Power capacity (kWh)	8.96	
Nominal voltage (V)	128	
Mass (kg)	about 352	about 11kg per unit
Battery type	Granular powder clad, valve-regulated type lead-acid storage battery	

Image: SLC70-4V granular powder clad, valve-regulated type lead-acid storage battery

