





# SCiB™ Application Example



## Customer Information

<b>Customer</b> 	<b>Hino Motors, Ltd.</b>	<b>Location</b> 	<b>Japan</b>
<b>Application</b> 	<b>Battery energy system for Hino Profia Hybrid</b>	<b>Product</b> 	<b>SCiB™ cell</b>

## Challenge



SCiB™ has been chosen by Hino Motors Ltd for its "Hino Profia Hybrid" heavy-duty truck. This is Hino's latest heavy-duty truck equipped with a hybrid system that uses large kinetic energy harvested during deceleration, particularly when travelling downhill, to charge the battery. The truck uses the charged energy in an electric motor to drive at constant speed on the flat and to support a gasoline engine on climbs to reduce fuel consumption. Consequently, SCiB™ contributes to enhanced fuel efficiency.

## SCiB™ Solution

### Long Life

- SCiB™ is ideal for applications that perform frequent charging/discharging such as commercial vehicles, with only a small amount of capacity degradation, even after more than 20,000 cycles of 60A charging and discharging.

### High Input & Output

- SCiB™ can instantly input and output high energy, making it ideal for large, heavy hybrid vehicles with high levels of kinetic energy.

### Safety

- Using oxide-based materials (Lithium Titanium Oxide), there is a very low risk of fire or explosion from internal short circuits caused by external pressure or other factors. SCiB™ is suitable for a wide range of applications requiring high levels of safety and reliability, such as automobiles.

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