

GREEN GEM is the smart alternative to conventional Re-gen.

Green Gem is a high efficiency bi-directional DC/DC convertor, integrating an energy storage module of Ultracapacitors.

A very simple connection of the unit to most VVVF drives is enough to transform the lift to a regenerative one with storage.

How Green Gem Works

The unit stores what would otherwise be wasted energy on a regenerative trip and returns it back to the VF drive to be utilised on the next journey.

Energy savings up to 70% with no harmonic distortion and negligible stand-by consumption with a simple two wire connection to many new and existing VF drives.

With a simple connection to the DC Bus of the VF drive the system automatically analyses and stores the regenerative energy in the ultracapacitors. The system then continues to analyse the DC Bus and returns the power when there is a consumption requirement.

The ultracapacitors modules offer better power density and life cycling features than that of batteries.

Therefore, they are the best possible solution for fast charging and discharging applications such as in lifts.

- Ultracapacitors require no maintenance
- Simple integration both in new & existing lifts
- Easy Install



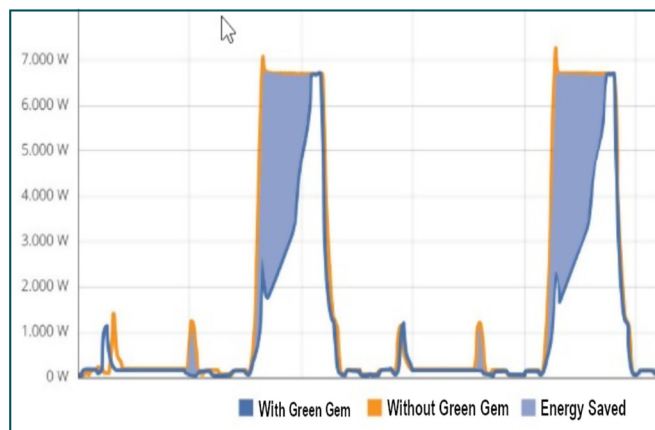
Before: Excess Energy Lost Through Braking Resistors



After: Braking Resistors Showing Reduced Loss Of Energy Now Stored By Green Gem

- **Green Gem Part Number: 02.08.0011**
- **UK Stock - next day delivery**

Powering A Cleaner Tomorrow, One Lift At A Time ...



GREEN GEM Vs REGEN	GREEN GEM	REGEN UNIT	GREEN GEM ADVANTAGES
Retrofit	✓	✗	It is possible to install the Green Gem to any existing lift with a VF inverter without modification and regardless of size.
Standby	✓	✗	Green Gem is between 150% to 170% more efficient with regards to standby power, requiring only 3W.
Simplicity	✓	✗	Green Gem is easily wired to the DC bus. Regen options require extra filters for feeding back to the mains.
Real Savings	✓	✗	With Green Gem fitted the lift consumes less energy.
EMC	✓	✗	Green Gem works in DC reducing the consumption and harmonics of the installation.
Net Metering	✓	✗	Independent of the net metering policies per country, Green Gem is always going to mean real savings.
Installation	✓	✗	To fit a Green Gem, installation time is significantly reduced compared to fitting a traditional Regen.
Sizing	✓	✗	Green Gem must be sized in relation to the power generation and not the consumption. The Regen solution must be sized according to the consumption.
Availability	✓	✗	All Green Gem units are the same size and are stocked at Global1Partners for next day UK delivery.

Green Gem offers a direct reduction in your lift's energy consumption and carbon footprint, setting it apart from traditional regenerative systems that feed power back to the National Grid.

Unless a feed-in tariff is in place (and these are often significantly lower than standard electricity rates), conventional regen systems typically provide little or no financial return.

In comparison, Green Gem delivers tangible, on-site savings by cutting your actual kWh usage and with it your Carbon Foot Print.

While the unit does involve an upfront cost, it represents a long-term investment in energy efficiency, sustainability and cost reduction. It also supports your carbon reduction objectives and helps protect against future increases in energy prices.