

aggreko


OUR PRODUCTS

Aggreko 30 kVA and 60 kVA batteries

Energy storage designed to
deliver high impact – and
low emissions.

MGW 1440 kg

aggreko

I STORE ENERGY 



As a part of our Greener Upgrades initiative, Aggreko aims to lower your emissions and operating costs with intelligent, flexible energy storage solutions tailored to your needs. Our modular and mobile 30 kVA and 60 kVA batteries increase reliability, slash energy consumption, and reduce emissions for improved operational performance.

- Aggreko's smart energy storage solutions include modular and mobile 30 kVA and 60 kVA batteries. These batteries are adaptable, meaning you can easily integrate them into your energy system for a sustainable, efficient power supply.
- Our batteries can be used in various industries, including events, contracting, data center construction, petrochemical and refinery, renewables, and oil and gas.
- Flexible maneuverability options include forklift pockets, a lift, a drag skid, and a lifting ring for easy access and use.
- Variable loads on site are no longer a problem. Our batteries improve reliability and energy efficiency – without the need for any additional CAPEX. In addition, our remote monitoring and load adjustment capabilities contribute to deeper performance insights and greater control.



- Our batteries are data-driven, providing complete visibility into energy consumption and performance. In addition, they're equipped with intelligent on-board energy control modules that communicate with the generator for maximum efficiency.
- Our expert technical support team is available around the clock to provide power consumption and operational recommendations. Fast installation and commissioning are included, and it's easy to integrate the batteries into the entire Aggreko ecosystem.

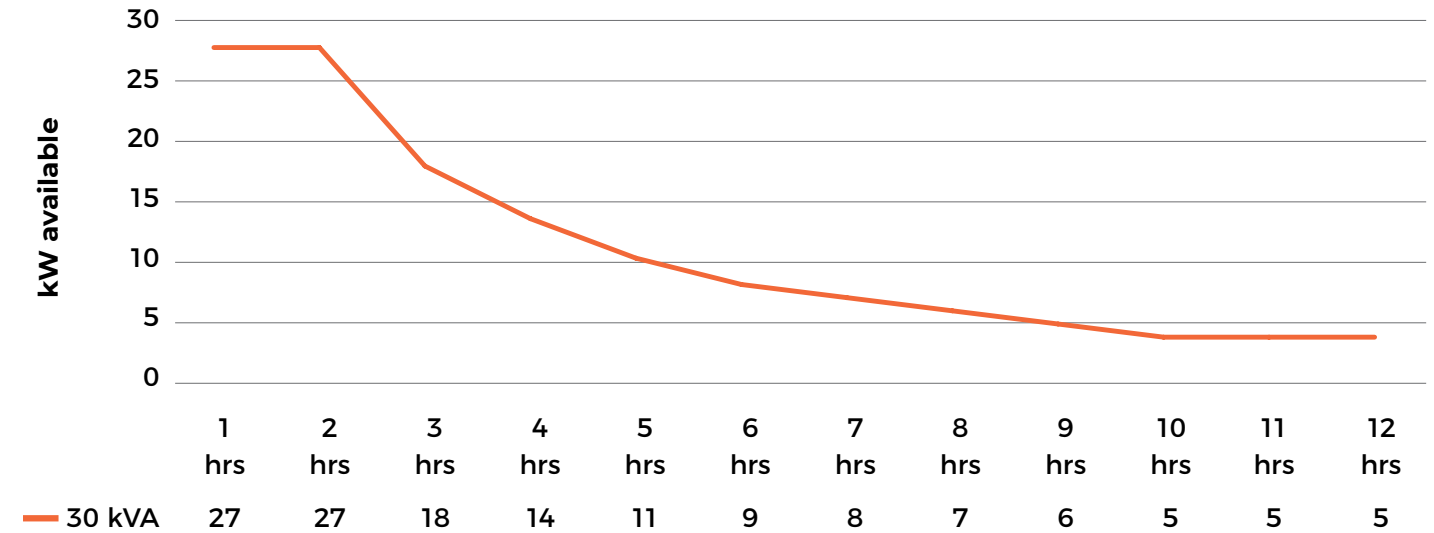


Key benefits

- Three-hour charge time (within nominal temperature range)
- Project a greener image to your customers and stakeholders
- Meet emissions regulations – and avoid hefty fines as a result
- Wide ambient temperature range
- Save on fuel (and in turn reduce costs)
- Lower noise
- Reduce maintenance requirements
- Increase operational reliability
- Reduce generator run time
- Manage variable loads and reduce light loads



30 kVA capacity vs usage



Product specifications

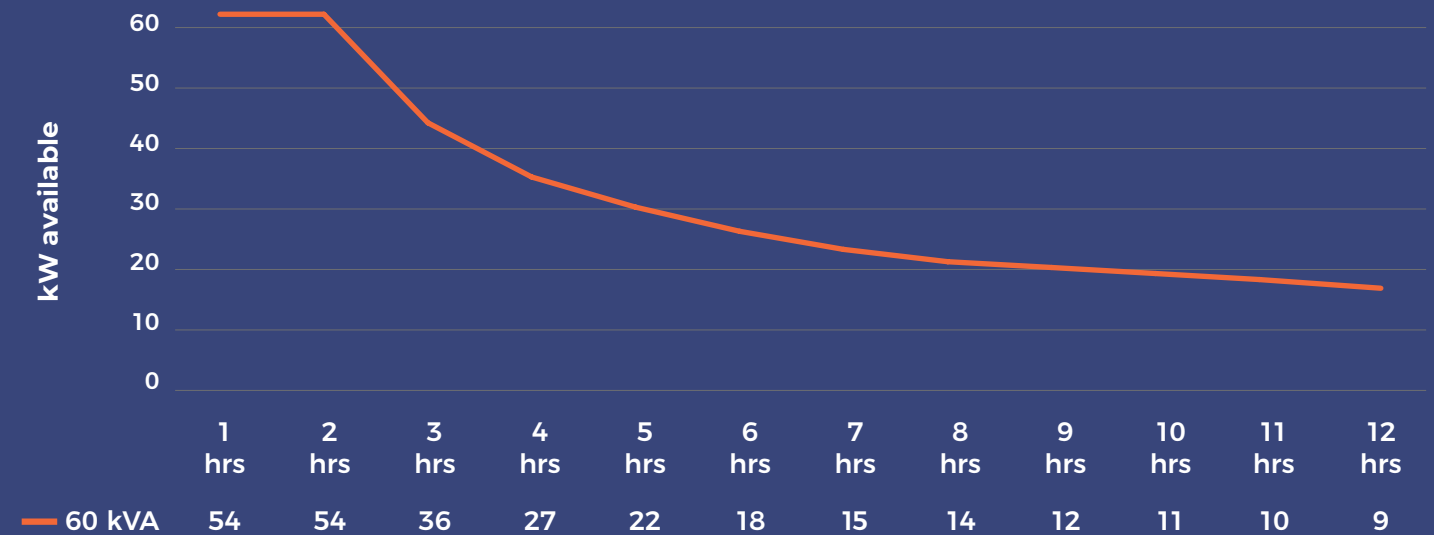
30 kVA battery

Voltage	120 V 1 Phase Voltage Nominal 208 V 3 Phase Voltage Nominal
Length	44 in (1140 mm)
Width	57 in (1450 mm)
Height	59 in (1580 mm)
Weight (Gross)	3000 lbs (1360 kg)
Weight (Net)	3000 lbs (1360 kg)

60 kVA battery

Voltage	120 V 1 Phase Voltage Nominal 208 V 3 Phase Voltage Nominal
Length	88.5 in (2250 mm)
Width	51 in (1300 mm)
Height	81 in (2065 mm)
Weight (Gross)	5950 lbs (2700 kg)
Weight (Net)	5950 lbs (2700 kg)

60 kVA capacity vs usage



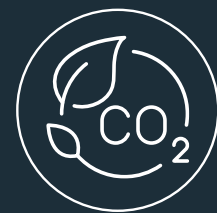
Greener Upgrades: For a healthier business and a healthier planet



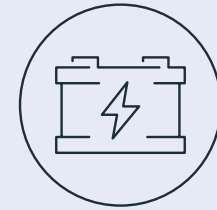
Aggreko's Greener Upgrades initiative has been developed to support our customers in making greener choices that are kinder to the environment.

These small shifts significantly lower regulated emissions like NOx, particulate matter (PM), and CO. Also, CO₂ emissions can be reduced by minimizing fuel consumption and utilizing environmentally friendly biofuels.

Our investment in new technology delivers solutions that improve efficiencies and lower costs.



With a decade of experience in energy storage and tested technology, Aggreko is poised to help customers reduce their carbon footprint and integrate green principles into their daily business operations.

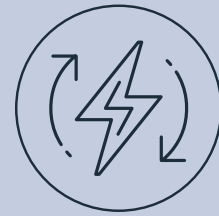


How can our batteries help you?

- Increased pressure on emission regulations** – We can help you minimize fines caused by operating outside emissions compliance.
- Decarbonization Goals** – If you have goals related to reducing emissions, we can help you while ensuring energy efficiency.
- Decrease fuel consumption on sites,** resulting in lower energy costs.
- Variable loads on-site** creating reliability concerns – Our batteries can handle sudden demand increases.
- Avoid CAPEX spending** by utilizing rental batteries.



Our sectors



Renewable energy

Our batteries power your pathway to emissions-free energy. We work with turbine manufacturers, wind farm operators, and contractors to keep the equipment healthy and clean energy flowing.



OUR PRODUCTS



Events

Reducing emissions is often overlooked when managing a large, complex event. Aggreko storage solutions can help. Power your event with sustainable, noise-free energy that keeps the party going.



Data centers

Keep your data center running with clean, reliable power. From providing resilient data center power during maintenance to cooling data center environments, we can help with our portfolio of modular, noise-free batteries.



Building services and construction

Aggreko's battery-based hybrid power solutions minimize the need to utilize thermal sources of power generation. With an Aggreko hybrid power solution, companies can overcome these business challenges more easily while promoting an image of social responsibility to the world at large.



Petrochemical and refining

For the PC&R industry, incorporating batteries can be a significant step toward sustainability, helping to project a more environmentally conscious public image with green principles at the forefront. Additionally, battery-based solutions can provide reliable, emission-free energy for specific processes while reducing diesel fuel costs.

Replacing diesel with battery power delivers cheaper and more environmentally friendly energy during turnarounds



CUSTOMER

One of the biggest petrochemical producers in the US

LOCATION

Baytown, Texas, USA

SECTOR

Petrochemical and refining

THE SOLUTION

Replacing diesel with low-emission battery power

We installed a hybrid solution consisting of a 30 kVA battery and just the backup generator to recharge it. Instead of running off diesel 24/7 as the old solution did, this would allow them to run off the battery for most of the time, only using diesel when the battery needed to be charged.

Our remote monitoring service (ARM) ensured that we pro-actively captured data throughout the project to guarantee safe and reliable operation. As well as enabling us to fix any issues before they affected performance, this data would give us valuable insights to help improve future performance.



THE CHALLENGE

More cost-effective refinery turnarounds

The customer requested a traditional diesel generator setup to keep them powered during the turnaround. This incorporated a continuous 60 kW generator with a redundant backup and a fuel tank. The total cost of this application would be \$15,000 per month for equipment and fuel – a considerable expense when each turnaround could last for several months.

As part of our consultative and partnership approach, we began to explore replacing the historical package with a more cost-effective and environmentally friendly solution.

At the same time, it was critical that the new solution could provide the highest levels of reliability and safety throughout the turnaround in order to protect operations and staff.

KEY FACTS

\$69,000

Estimated savings per year

2x

Less maintenance required

82%

Emission reduction

BEFORE

- Turnarounds powered 24/7 by diesel
- High emissions
- High fuel and maintenance costs
- Increased failure points

AFTER

- Diesel fuel reduced to just two hours per day
- Emissions lowered by 82%
- Significantly reduced fuel and maintenance costs
- Increased reliability

THE IMPACT

Significant savings and reduced emissions with hybrid power

The customer was estimated to spend over \$9,000 per month on fuel, due to the diesel generator running 24/7. Running the generator for only 2-5 hours daily reduced fuel use to just \$2,400 per month.

The maintenance costs were also much lower as when the generator was running 24/7 it needed to be brought down and maintained every two weeks. With much less usage as part of the hybrid

system, this maintenance only needed to be carried out every nine weeks.

Overall, this led to total savings of almost \$8,000 per month.

The data captured by ARM also enables us to carry out analysis that will lead to even greater savings in the future as we can improve the sizing or recommend alternative applications.

Using battery power to reduce the costs and emissions at a major sporting event



THE SOLUTION

Cutting-edge battery power technology alongside traditional generators

We identified two areas where the customer could make use of battery power – a security office that required 24/7 power and a larger office used for the general administration of the tournament.

A total of three 30 kVA batteries were installed alongside the generators that were previously used for the tournament. This would allow the facilities to be powered mainly

by batteries, with the generators only kicking in when the batteries needed to recharge.

We also installed our remote monitoring solution to deliver full telemetry information on all the equipment. This enabled us to see the exact status of each battery and its charging condition and pre-empt any potential issues before they caused a problem.



CUSTOMER

International golf tournament

LOCATION

South Carolina, USA

SECTOR

Events

THE CHALLENGE

Cleaner, cheaper power

This golf tournament is one of the most significant events on the sporting calendar. It takes place in a different location every year and requires reliable power in the build-up to and throughout the week-long event.

We have been providing power for this tournament for the last two decades. As a trusted long-term partner, we regularly

review the setup and requirements to ensure the most efficient, economical, and environmentally friendly solutions are in place. In this instance, we wanted to help them utilize the latest battery technology that would help them reduce both costs and emissions while still giving them complete, reliable energy coverage.

KEY FACTS

3 x 30 kVA
Batteries

90%
Reduction in diesel generator usage

\$2,000
Fuel costs saved per week

BEFORE

- 24/7 Diesel power
- Fuel costs of over \$2,500 per week
- Regular generator maintenance

AFTER

- Majority of power provided by batteries
- Fuel costs reduced by \$2,000 per week
- No generator maintenance is required

THE IMPACT

Minimum generator usage, maximum fuel savings, and low emissions

The batteries were able to provide the vast majority of the required power to the sites and took just three and a half hours to recharge. This meant that the generators only needed to run for around nine to 10 hours per week during these charging periods.

This provided fuel savings of approximately \$2,000 per week over the four months they were rented.

And as the generators were being used much less, they didn't need to be serviced at all during the rental period, delivering more savings to the customer.

Our remote monitoring service ensured we could pro-actively fix any issues and guarantee the effective performance of the equipment throughout the rental period.

Aggreko's battery power solution significantly cuts generator runtime and fuel costs

CUSTOMER

Miami Botanical Garden

LOCATION

Miami, Florida

SECTOR

Events

KEY FACTS

2 x 70 kW
Generators

\$32k
Total reduced fuel costs

1 x 30 kVA
Battery power for the event

75%
Less fuel consumption

1 x 60 kVA
Battery power for the event

70%
Less diesel generator run-time

THE CHALLENGE

Long generator runtimes affecting the budget

Miami is home to a magical light experience at one of their tropical botanical gardens. This 23 acre garden has been transformed into an enchanting illuminated light experience.

However, the event was running off two parallel 200 kW diesel generators that were burning fuel 24 hours a day. This meant the fuel costs were through the roof and were affecting the budget

to the point that the customer had to consider closing the project.

The event managers came to Aggreko as a trusted partner to see if they could find a way to decrease costs and emissions, while still being able to provide the power necessary for the show's lighting effects

THE SOLUTION

Utilizing battery power to keep the lighting effects running

Our expert engineers identified a need for a battery power solution that could take a portion of the two generators' load.

We brought in a 70 kW generator paired with a 30 kVA battery solution for one section of the event, alongside a 70 kW generator and 60 kVA battery solution for the other section. These solutions acted as the main power source for the lighting show.

These solutions were set up so that when the batteries got to 25% of their power capacity, the generators would turn on, take over the generation of power for the show, and simultaneously charge the batteries.

As this experience was situated in a botanical garden, noise and diesel fumes were an issue. With this battery-powered solution, we significantly reduced these concerns.



BEFORE

- 24-hour diesel power
- Fuel costs totaling over \$18,000 per month
- Event on the verge of being cancelled
- High emissions and fuel costs

AFTER

- Most of the power is now provided by batteries
- 75% less fuel consumption
- 70% less diesel generator run-time

THE IMPACT

A sustainability solution that keeps emissions low, and the lights on

Aggreko's eco-friendly battery solution lowered fuel costs by over 55% with the new generators lowering fuel consumption by 75%.

There was also the added bonus of lower emissions, reduced noise levels and diesel fumes, which was perfect for the peaceful botanical garden environment.

The reduction in costs allowed the event to stay open to the general public as well as helping the experience thrive with an environmentally friendly solution.

Aggreko became a trusted partner for the client, and after the initial project in 2021 the client was so happy with the results that they asked for Aggreko's help again in 2022.



Power **how** you need it,
when you need it, **where** you need it.

