

Engineered power solutions

Delivering smart solutions
that improve your efficiency,
costs and sustainability



Engineered power solutions for every operation



Expertise is built into how we deliver power.

We design, deploy and optimize engineered power solutions that help you improve efficiency, control costs and manage emissions.



Progress doesn't always require a full redesign. Often it starts with smarter choices about how energy is generated and used. Because every site is different, we integrate low-emissions technologies, sector expertise and ongoing optimization to deliver right-sized solutions that perform today and adapt as needs change.

Wherever you are on your energy journey, we meet you there – working at your pace, applying our expertise and moving quickly to drive reliable and impactful results.

Smarter energy.
Reliable outcomes.
Right sized for today.
Ready to scale for the future.

Delivering smart solutions that improve your efficiency, costs and sustainability



We design, deploy and optimize energy solutions that improve efficiency, control costs and manage emissions, without compromising reliability.

By combining proven technologies, sector expertise and ongoing optimization, we deliver smart, right-sized solutions that perform today and adapt as needs change.



Power solution configurations

WITH OFF-GRID POWER

Solution example 1:
Advanced diesel and gas power generation



Tier 4 final / gas

Solution example 2:
Cutting-edge hybrid power systems



Tier 4 final / gas
+ BESS / SCR
+ Alternative fuels

WITH GRID POWER

Solution example 3:
On-grid electrical distribution



Electrical distribution

Technologies and solutions

With off-grid power

TECHNOLOGIES



Tier 4 final (diesel) / gas generators

Fuel-efficient and low-emissions technologies designed to cut down on harmful pollutants, reduce costs and significantly improve efficiencies.



Hybrid power systems - Tier 4 final (diesel) / gas generators + BESS/SCR + fuel flexibility

This power system integrates low-emissions generators, renewable technologies (such as batteries and selective catalytic reduction (SCR) technologies), and cleaner fuels, bringing multiple power sources together in a seamless, self-contained package to achieve the greenest level of temporary power.

With grid power

TECHNOLOGIES



Electrical Distribution

System designed and delivered based on specific load requirements. It incorporates grid power and our electrical distribution equipment to distribute power safely and efficiently.

SOLUTIONS

1

Solution example 1:

Advanced diesel and gas power generation

Tier 4 final (diesel) / gas generator

- + Right sizing
- + Aggreko remote management
- + Fuel management and services

2

Solution example 2:

Cutting-edge hybrid power systems

Tier 4 final (diesel) / gas generator

- + Fuel flexibility
- + Right sizing (load on demand)
- + Remote monitoring services
- + Fuel management and services

3

SOLUTIONS

Solution example 3:

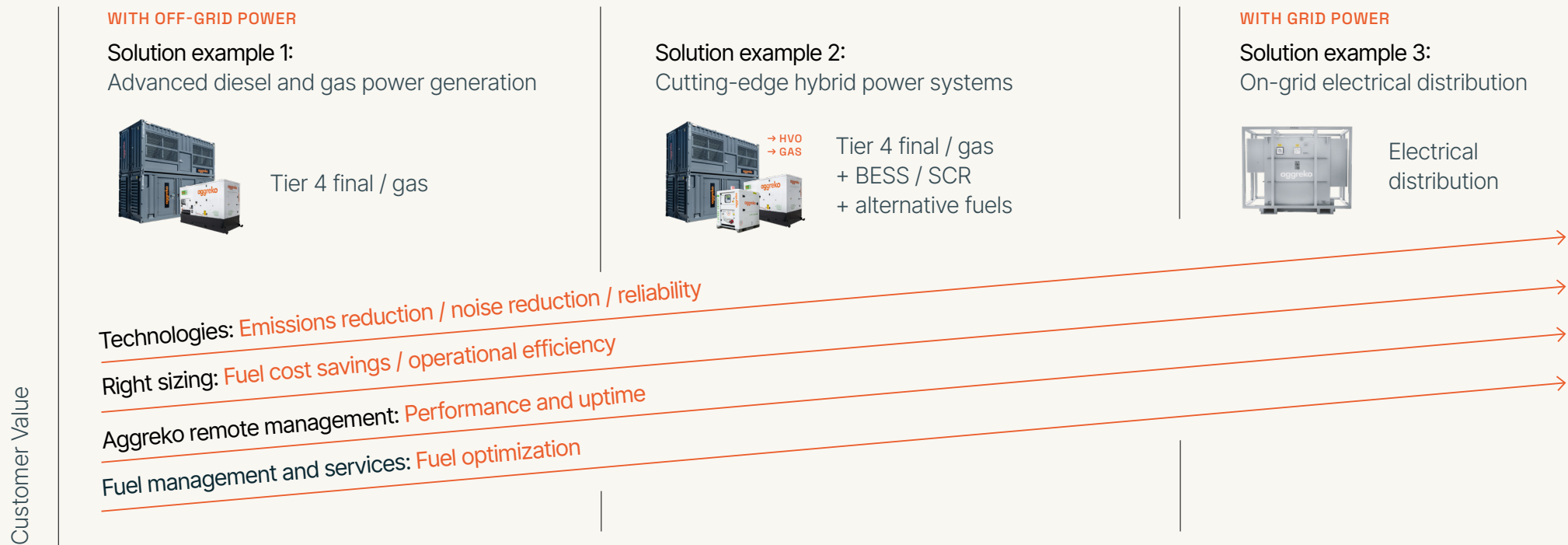
On-grid electrical distribution

Power solutions – engineered to deliver optimal value

→ Our power solutions integrate best-in-class technologies and expertly delivered services to meet your unique off-grid or on-site power requirements.

We recognize that a one-size-fits-all approach is insufficient for complex energy demands. That's why we focus on delivering the right power for your business.

Whether your strategic priorities involve reducing emissions and noise, optimizing fuel costs, or achieving superior levels of reliability and operational efficiencies, our power solutions are designed to deliver the versatility and value essential for achieving your specific objectives. The more comprehensively these solutions are integrated, the more significantly enhanced the benefits you will realize.



Technologies



Tier 4 Final generators

You need reliable power that can meet your energy goals. Our Tier 4 generators deliver it.

Our Tier 4 generators are designed to provide low-carbon and low-noise temporary power.

These generators use the same clean technology as modern car engines. They meet the toughest EPA requirements for diesel engines.

Need even lower emissions? We can run them on biofuels.

Your choice. Clean power. Quiet operation. Lower fuel costs. That's what Tier 4F delivers for your business.

Benefits:

98% less particulate matter than older generators.

96% fewer nitrogen oxides.

Quieter operation for your site.

Better fuel efficiency to cut your costs.



Battery energy storage systems (BESS)

You get backup power when your generator's off. Our battery systems keep you running.

How it works: Our automated system switches between your Tier 4F or gas generator and battery storage. Generator runs during peak hours. Battery powers your site at night or during low-demand periods.

You use less fuel. You get consistent power. You have full control.

Modular design means we size the battery system to match your exact needs.

Benefits:

Lower fuel costs: Generator only runs when needed.

Quieter operations: Battery takes over, generator shuts down, lower noise.

Uninterrupted power: Seamless switching between generator and battery.

Flexible operation: You control when to use which power source.

Technologies



Electrical distribution

You have grid power available?
We can connect you directly and cut your fuel costs and emissions to zero.

How it works:
Our electrical engineers test your grid capacity first. Then we design a distribution system that matches your exact power needs. You get grid power as your primary source, with generator backup when needed.

We handle the feasibility testing.
We design the distribution system.
You get reliable, efficient power.

Grid power where possible.
Generator backup when necessary.
Best of both worlds.

What grid connection delivers:

No fuel costs:
You use existing grid power.

Higher reliability:
Grid plus backup generator protection.

Maintained production:
Seamless power distribution to your operations.

Lower emissions:
Less generator runtime.



Alternative fuels – HVO

→ Our team assess your site's fuel availability and specific project needs to recommend the most cost-effective option, balancing cost, availability, and emissions for reliable power.

Beyond traditional diesel, we offer alternatives like natural gas, biodiesel, and waste oils where available. For eligible markets, Hydrotreated Vegetable Oil (HVO) is a high performance option made from biological materials, not crude oil, offering significantly lower emissions, smoother generator operation, and a versatile, effective fuel alternative that drives performance without compromise.



Your site has unique fuel needs.
We have the right fuel options to match.

What HVO fuel gives you:

Significantly lower emissions:

Cuts nitrogen oxides, particulate matter, and CO₂.

Cleaner burning:

Biodegradable, non-toxic, odor-free operation.

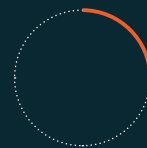
Better performance:

High cetane number means HVO is more easily ignited for smoother generator running.

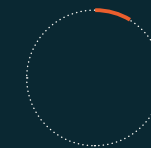
Versatile use:

Safe to use in a wide range of applications.

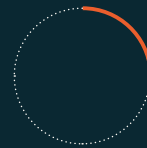
HVO vs. traditional diesel



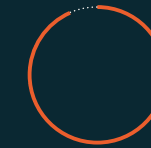
Up to 33% lower levels of fine particulates



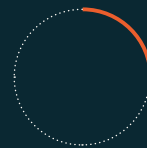
Up to 9% less nitrogen oxides (NO_x)



Up to 30% less hydrocarbons (HC)



Reduced levels of carbon dioxide (CO₂)



Up to 24% lower carbon monoxide (CO) emissions



Reduced levels of polycyclic aromatic hydrocarbons (PAH)

Right sizing – Load on demand

→ Use the energy you need, as you need it.

Our smart load management matches your power supply to your actual demand.

Generators turn on when you need them. When you don't, they'll automatically turn off.

You use less fuel and get the same reliable power, as needed.

Right sizing

Get the right amount of power. Not too much. Not too little.

Oversized generators waste fuel and money. Undersized generators can't handle your peak loads. We right-size your power system to match your actual needs.

What right sizing delivers:

Lower fuel costs:

No wasted capacity running 24/7.

Reduced maintenance:

Equipment runs at optimal levels.

Better reliability:

Generators operate more efficiently.

Flexible capacity:

Control use of power as your needs change.

Why generators get oversized

Several reasons drive oversizing:

Unknown startup loads:

Motors and equipment need extra power to start.

Safety margins:

Adding extra capacity "just in case".

Load growth planning:

Anticipating future power needs.

Inrush currents:

Electrical equipment draws more power initially.

Result? Your 100 kW generator runs at 30% capacity most of the time. That's expensive.

Right sizing – Load on demand



Load on demand

Multiple smaller generators beat one big generator.

Our automated system powers generators up and down based on real-time demand. Need 50 kW? One generator runs. Need 150 kW? Three generators kick in. Need 30 kW overnight? Battery takes over. Smart energy leads to efficient operations.

Automatic operation: **system is able to manage itself.**

Better fuel efficiency: **generators run at optimal load.**

Built-in redundancy: **if one generator stops, others keep you running.**

Lower emissions: **less fuel burned overall.**

[View the load on demand video](#) →

We size your power system based on your actual usage patterns. Not guesswork. Not safety margins that cost you money. Smart sizing delivers better results for your operations and your budget.

Smart monitoring

We monitor your power demand remotely. Our smart metering tracks your usage patterns and adjusts capacity automatically.

Real-time data helps us optimize your system for maximum efficiency.

Aggreko remote management

→ Aggreko remote management (ARM) captures equipment data and tracks performance 24/7. Real-time data helps us spot problems before they shut you down.

You get faster response times, better equipment performance, and lower operating costs. We handle the management of your solution. You get peace of mind.



Expert oversight

This data feeds directly into our Remote Operations Center (ROC), with skilled technical specialists and data scientists ready to review, anticipate, diagnose and resolve issues.

What you get:

Immediate alerts when critical performance issues arise.

Expert diagnosis from our technical team: Remote fixes when possible to minimize downtime.

On-site support dispatched when needed.

Proactive monitoring using equipment data to predict failures and resolve issues before they become problems.

Maximized uptime.



Your solution at your fingertips

To put the power into your hands, the Aggreko Connect portal and mobile app allows you to make informed decisions and maximize efficiency.

What you get:

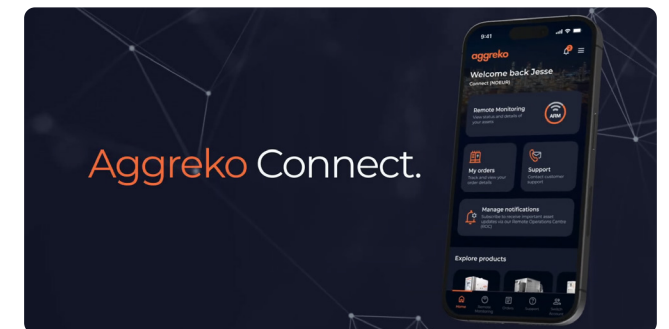
Monitor your rentals assets in real time.

Receive alerts from the ROC.

Download operational and emissions reports.

Manage your account.

ARM, ROC and Aggreko Connect work together for you. We don't just monitor your solution. We manage it.



Fuel management and services

→ Keep your operations running with fuel supply expertise.

We offer flexible fuel solutions that simplify logistics and ensure a continuous, reliable supply, keeping your operations on. With Aggreko as your fuel partner, you get hassle-free, expertly managed supply so that you can focus on what matters most: your business.

Every operation is unique. That's why we offer two distinct fuel supply options for your project:

Fuel management

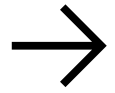
With this hassle-free, fully managed, end-to-end supply option, we use ARM's smart remote monitoring to automatically schedule refueling. We manage all logistics to ensure continuous supply, operating with Aggreko-owned tanks. We eliminate standard delivery fees and logistical burdens, integrate seamlessly with your Aggreko project, and include all costs. Optimized cost control, peace of mind delivered.

Fuel services

Beyond fuel management, our flexible, customer-directed fuel services deliver a reliable, high-quality supply tailored to your project. We offer routine, scheduled, or on-demand deliveries, customizable tank types, transparent pricing, and clear invoicing, ensuring convenient and seamless operations.



Conclusion



Our expertise.
Engineered power solutions.
Enhancing your operations.

We design, deploy and optimize the power you need. From our engineered power solutions to sector expertise, our team understands your challenges. We are here to deliver results that improve efficiency, control costs, and manage emissions.

Ready to get started? Visit aggreko.com or speak with your Aggreko specialist today.



Smarter energy.
Reliable outcomes.
Right sized for today.
Ready to scale for the future.

Contact us

→ 833 269 5714

aggreko.com