aggreko

Keep your world ON™
aggreko.com

Pure performance

Oil-free air compressors



OIL-FREE AIR COMPRESSORS

100% pure air protecting your people, processes and products

When air purity is critical, our oil-free air compressors give you sterile air on demand. 100% pure. 100% of the time. Protecting your people, processes and products with air that meets the strictest air quality standard, ISO 8573-1 Class 0.

People
Protect the safety and comfort of your people.

Processes
Run your operation knowing the air they use is 100% pure and sterile.

Products
Eliminate the risk of airborne oil contaminating your products or costly build-ups on your equipment.

Electric: cutting costs, maintenance and downtime.
Configured and built to Aggreko standards, our electric variable speed drive compressors run efficiently, cutting your energy costs. With no oil to worry about, there's less maintenance, less downtime and no need to dispose of oil or condensate. With zero emission, they help with your sustainability goals too.

Diesel: run independently.
When access to the grid is an issue, our Stage V certified diesel oil-free compressors are the answer. They are optimised for fuel efficiency and minimal emissions. When sustainability is a priority, they can also run on a range of biofuels such as hydrotreated vegetable oil.

ISO Class 0
Class 0 air quality guarantees 100% air purity. This new class was brought into existence to meet the growing demands for sterile air. It is the cleanest choice available and is highly recommended for applications where air purity is critical.



Oil-free air for your sector

Our oil-free air compressors can support your operations, from petrochemical and refining to shipping, manufacturing and offshore wind.

Whether needed as part of your daily operations, to resolve capacity challenges, for equipment testing, maintenance and turnarounds, or scaling up production, our mobile products can be installed on-site quickly and efficiently to cater for your needs.

Manufacturing

Compressed air is widely used across all industries and oil-free air is critical to sectors such as food and beverage and pharmaceuticals.

Automotive

Assembly	Robots and pneumatic tools for vehicle assembly
Pneumatic conveying	Used in pneumatic conveying systems to transport materials through pipelines
Pick and place	Used to generate a vacuum
Spray painting	100% oil-free compressed air for optimum spray-painting quality and finish
Laminating and testing of windshields	Used to cut, transport, laminate and test windshields
Wastewater treatment	Low pressure air is used to treat wastewater for the production process

Pulp and paper

Air bearings and castors	Enable effortless handling of heavy products
Roller adjustment	Control of roller thickness ensures efficient paper production
Drying and cooling	Essential for drying and cooling paper sheets
Air knives	Low-pressure air supply for moisture and debris removal
Surface treatment	Used to apply protective coatings
Printing	To operate printing equipment and pumps

Pharmaceuticals

Packaging	Essential for cleaning and drying packaging materials
Instrumentation air	Pneumatic conveying and control of numerous processes
Wastewater Treatment	Low pressure air treats wastewater during production

Food and beverage

Fermentation	Essential for cleaning and drying packaging materials
Transportation	Used to transport ingredients along the pipes whilst maintaining their purity
Cleaning air	Used for cleaning bottles, packaging and moulds
Cooling and spraying	Cools baked goods without contamination

Petrochemical

Instrument air	Used to control valves and pumps
Aeration	Oxygen injection and agitation for chemical processes
Air separation	Produce nitrogen in membranes
Hazardous processes	Vital to eliminate explosion risk in chemical processes
Fermentation	Compressed air supplies oxygen for bacteria during fermentation processes
Surface treatment	Applying protective coatings
Catalyst regeneration	Regenerate or remove spent catalysts
Wastewater treatment	Clean air plays a critical role in purifying water before it's used in manufacturing processes
Pneumatic transport	Transport powders along the pipework or keel level in a silo

Offshore/Shipping

Bubble curtains	Used to create protective bubble curtain to safeguard marine life
Pneumatic tools	Powering tools for ship maintenance and repair
Painting and surface treatment	Used for paint and resurfacing

Oil and gas

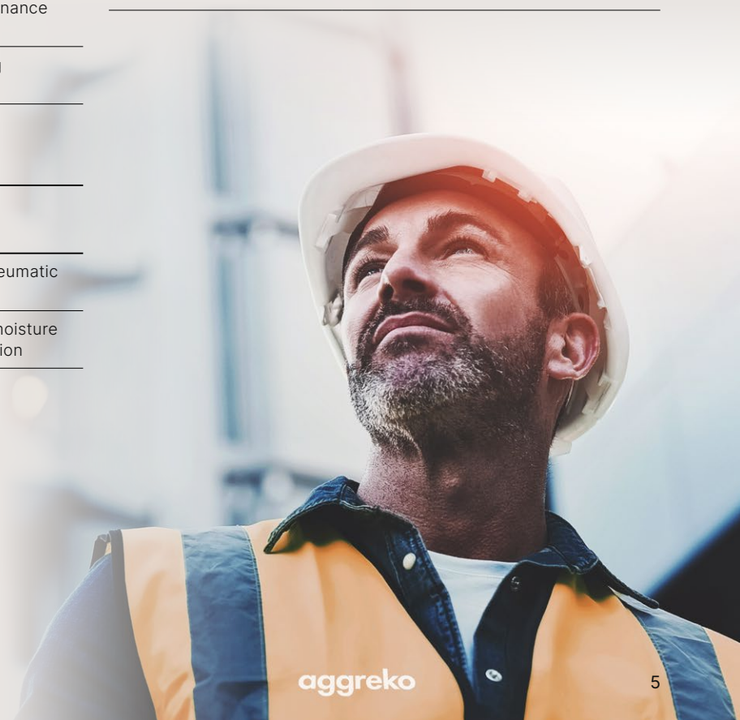
Instrument air	Used to control valves and pneumatic instruments
Pipeline, drying and purging	Removing contaminants and moisture to prevent damage and corrosion

Utilities

Instrument air	Operate pneumatic instrumentation devices
Soot blowing	Removing accumulated debris such as ash or soot from equipment like boilers and furnaces
Aeration	Inject oxygen and agitation for chemical processes
Nitrogen generation	Compressed air is used to generate nitrogen
Ventilation	Ensure sufficient airflow in the facility

Construction

Pipelines	Pressure testing and drying for pipelines
Driving equipment	Driving drilling or tunnelling equipment
Sandblasting	To remove paint, rust, or corrosion from surfaces
Painting and spraying	For applying even coatings to structures or surfaces
Wastewater treatment	Low pressure air is used to treat wastewater



Spotlight

Maintaining production uptime with temporary compressor solution for a food and beverage customer.

The on-site air compressors had failed at one of our customer's longest running factories in the UK. Global supply chain delays meant the parts needed to repair the compressors would take many weeks to arrive, creating a significant impact on operational efficiency, productivity and competitiveness.

Since air compressors are a critical element of the site's operations and with production downtime not an option, our customer needed a quick and efficient temporary solution.

Maximum speed, minimal disruption

Time was critical. Due to the urgency of reinstating production, we quickly arranged a site survey to fully understand the air volume and pressure required to tap into their existing network.

Our team created a tailored 100% oil-free air compressor and dryer solution, plus a generator package to power it all. Operating between 800 and 1600CFM with a pressure range of 4-10 bar, the compressor is designed and built to provide energy efficiencies with no large starting currents and low noise levels.

Housed within a CSC certified 20ft ISO high cube container, the unit is fully air cooled to enable a fast installation and minimal disruption for customers.

Efficient power, lower energy costs

We were able to deliver and install the solution within 24 hours. This enabled production to resume and avoided costly potential losses of up to £200,000 a day.

Our compressor was onsite for 8 weeks in total while repairs were carried out. During this time, the customer also benefitted from greater efficiency, zero emissions and lower energy costs.

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Oil-free air compressors from Aggreko



Electric VSD 800 cfm - 24m3/min

Air flow range	11 m3/min - 24m3/min
Max working pressure (bar)	10
Sound pressure level @ 1m	74 dBA
Dimensions (l x w x h)	6.58m x 2.44m x 2.59m
Weight (kg)	8900 kg
Motor rating (kW)	200 kW VSD
Air discharge temperature	+15°C above ambient (+/-5°C)



Electric VSD 1600 cfm - 45m3/min

Air flow range	22 m3/min – 45 m3/min
Max working pressure (bar)	10
Sound pressure level @ 1m	74 dBA
Dimensions (l x w x h)	6.58m x 2.44m x 2.59m
Weight (kg)	11900 kg
Motor rating (kW)	355 kW VSD
Air discharge temperature	+15°C above ambient (+/-5°C)



HVO/Diesel Driven Stage V 1550 cfm - 44m3/min

Air flow range	22m3/min - 44m3/min
Max working pressure (bar)	10
Sound pressure level @ 1m	84 dBA
Dimensions (l x w x h)	6.23m x 2.23m x 2.56m
Weight (kg)	9525 kg (wet) - 8165 kg (dry)
Motor rating (kW)	373 kW Stage V
Air discharge temperature	+10°C above ambient (+/-5°C)

Features and benefits

ISO Class 0 air quality

→ Guarantees 100% air purity

Variable Speed Drive (VSD) Technology*

→ Doesn't require large starting currents

→ Adjusts the motor speed according to demand which helps keep energy consumption low

High ambient operation

→ Operates effectively even in high ambient temperatures

Built in aftercooler

→ Integrated aftercooler to cool the compressed air

Acoustic enclosure

→ Quiet operation with noise levels as low as 74 decibels (dBA) at 1m

Built-in Aggreko Remote Management (ARM) technology

→ Easy monitoring and management

Containerised design

→ Housed in a 20ft container for ease of transportation

PN16 DN100 connection

→ For easy installation

24V DC Outlet

→ Can easily connect to a dryer

*Electric models only

Dessicant dryers

Aggreko can also support you with a dryer to work alongside our compressor fleet.

Max flow air capacity	Available up to 46m3/min
0.1 micron after-filter	Captures particles as small as 0.1 microns to avoid contamination
Particulate removal pre filters	Removes particulates and contaminants from the system / process
Compressed air dew points down to -70°C	Ensures no ice or condensate build up even when working with extremely low temp applications
Automatic condensate drains	Ensures there is no build up of condensate





Sustainable solutions and equipment

We're committed to offering flexible and sustainable power and temperature control solutions to support customers in making choices that are kinder to the environment. These actions help lower NOx, particulate matter and CO_2 emissions, and reduce fuel consumption.

→ Our investment in new technology, alongside our consultative approach, delivers sustainable solutions for our customers that improve efficiencies and lower costs.

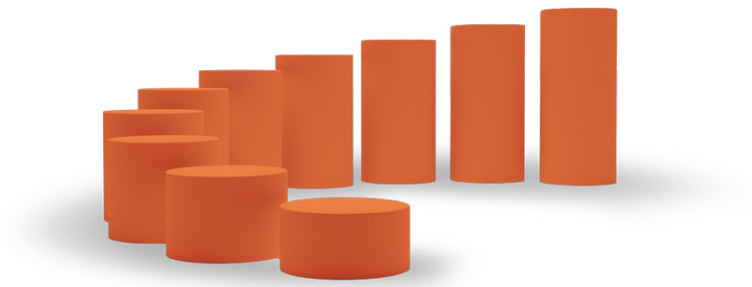
Load on demand

Load on demand is a smart solution that can be used to accommodate fluctuating demand, delivering scalable power when you need it most. The fully automated system can switch the engines on and off to produce only as much power as is needed for better efficiency, reduced fuel and lower emissions.



Rightsizing

Generators that are oversized or poorly matched for their chosen application will lead to inefficiencies. With PowerMX2, we can automatically rightsize to meet your demand to ensure greater efficiency and further reduction in carbon emissions.





Stage V generators

The UK's largest Stage V generator fleet, with models ranging from 30 kVA - 1250 kVA. These fuel efficient, low noise, low emission generators deliver your power needs without sacrificing performance.



Battery Energy Storage Systems (BESS)

Our battery fleet, from 45 kVA - 1 MVA, can be used across a variety of applications, enabling you to maximise your operational output whilst minimising downtime and emissions.



Steam boilers

We provide reliable steam on demand with our fast start-up equipment. Our coil steam boilers use less water, enhance safety, and reduce flaring issues, providing high quality dry processed steam.



HVO fuel

Our generators can run on biofuels including Hydrotreated Vegetable Oil (HVO) and B10. These can be used as drop-in fuels, significantly reducing carbon and other harmful emissions.



Lower GWP refrigerants

To support the transition to more environmentally friendly refrigerants, we are switching our screw chillers to R513A, significantly reducing the GWP of our industrial chillers by almost 60%.

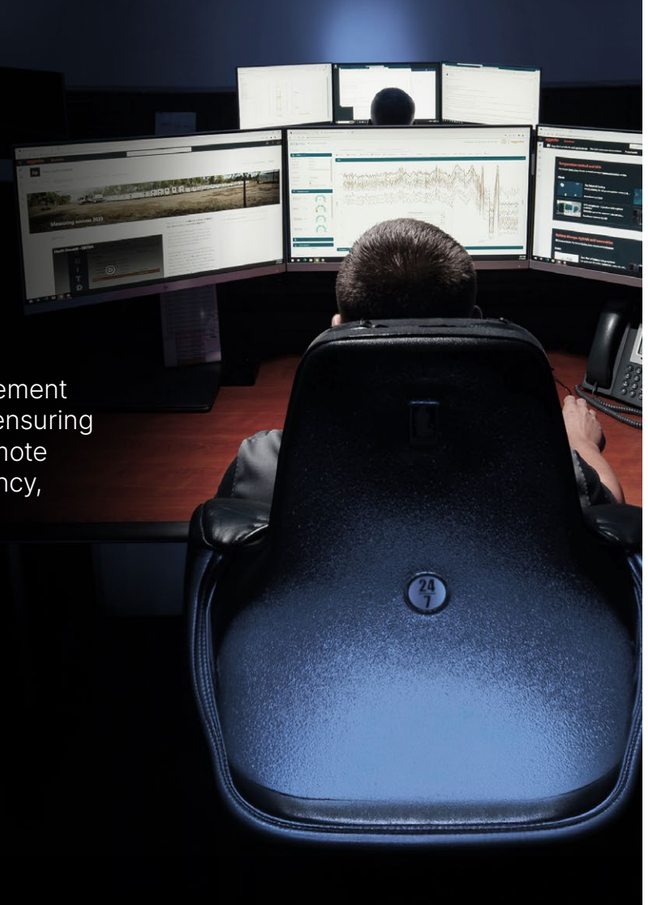


PowerMX2

Our fuel efficient, load-flexible, low emission generator. With two Stage V engines in one compact 20ft container for maximum power with reduced emissions and fuel consumption.

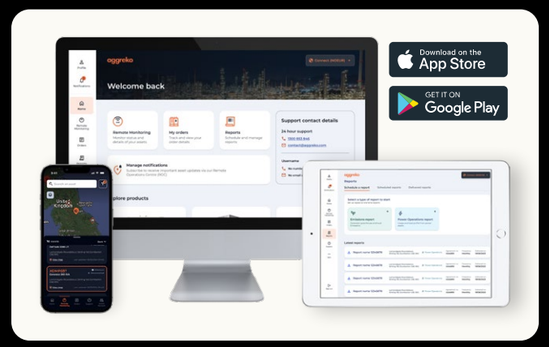
Support that never stops

Aggreko Connect and Aggreko Remote Management (ARM) give you confidence around-the-clock, ensuring your operations are never left exposed. Our remote engineers monitor system performance, efficiency, alarms and load conditions, allowing proactive intervention and maximum uptime.



Aggreko Connect

Aggreko Connect is your online hub providing access to all your information in one central place. It delivers insights into your business enabling you to maximise your operational efficiency.



With speed and simplicity, you can view equipment on-hire, review your orders, and through Aggreko Remote Management (ARM) even monitor kit performance.

It will also highlight should equipment stop or if a fault occurs so any issues can be remedied. These insights at your fingertips prevent downtime and deliver peace of mind.

Knowing how your equipment is operating is key to efficiency. With Aggreko Connect's reporting feature, you'll have access to more data including insights into carbon and local emissions and load profile and usage, so you can fully understand the capabilities of your energy solutions.

Aggreko Remote Management

Aggreko Remote Management keeps your world on. You can track performance of all your assets as the technicians and data scientists in our 24/7 Remote Operations Centre (ROC) monitor and manage your uptime.

One dashboard, all of your assets, all of the time. You decide who in your site teams has access to which equipment so they – and you – get push notifications and updates to keep you at peak performance.

We turn data into uptime. We draw on feeds from 23,000 assets deployed worldwide to identify signature signs of possible issues, dispatch a proactive response team to act fast and stop them slowing you down.

As well as live monitoring, on-demand, easy-to-read reports give you visibility of your whole solution and insights to optimise it. To track performance and trends. To find efficiencies, to save fuel, to evidence emissions and sustainability. To make data-driven decisions that help us rightsize and optimise your solution.

Don't just monitor your power and cooling solution. Manage it. With ARM from Aggreko.

You'll benefit from:

- → Round-the-clock remote monitoring services – 24/7 365 days a year
- → Rapid response to emergencies
- → Monitoring of key equipment data to enhance efficiencies

Choose Aggreko

Our team deliver a full service to our customers, from cables to kit, fuel to software. We work in partnership to help guide businesses through their energy challenges delivering power solutions that lower harmful emissions and reduce fuel costs in the process.

In conjunction with the right technology, we are committed to innovation and continue to test our equipment to maximise efficiencies. This insight along with experience and knowledge of our industry allows us to deliver the right solutions with optimum operating capabilities.

Talk to Aggreko today to see how we can support your business and deliver the following benefits:

Lower emissions
Helping you reach your carbon reduction targets

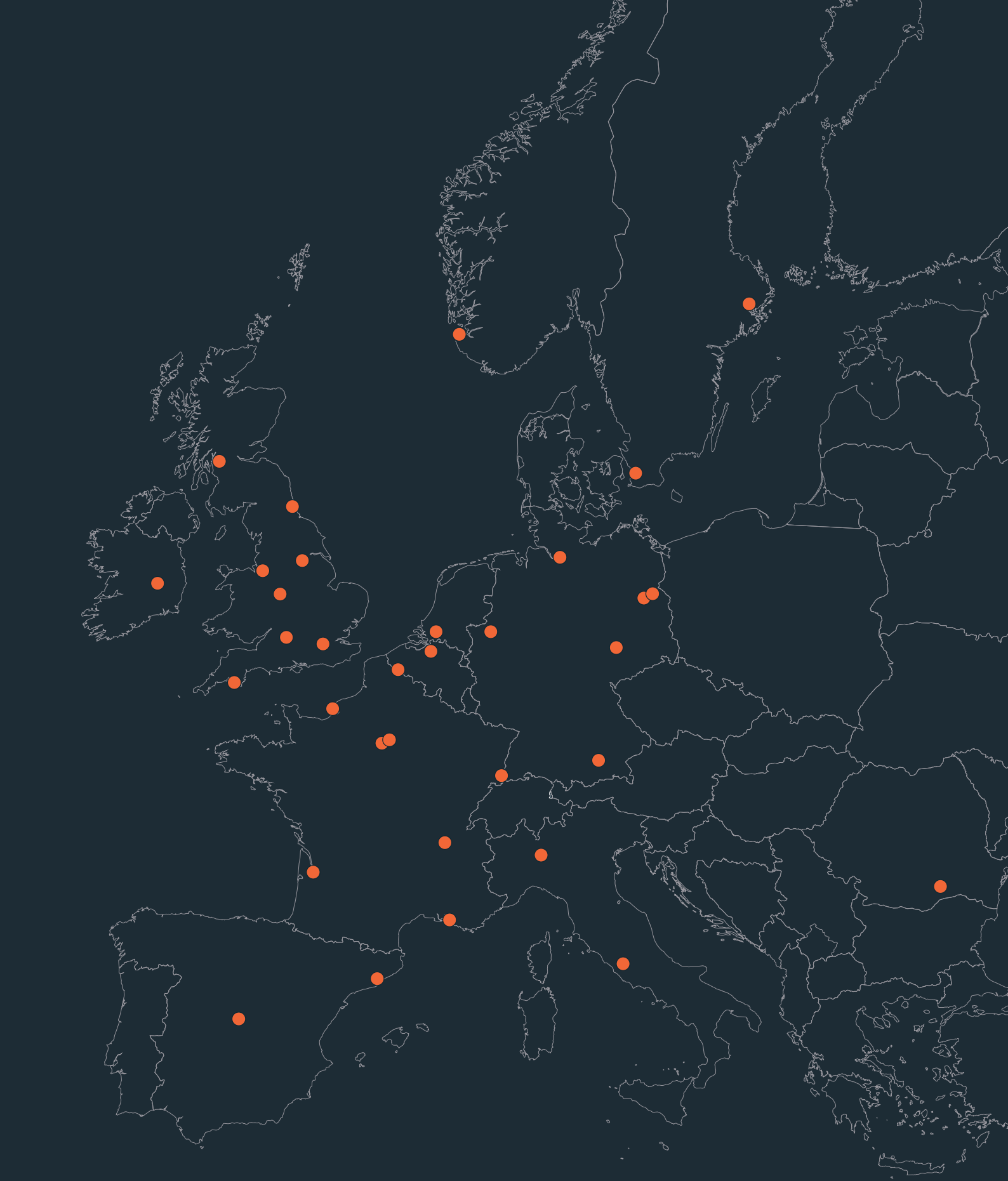
Reduced fuel usage and costs
Saving money on your bottom line

Turn data into uptime
Monitor and manage the performance and uptime of your assets with ARM

Low noise
Ideal for projects when sound needs to be kept to a minimum

Optimising energy usage effectively
Delivering greater efficiencies

Fast installation and commissioning
Plug and play with the entire Aggreko ecosystem, saving you time and hassle



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