

# GenAir

Sectors We Serve



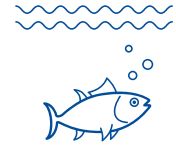
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## Sectors We Serve

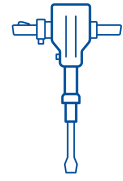
GenAir UK Limited supports a wide range of industries with reliable, high-performance air compressor rentals. Compressed air is a critical utility in these sectors, enabling everything from heavy construction work to ultra-clean manufacturing. Here, we focus on each sector we serve, the common applications of compressed air in that field, and the typical compressor solutions (oil-free or oil-lubricated, diesel or electric) used. We also discuss why many industries are moving toward electric compressors for greener, quieter operation. GenAir's rental fleet spans compact units to high-capacity systems in both diesel and electric drive, ensuring every sector can access the ideal solution for their needs.

## Aquaculture



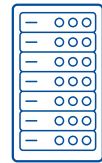
Aquaculture (fish farming and marine farming) relies on compressors to maintain water quality and healthy stock. Common applications include aeration and oxygenation of fish tanks or pens, powering bubble curtains that keep out algae or predators, and operating pneumatic feeders. Because compressed air in aquaculture is released directly into water, oil-free air is typically required – this avoids polluting sensitive marine environments. Aquaculture operations may use electric compressors when shore power is available (for example, land-based fish farms or hatcheries) to provide quiet, efficient air supply with no risk of fuel spills. In more remote or offshore installations, diesel-driven compressors are often used for their portability and independence from the grid. However, even in those cases, using electric units where possible is encouraged to reduce noise and eliminate exhaust around the aquatic environment. GenAir UK offers 100% oil-free portable compressors well-suited for aquaculture, ensuring clean, dependable aeration and bubble curtain performance to keep marine life healthy.

## Construction (General & Infrastructure)



The construction industry depends on robust compressed air solutions for a wide variety of tasks. On general building sites and large infrastructure projects, compressors power pneumatic tools such as drills, and breakers for concrete and roadwork, run sandblasting or shot-blasting equipment to clean surfaces, spray paint or concrete (shotcrete) in tunnelling and structural work, and even supply breathing apparatus in confined space jobs. Diesel portable compressors are most common on construction sites because of their mobility and ability to operate in remote locations without grid power. However, there is a growing push to use electric compressors on construction projects, especially in urban or enclosed environments. Electric units offer the same compressed air output with zero on-site emissions and much lower noise, which helps contractors meet low-emission zone regulations and reduce noise pollution on job sites. For example, indoor renovation work or tunnelling in populated areas might favour electric compressors to improve air quality and worker comfort.

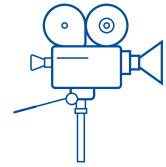
GenAir UK supports construction firms with a full range of rental compressors – from small 120 CFM mobile units for handheld tools up to large 1600 CFM machines for infrastructure projects. We provide tough diesel-driven units for remote, high-demand jobs and fully weatherised electric-driven alternatives for sites looking to minimize fuel usage and emissions, so construction projects can have reliable air power on every job.



## Data Centres

Modern data centres and IT facilities use compressed air in subtle but important ways to protect equipment and maintain a controlled environment. Compressed air can also help maintain positive pressure in server rooms (pushing outward airflow) to keep dust and contaminants from seeping in from outside. Given the sensitivity of electronics and the need for a clean environment, oil-free air is preferred in this sector to avoid introducing even trace oil or particulate into server rooms. Data centres typically install small electric oil-free compressors as part of their facility infrastructure, since power supply is readily available and electric units provide clean, quiet operation with high reliability. Using electric compressors means no exhaust fumes (which could trigger particulate alarms or contaminate air handlers) and very low noise, important for facilities that often operate 24/7 in populated buildings.

GenAir UK offers data centre operators oil-free electric compressor rentals that can be rapidly deployed during maintenance or emergencies, ensuring critical cooling and air systems stay running without compromising the ultra-clean, reliable atmosphere that IT equipment requires.



## Film & TV

In the film, TV, and entertainment industry, compressed air finds many uses both on set and behind the scenes. Special effects crews often employ compressed air to create dramatic effects – for example, air cannons can launch debris or even stunt performers safely through the air to simulate explosions or superhero jumps. Pneumatic actuators may animate props and set pieces, giving physical effects a lifelike motion. Electric compressors are popular in studios and soundstages since they operate with minimal noise and zero exhaust. On location outdoors, diesel compressors might be used for large effects or construction tasks. More production companies are considering electric or hybrid compressors for on-site use as well, aligning with green initiatives and simplifying logistics (no refueling during a long shoot).

GenAir UK supports the film and TV sector by providing quiet, emission-free electric compressors and clean air delivery systems. These rentals give special effects and production teams the air power they need with the reliability and safety required on professional sets – whether it's a small unit for an indoor stage or a high-capacity compressor for an outdoor action sequence.

## Food & Beverage



The food and beverage industry uses compressed air extensively throughout production and packaging processes, and it has some of the strictest air quality requirements. Cleanliness is paramount – compressed air often comes into direct contact with foods, ingredients, packaging materials, or surfaces that touch the product. For example, breweries and bottling plants use air to blow-clean bottles before filling, bakeries use air jets to move ingredients or finished goods, and food packaging lines use pneumatic cylinders and pick-and-place machines to handle products. In beverage plants, compressed air powers conveyors, filling machines, capping equipment, and even aerates liquids in fermentation. Because of these uses, 100% oil-free air is typically mandatory to avoid any risk of product contamination. Many food and beverage manufacturers insist on Class 0 oil-free compressed air so that no oil vapor can ever taint the taste or safety of their products. Even a small amount of oil carryover from a compressor could spoil a batch of food, create off-flavours, or force a costly recall, so the industry widely opts for oil-free compressor technology as a preventative measure. In terms of equipment, most facilities have large electric oil-free compressors installed on-site, providing the plant's base load of air quietly and efficiently. Electric compressors are ideal in this sector since they generate no exhaust (crucial for sanitary areas) and run steadily to meet continuous production demands. Diesel-driven compressors are used in temporary situations – for instance, a rental diesel oil-free compressor brought in during an emergency outage or for extra air during seasonal peak production. Whenever feasible, food companies will choose electric rental units or standby systems to maintain their air quality and comply with strict health standards.

GenAir UK's fleet includes a range of class zero certified oil-free compressors (both diesel and electric options), ready to be dispatched for food and beverage producers. Whether it's to cover a planned maintenance shutdown, provide extra capacity for a new product launch, or respond to an unforeseen compressor failure, our rental solutions deliver pure, dry air that keeps production safe and running smoothly.

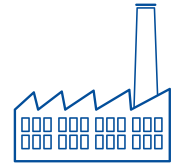


## Air Compressor OEM & Distributors

Air Compressor Original Equipment Manufacturers (OEMs) and their distributors rely on GenAir to provide the temporary equipment they require to get their clients up and running in the event of a failure of the installed compressed air system on site or to cover planned maintenance and upgrades of the client's own equipment. GenAir's wide range of equipment covering diesel and electric drive compressors in both standard and 100% oil free variants, along with a comprehensive range of ancillaries means we are in the ideal position to support our partners in the compressed air industry. In addition to GenAir's fleet, we also have the technical knowledge and experience to engage with both the manufacturer and client to ensure that even the most complex of projects are seen to fruition with the minimum of downtime for the end user.

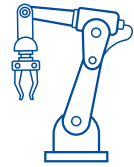
GenAir UK can deliver turn-key solutions in this area, from a single 22kw electric unit for a small production line test, up to multi-thousand CFM oil-free packages to temporarily replace an entire compressor house during a facility upgrade. Our goal is to keep the customers' production on track with the right air, at the right specification, at all times.

## Manufacturing (General)



General manufacturing covers a broad spectrum of industries – from metal fabrication and automotive assembly to textiles, plastics, and consumer goods – all of which rely on compressed air as a versatile utility. In these settings, compressed air powers pneumatic tools and machinery on assembly lines, such as impact wrenches, stampers, presses, and robot arms. It's used for material handling (like ejecting parts from moulds, or conveying items via air jets), for spray painting and coating products, for cooling and drying parts, and for cleaning debris off workpieces or equipment. Given the diverse uses, many manufacturers traditionally use oil-injected compressors as the workhorse of their plant air systems – oil-lubricated rotary screw compressors are efficient and robust, providing high volumes of air for general needs. Any required air quality improvements (for example, removing moisture or oil particles) can be achieved with after-filters and dryers downstream. However, when certain processes in the factory need cleaner air – such as a paint booth or a food packaging area within a larger facility – then oil-free or well-filtered air will be supplied to those specific lines to protect product quality. In terms of power source, electric motor-driven compressors are standard in most manufacturing plants for continuous operation and energy efficiency. When a plant requires additional air on a temporary basis (for instance, during a maintenance, an expansion, or after an unexpected compressor breakdown), they might rent a diesel portable compressor for quick deployment. Diesel units are advantageous for short-term use or if a suitable electrical connection for a large compressor is not readily available. They are positioned outdoors and connected to the factory's air system swiftly. But if the facility has the infrastructure, an electric rental compressor is often preferred – it can run quietly on site power and will cost less to fuel (using electricity instead of diesel) while eliminating exhaust emissions. Manufacturers are increasingly mindful of sustainability and worker comfort, so the appeal of zero-emission, low-noise electric compressors is growing.

GenAir UK serves general manufacturing clients with reliable rental solutions of all kinds. We respond quickly in emergencies to get production running again, and we offer tailored packages (diesel or electric, oil-free or standard) to suit each manufacturer's operational and environmental requirements. From a small workshop needing a two-week rental to keep up with orders, to a large automotive plant seeking additional oil-free air during a paint shop upgrade, GenAir provides the expertise and equipment to keep manufacturing moving.



## Ultra-Clean & Precision Manufacturing

Some industries require the ultra-clean, precision-grade compressed air, where even the slightest contamination or pressure fluctuation can impact product quality. This category includes sectors like semiconductor fabrication, electronics and microchip manufacturing, optical lens and equipment production, aerospace component assembly, and any advanced manufacturing done in cleanrooms or to extremely tight tolerances. In these environments, compressed air is used for operating precision tools and robotics, purging and drying parts, controlling pneumatic actuators in clean production lines, and often for environmental control (maintaining pressurization or filtering air in cleanrooms). Oil-free, dry air is absolutely essential in precision manufacturing – the air must be devoid of oil vapor, particles, and moisture that could ruin sensitive electronics or introduce defects. For example, semiconductor fabs use Class 0 oil-free air for wafer handling equipment and to blow off particles, because a single drop of oil or water on a silicon wafer can destroy circuits. Similarly, aerospace and optics manufacturers cannot tolerate any oily film or dust on components during assembly. As a result, these facilities almost exclusively use oil-free air compressors (typically rotary screw or centrifugal types with advanced drying and filtration). Many also employ redundant compressor systems and extensive air quality monitoring to ensure a continuous supply of ultra-pure air. In the event that a temporary compressor is needed (for example, if a major compressor in a fab goes down or extra capacity is required for a new process installation), an electric oil-free rental is generally the preferred solution. Given the critical nature of these operations, companies in this sector will consider the environmental and reliability advantages of electric rentals: they eliminate fuel handling and dramatically reduce the risk of any emissions or spills on site, aligning with the high safety and cleanliness standards already in place.

GenAir UK's rental fleet includes Class 0 oil-free compressors suitable for precision manufacturing needs, with options for variable speed control to match sensitive demand profiles. Our team understands the technical demands of clean manufacturing and can configure rental packages (including aftercoolers and desiccant dryers for dewpoint control) to seamlessly integrate into a customer's clean air system. In short, we help keep high-tech production running flawlessly by delivering air that is as pure and precise as the products being made.

## Government & Defence



Government departments and the defence sector rely on compressed air across a range of activities. On military bases and in defense manufacturing depots, compressed air powers maintenance workshops that service vehicles, aircraft, and naval vessels. Pneumatic tools are used for everything from repairing engines and hulls to construct of buildings. Compressed air is often used in painting and blasting operations for military equipment (e.g. corrosion control on ships), which, like other painting applications, calls for clean, dry air to ensure quality coatings. The majority of general maintenance uses can be met with oil-flooded compressors, since a bit of oil in the air stream won't harm tools and is easier on the machinery.

Defence and government users frequently require diesel portable compressors for their versatility and mobility. That said, on permanent bases and government facilities, there is a growing need for electric compressors. Government agencies are often under mandates to reduce emissions – an electric compressor can improve air quality and eliminate the CO<sub>2</sub> and NO<sub>x</sub> emissions that a diesel would produce on-site. Electric units also run quieter, which is beneficial on bases located near civilian communities and can operate in enclosed hangars and workshops (noise reduction helps communication and safety). As such, many government and defence installations are exploring electric-driven compressors for applications like shipyard work, depot maintenance, and backup systems, using diesel units only when grid power is not accessible.

GenAir UK supports government and military customers by offering rugged and versatile compressor rentals in all configurations. Our fleet includes low-emission Stage V diesel compressors, as well as efficient electric units that can tie into base power. Whether it's a short-term need during a facility upgrade or a rapid deployment for urgent requirements, we provide reliable compressed air so projects can continue without interruption – all while helping agencies meet their environmental and operational standards.



## Petrochemical & Refining

Petrochemical plants and oil refineries depend on large volumes of compressed air for both process operations and maintenance activities. In processing, these facilities use compressed air as instrument air – a clean, dry, and stable air supply that operates thousands of pneumatically driven control valves, instruments, and safety systems throughout the plant. Instrument air is the lifeblood of automated refineries, and any contamination or outage can cause serious process upsets. For this reason, refineries almost universally use 100% oil-free compressors for instrument air, ensuring no oil can gum up sensitive pneumatic controls. Many refineries have dedicated instrument air compressor rooms with multiple oil-free centrifugal or rotary screw compressors (plus dryers and filters) delivering air at a very high reliability standard. Compressed air is also used for process functions such as air blowing or scouring catalyst beds, aerating wastewater treatment units on-site, or feeding oxygen to certain chemical reactions. In those cases, oil-free air prevents contamination of chemical products and catalysts.

During maintenance and shutdowns, refineries and petrochemical sites use portable compressors extensively. For example, in a turnaround (a scheduled shutdown for overhaul), temporary compressors supply air for pneumatic tools used by maintenance workers, and to keep critical instrumentation alive if the main air system is offline. These maintenance applications might not require oil-free air – using standard oil-lubricated diesel compressors for tools is common – but if any of that air ties into the instrument air header or will touch process equipment, rental units must be oil-free and thoroughly dried. Diesel-driven compressors are popular for turnaround projects because they can be positioned wherever needed without relying on plant power (which may be partially shut down during the outage). Additionally, in hazardous areas, specialty diesel compressors with spark arrestors and over speed protection (often called “refinery spec” machines) are used to meet safety requirements. However, some refineries are beginning to move towards electric compressor rentals for certain applications, especially in newer facilities with better power infrastructure. Electric compressors offer the advantage of no exhaust – an important safety and environmental benefit on a petrochemical site, as it eliminates a source of flammable emissions and reduces greenhouse gases.

At GenAir – we provide refinery-grade oil-free compressors (both diesel-driven packages and electric-driven sets) to maintain process air quality, as well as a full range of standard diesel machines for general maintenance work. With GenAir’s rentals, petrochemical operators can undertake turnarounds or handle emergencies confident that their air supply will be sufficient, safe, and compliant with industry standards.

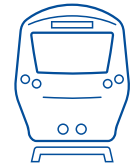


## Pharmaceutical

Pharmaceutical manufacturing demands some of the highest air quality and reliability standards of any sector. In pharma plants, compressed air is directly involved in producing medicines and medical products – it powers capsule filling machines, tablet presses, blister packaging lines, and it's used for mixing ingredients, fluidizing powders, drying or coating pills, and more. Crucially, compressed air often contacts the product or the product's container, meaning it can potentially introduce contaminants. Therefore, most pharma companies specify Class 0 (no added oil) to ensure absolutely no risk of oil contamination. They also tightly control particulates and moisture in the air with high-efficiency filters and desiccant dryers, maintaining air quality akin to cleanroom environmental standards.

Pharmaceutical facilities usually install oil-free electric compressors as permanent equipment, often in duplex or triplex configurations for redundancy. If a pharmaceutical plant needs a rental compressor (for instance, due to a planned maintenance of their main system or an unexpected failure), they will almost always request an oil-free unit and will often utilize an electric drive unit if the infrastructure allows. An electric oil-free rental can be connected to their facility power and air system with minimal disruption, delivering the same quality of air as their built-in system. In some cases – such as an emergency when a quick solution is needed – a diesel-driven oil-free compressor may be brought on site to supply air.

GenAir UK is well-versed in the needs of the pharmaceutical sector and offers pharma-ready rental compressors that provide clean, validated compressed air. Our fleet includes oil-free machines capable of delivering high-purity air for any critical process, and our engineers can assist with hooking up temporary systems that keep pharmaceutical production running safely. Whether it's boosting air capacity for a new product line or emergency cover to prevent a batch loss, we ensure our pharma clients have absolute confidence in their compressed air supply.



## Rail Industry

The rail industry – encompassing railway infrastructure, train manufacturing, and maintenance of rolling stock – utilizes compressed air for a variety of functions in both maintenance depots and out on the tracks. In rail infrastructure projects, portable compressors drive pneumatic tools for track laying and repair: for example, tie tampers, spike drivers, impact wrenches for rail bolts, and drills for signaling installation. Maintenance workers might use compressed air to power pneumatic hammers when breaking concrete on station platforms or to run grout injection pumps during tunnel or bridge repairs. Compressed air is also critical in train maintenance facilities. Rail depots and workshops use air to operate lifting jacks and hoists, to run sandblasting cabinets for cleaning train components, and to spray-paint locomotives and carriages.

On the other hand, for railway construction and emergency repair on the line, diesel portable compressors are indispensable. They can be loaded onto maintenance trucks or rail-mounted service vehicles and taken to remote sections of track where no electricity is available. Looking forward, as rail operators emphasize sustainability (for example, many rail companies are aiming for carbon neutrality in operations), there is growing interest in using electric compressors where feasible to reduce emissions and noise, especially for work in tunnels or urban areas at night. Using an electric compressor in a rail tunnel maintenance scenario, for instance, avoids filling the confined space with diesel exhaust.

GenAir UK provides the rail industry with flexible air solutions. We offer small towable diesel compressors ideal for trackside jobs and emergency response, as well as larger electric and oil-free units that can temporarily substitute or augment a depot's own air system during upgrades or high-demand periods. From helping a rolling stock manufacturer increase their assembly line output with extra compressed air, to equipping an overnight rail maintenance posse with portable air power, GenAir's rental fleet ensures the rail sector stays on track with its compressed air needs – safely, efficiently, and with modern greener options available.



## Re-Hire Partners

GenAir UK are proud to work with a select team of re-hire partners, offering our unsurpassed service levels and responsiveness to support their existing client base. Along with our extensive fleet of compressors in standard or 100% oil free formats, with both diesel or electric drive options, combined with our range of compressed air ancillary products, we are able add value to our partners offering through the technical knowledge and levels of support that we offer.

With our 24/7 availability, GenAir UK can deliver customer solutions to clients in even the most urgent situations all supported by our in-house transport fleet and team of product specialist engineers. All of this results in peace of mind for our re-hire partners that when they work with GenAir their clients will be happy.



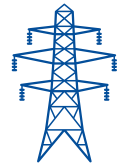
## Ship Building

Shipbuilding and ship repair activities require massive amounts of compressed air, making this sector a major user of industrial compressors. In shipyards, compressed air is employed in virtually every stage of construction and maintenance. One of the most air-intensive tasks is abrasive blasting ship hulls and components to remove rust, old paint, and scale. High-volume air (often several thousand CFM) is needed to propel blasting media at the steel surfaces. Immediately following blasting, the clean surface is often spray-painted or coated, another process that relies on compressed air to atomize paint. For both blasting and painting, air quality is critical – the air must be dry and oil-free so that it doesn't contaminate the surface. Oil in the air supply can cause poor paint adhesion or finish defects, so shipyards frequently utilize oil-free compressors or extensive filtration when painting and coating. Beyond surface prep and painting, shipyards use compressed air to power pneumatic tools like grinders, impact wrenches, and drills, which are used by hull fabricators and outfitters when assembling the ship's structure and installing equipment. Large air-driven winches and hoists are also used to position heavy components. Compressed air furthermore plays a role in testing and commissioning a new ship: for example, air pressure tests of tanks and pipelines, or driving pneumatic systems on the vessel (like ballast system valves or engine starting air systems) before the ship's own compressors are operational.

Given these varied needs, shipyards often maintain central compressor stations, but they also rely on mobile units. Shipbuilding is an outdoor and large-space industry, so diesel compressors are commonly used for their high mobility and output. Diesel-powered "air packs" can be moved along the dry dock or pier to wherever work is happening on a huge ship. They don't require connection to the local power grid, which is useful in older port areas or when running multiple units would exceed available electrical capacity. However, diesel units produce exhaust and noise, which shipyards must manage to protect workers and comply with environmental regulations. This is pushing some shipbuilders to consider electric compressors for more applications. An electric compressor produces no on-site emissions and less noise, improving the work environment. By stationing a large electric compressor just outside a hull and running airlines in, workers inside can have clean air with much less engine roar and no fumes accumulating. Some modern shipyards and naval repair facilities are indeed moving towards electric drive compressors to reduce fuel costs and adhere to stricter port emissions standards.

## Ship Building continued

GenAir UK supports shipbuilding and marine repair clients by supplying a full array of high-capacity compressor rentals. We have both the diesel-driven and electric drive units that deliver the volume and pressure needed for heavy blasting and coatings removal, built to withstand tough marine yard conditions. By partnering with GenAir, shipyards get the flexibility to call in additional air power during peak workloads or dry-dock projects, and they can choose the technology (diesel or electric, oil-free or standard) that best meets their operational and environmental needs for each task.



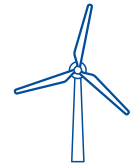
## Utilities (Power & Water)

The utilities sector – including electric power generation, water treatment, and wastewater facilities – relies on compressed air as a vital utility within their operations. In power plants (whether fossil fuel, nuclear, or renewable energy plants), compressed air is used primarily as instrument air to control valves and automation systems, similar to refineries. Some gas turbine power stations even use large volumes of compressed air for turbine cooling. In the water sector, municipal water and wastewater treatment plants use tremendous amounts of air in their processes – huge blowers supply aeration air to wastewater aeration basins, which is essential for biological treatment of sewage. In both power and water applications, reliability and air quality are crucial: a failure of the instrument air system in a power plant can trip the entire plant offline, and poor air quality (with oil or moisture) can damage control instruments or foul water treatment processes. As such, many utility companies specify oil-free or very clean air for critical uses. Wastewater treatment, in particular, benefits from oil-free air because oil carryover in aeration systems could harm the microorganisms that break down waste.

Utilities usually have permanent electric motor-driven compressors or blowers installed – these are part of the fixed infrastructure of a plant. Electric units make sense since power is readily available, and they can be large, efficient centrifugal or screw compressors designed for continuous operation. During periods of maintenance or upgrade, however, utilities often need temporary compressors to keep operations running. For example, if a power station needs to overhaul its main instrument air compressor, a rental unit must be brought in to supply air to the control system to avoid shutting down the plant. Similarly, a water treatment facility might rent a portable blower or compressor to maintain aeration while a blower is under repair. In emergency scenarios like an unplanned outage, diesel-driven portable compressors are commonly used because they can be quickly delivered and started without waiting for electrical tie-in. Diesel compressors give the flexibility to respond when the grid supply might be unstable. That said, utilities are increasingly focused on resilience and sustainability. Many are exploring electric rental compressors as the preferred solution for planned events, since they can tap into the grid (or the plant's own generation) to run with lower emissions and often lower cost. Using an electric compressor during a routine maintenance can avoid the permitting or logistical issues of bringing diesel fuel on site, and it aligns with the utility's mission of providing clean energy or water.

## Utilities (Power & Water) continued

GenAir UK has extensive experience working with utility providers – we offer high-capacity oil-free electric compressors that can tie into a plant's system for seamless temporary operation, as well as diesel-driven units (including large 1600 CFM class machines and high-pressure boosters if needed) that can be rapidly mobilized. Whether it's keeping a power station's critical instruments pressurized during a maintenance turnaround or supplying emergency aeration air to a wastewater plant to protect the environment, GenAir delivers the dependable compressed air that keeps these essential services running. We understand the regulatory and safety standards utilities must meet, and our rental solutions help them achieve their operational goals with minimal emissions and downtime.



## Renewables & Wind Farms

Renewable energy projects – such as wind farms (onshore and offshore), solar farms, and energy-from-waste facilities – form a growing sector that GenAir is proud to support with advanced compressor solutions. These projects often have unique compressed air needs during construction, installation, and maintenance. A striking example is the use of bubble curtains in offshore wind farm construction. When driving monopiles into the seabed for wind turbine foundations, contractors deploy bubble curtain systems to mitigate underwater noise and protect marine life from the shock of piling. This involves using large compressors to push air through rings of perforated hoses on the seafloor, creating a continuous wall of bubbles that absorb sound energy. For such environmentally critical applications, only oil-free compressors are acceptable – it is vital that the air injected into the ocean carry no oil that could harm marine ecosystems. GenAir supplies 100% oil-free, high-capacity compressors suitable for bubble curtains and similar tasks, helping offshore projects meet environmental regulations for noise and water quality.

Renewables projects are often in remote or off-grid locations (a wind farm on a hill, or an offshore installation vessel), so diesel compressors are heavily used during construction. Diesel units provide the independence and power needed when there's no electrical infrastructure yet. All equipment on an undeveloped wind farm site – including compressors – typically runs off diesel generators or mobile units. However, the ethos of the renewables sector is to reduce carbon footprint and environmental impact. As such, there's increasing interest in using electric compressors powered by either temporary construction power or the renewable energy source itself as soon as it's available. For instance, once some wind turbines in a farm are commissioned and producing power, that electricity can potentially be used to run electric compressors for the remaining installation or maintenance work, rather than burning diesel. Electric compressors offer clear advantages: no direct emissions and much quieter operation, which is better for the workforce and any nearby communities or wildlife. On offshore wind sites, reducing diesel usage also means less risk of spills and fewer logistics of refueling at sea.

## Renewables & Wind Farms continued

GenAir UK actively helps renewable energy clients by providing state-of-the-art electric and hybrid compressor options alongside our diesel fleet. We have supplied oil-free compressors for offshore wind farm construction – delivering the high volumes of clean air needed for bubble curtains and tool operation, with reliable performance in marine conditions. For onshore wind and solar projects, we offer electric-driven compressors for those who want to eliminate onsite emissions and possibly even run equipment from renewable power directly. Of course, we continue to provide diesel units for the rugged requirements of remote sites, all of which are the latest low-emission models to minimize environmental impact. By choosing GenAir's rental solutions, renewables companies can ensure they get the job done while upholding the environmental values at the core of their industry.

## Conclusion

Across all these sectors – from aquaculture to petrochemicals, from data centers to wind farms – GenAir UK Limited delivers the compressed air solutions that keep operations running and projects on track. Our rental fleet encompasses diesel-driven compressors for unbeatable portability and power in remote or emergency situations, electric-driven compressors for zero-emission, quiet performance in sensitive or indoor environments, and a full range of oil-free and oil-lubricated machines to match the air purity requirements of any application. We offer units in all sizes and pressures, from small 120 CFM towable sets up to giant 1600+ CFM packages, ensuring no job is too big or too small.

By choosing GenAir UK as a partner, every sector can access modern, efficient compressor technology on demand – improving sustainability, ensuring technical reliability, and benefiting from our team's expertise in tailored compressed air solutions. We take pride in serving the UK industry with an unwavering focus on quality, safety, and customer success, keeping your operations powered by air, wherever and whenever you need it.



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