



Cooling Tower Services

The availability and effectiveness of temporary cooling towers has changed the way business works in nearly every industry. No longer does production have to suffer limitations during summer months and times of peak demand. Facilities don't have to shut down or minimise processes for repairs and maintenance, and environmental or safety standards won't be compromised. Additionally, disaster no longer equates to lengthy downtime. Aggreko has played a vital role in the evolution of the use of temporary cooling towers throughout refineries, plants, manufacturing facilities, commercial buildings and other industries. Aggreko Cooling Tower Services uses the largest modular fleet in the industry to offer effective solutions for all of your temporary cooling tower needs.

www.coolingtower.com

For over 45 years Aggreko has provided temporary power solutions that go above and beyond industry standards. We bring a world of experience to each and every job, led by people with unequalled expertise within the industries we serve. Through innovation and a commitment to developing new solutions and enhancing service options, we ensure a higher level of performance. And with 120 locations worldwide, our 24/7/365 service is available where you are.

Environmental

Plants that depend on cooling water from rivers, lakes or oceans can be affected by low river levels, ambient temperatures, regulations and other environmental implications. Additionally, temperature sensitive microorganisms that treat waste water within the processes are also affected. Aggreko can solve these limitations by cooling part or all of the plant's water to allow the plant to meet production demands whilst staying within the permitted limits.

Augmentation

Plant productivity can suffer due to the limited capacity of the permanent cooling towers, especially during the hot summer months. Aggreko's temporary cooling towers can be used along with permanent cooling towers to increase capacity and reduce cold water temperatures, keeping production at its prime.

Emergency Replacement Cooling Towers

Temporary cooling towers are necessary when addressing emergency outages where downtime must be kept to a minimum. Aggreko takes emergency plans further with customised contingency planning, taking into account quantities, lead time delivery, installation and operational preparations, layouts and of course, cost.

Seasonal Process Cooling

Aggreko's temporary cooling towers are available when needed for seasonal requirements, thus eliminating the need for capital expenditure.

Isolation of a Particular Group of Exchangers

When a particular exchanger, or group of exchangers, is limited by temperature and water flow, temporary cooling towers can supply the cool water for optimum performance. Aggreko can isolate existing units and complement them with temporary cooling towers so that the lack of cool water is no longer an issue.

Repair to Permanent Cooling Towers

Repairs of permanent cooling towers can slow production or cause a facility shut down. Aggreko's temporary cooling towers work alone or with permanent systems. Use of temporary cooling towers can provide a safer environment for repairs.

Commercial Facilities

Office buildings, hospitals, and schools depend on cooling towers for comfort cooling. When towers fail during the heat of the summer, working conditions can quickly become uncomfortable. Aggreko can provide both cooling towers and chillers to cool your buildings while your permanent towers are repaired or replaced.

Long term use

Whether you're constrained by capital budgets or want to outsource the maintenance necessary to keep cooling towers performing at peak levels, Aggreko can offer you a long-term solution to your cooling needs which provides turnkey services at fixed monthly prices.

FOR MORE INFORMATION ON AGGREKO COOLING TOWER SERVICES PLEASE CONTACT

European Rental Centre
Washington, UK
Technical Hub
Moerdijk, Netherlands

+ 44 191 416 7555
aps-europe@aggreko.com

North America
+ 1 866 215 7964
aps@aggreko.com

New Plant Building

A refinery in France planned to implement a new ETBE unit, to respond to the new market demand of bio fuel. The challenge for the refinery's technical support project engineers was to build this new unit independently from the refinery utilities.

At the early stage of the project it became clear that refrigeration water would be needed to cool down process heat exchangers from the ETBE unit.

10,500 t/h of cooling water is produced on the plant, this is normally enough. However during the summer season, as the wet bulb temperature rises, the temperature of the refrigeration water is naturally higher, thus an additional 530 t/h is needed for cooling.

This left the engineers on site with a technical challenge: How could they avoid the additional cost of refrigeration water (which is normally available from the refinery) without having a detrimental effect on the steam cracker every summer?

The project engineers called Aggreko Cooling Tower Services (ACTS)

for a temporary cooling solution for the summer. After several design discussions, technical alternatives, and plant visits the ETBE manager and Aggreko engineers decided to implement a refrigeration by-pass line for the summer period. ACTS installed 6 MW of temporary cooling towers from May to September, to allow the ETBE unit to produce full capacity without penalising the steam cracker refrigeration. Every critical case (pump failure, water treatment, ventilator failure, over flow) was studied by Aggreko and the plant engineers to ensure that the most reliable cooling solution was provided. The ACTS installation was designed with remote control to the plant control room, so the temporary refrigeration water was fully integrated as part of the ETBE process.

The plant was more than satisfied with the Aggreko solution and signed an additional one year contract with Aggreko. Since then Aggreko has become the plant partner to provide refrigeration water every summer for the next 5 years.



Aggreko revives production at large steel plant

A major steel manufacturer faced problems when their cooling tower collapsed. With steel prices at a record high and having never heard of a temporary cooling tower the plant went into panic. They were able to contact their purchasing agent, who immediately went to work on a solution. Checking with the manufacturer of the collapsed cooling tower they were told they had two options; repairing the cooling tower which would take months or receiving a replacement cooling tower which would take 6 to 8 weeks. Neither was an option they were able to accept, searching the internet the company discovered Aggreko Cooling Tower Services (ACTS).

The client immediately contacted the ACTS Service Centre and asked if we could handle an emergency job of this nature. They were assured that the set up of a job this size would take less time than the 6 to 8 weeks quoted by the manufacturer. The client secured two cargo jets and the cooling towers were arrived at the plant within 4 days of the initial call.

The Aggreko cooling towers performed better than the old one ever performed, the plant is operating at close to 130% production and plans to continue at that rate. They have not yet decided what to do about a permanent cooling tower, as they have a six-month contract with Aggreko but expect that to extend to at least one year.



Water Shortage

A company specialising in producing special additives for animal food recently approached Aggreko to help improve their process in Slovakia. This is a relatively new product and this company is the market leader. During the production of these additives the company uses tanks to control bacterial growth.

The manufacturing plant relies upon river water to cool their process. However in recent years water levels in the river have been too low to cool the whole system to the right temperature. Water levels can be reduced by as much as 90 percent during the summer and in the past the company has been forced to stop production for several months at a time.

Aggreko delivered two systems of cooling towers and chillers to cool the system to the desired conditions. Both systems supplied 340m³/h with a pressure 3.6 bar. Aggreko also delivered the transformers for the electrical supply. The time to install the equipment was very short.

aggreko