

Mobile Solutions provide innovative way for Lakeside EFW to save money, UK Power | Case Study

The Client

Lakeside EFW is a major energy from waste plant in Colnbrook, UK. Lakeside EFW operates under strict environmental controls, within the guidelines of the Waste Incineration Directive (WID) and an Environmental Permit administered by The Environment Agency.

The facility incinerates 410,000 tonnes of household and municipal waste per year and exports 34 MW of electricity to the National Grid. This process diverts the majority (over 95 %) of waste from landfill.



The Client's Needs

Lakeside EFW uses waste fired boilers generating 45bar steam to drive a turbine. When a boiler is drained for its routine maintenance it has to be refilled with demineralised water, with a limited flow from the make-up water demineralisation plant, this would take about three days – days of lost generation.

The Solution

With an AQUAMOVE MOFI™ 35m³/h mobile plant, Lakeside can get their boiler up and running in less than a day. The increased generation revenue more than covers the hire cost.



An Aquamove engineer can be deployed, together with the necessary equipment, fittings and documentation within 2 hours of a call, so a MOFI™ is on standby at short notice in the event of a problem with their demineralisation plant.

The MOFI™ is self contained, and regeneration is carried out at Veolia Water Technologies's regeneration station in Stoke-on-Trent, so there is no chemical or waste handling on site.

The Benefits

- Fast refill of boilers
- Minimal loss of production
- Saves money

Emergency rental

Continuity for any production cycle is essential. In the case of an emergency, AQUAMOVE™ can mobilise and send to your site a temporary water treatment system within a trailer or container. This can normally be with you in less than 24 hours, freight time dependant. This will either replace or supplement your existing water treatment facility and if required an AQUAMOVE™ engineer will operate the equipment.



In addition, AQUAMOVE™ offers to its customers the PRACT service. This is a comprehensive survey of your water treatment plant to develop a Site Response Pack in the event of an unplanned incident happening. If you are required to call us this ensures the correct equipment and ancillary items are delivered to produce treated water in the fastest possible time.

Planned temporary hire

Planned temporary AQUAMOVE™ services are typically used for new plant commissioning applications such as steam blowing, chemical filling, temporary production of extra water, maintenance outages etc. Mobile operations may be planned in advance of the requirement, typically contracts may last from one week to 12 months.

Long-term contract

Thanks to our full on-site service, temporary hire contracts can move to long term contracts (multiple years) if required.

Veolia Water Solutions & Technologies has developed the AQUAMOVE™ service based upon our experience of the needs within the industrial water treatment market. Our aim is to provide our clients with security of supply of this important resource and to allow them to focus on their core business.



AQUAMOVE™, the VWS brand for Mobile Water Solutions, offers a complete range of technologies and services to meet all emergency, planned or long term treated water needs. Some key features are:

- Large fleet of trailers and containers
- Full assistance and availability
- High flow rates capacity solutions
- Continuous production
- ReAct preventive service
- Pure water production: filtration, softening, reverse osmosis, ion exchange
- Wastewater treatment: clarification, dissolved air flotation, MBR, ultrafiltration, evaporation, etc

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