

Swift response delivers on-site turbine repairs

Snapshot

Client

Energy from waste plant, Netherlands

Challenge

Our client had identified high temperature and vibration readings from a turbine gearbox, inspection and repairs were required at very short notice.

Solution

Our turbine engineers responded quickly and were on-site to coincide with a planned outage. We worked round-the-clock to carry out repairs of the gearbox. Inspection highlighted the need for additional refurbishment of bearings and couplings.

Benefits

Minimum downtime for a nationally-important facility. Turbine gearbox successfully repaired and plant returned to full availability. All governance and audit requirements were met.

When an energy recovery facility is processing a constant flow of waste fuel, the plant's reliability and availability are a priority. Our client needed a speedy reaction to an inspection and repair issue – we met the challenges and delivered on-site engineering expertise.

Gearbox issues highlighted

Monitoring data from a 40 MW turbine – one of three in the Netherlands' largest waste to energy plant – showed abnormally high temperature and vibration levels. Our client identified bearing problems and determined that the turbine gearbox should be inspected and necessary repairs made during an upcoming outage.

Our turbine engineers responded quickly and within days our cost-effective proposal to inspect and overhaul the gearbox was accepted. We were on-site less ten days after the original enquiry.

Challenges were overcome

Working round the clock, our engineers successfully overcame a series of challenges. Supported by our teams based in the Netherlands, we were able to source and supervise locally-based subcontractors and ensure a high quality supply chain. Safe working was ensured in the extreme heat of the turbine hall and we also complied with our client's high governance and audit requirements.

Our inspection revealed the need for additional refurbishment of components including bearings and couplings, which extended the project but reduced the risk of future breakdown.

Our engineers reacted swiftly to deliver a turbine repair on-site, maximizing plant availability.

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