



# SGN

## Orpington, UK

*Energy & Utilities*

### **Turbo Expander and CHP Project**

Ebsfleet Engineering Services were contracted by SGN to carry out the lifting operations at St Mary Cray, Orpington, equipment included:

- Atlas Copco turbo expander weighing 57t
- Ge Jenbacher CHP unit weighing 27t
- Loos boiler weighing 7.5t

A 500t Liebherr LTM1500-8.1 with 165t of ballast under full contract lift conditions was required due to the load weights and working radius. 6 support vehicles required to carry the crane ballast to site. Due to extreme restrictions on the works area precise planning was necessary to ensure minimal disruption to local traffic. The crane arrived at 06.00am followed by the first support vehicle. Subsequent support vehicles were called into site one at a time until crane was fully rigged.

The vehicles carrying the boiler, CHP unit and turbo expander were called in one at a time. Each item was rigged by our rigging team and lift was carried out and overseen by one of our in house appointed persons.

All works were smoothly and efficiently completed within one day. The crane was de-rigged during the latter part of the evening when the support vehicles could be called back in without impacting on rush hour traffic.

SGN commended us on a professional, very well planned and executed complex lift and have continued to work with SGN on various other complex projects



**Ebsfleet Engineering Services Ltd**

[www.ebsfleetltd.com](http://www.ebsfleetltd.com)