

## Plymtrek Waste To Energy Plant Project



Moving the company forward into new and innovative methods in solving transport, lifting and handling problems for our customers JB Rawcliffe & Sons Ltd. completed the offloading, handling and installation of a Cleaver-Brooks 13.5m x 3.8m x 4.8m 75,000kg Nebraska boiler & 2.6m x 3.3m x 4m 20,000kg associated economiser into the O-Gen Plymtrek Waste To Energy Plant.

With restricted height and only 80mm of clearance in the doorway width JB Rawcliffe & Sons Ltd. utilised air skates for precision skidding of the boiler into the building where the boiler was then jacked up via eight jacking points simultaneously and the support steelwork skidded in beneath. The boiler was then skidded 90° within the building and into final position.



With seven months in the planning, JB Rawcliffe & Sons Ltd. were contracted to offload and place the boiler and economiser into their working positions within a building. For the offloading of the boiler an in-depth crane study was completed by JB Rawcliffe & Sons Ltd. due to the size of the boiler, the site restrictions and the extreme access restrictions. Two cranes with multiple lifting beam arrangements were contracted to offload the boiler from transport, roll the boiler into the correct orientation and place into access doorway.

This successful project emphasises JB Rawcliffe & Sons Ltd. commitment to helping our customers with their transport, lifting and handling projects.



- Location:** Plymouth, UK
- Project:** Offloading, handling & installation of boiler & associated economiser.
- Dimensions:** 75,000kg Boiler 13.5m x 3.8m x 4.8m.  
20,000kg Economiser 2.6m x 3.3m x 4m
- Challenge:** Site restrictions, access restrictions confined space.
- Equipment:** Liebherr LTM 1200-5.1, Demag AC350-6, Hyster H5-50XM, air skates hydraulic jacks.

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