

Ward Recycling's New Crushing Plant

When Ward Recycling of Ilkeston, Derbyshire, decided to install a new crushing plant at their existing recycling plant, they approached Bowers Electricals Ltd to advise them on the electrical installation work which included extensive high and low voltage distribution switchgear and transformers for the large electrical motors for the new facility.



Picture of Main Crushing Plant During Manufacture with 3000HP Crusher Motor in the foreground

Due to the increased electricity requirements, the local Electricity Company was also required to bring in a new supply cable from over a kilometre away which Bowers Engineers organised.

Bowers Electricals Ltd were requested to assess the customer network required and to design a high and low voltage system to cater for the new plant.



Plant conveyor and separator systems

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The design of the system took some time to finalise and Bowers were finally awarded a contract from Ward Recycling to instigate the New HV REC metered feeder connection and supply and commission all the required power and distribution equipment needed to facilitate the new plant.



New Bowers 4500kVA 11kV to 433v Transformer being installed

This work included all the site installation works required to install all of the HV & LV power equipment and Transformers.

The New Crusher Plant in particular had a requirement for a feed to its primary crushing 3000hp Induction motor and auxiliary supply circuits.

The supply to this large motor was implemented via the supply installation and commissioning of a new Bowers 4500kVA Power Transformer.

The 4500kVA Transformer was also designed and manufactured by Bowers Electricals Ltd UK manufacturing facility at Heanor.

Bowers also carried out the installation And commissioning of the motor starter and control equipment



Motor control System being installed

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New Bowers 1250kVA Distribution Transformer

A New Schneider two Panel SF6 relay protected outdoor switchboard was supplied and installed to feed the two new Transformers.

A new Bowers 1250kVA Distribution transformer which was also designed and manufactured by Bowers Electricals Ltd and a New low voltage switchboard were supplied and installed for auxiliary supplies together with a 400kVar Power factor correction capacitor bank.



New 2 Panel Schneider 11kV Switchboard



The Completed Crusher Plant in Operation

The entire project was completed in a very short time scale to enable the new crushing plant to be commissioned with the upmost urgency to allow Ward recycling to increase their capacities.

All work was carried out under our and the clients stringent health and safety rules.

On completion Test certificates and commissioning reports were issued as well as network and circuit diagrams and GA drawings for all the equipment supplied.