

RECYCLING IS ADDED VALUE

Recycling for efficient utilization



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Page 1/1

MPT AND FUEL CONVEYING SYSTEM IN HULL

Commissioning of new mechanical pre-treatment plant and fuel conveying system this Autumn 2017.

The internationally experienced specialist recycling plant builder Sutco UK (part of the LM Group) started installation in November 2016 as part of the contract to design, manufacture and build the new mechanical pre-treatment (MPT) plant and fuel conveying system in Hull receiving RDF prepared by others from municipal and C&I waste.

The MPT plant will deliver high quality fuel to the new state-of-the-art gasification facility, which will be owned and operated by the newly formed enterprise Energy Works (Hull) Ltd. The plant is designed to have a single fluidised bed gasifier feeding a boiler and steam turbine generator with feedstock preparation, storage and associated plant all located on site. Energy Works (Hull) Ltd has selected environmental engineering specialist M+W Group as EPC contractor, who in turn is working with the Hull-based specialist engineering business Spencer Group as civil contractor and Sutco UK as the MPT plant builder to provide the feedstock for the gasification technology which will produce 25MWe for the local grid. After having successfully taken into operation two other SRF production plants in Birmingham and Rugby in the last 2 years, Sutco UK was chosen as the ideal partner to ensure the delivery of a feedstock of very high quality standards. The concept of the MPT processing plant is based on producing continued high quality fuel whilst offering a compact and flexible design for a plant that will process up to 120 tonnes per hour of pre-treated RDF into fuel over the next 25 years. Once up to speed the plant will process around 240,000 tonnes of waste per annum, which will be turned into 25MW of electricity for 43,000 homes by the following gasification process.

Pre-treated RDF is dropped on the reception floor of the building for processing. The material is sized correctly using various shredding and screening technologies utilizing three lines working in parallel. Overband magnets and eddy current separators are used to recover valuable ferrous and non-ferrous metals from the process. Following this a wind sifter segregates the remaining heavy, incombustible material from the light, combustible material. Any combustible material that was segregated with the heavy fraction is recovered by means of NIR technology and is returned to the fuel line. After a final shredding and metal separation process the now high quality fuel is transferred to the fuel bunker.

In the storage bunker building an automated grab crane system transfers the fuel via a conveying feed system to the gasification plant. The gasifier is fed via rotating screws, which are placed in 4 different locations. The feeding process is fully automated allowing to use single of multiple feed lines 24 hours a day, 7 days a week. The design of the fuel conveying system also incorporates a truck loading station which enables the fuel to be diverted at times when the gasifier is shut down for maintenance.

Sutco UK will start commissioning with RDF infeed this Autumn 2017.

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