

BPI Polythene

Material handling upgrade improves efficiency at Rhymney.

Overview of challenges

BPI is a leading manufacturer of polythene products, supplying over 270,000 tonnes each year for a wide variety of applications. Its recycling plants reprocess more than 65,000 tonnes of UK waste from industrial, commercial, agricultural and domestic sources.

The Engineering Manager at BPI Recycled Products in Rhymney, was looking to upgrade the existing materials handling equipment for the site's pellet transfer system to improve efficiency and reduce costs.

The Solution

A team from TH Plastics visited the site at Rhymney to see first-hand the systems that were already in place and discuss Gareth's long term objectives. Gareth explains:

"This project, Phase 1, was for state-of-the-art replacement of three out of six blown film lines and it was important to be able to explain my requirements in person. I simply provided a sketch of what I had in mind and the team at TH Plastics was able to quickly and easily translate it into reality."

TH Plastics engineers developed a bespoke solution that included the installation of a new variable speed drive control system and unique alarm notification system so operatives on site would know when a system required attention and which specific part of the system it was.

"TH Plastics worked with me to plan the entire operation ensuring that we could keep the old system running while the new system was put in place. The installation was smooth and clean."

"TH Plastics were excellent at every stage, from initial site visits and concepts to equipment supply and testing as well as the complete installation on site. I received a personal service from the outset. TH Plastics did a very good job; they did what they said they would and they did it extremely well."

Engineering Manager at BPI Rhymney

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Post implementation TH Plastics also provided BPI with a comprehensive service contract for all new and existing site machinery and training for all its operatives.

The Benefits

The solution developed by TH Plastics optimised the existing pellet transfer machinery by reducing two existing vacuum pumps to one more efficient and powerful pump. The solution has increased overall throughput availability of the system and improved production efficiencies while the alarm notification system has reduced machinery maintenance and will extended asset life.

The project was delivered within designated timescales and budget.