Synergy keeping the lights on in China

A coal fired power plant in China is utilising synergy on their conveyor to improve the process and reduce the energy costs.

The power plant had been starting their 135kW coal conveyor using a direct on line starter. This was causing major issues within the site due to a very high starting current.

The power plant was experiencing a number of problems with the electrical and mechanical components of the given system. In addition to this they were being mandated to reduce the energy consumption across their facility but specifically the conveyor system.

The soft start benefits of utilising synergy help to reduce:

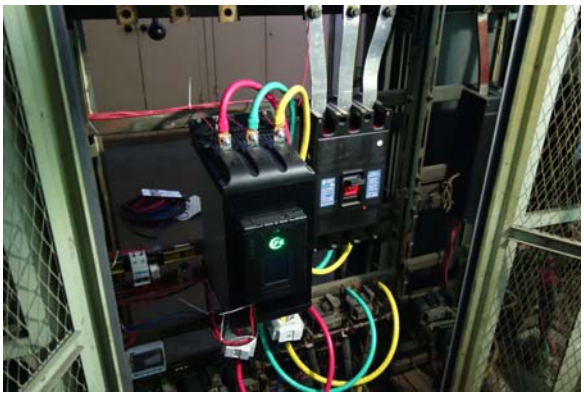
- Brown-Outs of the electrical supply
- Peak Demand charges from the utility
- Damage to electrical components
- Breakages of:
    - Belts
    - Pulleys
    - Gear Boxes
- Unscheduled downtime leading loss of production

The larger benefit of synergy was the iERS (intelligent energy recovery system) standard in all the units. This helps to reduce the current, voltage and power supplied to the conveyor motor without altering the performance.

The conveyor system had a normal running energy consumption of 26.22kW, once iERS was turned on this reduced to 24.66kW.

This equates to a 5.95% saving or 1.56kW/h.

Fairford's iERS system can be used in any lightly loaded fixed speed application to reduce the energy consumption. Typical applications include; conveyor systems, injection molding machines, compressors, grinders to name a few.



Li Lin Pekin of Locensate (Fairford partner in China) explains *"synergy is a perfect product for the power plant and other large consumers of electricity. The client is very happy with the results and is looking for other areas for improvement"*

For more information about synergy, iERS or how we can help you reduce your energy consumption contact Fairford.