

Synergy mixing it up in China



A concrete mixing plant in China has installed three synergy units on their conveyor system and concrete mixer. The reason was to reduce the energy costs associated with these applications.

The mixing plant are being mandated to reduce the energy consumption across their facility and the conveyor system and mixers were highlighted to be large energy consumers.

The mixing plant made contact with Fairford's partner in China, Locensate who helped to identify the best applications to use synergy.

synergy incorporates iERS (intelligent energy recovery system) standard in all the units. iERS reduces the current, voltage and power supplied to the motor without altering the performance in anyway.

The conveyor was driven by a 55kW motor and had a normal running power of 17.32kW, with iERS connected the power reduced to 16.34kW which is a saving of 0.98kW/h or 5.7%.

The mixer was driven by two 55kW motors and had the following results:

Mixer Motor 1 had a normal running power of 10.66kW which reduced to 9.33 with iERS. This is a saving of 1.33kW or 12.48%.

Mixer Motor 2 had a normal running power of 18.47kW which reduced to 17.09 with iERS. This is a saving of 1.38kW or 7.47%.

Based on conservative running hours of 12 hours per day 6 days a week, 50 weeks per year the total return on investment was less than 4 years.



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.



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