Quantum Energy Services
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Nansulate® Energy Saving Coatings

Illovo Sugar - Diffuser Coating

Illovo Sugar Limited is the largest listed sugar and alcohol manufacturer in Africa. They have had an ongoing initiative for energy efficiency and continue improving this in their mills. A number of mills create their own electricity and in countries other than South Africa they supply excess electricity to the grid of the country where they are operating.

Maxlife Coatings was approached to apply a test coating of 108 m² on one of their diffusers in order to insulate and minimize the energy loss through the walls of the diffuser.

Nansulate® Translucent PT was chosen as the product of choice at Eston Sugar mill

During spring of 2013, the entire area was hand cleaned and pressure washed with Holdtight 102 to ensure the substrate was free from surface contaminants before coating application. A stripe coating with aluminum based Rust Bullet was applied to treat the surface.

Project achievements – Temperature reduction of 30-35C. Nansulate® Translucent PT was applied to belly and side walls of the diffuser. The original operation temperature of the diffuser ranges from 90 to 80 Deg C , after the application of 9 coats of Nansulate® and a full curing time of 90 days **the temperature on the outer skin was reduced down to between 55 and 50 Deg C**

Nansulate® Distributor in Sub-Saharan Africa: 4Q Commercial, sub distributor, Maxlife Coatings.