INTO WATER YOU WANT.

CASE STUDY RESULTS

The VSEP installation at Central Fabrics yielded successful results. The unit is capable of filtering waste water into two reusable components, water and indigo dye.

70% of treated waste water can be recycled and reused at the rinse stage.

Up to 70 tons/day of reusable water is generated by the VSEP unit at Central Fabrics.

FACTS

100% Roughly 100% of recovered indigo dye can be reused in the dye bath. Additional indigo dye can be added to achieve desired shade.

70% 70% of treated waste water can be recycled and reused at the rinse stage.

70 Up to 70 tons/day of reusable water is generated by the VSEP unit at Central Fabrics.
Central Fabrics’ dyeing mill is equipped with indigo slasher dyeing equipment. The rinsing stages are supported by the VSEP system. After dyeing, unfixed dyestuff is removed during rinsing. The waste water generated at rinsing is stored prior to VSEP processing. Waste water is processed through the VSEP unit filtering dye from the water. The separated indigo dye is processed through another VSEP unit concentrating it further for reuse in the dye bath.

CASE STUDY
Cotton Incorporated partnered with Central Fabrics to evaluate the VSEP in Central Fabrics’ Yuen Long dyeing mill. The VSEP unit was installed to recycle waste water generated at the rinse stage of the slasher dye range.

Vibratory Shear Enhanced Processing, or VSEP, is a filtration system that cleans waste water through the use of a vibrating membrane. Because of the vibrating action the VSEP can achieve high flow rates and is virtually foul resistant. Water processed through the VSEP can be reused in manufacturing. VSEP units have been in use for years in a range of industries and now opportunities exist in the textile industry. This patented system was designed and is manufactured by New Logic Research (www.vsep.com).


Dye Concentrate

Discharge

Reverse Osmosis

Filtered water is further treated by reverse osmosis. Pure water is reused for rinsing.

1. Dye Bath
2. Rinsing
3. VSEP
4. Reverse Osmosis

VSEP Resonating Drive System

Traditional Flow