

# CASE STUDY

PROJECT	PRE-TREATMENT FOR SUGAR MANUFACTURER
PRODUCT	Multimedia Filtration (MMF)
INDUSTRY	Manufacturing
LOCATION	Queensland, Tablelands



## BACKGROUND

A large sugar manufacturing company undertook construction a \$75 million green energy power plant at the Tableland Mill. The power plant will turn 100 per cent renewable sugarcane fibre known as bagasse, into green energy. Once commissioned, it will produce 24 megawatts of electricity – enough to power 26,280 homes – which is the entire population of the Tableland region.

The Reverse Osmosis producing demineralised water for the plants steam boiler was having issues with high levels of iron and manganese in the feedwater that needed to be removed. The sugar manufacturing company engaged MAK Water to deliver a modular solution.

## SOLUTION

### MAK WATER KEY SOLUTIONS

- A 400 kL/day plant dosing an oxidising chemical followed by a specific catalytic media designed to target iron & manganese
- Air conditioned for protection from harsh operating environment
- 100% designed, constructed and tested off-site
- Plug and play site installation and commissioning



*Stacked: Two MAK Water containerised plants*

## RESULTS AND BENEFITS

- **Plant Reliability.** Custom design and quality equipment will provide reliable operation with minimal maintenance
- **Turnkey solution.** Custom “fit for purpose” design in a durable prefabricated containerised system.
- **Local.** The plant was built in Australia using materials sourced from local suppliers. Providing superior build quality and spare part availability



*Multimedia Filtration (MMF) containerised pre-treatment*