# CASE STUDY

PROJECT	WATER TREATMENT FOR SUGAR MANUFACTURER
PRODUCT	Brackish Water Reverse Osmosis & Continuous
	Electro-deionisation
INDUSTRY	Industrial
LOCATION	Queensland, Tablelands



#### BACKGROUND

A large sugar manufacturing company undertook a \$75 million expansion project including a green energy power plant at its Tableland Mill. The new power plant utilises 100 per cent renewable sugarcane fibre known as bagasse, to create heat which is used to generate power via a steam generator set.

Once commissioned, it will produce 24 megawatts of electricity – enough to power 26,280 homes – which not by coincidence, is the entire population of the Tableland region.

The power plant required ultra-pure demineralised water for the plants high pressure steam boiler. The company charged with delivering the power plant engaged MAK Water to deliver a modular solution.

### SOLUTION

A 400 kL/day water treatment plant comprising brackish water reverse osmosis followed by continuous electrodeionisation (CEDI).

# MODULAR DEMINERALISED WATER PLANT

- Two stage Brackish Water Reverse Osmosis (BWRO)
- IonPure Continuous Electro Deionisation (CEDI)
- I ron removal, de-chlorination and anti-scalant dosing

# HASSLE FREE, TURN KEY SOLUTION

- 100% designed, constructed and tested off-site
- Plug and play site installation and commissioning

# OPERATIONAL SUPPORT

- Service and maintenance to ensure system reliability and peak performance, and maximisation of water quality to increase the life of the system.
- All technical support for maximum operational performance

# **RESULTS AND BENEFITS**

- Plant Reliability. The high quality equipment and robust design has provided reliable operation with minimal maintenance
- Ongoing Service & Maintenance. MAK Water provide support to the plant once brought into operation with scheduled site visits and supply of consumables
- Lowest operating cost. Plants were designed to minimise operator intervention



MAK Water 400 kL/day plant onsite



High quality equipment and robust design for reliable operation



