

Project Profile

Project: Biosolids Dryer Services MCC
Location: Newpower Electrical
Client: Christchurch City Council
Consultant: Beca
Project type: Waste Water Treatment

Man hours: 350
Duration: 3 months
Completion Date: May-10

Description of Site

The Christchurch City Council embarked on a project in 2009 for the manufacture of a new Biosolids Drying Facility at its existing Waste Water Treatment plant at Bromley, Christchurch.

The new Drying Facility is capable of processing 5 tonnes of Biosolids per hour and reduces the current Biosolids moisture content from 80% moisture to less than 10% moisture.

The product achieved, after the drying process is complete, can be used as a solid fuel or for application as a fertiliser.

Description of Project

As part of their design process, Beca released documentation calling for the design & manufacture of a new Fully Type Tested MCC to feed the Biosolids drying plant, Stand alone Power Factor Correction unit, PLC & Controls Cabinet and various Pumping control panels.

AML Switchgear constructed the new MCC, Power Factor & PLC cabinets in fully type tested CUBIC metalwork. The main MCC was rated at 1600 amps to form 3b. All copper bus work was electrostatically tinned.

The pumping control panels were constructed from 316 stainless steel, due to the nature of the site.

The power factor consists of 6 steps of Varpact Harmony PF to 275kVAR mounted inside CUBIC metalwork.

The project was completed on time and within budget.

