



EPA Sustainability Licence

EPA 16747

New Castalloy Pty Ltd

Allotment 57, 76-92 Mooringe Avenue, NORTH PLYMPTON 5037 SA

**Actions to improve
environmental sustainability**

from

December 2010 to November 2011

Date 03/12/10

Part 1 Update

Environmental Sustainability Agreement

Achievements to November 2009

New Castalloy has reduced:

- water use by 48.0% since 2005
- electricity by 13% in the last 2 years (as of August 09) and a further 15% in 2010
- gas by 22% in the last 2 years (as of August 09) and a further 7% in 2010
- waste to landfill by 59% in the last 2 years (as of August 09) and a further 56% in 2010
- liquid waste by 70% in the last 2 years (as of August 09) and a further 19% in 2010

Community complaints have dropped by 95% in 2 years. No complaints in 2010

Actions to improve New Castalloy's environmental sustainability

New Castalloy and the EPA will collaborate on the following opportunities and supporting actions to improve environmental sustainability.

Key strategy 1: improve energy efficiency and reduce Green House Gases (GHG's)		Date
New Castalloy will investigate the installation of a Variable Speed Drive compressor to reduce energy usage and GHG emissions.	EPA will help investigate co-funding options.	September 2011
New Castalloy will install silicon controlled rectifiers to electric low pressure furnaces to ramp up the power gradually.	EPA will provide technical support, as required.	June 2011
New Castalloy will install airless blow downs on compressors to reduce power wasted at each blow down.	EPA will help investigate co-funding options for the project	September 2011

Key strategy 1 continued: improve energy efficiency and reduce GHG's		
New Castalloy will investigate 'Bag House' synchronisation with metal fluxing in furnaces. The bag house will start up just before fluxing commences and will shut off 15 minutes after the fluxing is completed.	EPA will collaborate with NCA to implement the project	May 2011
Key strategy 2: maintain social licence to operate		
New Castalloy will annually review how they engage with stakeholders including the local community to address verifiable environmental concerns.	The EPA will continue to work with New Castalloy to engage with the local community.	May 2011
Key strategy 3: Improve water efficiency		
New Castalloy will replace water softener with a new, more efficient water softener. The back flushing will occur based on volume of water that has been treated rather than on a set time.	The EPA will provide technical support, as required.	December 2011
New Castalloy will investigate the installation of larger holding tanks for the chrome plant, so more waste water can be reused at start of the week.	The EPA will provide technical support, as required.	June 2011
Key strategy 4: Reduce waste		
New Castalloy will commence using biodegradable stationary where possible.	The EPA will provide input on options available.	February 2011

Identifying and Prioritising future actions

Key strategy 1: continuous environmental improvement to decrease waste production and improve waste management		Date
New Castalloy will investigate new methods to: 1. dispose of waste powder-coat paint.	The EPA will provide technical assistance on waste issues where appropriate.	April 2011
Key strategy 2: continuous environmental improvement to decrease energy use		
New Castalloy will investigate the most practical options for reducing energy usage in heating up the transfer ladle with waste flue gases from the furnaces- each weekend	The EPA will provide technical assistance where appropriate.	February 2011
Key strategy 3: continuous environmental improvement by product design		Date
New Castalloy will continue to design new product castings to minimise machining requirements to reduce the consumption of energy, cutting oil, aluminium and water, and the production of waste.		January 2011 and ongoing

Reporting

New Castalloy will report to the EPA on the implementation of the environmental sustainability agreement. The report will be in a form determined by New Castalloy and the EPA. New Castalloy and the EPA will meet periodically to discuss the progress and implementation of this sustainability licence.

Review and Updating

The environmental sustainability agreement will be reviewed and updated as agreed between the EPA and New Castalloy, before the end of the term of the licence.

The review will consider community concerns.