



I.C.E. Sustainability Initiatives

Feb 2016

Introduction

I.C.E. specialises in chemical metering pumps and injection system along with distributing odorant for the gas industry. The top management at I.C.E. has been dedicated to investing a broad range of environmental ideas as a moral standpoint and are continually looking for improvement.

International Chemicals Engineering (I.C.E.) is committed to reducing its impact on the environment. Key emphasis focuses on water, energy, waste, emissions and transport. I.C.E. first moved to the Dandenong facility in 2005 and since then several initiatives have been introduced. I.C.E. first started documenting and monitoring its environmental performance in 2011, and aims to update its sustainability initiatives regularly.

Current Initiatives:

The following table outlines the initiatives that have been implemented onsite at I.C.E. Dandenong up to the beginning of 2016:

Date	Initiative	Objective & Outcome
2005	Planting of native flora throughout the site	- Provide shade for the office in summer - Provide habitat for local birdlife - Provides privacy for office - aesthetically pleasing place to work.
2005	Building Design	- North facing eaves to minimise direct sunlight into office, reduce demand for a/c. - Insulation in the ceiling of offices
2005	Lighting & Heating policy	- All computers, lights and heaters turned off at end of work day.
2007	Installation of Water tank	- Capture water from factory roof to allow staff to clean cars & trucks along with watering vegetation onsite. - Utilised captured rainwater in operational processes.
2008	Took part in local government environmental audit	- Audit provided by local council in conjunction with LIEP, with recommendations to reduce ecological footprint and save money.
2008	Introduced recycling policy	- All paper and cardboard from factory warehouse and office sorted and recycled.
2009	Upgrade Fleet	- Purchase new diesel truck for more efficient bulk transport - Continual review of staff vehicle fleet to replace older vehicles and reduce operating costs.
2010	Carbon Footprint calculation	- I.C.E. measured its carbon footprint for the 2010 calendar year, documenting how I.C.E. is 'doing its bit' to measure, monitor and mitigate waste, fuel and energy usage. - I.C.E. gathered its scope 1 and 2 emission data and utilised the 'future climate' greenhouse emissions calculator to finalise its footprint.
2011	Installation of 1.5kwh Solar panel system	- 8 Solar panels and 'smart meter' installed to provide electricity to site. - Feed-in tariff arranged with energy retailer to provide credit for electricity which is fed back into the grid over weekends and after-office hours



2011	Further improve waste and recycling	- Co-mingled recycle bin introduced to avoid all glass, plastics and cartons from entering landfill. - Setting double sided print as default on all office computers to reduce office paper usage.
2011	Efficient vehicle fleet	- Encourage staff that live in isolated locations to work from home as part of weekly routine. - Invested in diesel vehicles for salesmen driving the furthest distances.
2013	Diversification into solar powered metering pumps	- I.C.E. started offering a range of solar powered metering pumps and packaged solutions as part of its engineering division
2014	Composting bin introduced	- I.C.E. implemented a composting bin for organic waste produced onsite. This mainly includes coffee grinds and grass clippings and food waste from office staff
2015	Office & warehouse lighting audit.	- An external audit of the lighting was carried out and LED lights are to replace all office and warehouse lighting in 2016.
2016	Additional 7000L water tank installed	- I.C.E. invested in a second water tank onsite to capture and store rainwater
2016	Additional 11kWh solar system installed	- I.C.E. invested in an expansion of the current solar panel array onsite. An additional 44 solar panels will be added to the existing 8 panels that have been running since 2011.

Staff Awareness & Education:

I.C.E. host bi-monthly management meetings which staff must attend. The management meetings address all aspects of the management manual and include discussions regarding new and existing sustainability initiatives such as energy, water and waste policies. The process for disposing of waste has been discussed with all staff at management meetings (including hazardous waste, recycling, composting and general waste disposal.)

Status

I.C.E.'s dedication to sustainability has been introduced both as a moral decision by management but also to improve efficiency on site and reduce day-to-day costs. Investment in the above I.C.E. sustainability initiatives has resulted in short-listing by the local Dandenong council for the 2015 sustainability awards.