CarbonmetriX

Developed By Carbonetix

Energy, Water & Vehicle Greenhouse Tracking System

Product Spec Sheet 070326

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Table of Contents

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Introduction

CarbonmetriX™ has been developed to assist organisation in tracking, reporting and actively reducing their carbon emissions (greenhouse gases). CarbonetiX (formally Energy Doctor) have been conducting audits and assisting organisations reduces their carbon emissions for over 4 years, and over this time we have found one of the main challenges is reporting the quantifying usage and reduction.

In developing CarbonmetriX™ we engaged with our existing clients on the practicality, ease of use and the value of such a system.

The result is an easy to use web based system, secured by an 128bit SSL connection to protect your organisations privacy, with user name and password access.

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CarbonmetriX™ at a brief

- Track Electricity, Natural Gas, LPG
- Track Water
- Track Vehicles
- Compare Usage, Greenhouse and Cost
- Actively manage usage with Exception Reports, that automatically get sent if above a user set percentage
- Multiple recipients of Exception Reports
- One click report generation
- Graphs and data that can easiely copied into reports and presentations.
- Generate graphs that compare account usage over 3 user selectable years
- Generate a list of Exception reports
- Compare the economy, carbon emissions and cost of a vehicles make, model, operator or the site at which its stationed.
- Generate a report that compares your operators economy to that of the AGO's figures
- Detail the 20 top highest polluting sites, account or vehicles
- Compare your Electricity, Natural Gas, LPG and Vehicle emissions in one table and graph
- Have multiple users entering and accessing data at the same time on different computers
- Simple web access, no installation required

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How does the data get entered into the system?

Data entry has been made as easy as possible and concentrates on the figures that matter. Once you have gone through the simple process of adding Electricity, Natural Gas, LPG, Water or Vehicle details into the system. You then enter billing data as in comes to you.

When a new bills comes in its as simples as logging in using your user name and password. Then selecting or searching for the correct account and entering the data

present on the bill/invoice.

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Exception/Active Reporting

Exception reports allow your organisation to compare usage figures from the current bill, to that of the same time last year. This then allows your organisation to gauge the success of reduction measure, monitor usage and ensure that you are cutting down on excess wastage.

This feature is enabled by setting an increase and reduction target, if a bill from the current year exceeds that of the last year and is over the increase figure multiple persons can be informed automatically via email. The persons who receive reports are set on the per site basis, this keeps your site/facility managers informed of the performance of their sites while keeping you informed. This means that you can actively manage the usage of your sites. We also include reduction percentages, as we have found that the occupants/employees like to know that what they are doing to save water/energy is working.

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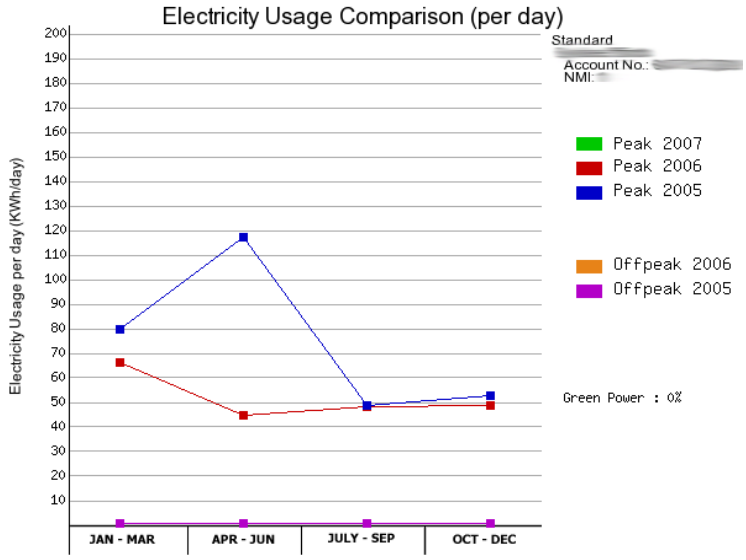
3 year account comparison

You can use the account report generation button to create a report comparing 3 user selectable years. You can copy this report into word documents or presentations.



Start Date	End Date	Peak use (kWh)	Offpeak use (kWh)	GHG (tonnes CO2-e)	Cost
13/09/2006	12/12/2006	4,315	1	6	$ 689
20/06/2006	13/09/2006	4,040	1	6	$ 713
20/03/2006	20/06/2006	4,058	1	6	$ 716
15/12/2005	20/03/2006	6,264	1	9	$ 1,076
14/09/2005	15/12/2005	4,738	1	7	$ 827
22/06/2005	14/09/2005	4,071	1	6	$ 718
07/02/2005	22/06/2005	7,871	1	11	$ 1,364
13/09/2006	22/06/2005	1,839	1	3	$ 326
13/09/2006	09/05/2005	6,032	1	8	$ 1,038
04/11/2004	07/02/2005	7,538	1	10	$ 1,283

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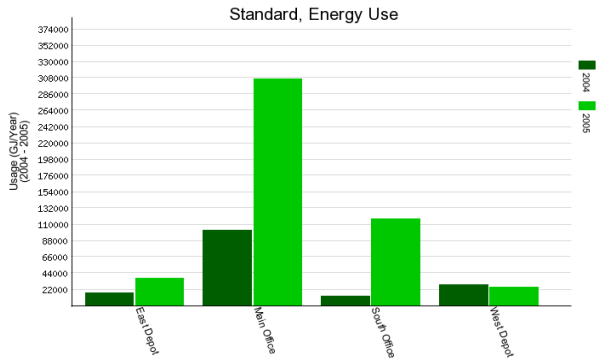
Drill Down Reporting

The organisation hierarchy is separated into 6 levels:

All -> Type -> Site -> Utilities -> Accounts -> Bills

The Drill Down Report allows you to query each of these levels and generate a report for each. In the example bellow we have clicked 'Main Sites' from the previous menu. The result is the usage of all the sites in the 'Main Sites' category.

Site Name	Usage (GJ/2004)	Usage (GJ/2005)	Saving (2004-2005)	Percent Saving (2004-2005)
East Depot	16,330	36,169	-19,840	-121%
Main Office	100,847	305,287	-204,440	-203%
South Office	11,416	115,542	-104,126	-912%
West Depot	27,209	23,717	3,492	13%
Total	**155,801**	**480,715**	**-324,914**	



We can continue to 'Drill Down' through each menu by clicking on the site/utl/account. In the example above if you wanted to generate a report showing the electricity usage for the South Office, you would click South Office, then click Electricity.

To further the versatility of this report you can select to either compare Energy or Water over a two year period. Switch between Greenhouse, Usage or Cost, while having the ability to sort by Name, Year 1 usage, Year 2 usage, Savings and Percentages savings.

This report also has the capability to generate intensity reports. Intensity reports use the area of the site to compare Greenhouse, Usage or Cost giving you a comparison per square meter.

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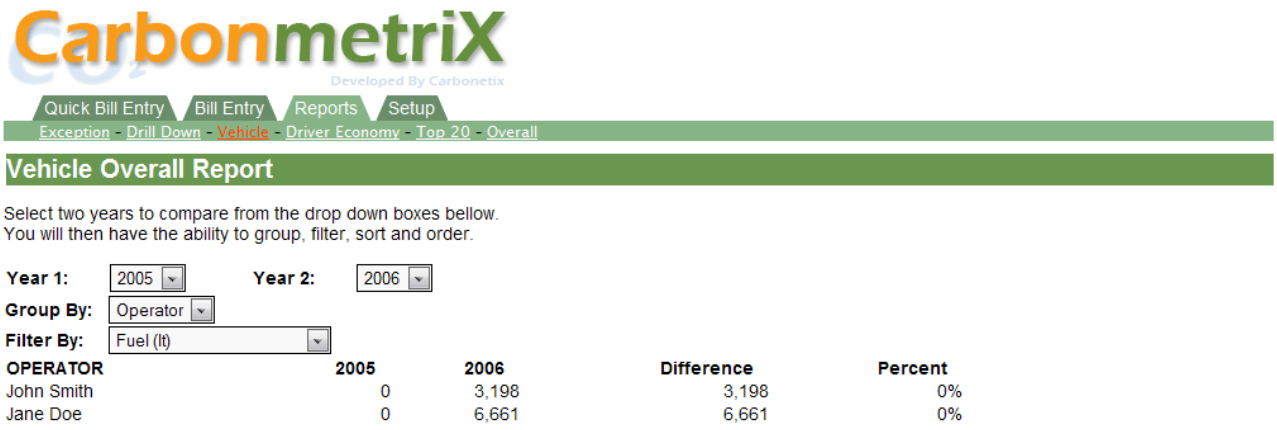
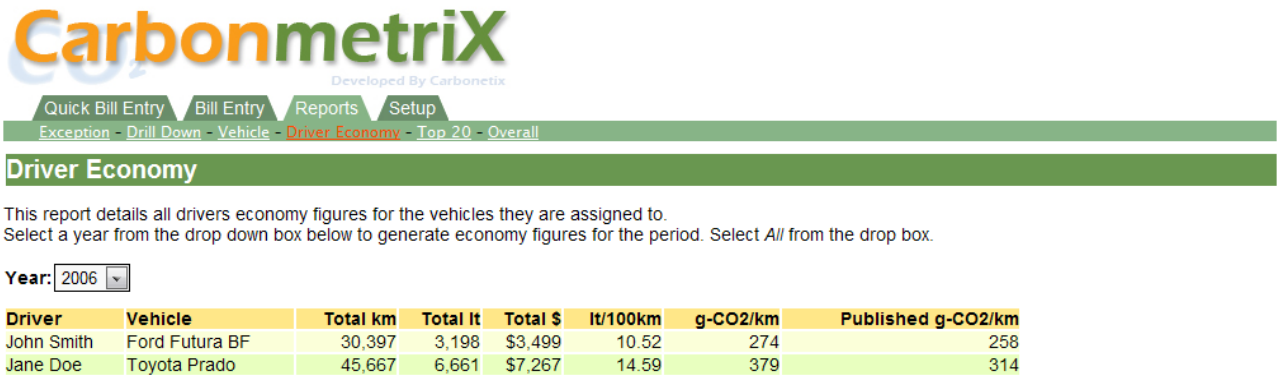
Vehicle Overall Report

The vehicle overall report is a comparative and flexible two year report. In this report you can select to display data based on the Site, Make, Model, Operator and Vehicle, this will enable your organisation to identify the vehicles that are producing the most greenhouse gas and those vehicles and drivers that are the most economic. The report also allows the user to filter the data and display usage in Fuel (lt), Cost ($), Distance (km), Economy (lt/100km) and Greenhouse (g-CO2/km).



Driver Economy

This report differs to the Vehicle Overall Report in that it details an individual drivers Total km traveled, Total litres of fuel used, lt/100km, g-CO2/km and the rated g-CO2/km from the Australia Greenhouse Office for that vehicle. Your organisation can use this to encourage the staff to driver more efficiently and better manage their use of the vehicles.



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Top 20 Reports

Compare the Top 20 sites or accounts based on Usage, Greenhouse or Cost for Electricity, Natural Gas, LPG and Water. Compare the Top 20 vehicles based on Greenhouse, Economy, Fuel consumption or Cost.

Top 20 Reports

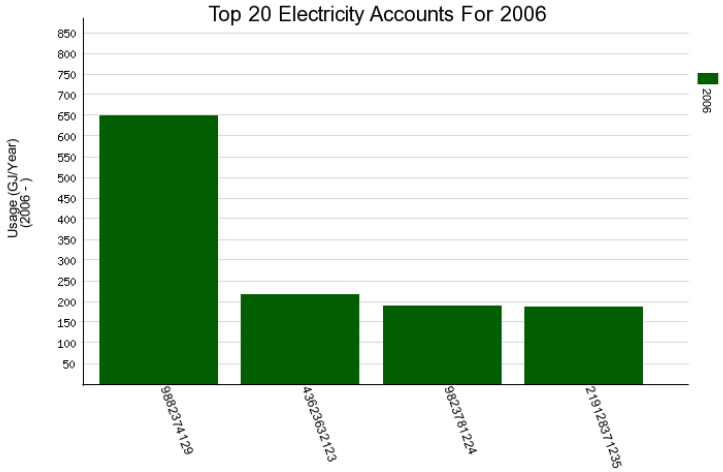
Please select the a report type.

◉ **Top 20 Accounts** ○ **Top 20 Sites** ○ **Top 20 Vehicles**

Please select a utility type and a year to generate a top 20 report.
You can switch between Usage, Greenhouse and Cost by clicking the *Unit* drop down box.

Report Type: Electricity
Year: 2006
Unit: Usage

Site Name	*Account Type*	*Account Number*	*Usage (GJ)*
Main Office	Electricity	9882374129	646
East Depot	Electricity	43623632123	215
South Office	Electricity	9823781224	187
West Depot	Electricity	219128371235	185



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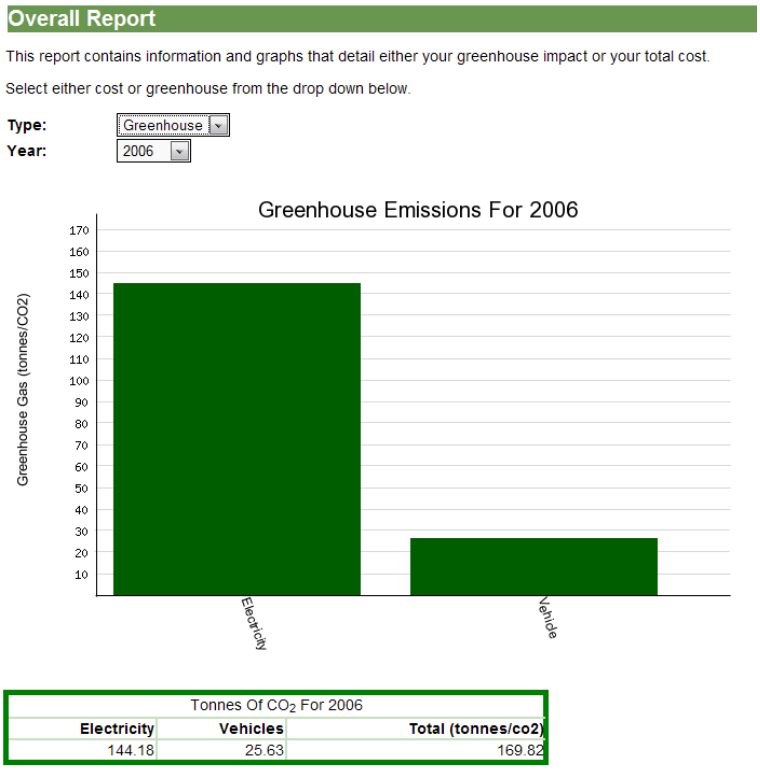
Overall Report

The Overall Report compares all your organisations total energy utilities and vehicles usage against each other. The report can compare Greenhouse or Cost over a selected one year period.



Tonnes Of CO_2 For 2006		
Electricity	**Vehicles**	**Total (tonnes/co2)**
144.18	25.63	169.82

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More Information

We used CarbonmetriX™ as the core platform for developing customised tracking and monitoring applications for our customers. We can customise the system to suit your organisations needs at the current time, while allowing for further growth and customisation down the track.

If you would like more information on pricing, availability or would just like to know more, please contact us; phone on 03 9783 1111 or via email john@carbonetix.com.au.