

Ballarat Health Services Carbon Emissions for the Financial Year 2015-2016

This emission inventory has been developed in accordance with the Greenhouse Gas Protocol "A Corporate Accounting and Reporting standard" developed by the World resources Institute

Inventory Boundaries

Ballarat Health Services includes all emissions from or relating to the buildings listed in table 1. Excluded from this list are Business Unit related activities specifically Eureka Linen, which will be reported separately. Where the business units supply services back to Ballarat Health Services, such as the linen service, these emissions will be reported as Ballarat Health Services Scope 3 emissions. Other sites not included in this report are; accomodation houses/flats, Dental, Safety Link & Market St.

Table 1

Base Hospital	Drummond St Ballarat
Queen Elizabeth Centre	Ascot St Ballarat
Midlands Site	Norman St Ballarat
Wendouree Site	Gillies St Wendouree
Sebastopol Site	Morgan St Sebastopol
Eureka Site	Balmoral Court Ballarat
Other Sites	a combination of several small sites

Ballarat Health Services Carbon emissions 2015-2016										
Emission Source	Consumption units	Consumption	CO ₂ -e (tonnes)	Proportion of inventory (%)	2010-2011 CO ₂ -e (tonnes)	2011-2012 CO ₂ -e (tonnes)	2012-2013 CO ₂ -e (tonnes)	2013-2014 CO ₂ -e (tonnes)	2014-2015 CO ₂ -e (tonnes)	% difference from previous year
Direct emissions (Scope 1)										
Natural Gas	GJ	87693.68	4501.32	17.44	4634.68	4835.36	4776.40	4968.52	4519.16	-0.39%
Petrol for vehicles (estimated)	kL	170.71	406.34	1.57	619.95	497.78	420.09	501.66	447.59	-9.22%
Diesel for vehicles	kL	49.70	134.09	0.52	102.26	98.43	110.20	138.55	125.85	6.55%
Stationary diesel	kL	52.09	139.74	0.54	26.34	21.47	68.33	69.29	120.86	15.63%
LPG for Vehicles	kL	0.00	0.00	0.00	0.00	0.00	0	7.85	4.16	0.00%
Total Scope 1			5181.50	20.08	5383.24	5453.04	5375.02	5678.02	5213.46	-0.61%
Direct emissions (Scope 2)										
Electricity Peak		8810658.224	10660.90	41.32	9038.60	9396.04	10185.68	10609.52	10252.38	3.98%
Electricity Off Peak		7692768.489	9308.25	36.07	7157.46	7439.84	8068.08	8473.03	8800.62	5.77%
Purchased Electricity	kWh	16503426.71	19969.15	77.39	16196.06	16835.87	18253.75	19082.55	19052.65	4.81%
Total Scope 2			19969.15	77.39	16196.06	16835.87	18253.75	19082.55	19052.65	4.81%
Indirect emissions (Scope 3)										
Linen	1000Kg	1015.70	653.20						845.78	-22.77%
Total Scope 3			653.20	2.53						
Net emissions			25803.84		21753.58	22288.92	23628.77	24760.57	24266.10	6.34%
% increase over previous year			6.34%			3.18%	5.67%	4.57%	-2.04%	
Floor area	m ²	102183			96208.77	96156	102153	105552	100189	1.99%
Emissions			0.2525	tCO₂-e/m²	0.2261	0.2318	0.2313	0.2346	0.2422	4.26%
% increase over previous year			4.26%			3.18%	-0.21%	1.40%	3.15%	
Water	kL	121568.00			114546.00	105017	115397	112673	113268.00	7.33%

Summary

There has been a 6.34% increase in CO2-e emissions compared to the previous year.

Normalising these figures by floor area (i.e. allowing for the increase in floor area that has occurred this year) the increase is 4.26%

Scope 1 emissions are virtually the same as previous years, however Scope 2 emissions (Electricity) have increased 4.81%. These emissions account 77% of all emissions