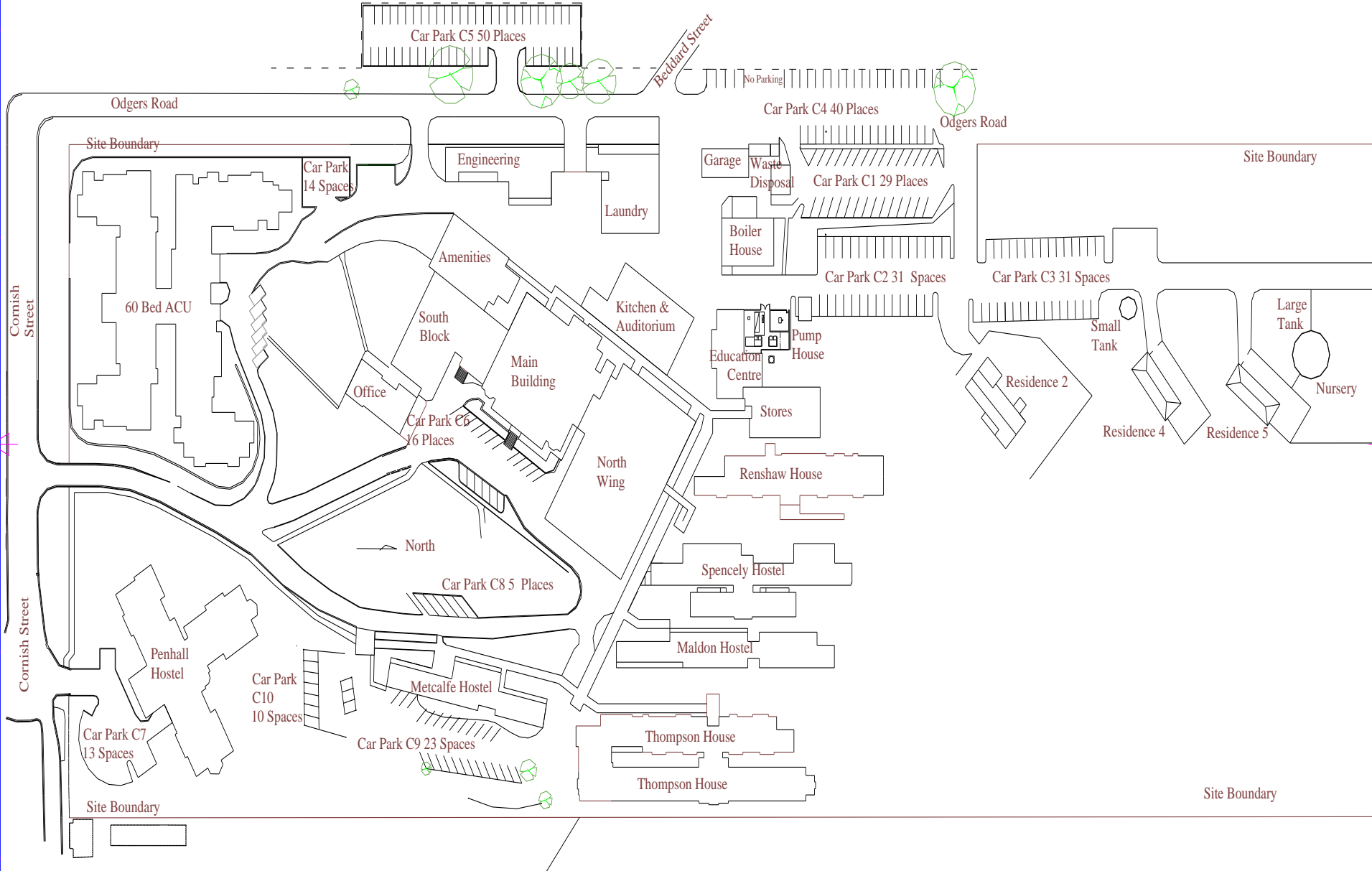




# Castlemaine Health Carbon Emissions Reduction and utilities management. Case Study

Presenter  
Roderick Woodford  
Manager Engineering Services  
2010

# Castlemaine Health



# Ellery House Retaining Wall



# Ellery House

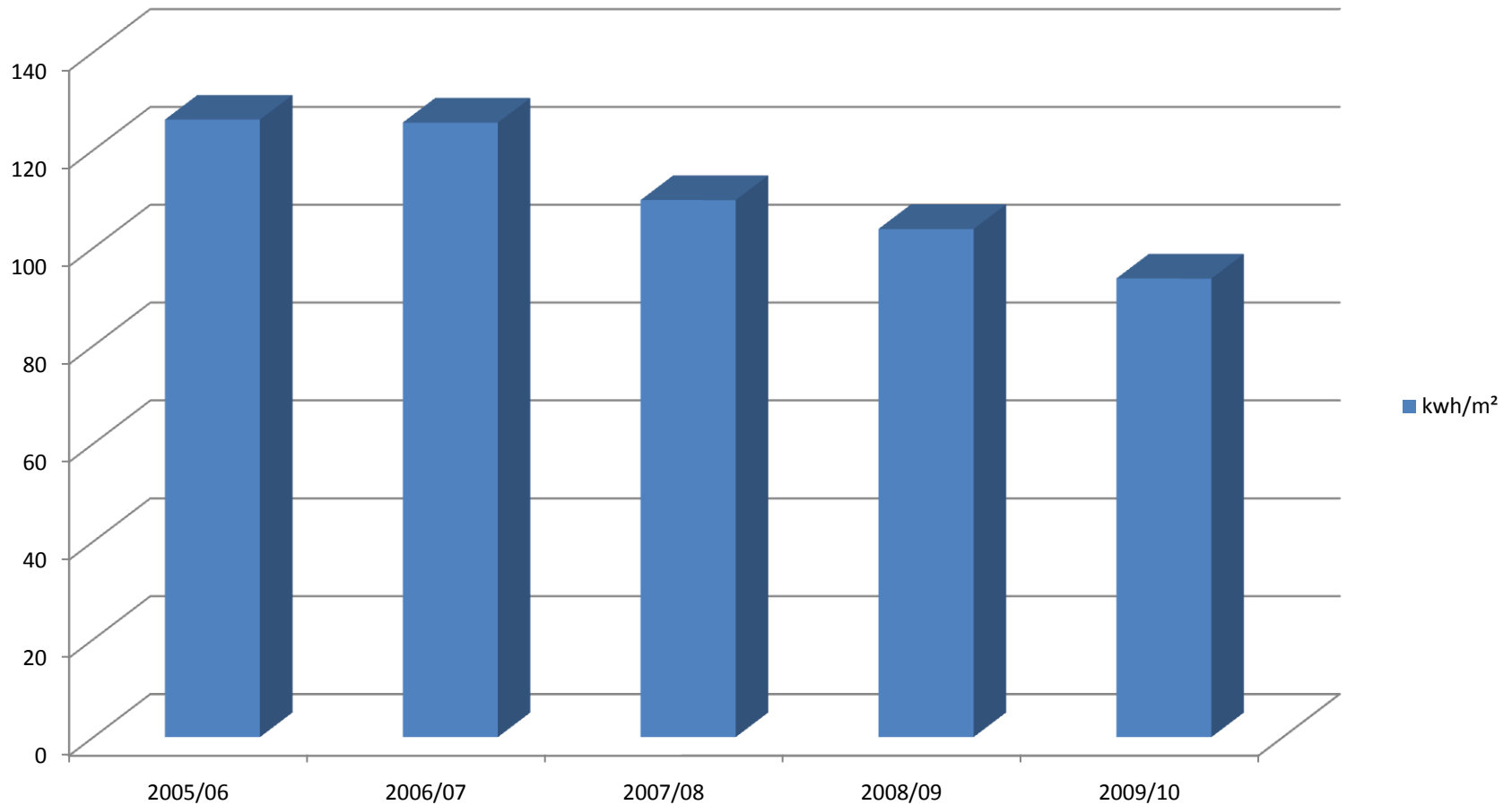


# Annual Utilities Consumption

	2005/06	2006/07	2007/08	2008/09	2009/10
Electricity kWh	2239447	2250481	2322590	2209091	1983381
Floor area m <sup>2</sup>	18404	17918	21160	21160	21160
Water kL	38238	32356	26368	24979	21012
Natural Gas MJ	32109000	30222000	31805000	30121951	26636732

# Power Consumption / m<sup>2</sup>

kwh/m<sup>2</sup>



# Variable Speed Drive Direct Digital Control



# Power Factor Correction Unit



# Dishwasher



# Macerator



# CSSD Sterilizer water collection

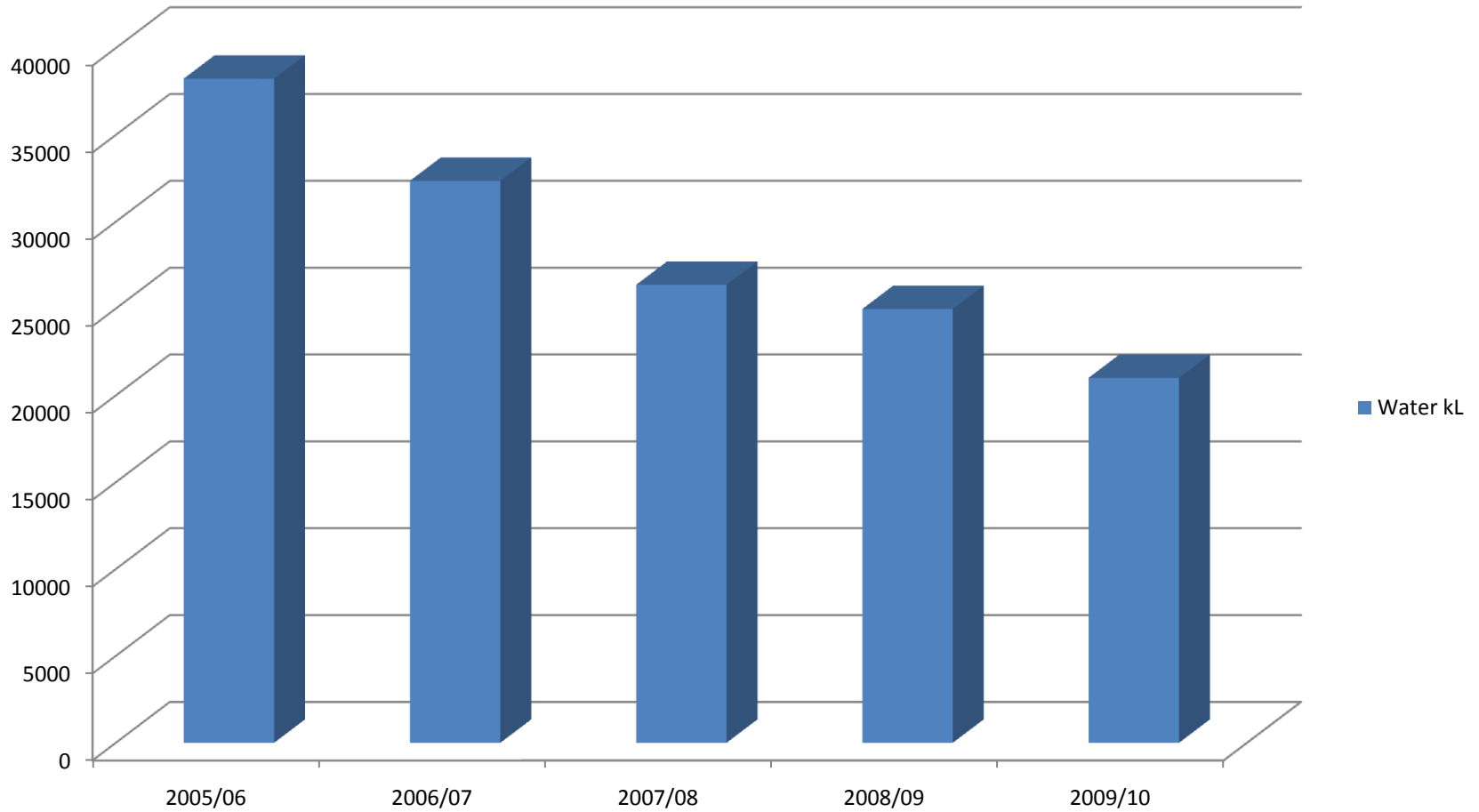


# Water supplied to washers



# Water Consumption

Water kL

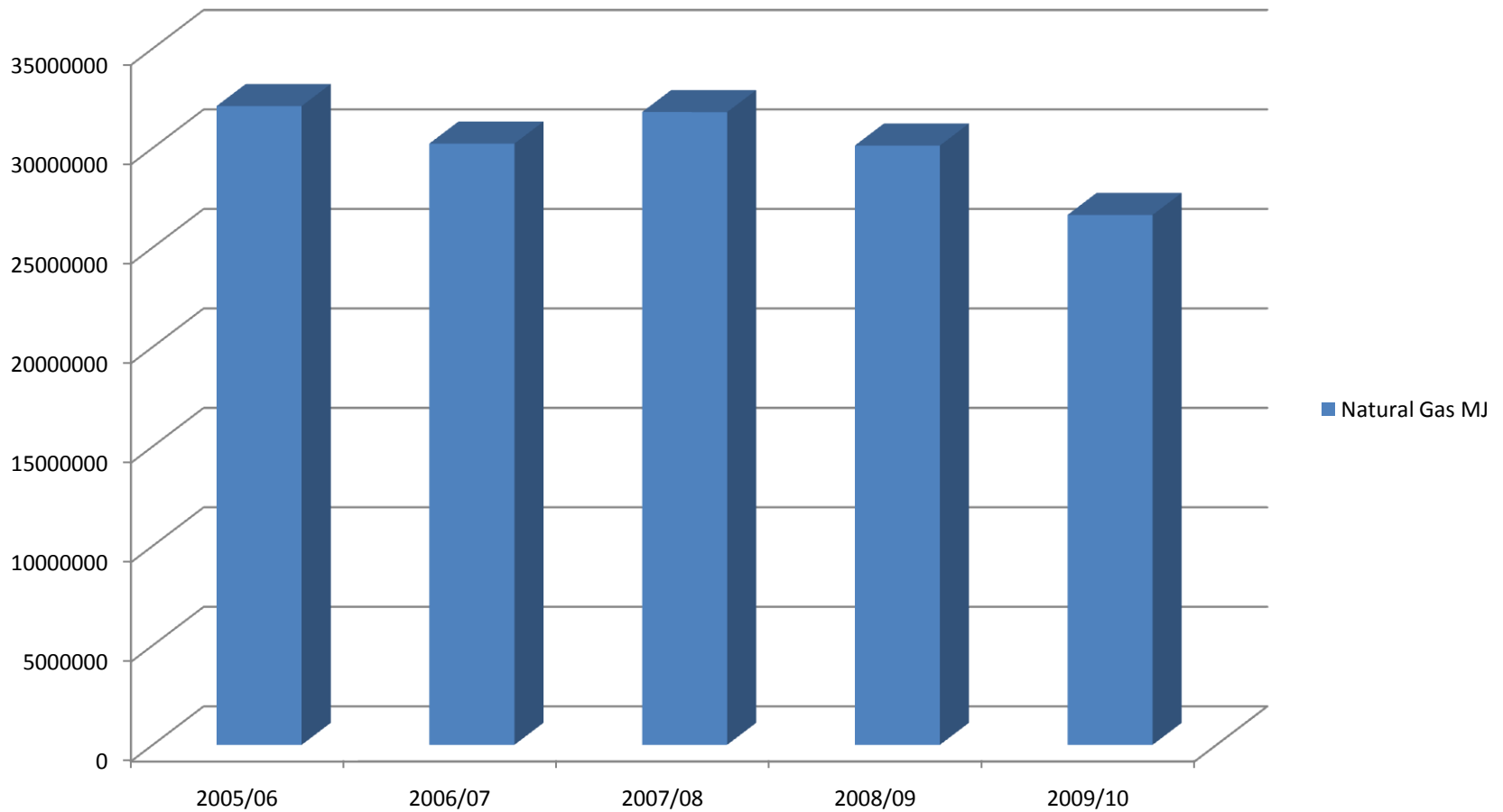


# Natural Gas test case



# Natural Gas Consumption

Natural Gas MJ



# Planning for the future.

## **Conclusion**

“A call for stronger leadership is needed, if sustainable practices are to be embedded across all operations of each Victorian Government department and agency”.

Dr Kate Auty, Victorian Commissioner for Environmental Sustainability.