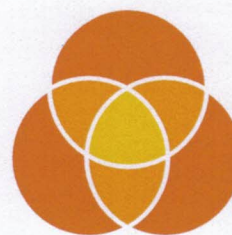


CASE STUDY 2012 MAJOR'S SUPA IGA



SRA
Sustainable
Regional Australia

Supermarket Saves Energy

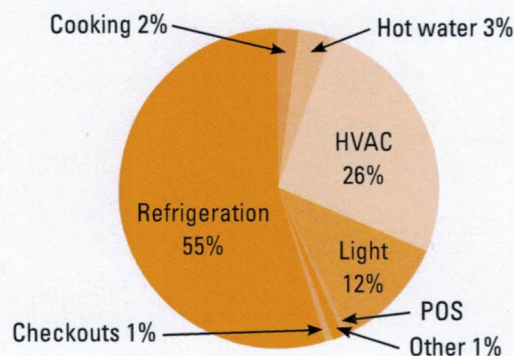
Major's Supa IGA is Rochester's oldest serving supermarket spanning more than 100 years and four generations. It's a community icon, committed to the development of the community and its people. Being environmentally responsible and business smart they are keen to do all they can to be leaders in business practice and energy efficiency. Proprietor, Brad Major, has undertaken numerous sustainable and energy efficient measures in the operation of his supermarket and is keen to push on towards new levels of excellence.

"Knowing where our energy is going, gives us the power to manage it. Having SRA breakdown our energy use into areas and then identify a 20% energy savings has given us a real picture of our future energy costs and a plan to reduce our energy consumption." - Proprietor Brad Major, Major's Supa IGA



Energy Survey Results

SRA's Business Energy Assessment identified a number of opportunities for improving energy efficiency. Major's Supa IGA's annual energy consumption in 2011/2012 was 593 MWh. Approximately 55% of this was for refrigeration, 26% for heating and cooling, 12% for lighting, and the rest to cooking, checkouts, IT and other areas.



Saving Recommendations

Airlocks to store entrance creating a thermal barrier by installing a second door which reduces air exchange between external and internal areas of store can reduce greatly the heating, cooling and refrigeration loads.

Upgrade heating and cooling system by installing variable speed drives to heat pump and upgrading cooling tower to a compressed condenser with high efficiency fans, can reduce energy input to energy output requirements and increase energy performance of whole system.

LED light upgrade to all internal and external lighting, this can improve energy consumption by 50-80% along with reduce maintenance as lifespan is greatly increased.

Power down point of sale POS and other equipment when store is closed to reduce wasted energy consumption.

Adjust thermostat settings so that heating, cooling and refrigeration loads are reduced.

Estimated Savings

SRA's Business Energy Assessment identified savings of 20%. This could reduce Major's Supa IGA energy consumption by 114MWh, 138 tonnes Greenhouse gas emission and over \$22,000 per annum.

SRA's Business Energy Assessment

- ✓ Improves efficiency in your business
- ✓ Shows you how to control your energy costs
- ✓ Saves money
- ✓ Assists in understanding where your energy is going and how to be more energy efficient
- ✓ Increases energy performance