

# Energy Efficiency for Small Business Program Case Study

## M Brothers Pizza & Kebab

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Merlana Cifci and Mehmet Inceol own and operate one of Auburns busiest pizza and kebab shop.

Customers are offered a wide range of Turkish influenced cuisine and are able to dine in or take away.

Some of the house specialties include Turkish pide, char-grilled kebabs and pizza along with coffees and traditional Turkish tea.



Industry:

Restaurant / take away food



### Sustainability Drivers

Merlana and Mehmet were very aware of the rising costs of energy and the shop's heavy reliance on electricity so they immediately saw the potential value of the Energy Efficiency Program for Small Business program. Merlana had already begun changing the halogen downlights to more efficient compact fluorescent versions so they were interested to see what else they could do.

### Assessing Energy Usage

The energy efficiency assessment conducted at M Brothers Pizza & Kebab revealed that the business spends approximately \$18,500 per year on electricity, which emits approximately 137 tonnes of CO<sub>2</sub><sup>e</sup> per year.

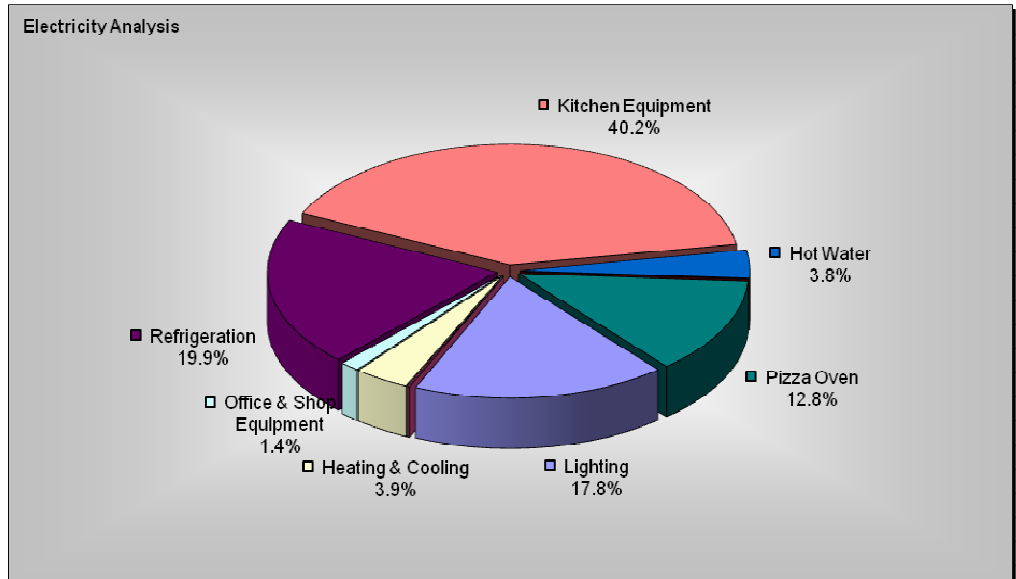


Figure 1: Energy profile for M Brothers

As demonstrated in the graph above, a lot of electricity is consumed by the kitchen equipment, pizza oven, refrigeration and lighting. The shop operated seven days, averaging over 16 hours per day.



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## Action Plan recommendations

The assessment uncovered a succinct selection of energy saving actions.

Whilst a lot of the cooking processes proved difficult to influence as they involved simple heating elements, the old pizza oven stood out as an inefficient appliance. By virtue of design and age it leaked a lot of hot air and as a result maintaining temperatures required increasing the thermostat, and operating it for longer hours. Also the air extraction unit had to run longer and during hot summer days, additional load put on air conditioning.

Description	Estimated Cost	Potential Savings pa
Replace Halogen downlights with CFL downlight	\$800	\$389
Pizza Oven - replace older Blue Seal E700 10kW with new Goldstein E236-300 9.2kW	\$10,167	\$1,047
Install 7-day timer on soft drink fridges	\$90	\$113
	<b>\$10,967</b>	<b>\$1,437</b>



Figure 2: The new pizza oven in action

## Implementing the Recommendations

The new pizza oven has been installed at a cost of \$10,167. M Brothers will receive \$4750 in rebates, bringing the cost down to \$5417.

## Results & Achievements

As a result of the new pizza oven, M Brothers will save around \$1050 and over 10 tonnes of CO<sub>2</sub><sup>e</sup> per year. The total investment after rebate will pay for itself in energy savings over approximately 5 years.

The remaining halogen downlights will be changed in the near future and a timer put on the soft drink fridges to turn them off for a few hours each night.