Energy Performance Evaluation

[Project Number] [Project Name]

Key Values

General Project Data

Location:	Auckland
Primary Operation Profile:	Personal office (100%)
Evaluation Date:	12/05/13 3:21 PM

Building Geometry Data

Gross Floor Area:	**280.72**	m^2
Building Shell Area:	**165.92**	m^2
Ventilated Volume:	**685.61**	m^3
Glazing Ratio:	**15**	%

Building Shell Performance Data

Air Leakage:	**1.01**	ACH
Outer Heat Capacity:	**14.04**	J/m^2K

Thermal Resistances	R value	$[m^2K/W]$
Building Shell Average:	**0.78**	
Floors:	**1.38 - 0.07**	
External:	**1.38 - 1.03**	
Underground:	**1.06 - 1.06**	
Openings:	**0.34 - 0.32**	

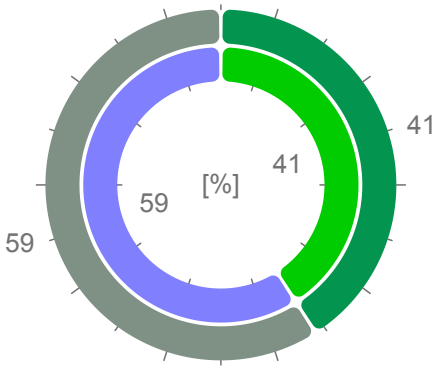
Specific Annual Demands

Net Heating Energy:	**2.25**	kWh/m^2a
Net Cooling Energy:	**48.35**	kWh/m^2a
Total Net Energy:	**50.59**	kWh/m^2a
Energy Consumption:	**123.64**	kWh/m^2a
Fuel Consumption:	**73.05**	kWh/m^2a
Primary Energy:	**219.14**	kWh/m^2a
Operation Cost:	**18.63**	NZD/m^2a
CO_2 Emission:	**0.00**	kg/m^2a

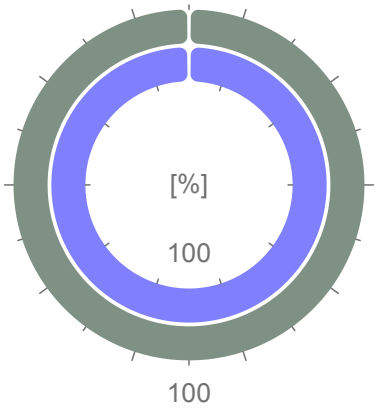
Energy Consumption by Sources

Energy				CO_2 Emission
Source Type	Source Name	Quantity kWh/a	Cost NZD/a	kg/a
Renewable	Environment	13938	NA	0
Secondary	Electricity	20123	5131	0
Total:		**34062**	**5131**	**0***

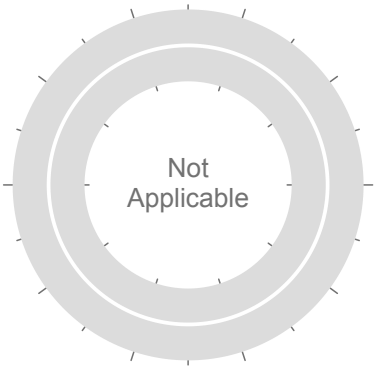
Energy Quantities



Energy Costs



CO_2 Emission



* This amount of CO_2 is absorbed in one year by 0 developed pine trees.

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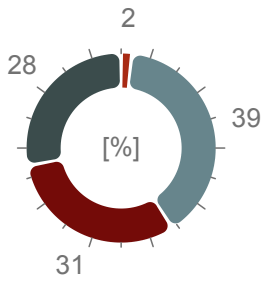
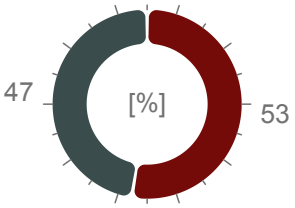
Energy Consumption by Targets

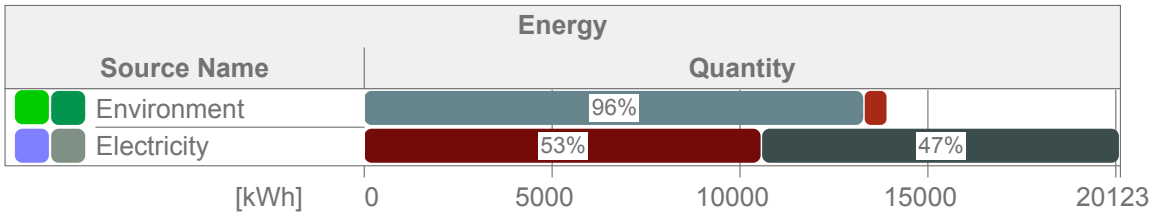
Target Name	Energy Quantity kWh/a	Cost NZD/a	Primary kWh/a	CO_2 Emission kg/a
Heating	619	0	0	0
Cooling	13319	0	0	0
Hot Water Generation	10588	2700	31766	0
Ventilation Fans	0	0	0	0
Lighting & Appliances	9535	2431	28605	0
Total:	**34062**	**5131**	**60371**	**0**

Energy Quantities



Energy Costs





CO_2 Emission

Monthly Energy Balance