



Energy Management Plan

This Energy Management Plan has been drawn up to give a summary of Energy & Waste within The Killarney Park & The Ross Hotels. The last full operational year was 2019 and the goals and capital projects in relation to Sustainability and enhancing efficiencies within the business.

The targets outlined below are in relation to 2021 and there are a number of capital projects outlined below that will contribute to achieving these results. Some of these projects are:

Thermal Energy Center – The EscoPod at The Killarney Park

In Q2 of 2020 we aim to finish the install of The EscoPod at The Killarney Park. This is a working partnership between The Killarney Park & Straightline Energy Solutions from Killarney. The overall scope of this project is to install a CHP energy center run off BioLPG with additional Heat Pump technology. The reductions associated with this project will be in the region a 10% reduction in electricity for The Killarney Park based on the forecasted occupancy we have for 2021. The EscoPod project is projected to save approx. 250,000 kWh for The Killarney Park.

Window Retrofit – The Killarney Park

In Q1 of 2021 we will be undergoing a project to seal the surround of the bar Terrace area which will help further insulate the Garden Bar.

In Q4 of 2021 we will be undergoing an extensive capital project of our Park Restaurant space. The windows are going to be retrofitted in this space which will again help with insulation on the ground floor of the building where the majority of heating is required.

Solar PV – The Ross & The Killarney Park

It is in our capital investment plan that in Q1 of 2021 both hotels will install a suite of Solar PV Panels on the roof of each hotel. The aim here will be to use Solar PV to reduce the Electrical consumption of the hotels by 25,000 kWh per hotel per year.

Water Filtration System – The Killarney Park & The Ross

In Q4 of 2020 The Killarney Park & The Ross are working with a local supplier to install a Water Filtration System that will deliver all bottled water for guests needs. This will enable the hotels to dramatically reduce that amount of Glass Waste that the hotels currently produce. This project aims to mitigate against 5 tonnes of Glass Waste in the business.

Energy			
	2019	2021 Goal	% Change 2019 Vs 2021
Electricity - The Killarney Park			
Electricity Usage (Units)	833,942	767,227	-8.0%
Electricity Usage (Cost)	€ 122,043		
Avg Unit Cost - Cents	€ 0.1463		
Electricity - The Ross			
Electricity Usage (Units)	367,832	356,797	-3.0%
Electricity Usage (Cost)	€ 58,924		
Avg Unit Cost - Cents	€ 0.1602		
BioLPG - The Killarney Park			
BioLPG Usage (Litres)	306,437	294,180	-4.0%
BioLPG Usage (Cost)	€ 99,670		
Avg Unit Litre - Cents	€ 0.325		
BioLPG - The Ross			
BioLPG Usage (Litres)	94,840	91,046	-4.0%
BioLPG Usage (Cost)	€ 30,862		
Avg Unit Litre - Cents	€ 0.325		
Waste			
	2019	2021 Goal	% Change 2019 Vs 2021
The Killarney Park			
Landfill / Residual Waste (Tonnes)	21.59	21.16	-2.0%
Food Waste (Tonnes)	79.92	75.92	-5.0%
Glass Waste (Tonnes)	25.83	24.54	-5.0%
Mixed Recyclables (Tonnes)	25.1	25.85	3.0%
Total Cost of Waste	€ 17,509		
The Ross			
Landfill / Residual Waste (Tonnes)	7.59	7.44	-2.0%
Food Waste (Tonnes)	50.54	48.01	-5.0%
Glass Waste (Tonnes)	29.79	28.30	-5.0%
Mixed Recyclables (Tonnes)	6.02	6.20	3.0%
Total Cost of Waste	€ 11,384		
Water			
	2019	2021 Goal	% Change 2019 Vs 2021
The Killarney Park			
Total Mains Water Usage (Cubic Metres)	2,694	2640.12	-2.0%
Total Well Water Usage (cubic Metres)	11,496	10921.20	-5.0%
Total Cost of Water	€ 16,459		
The Ross			
Total Mains Water Usage (Cubic Metres)	5,260	5154.80	-2.0%
Total Well Water Usage (cubic Metres)	0		
Total Cost of Water	€ 10,152		

Key KPI's		2019
The Killarney Park		
kWH Total		2,948,359
PES Total		4,199,272
KG of Co2 per Guest		124
KG of Co2 per M2		6.6
Water per Guest (l)		124
Food Waste Per Cover (kg)		0.61
The Ross		
kWH Total		993,778
PES Total		1,545,526
KG of Co2 per Guest		2.91
KG of Co2 per M2		97
Water per Guest (l)		64
Food Waste Per Cover (kg)		0.34