WASTE MANAGEMENT CONSOLIDATION SITE

STRIDE P

RDT pacific

Waste Management®

eclipse) architecture

JASMAX

BRINGING BUILDINGS TO LIFE
cosgroves

BRINGING BUILDINGS TO LIFE

cosgroves

AUCKLAND | WELLINGTON | CHRISTCHURCH | QUEENSTOWN


Waste Management
PASS WITH CARE
001
POWERED BY WASTE
2
3
4

LEADING THE CHARGE

Waste Managements Key Values

- Safety Is Everything
- Challenges Energies Us
- Care and Responsibility
- Community Commitment

Greater Auckland Context

East Tamaki Context

SITE CONTEXT

Site located in South East Auckland

Bordered by East Tamaki and Springs Road with Hampton Park to its side

Close links to streams and grassland

LAYING OUT THE FRAMEWORK

- Integrated Design Process
- The whole design team and client engaged upfront in laying out and designing the project

SAFETY BUILT IN

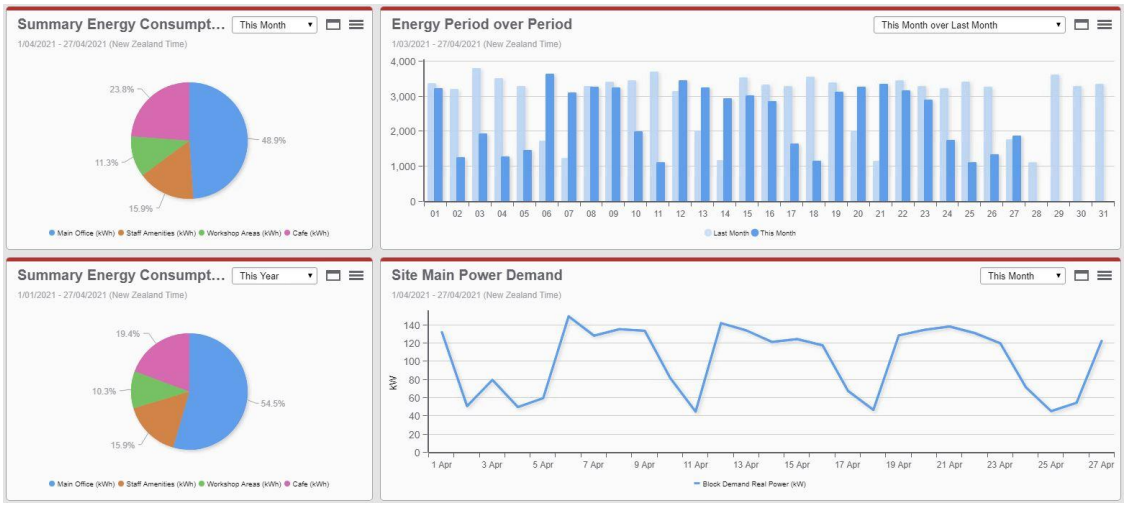
- A site layout defined by safety
- Planning for safety from the start

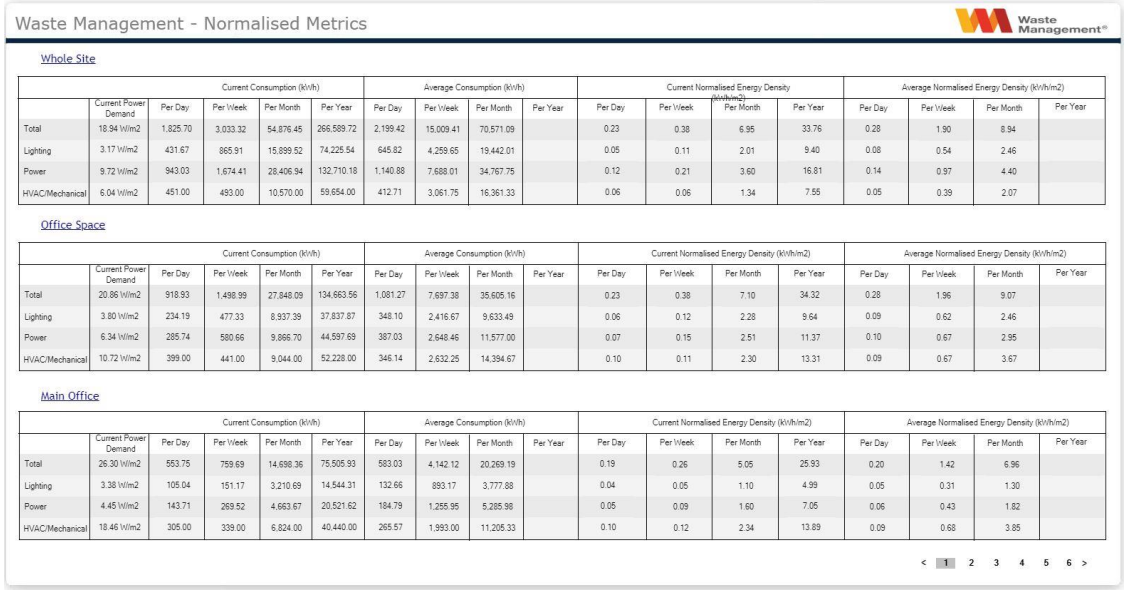
FINDING THE GREEN SPACE

- Where to place the green space on an industrial site dominated by pavement
- What does Green offer a site like this?


EXIT


2.2
2.3





Waste Management - Normalised Metrics

Waste Management®

Whole Site

	Current Consumption (kWh)					Average Consumption (kWh)				Current Normalised Energy Density (kWh/m2)				Average Normalised Energy Density (kWh/m2)			
	Current Power Demand	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year
Total	18.94 W/m2	1,825.70	3,033.32	54,876.45	266,589.72	2,199.42	15,009.41	70,571.09		0.23	0.38	6.95	33.76	0.28	1.90	8.94	
Lighting	3.17 W/m2	431.67	865.91	15,899.52	74,225.54	645.82	4,259.65	19,442.01		0.05	0.11	2.01	9.40	0.08	0.54	2.46	
Power	9.72 W/m2	943.03	1,674.41	28,406.94	132,710.18	1,140.88	7,688.01	34,767.75		0.12	0.21	3.60	16.81	0.14	0.97	4.40	
HVAC/Mechanical	6.04 W/m2	451.00	493.00	10,570.00	59,654.00	412.71	3,061.75	16,361.33		0.06	0.06	1.34	7.55	0.05	0.39	2.07	

Office Space

	Current Consumption (kWh)					Average Consumption (kWh)				Current Normalised Energy Density (kWh/m2)				Average Normalised Energy Density (kWh/m2)			
	Current Power Demand	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year
Total	20.86 W/m2	918.93	1,498.99	27,848.09	134,663.56	1,081.27	7,697.38	35,605.16		0.23	0.38	7.10	34.32	0.28	1.96	9.07	
Lighting	3.80 W/m2	234.19	477.33	8,937.39	37,837.87	348.10	2,416.67	9,633.49		0.06	0.12	2.28	9.64	0.09	0.62	2.46	
Power	6.34 W/m2	285.74	580.66	9,866.70	44,597.69	387.03	2,648.46	11,577.00		0.07	0.15	2.51	11.37	0.10	0.67	2.95	
HVAC/Mechanical	10.72 W/m2	399.00	441.00	9,044.00	52,228.00	346.14	2,632.25	14,394.67		0.10	0.11	2.30	13.31	0.09	0.67	3.67	

Main Office

	Current Consumption (kWh)					Average Consumption (kWh)				Current Normalised Energy Density (kWh/m2)				Average Normalised Energy Density (kWh/m2)			
	Current Power Demand	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year	Per Day	Per Week	Per Month	Per Year
Total	26.30 W/m2	553.75	759.69	14,698.36	75,505.93	583.03	4,142.12	20,269.19		0.19	0.26	5.05	25.93	0.20	1.42	6.96	
Lighting	3.38 W/m2	105.04	151.17	3,210.69	14,544.31	132.66	893.17	3,777.88		0.04	0.05	1.10	4.99	0.05	0.31	1.30	
Power	4.45 W/m2	143.71	269.52	4,663.67	20,521.62	184.79	1,255.95	5,285.98		0.05	0.09	1.60	7.05	0.06	0.43	1.82	
HVAC/Mechanical	18.46 W/m2	305.00	339.00	6,824.00	40,440.00	265.57	1,993.00	11,205.33		0.10	0.12	2.34	13.89	0.09	0.68	3.85	

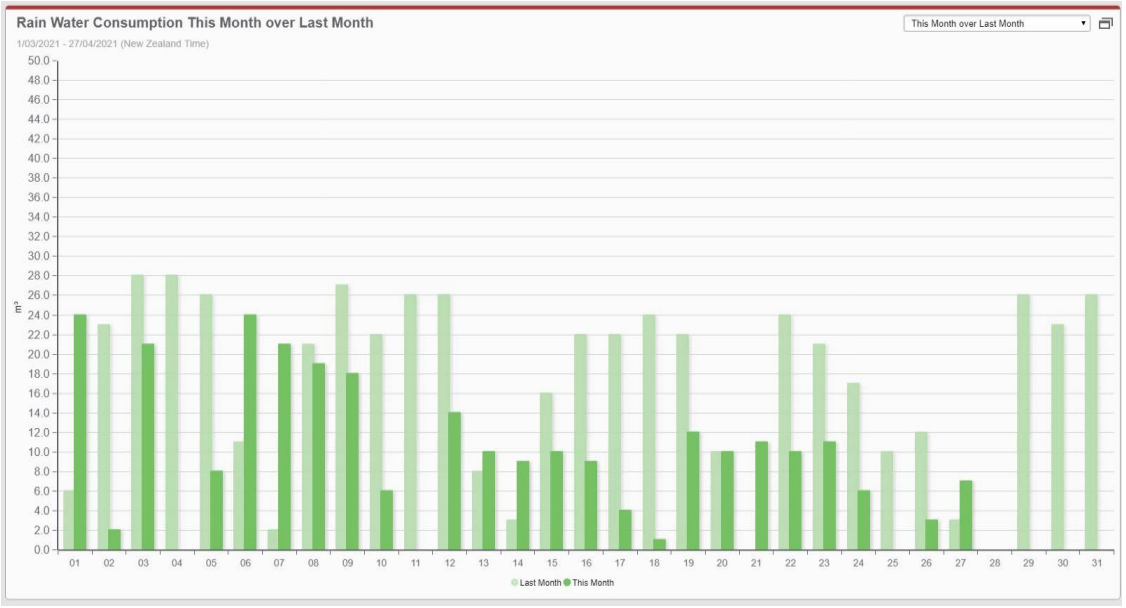
< 1 2 3 4 5 6 >

ENERGY

Goal of 75 kWh/m^2 electricity use for the office

Metering and monitoring to optimise the system over time

EV CHARGES AND A WORKSHOP TO FIT OUT EV TRUCKS


Rain Water Consumption This Month over Last Month
This Month over Last Month
1/03/2021 - 27/04/2021 (New Zealand Time)
m³
Last Month This Month


Water Type - Br...
This Year
1/01/2021 - 27/04/2021 (New Zealand Time)
1.5%
4.1%
34.5%
59.9%
Hot Water Consumpti...
This Month over Last Month
Cold Water Consump...
Rain Water Consumption This Mon...
Hot Water Return This Month over ...
Last Month This Month

WATER

WMNZ FACTS

ON SITE STORM WATER TREATMENT

Storm water is treated on site using swales stormwater "jellyfish" filtration systems.

WMNZ FACTS

70% OF WATER IS RECYCLED

The automatic truck wash uses 1,000 ltr per wash. 700 ltr is recycled and 300 ltr is a new water for chemical dilution and rinsing.

GREENSTAR AND COMPLIANCE


QUESTIONS
STRIDE.
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