RECORD Inspection Report Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

Certification Name: Univ	versity of Joh	annesburg_Enoch Son	toriga					
Client Information				Building Lo	ration			
Company Name: Unive	versity of Johan	ineshura	=			1: 326 Chris Ha	ni Road, Soweto	
Building Name: Enoc		mesburg			71441.033	2. 020 00	noud, someto	
Building Name: ETIOC	.n sontongu		_		Cia		_	
						: Johannesbur	g	
					Provinc	e: Gauteng		
Client Representative			_	Building Inf	ormation (from	SANS 10400->	KA:2021)	
Name: Maso	ala Mbambele	li			Energy Zon	e:	1	
Contact Number: (078)	3) 667 1760				Occupancy Clas	s:	A3	
E-mail Address: mma	asala@uj.ac.za	1		Reference	Energy Consumption	1:	110	
			=	-	*fror	n SANS1040	N-XA · 2021	
Building Assessment Planning						0, 10 20 10	0 70 11 2022	
Juliung Assessment Flamming								
			=		name of the person the site inspection:	who represented	d the property	
Has the Inspector identified the person								
who will assist the Inspector during the		Yes		Masala Mbam	beleli			
assessment?			_					
Has the Inspector phoned the inspection				D	ate of the Inspection	1:	2022/10/06	
Has the Inspector phoned the inspection assistant to inspection arrangements?		Yes			Start Time	e:	9:00 am	
					Duratio	n:	30 minutes	
Did the Inspector share the Building			=					
Assessment Method Statement with the		Yes						
Building Representative?								
			_					
Has the Inspector confirmed the site		No						
Has the Inspector confirmed the site Health & Safety arrangements?		No						
Health & Safety arrangements?								
Health & Safety arrangements? Details on when and how Building Assessment N	Method Stateme		 - -		etails on Health and	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment N	Method Stateme		 - 		etails on Health and onsiderations apply	Safety considera	tions	
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RECORD Inspection Report

Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

Report Date	03 November 2022
RMS EPC Inspector:	Nikhil Naidoo

onsumption Source Data	Bulk check meter data				
ondanipuon dodi de Data	CE Data Durk trick meter data				
	Validations Checks		Results	S	
	Confirm meter location with reticulation diagram	Yes		Consumption Unit of Measure	kWh
	Confirm meter existence and purpose with building rep	Yes		Annual Consumption Value	78 772
	Compare Serial numbers (data file vs reticulation)	Yes		kWh per Annum	78 772
	Check that data time-period is for Year of Assessment	Yes			
	Check data completeness (identify estimates)	Yes			
	Compare data with another data source	Yes			
	Visually inspect meter on site	Yes			
•	Compare meter serial number (on meter) with other S/N ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the	e EPC grade.	
	ods used	Yes	have no impact on the	e EPC grade.	
sensitivity analsyis was done to check ti	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the	e EPC grade.	
sensitivity analsyis was done to check ti	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the	e EPC grade.	
sensitivity analsyis was done to check ti	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the	₽ EPC grade.	
sensitivity analsyis was done to check ti	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the	₽ EPC grade.	
sensitivity analsyis was done to check ti	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the	₽ EPC grade.	
sensitivity analsyis was done to check ti	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the	e EPC grade.	
Describe any other validation methols sensitivity analsyis was done to check the sensitivity analsy is was done to check the sensitivity analysis was done to check the sensitivity and the sensitivity analysis was done to check the sensitivity and the sensitivity and the sensit	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the	e EPC grade.	
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sensitivity analsyis was done to check the sensitivity analsy is was done to check the sensitivity analysis of the sensitivity analsy is was done to check the sensitivity analsy is the sensitivity analysis of the sensitivity analysis of the sensitivity analsy is was done to check the sensitivity analysis of the sensitivity and sensitivity analysis of the sensitivity and sensitivity and sensitivity and sensitivity analysis	ods used the impact of deviating the figure by 2% on the building EPC g	Yes	b have no impact on the	e EPC grade.	

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Certification Name:	University of Johannesburg_Enoch Sontonga		
Energy Carrier: Solar PV Supp	olied Electricity		
Consumption Source Data	Energy source not in building		
			
Validations Checks		Results	
	Confirm meter location with reticulation diagram	Consumption Unit of Measure	kWh
	Confirm meter existence and purpose with building representative	Annual Consumption Value (Raw)	0
	Compare Serial numbers (data file vs reticulation)	kWh per Annum	0
	Check that data time-period is for Year of Assessment		
	Check data completeness (identify estimates)		
	Compare data with another data source		
	Visually inspect meter on site		
	Compare meter serial number (on meter) with other S/N		
Inspector comments from site a	ssessment		
List any further actions that ma	y be needed:		
No further action required			

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Certification Name:	University of Johannesburg_Enoch Sontonga			
From Control Bland Ford				
Energy Carrier: Diesel Fuel				
Consumption Source Data	Another source			
<u></u>				
	Validations Checks		Results	
	Confirm invoices/delivery notes are for this building location	No	Consumption Unit of	Measure kWh
	Confirm invoices/delivery notes are for the Year of Assessment	No	Annual Consumption Val	ue (Raw)
	Inspect generator or other diesel consuming equipment	Yes	MJ/ per unit of	measure 39
	Inspect diesel storage facilities	Yes	GJ pe	er annum -
	Confirm diesel refilling rules	Yes	kWh pe	er Annum -
Inspector comments from site ass	sessment			
No diesel genset found by site				
List any further actions that may	be needed:			
No further action required				

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Consumption Source Data Energy source not in building /alidations Checks Confirm invoices/delivery notes are for this building location Confirm invoices/delivery notes are for the Year of Assessment Inspect gas consuming equipment Inspect gas storage facilities Confirm gas refilling rules Describe any other validation methods used	Consumption Unit of Measure Annual Consumption Value (Raw) MJ/ per unit of measure GJ per annum KWh per Annum	kWH 0 46.1 0 0
Alidations Checks Confirm invoices/delivery notes are for this building location Confirm invoices/delivery notes are for the Year of Assessment Inspect gas consuming equipment Inspect gas storage facilities Confirm gas refilling rules escribe any other validation methods used	Consumption Unit of Measure Annual Consumption Value (Raw) MU/ per unit of measure GJ per annum	0 46.1 0
alidations Checks Confirm invoices/delivery notes are for this building location Confirm invoices/delivery notes are for the Year of Assessment Inspect gas consuming equipment Inspect gas storage facilities Confirm gas refilling rules escribe any other validation methods used	Consumption Unit of Measure Annual Consumption Value (Raw) MU/ per unit of measure GJ per annum	0 46.1 0
Confirm invoices/delivery notes are for this building location Confirm invoices/delivery notes are for the Year of Assessment Inspect gas consuming equipment Inspect gas storage facilities Confirm gas refilling rules escribe any other validation methods used	Consumption Unit of Measure Annual Consumption Value (Raw) MU/ per unit of measure GJ per annum	0 46.1 0
Confirm invoices/delivery notes are for this building location Confirm invoices/delivery notes are for the Year of Assessment Inspect gas consuming equipment Inspect gas storage facilities Confirm gas refilling rules escribe any other validation methods used	Consumption Unit of Measure Annual Consumption Value (Raw) MU/ per unit of measure GJ per annum	0 46.1 0
Confirm invoices/delivery notes are for this building location Confirm invoices/delivery notes are for the Year of Assessment Inspect gas consuming equipment Inspect gas storage facilities Confirm gas refilling rules escribe any other validation methods used	Consumption Unit of Measure Annual Consumption Value (Raw) MU/ per unit of measure GJ per annum	0 46.1 0
Confirm invoices/delivery notes are for the Year of Assessment Inspect gas consuming equipment Inspect gas storage facilities Confirm gas refilling rules escribe any other validation methods used	Annual Consumption Value (Raw) MJ/ per unit of measure GJ per annum	0 46.1 0
Inspect gas storage facilities Confirm gas refilling rules escribe any other validation methods used	MJ/ per unit of measure GJ per annum	46.1 0
Inspect gas storage facilities Confirm gas refilling rules escribe any other validation methods used	GJ per annum	0
Confirm gas refilling rules escribe any other validation methods used		
escribe any other validation methods used	kWh per Annum	0
ist any further actions that may be needed:		
o further action required		

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nergy Carrier: Solid Fuel			
Consumption Source Data	Energy source not in building		
alidations Checks		Results	
	Confirm invoices/delivery notes are for this building location	Consumption Unit of Measure	kg
	Confirm invoices/delivery notes are for the Year of Assessment	Annual Consumption Value (Raw)	0
	Inspect generator or other diesel consuming equipment	MJ/ per unit of measure	0.0
	Inspect storage facilities	GJ per annum	0
	Confirm refilling rules	kWh per Annum	0
nspector comments from site assessm	ient		
spector comments from site assessm	ient		
ispector comments from site assessm	ient		
Ispector comments from site assessm	ient		
nspector comments from site assessm	ient		
nspector comments from site assessm	ient		
ist any further actions that may be nee			

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Report Date	03 November 2022
RMS EPC Inspector:	Nikhil Naidoo

Certification Name:	University of Johannesburg_Enoch Sontonga		
Energy Carrier: Export Energy			
Consumption Source Data	Energy source not in building		
Validations Checks		Results	
	Confirm invoices/delivery notes are for this building location	Consumption Unit of Measure	kg
	Confirm invoices/delivery notes are for the Year of Assessment	Annual Consumption Value (Raw)	0
	Check whether readings are actual and not estimates	MJ/ per unit of measure	0.0
	Inspect storage facilities	GJ per annum	0
	Check data against another source	kWh per Annum	0
Describe any other validation method	ds used		
Inspector comments from site assessr	ment		
List any further actions that may be n	eeded:		
No further action required			

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Report Date 03 November 2022
RMS EPC Inspector: Nikhil Naidoo

Exclusions		
Store Rooms	Garages/Basement Parking	
Not applicable	Yes, the floor plan shows all the parking areas	
Dutside Areas	Net Floor Area Report Findings	
lo. The floor plan does not show all the outside areas	Construction Area:	15
	Store Rooms Total	
	Outside Areas Total	
	Parking Area Total	
	Vertical Elements	
	Excluded Areas Total	
	Net Floor Area	15
	Excluded Area %	0.0

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/Yea
big recessed circle	12	16	84	16 128	-	83
square wall light	29	10	84	24 360	-	1 26
lantern pole	8	50	84	33 600	-	1 74
small LED flood	5	20	84	8 400	-	43
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
	1	1	Excluded Areas Total	kWh per Year	1	4 28
			Excluded Area Energy			5:

Excluded Energy is less than 10% of total building energy consumption and does not have to be shown on the certificate



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Report Date 03 November 2022

RMS EPC Inspector:	Nikhil Naidoo

Certification Name:

University of Johannesburg_Enoch Sontonga

Building Details

Building Name	Enoch Sontonga
Energy Zone	1
Reference Energy Consumption (kWh/m2.annum)	110
Year of Assessment Start	01 January 2021

Year of Assessment End 31 December 2021
Occupancy Class A3

Occupancy Rate 100%

Energy Carriers

<u>Total E</u>	nergy Consumption (kWh)	78 772
	Grid Electricity (kWh):	78 772
	Solar PV Electricity (kWh):	0
	Diesel Fuel (kWh):	0
	Gas (kWh):	0
	Solid Fuel (kWh):	0
	Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	47
Energy per Adjusted Net Floor Area (kWh/m2.annum):	47

Building Performance

Building Performance Scale (from SANS 1544)
Rating A: energy performance < 0.3Ereference
Rating B: 0.3Ereference <= energy performance < 0.6Ereference
Rating C: 0.6Ereference <= energy performance < 0.9Ereference
Rating D: 0.9Ereference <= energy performance < 1.1Ereference
Rating E: 1.1Ereference <= energy performance < 1.4Ereference
Rating F: 1.4Ereference <= energy performance < 1.7Ereference

Additional Information

Signature: Inspector

Rating G: energy performance >= 1.7Ereference

No of floors (excl parking):	
Year of Construction: >2 years	
Year of Renovation: Within the past 2	years
Date of Approved Plans: >2 years	
Cadastral (Erf no) Info: MANOR MP1&2	11KV WOODLANDS DRIVE

Inspection Report Date: 03 November 2022

Certification Name: University of Johannesburg_Enoch Sontonga

Net Floor Area

Total Net Floor Area	1 585
Excluded Area	0
Excluded Area % of Total	0%

Excluded Area Energy Consumption

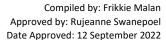
zwiada wa zwieg wasampilo				
Total Excluded Area Energy Consumption (kWh)	4 289			
Net Energy = Total Energy - Exclusions = 78 772 - 4 289				
Equals (kWh)	74 483			
Excluded Area Energy as % of Total	5%			

Building EPC Calculcation

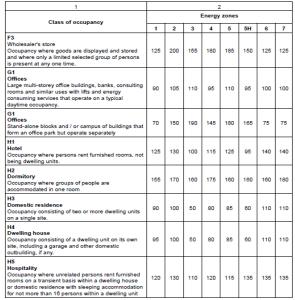
Signature: Client

Building EPC Calculcation	
Reference Energy (kWh/m2.annum):	110
(from SANS 10400-XA:2021)	
Variance = 47 - 110	
Equals (kWh/m2.annum):	-63
Actual/Reference Energy = 47 / 110	
Equals:	0.43
Provisional Building Rating:	В

rms emoternoternosolutions







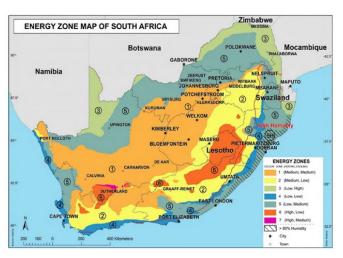


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

1	2							
Class of annuary		Energy zones						
Class of occupancy		2	3	4	5	5H	6	7
A1 Entertainment and public assembly Occupancy where persons gather to eat, drink, dance or participate in other recreation.	75	75	95	70	95	95	80	80
A2 Theatrical and indoor sport Occupancy where persons gather for the viewing of theatrical, operatic, orchestral, choral, cinematographical or sport performances.	95	95	110	90	110	110	105	105
A3 Places of instruction Occupancy other than primary or secondary schools, where students or other persons assemble for the purpose of tuition or learning.	110	155	110	125	140	140	120	120
A3 Places of instruction Occupancy where school children assemble for the purpose of tuition or learning	60	65	55	60	55	60	65	65
A4 Worship Occupancy where persons assemble for the purpose of worshipping.	70	45	45	40	50	40	70	70
E2 Hospital Occupancy where people are cared for or treated because of physical or mental disabilities and where they are generally bed-ridden.	325	335	225	295	295	230	345	345
E3 Other institutional (residential) Occupancy where groups of people who either are not fully fit, or who are restricted in their movements or their ability to make decisions, reside and are cared for	120	95	90	90	100	80	130	130
F1 Large shop Occupancy where merchandise is displayed and offered for sale to the public and the floor area exceeds 250 m².	125	200	155	180	185	150	125	125
F2 Small shop Occupancy where merchandise is displayed and offered for sale to the public and the floor area does not exceed 250 m².	75	150	100	125	130	95	80	80