

Inspection Report Date:	03 November 2022
RMS EPC Inspector:	Claudia Hedley

Certification Name: University of Johannesburg_DFC Clinic

Client Information

Company Name: University of Johannesburg
Building Name: DFC Clinic

Building Location

Address 1: 23 Annet Rd, Cottesloe, Johannesburg
City: Johannesburg
Province: Gauteng

Client Representative

Name: Masala Mbambeleli
Contact Number: (078) 667 1760
E-mail Address: mmasala@uj.ac.za

Building Information (from SANS 10400-XA:2021)

Energy Zone:	1
Occupancy Class:	G1
Reference Energy Consumption:	70

*
 *from SANS10400-XA : 2021

Building Assessment Planning

Has the Inspector identified the person who will assist the Inspector during the assessment?	Yes
Has the Inspector phoned the inspection assistant to inspection arrangements?	Yes
Did the Inspector share the Building Assessment Method Statement with the Building Representative?	Yes
Has the Inspector confirmed the site Health & Safety arrangements?	No

Name and Surname of the person who represented the property owner during the site inspection:
 Masala Mbambeleli

Date of the Inspection:	2022/10/06
Start Time:	9:00 am
Duration:	30 minutes

Details on when and how Building Assessment Method Statement was shared
 Shared by Nikhil Naidoo to the client rep

Details on Health and Safety considerations
 General H&S considerations apply

Confirmation by Building Representative:

Year of Assessment Start	2021/01/01
Year of Assessment End	2021/12/31

Building Operations

During the Year of Assessment:

Single or Multiple Tenants?	Single
Confirm Building Occupancy (%)	100%

Energy Carriers

During the Year of Assessment:

Did the building use grid supplied electricity?	Yes
Did the building use solar PV electricity?	No
Did the building use diesel fuel?	Yes
Did the building use gas?	No
Did the building use any solid fuel for energy?	No
Was energy exported from the building?	No

Building Operating Hours

	Start	End	hours/day	hours/week
Mon to Thurs	07:00:00	18:00:00	11	44
Fridays	07:00:00	18:00:00	11	11
Saturdays	00:00:00	00:00:00	0	0
Sundays	00:00:00	00:00:00	0	0
			Total	55

Net Floor Area (are these on the plans?)

Building layout during the year of assessment	Yes
Store rooms?	Yes
Parking areas and basements?	No
Outside areas?	No
Vertical building elements?	Yes

Any further actions regarding floor plans?
 No further action required



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Energy Carrier: Grid Supplied Electricity

Consumption Source Data Bulk check meter data

Validations Checks		
Confirm meter location with reticulation diagram		Yes
Confirm meter existence and purpose with building rep		Yes
Compare Serial numbers (data file vs reticulation)		Yes
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		Yes

Results		
Consumption Unit of Measure		kWh
Annual Consumption Value		51 757
kWh per Annum		51 757

Describe any other validation methods used

A sensitivity analysis was done to check the impact of deviating the figure by 2% on the building EPC grade. This was found to have no impact on the EPC grade.

Inspector comments from site assessment

List any further actions that may be needed:

No further action required

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Energy Carrier: Solar PV Supplied Electricity

Consumption Source Data Energy source not in building

Validations Checks

Confirm meter location with reticulation diagram
Confirm meter existence and purpose with building representative
Compare Serial numbers (data file vs reticulation)
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

Results

Consumption Unit of Measure	kWh
Annual Consumption Value (Raw)	0
kWh per Annum	0

Describe any other validation methods used

Inspector comments from site assessment

No diesel genset

List any further actions that may be needed:

No further action required

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Energy Carrier: Diesel Fuel

Consumption Source Data	Another source
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Validations Checks	
Confirm invoices/delivery notes are for this building location	No
Confirm invoices/delivery notes are for the Year of Assessment	No
Inspect generator or other diesel consuming equipment	Yes
Inspect diesel storage facilities	Yes
Confirm diesel refilling rules	Yes

Results	
Consumption Unit of Measure	kWh
Annual Consumption Value (Raw)	2 157
MI/ per unit of measure	39
GJ per annum	83
kWh per Annum	2 157

Describe any other validation methods used

Inspector comments from site assessment

An assumption was made that the diesel energy footprint accounts for 4% of the total energy footprint.

List any further actions that may be needed:

No further action required

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Energy Carrier: Gas

Consumption Source Data Energy source not in building

Validations 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

Results

Consumption Unit of Measure	kWH
Annual Consumption Value (Raw)	0
MI/ per unit of measure	46.1
GJ per annum	0
kWh per Annum	0

Describe any other validation methods used

[Empty text area for validation methods]

Inspector comments from site assessment

[Empty text area for inspector comments]

List any further actions that may be needed:

No further action required

[Empty text area for further actions]

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Energy Carrier: Solid Fuel

Consumption Source Data	Energy source not in building
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Validations Checks

Confirm invoices/delivery notes are for this building location	
Confirm invoices/delivery notes are for the Year of Assessment	
Inspect generator or other diesel consuming equipment	
Inspect storage facilities	
Confirm refilling rules	

Results

Consumption Unit of Measure	kg
Annual Consumption Value (Raw)	0
MI/ per unit of measure	0.0
GI per annum	0
kWh per Annum	0

Describe any other validation methods used

Inspector comments from site assessment

List any further actions that may be needed:

No further action required

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Energy Carrier: Export Energy

Consumption Source Data Energy source not in building

Validations Checks

Confirm invoices/delivery notes are for this building location
Confirm invoices/delivery notes are for the Year of Assessment
Check whether readings are actual and not estimates
Inspect storage facilities
Check data against another source

Results

Consumption Unit of Measure	kg
Annual Consumption Value (Raw)	0
MI/ per unit of measure	0.0
GJ per annum	0
kWh per Annum	0

Describe any other validation methods used

Inspector comments from site assessment

List any further actions that may be needed:

No further action required

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Exclusions

Store Rooms

Not applicable

Garages/Basement Parking

Yes, the floor plan shows all the parking areas

Outside Areas

No. The floor plan does not show all the outside areas

Net Floor Area Report Findings

Construction Area:	3 432
Store Rooms Total	0
Outside Areas Total	0
Parking Area Total	0
Vertical Elements	0
Excluded Areas Total	0
Net Floor Area	3 432
Excluded Area %	0.0%

Exclusion Comments

No further action required

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/Year
lighting	3		24	84	6 048	314
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
Excluded Areas Total kWh per Year						314
Excluded Area Energy as % of Total						1%

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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Building Details

Building Name	DFC Clinic
Energy Zone	1
Reference Energy Consumption (kWh/m2.annum)	70
Year of Assessment Start	01 January 2021
Year of Assessment End	31 December 2021
Occupancy Class	G1
Occupancy Rate	100%

Energy Carriers

Total Energy Consumption (kWh)	53 914
Grid Electricity (kWh):	51 757
Solar PV Electricity (kWh):	0
Diesel Fuel (kWh):	2 157
Gas (kWh):	0
Solid Fuel (kWh):	0
Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	16
Energy per Adjusted Net Floor Area (kWh/m2.annum):	16

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
 Rating G: energy performance >= 1.7Ereference

Additional Information

No of floors (excl parking):	3
Year of Construction:	>2 years
Year of Renovation:	Within the past 2 years
Date of Approved Plans:	>2 years
Cadastral (Erf no) Info:	

Signature: Inspector

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Net Floor Area

Total Net Floor Area	3 432
Excluded Area	0
Excluded Area % of Total	0%

Excluded Area Energy Consumption

Total Excluded Area Energy Consumption (kWh)	314
Net Energy = Total Energy - Exclusions = 53 914 - 314	
Equals (kWh)	53 599
Excluded Area Energy as % of Total	1%

Building EPC Calculation

Reference Energy (kWh/m2.annum):	70
(from SANS 10400-XA:2021)	
Variance = 16 - 70	
Equals (kWh/m2.annum):	-54
Actual/Reference Energy = 16 / 70	
Equals:	0.22
Provisional Building Rating:	A

Signature: Client



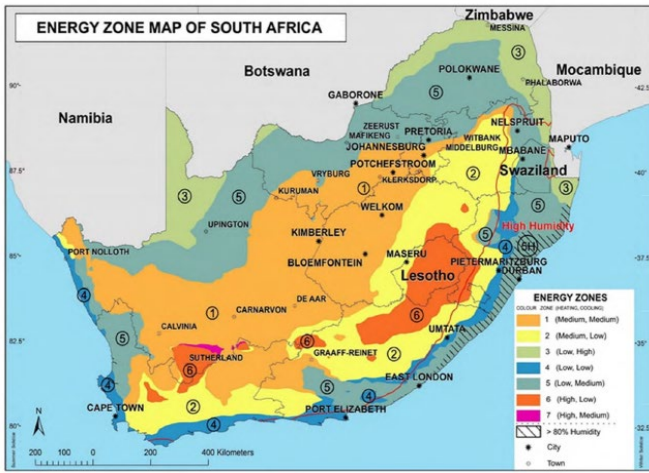


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

1 Class of occupancy	2 Energy zones							
	1	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	65	60	65	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 m ² .	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 m ² .	75	150	100	125	130	95	80	80

Table 1 (concluded)

1 Class of occupancy	2 Energy zones							
	1	2	3	4	5	5H	6	7
F3 Wholesaler's store Occupancy where goods are displayed and stored and where only a limited selected group of persons is present at any one time.	125	200	155	180	185	150	125	125
G1 Offices Large multi-storey office buildings, banks, consulting rooms and similar uses with lifts and energy consuming services that operate on a typical daytime occupancy.	90	105	110	95	110	95	100	100
G1 Offices Stand-alone blocks and / or campus of buildings that form an office park but operate separately	70	150	190	145	180	165	75	75
H1 Hotel Occupancy where persons rent furnished rooms, not being dwelling units.	125	130	100	115	125	95	140	140
H2 Dormitory Occupancy where groups of people are accommodated in one room	155	170	160	175	160	160	180	180
H3 Domestic residence Occupancy consisting of two or more dwelling units on a single site.	90	100	50	80	85	60	110	110
H4 Dwelling house Occupancy consisting of a dwelling unit on its own site, including a garage and other domestic outbuilding, if any.	95	100	50	80	85	60	110	110
H5 Hospitality Occupancy where unrelated persons rent furnished rooms on a transient basis within a dwelling house or domestic residence with sleeping accommodation for not more than 10 persons within a dwelling unit	120	130	110	120	115	135	135	135