Project Details

Project Name
Piloto CENIT

Number of Distinct Buildings
1

Number of EDGE Subproject(s) associated
1

Total Project Floor Area (m²)
156.48

Project Owner Name
Cenit Transporte y Logística de Hidrocarburos S.A.S

Project Owner Email
teoremagerencia@gmail.com

Project Owner Phone
Mobile 57 - 3193253828

Share project name and basic information to potential investors or banks?
Yes

Is this Project created for Training Purpose?
No

Address Line1
Planta Ecopetrol Cisneros - Vereda El paraiso

Address Line2
Km 5.2 Cisneros - Pto Berrio

City
Cisneros

State/ Province
Antioquia

Postal Code
053050

Country
Colombia

Project Number
1001010269

Do you intend to certify?
Yes

Associated Subproject(s)
Total associated subprojects: 1
The complete list of Associated Subprojects is available in the last section of this document.

Subproject Details

Subproject Name
Piloto CENIT

Building Name
Piloto CENIT-MPS

Subproject Multiplier for the Project
1

Certification Stage
Post-Construction

Status
Certified

Auditor
Daniel Bernal

Certifier
CAMACOL

File Number
22052310136723

Address Line1
Planta Ecopetrol Cisneros - Vereda El paraiso

Address Line2
Km 5.2 Cisneros - Pto berrio

City
Cisneros

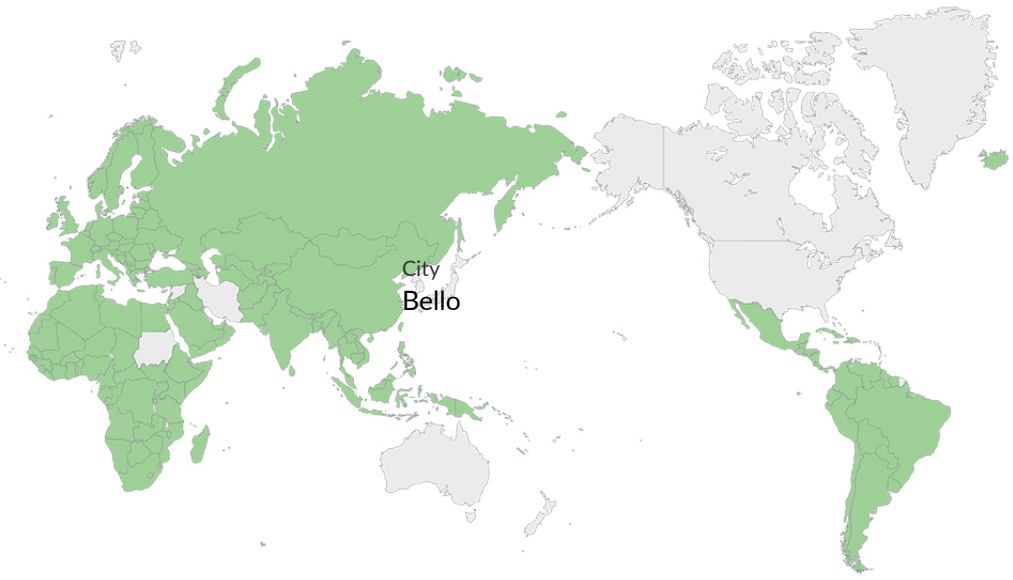
State/ Province
Antioquia

Postal Code
053050

Country
Colombia

Subproject Type
New Building

Location



Country
Colombia

City
Bello

Building Type

Primary Building Type
Serviced Apartment

Subtype
Serviced Apartment

Building Data

Default	*User Entry*
Gross Internal Area (m²) ~~20,730~~	156.5
No. of Floors Above Grade ~~5~~	1
No. of Floors Below Grade 2	0
Floor-to-Floor Height (m) ~~3.0~~	2.54
Aggregate Roof Area (m²) ~~156~~	156.48

Operational Details

Default	*User Entry*
Working Days (Days/Week) ~~7.00~~	7
No. of Holidays (Days/Year) -	
Hours of Operation (Hrs/Day) ~~16.56~~	8
Occupancy Density (m²/Person) ~~44~~	19.5
Average Occupancy Rate (%) ~~70.0~~	50

Building Costs

Cost of Construction (COP/m2) ~~4,333,698~~	2,938,879
Estimated Sale Value (COP/m2) 6,153,851	

Area and Loads Breakdown

Gross Internal Area (m^2)
156.5

	Default (m^2)	*User Entry (m^2)*
Apartment Area	~~232.0~~	101.08
Lobby	0.4	0
Corridors	~~0.1~~	23.6
Recreational Area	~~4.7~~	31.8
Back of House	2.2	0
Indoor Car Parking	133.6	0
Studio	50	0
1-Bedroom	~~40~~	4
2-Bedroom	60	0
3-Bedroom	30	0
4-Bedroom	20	0

Total No. of Rooms
4.00

	Default	*User Entry*
Area with Exterior Lighting (m^2)	~~6,219~~	40.73
External Carparking Area (m^2)	1,000	0
Covered Carparking Area (m^2)	19,000	0

Water End Uses

Irrigated Area (m^2)	2,073	0
Swimming Pool Type (m^2)	~~Indoor Heated Pool and Outdoor Unheated Pool~~	None
Swimming Pool (m^2)	20	0
Car Washing	No	No
Washing Clothes	No	No
Process Water	No	No
Dishwasher	Yes	Yes
Pre Rinse Spray Valve	Yes	Yes

Kitchen & Food Preparation

Kitchen | Pantry | Coffeehouse/Café

Description	Default	User Selection	Unit
No. of Meals /day	2.00		Meals/Person/day
Total People having on site meal	50%		%
Food Prepared on Site	80%		%
People using pantry	10%		%
People using coffeehouse	40%		%
Energy per meal	2.61		kWh/meal

Building Dimensions

Default Building Length (m)	*User Entry (m)*	*Façade Area Exposed to Outside Air (%)*
North ~~6.4~~	21.46	100
North East 6.4	0	100
East ~~6.4~~	7.26	100
South East 6.4	0	100
South ~~6.4~~	21.46	100
South West 6.4	0	100
West ~~6.4~~	7.26	100
North West 6.4	0	100

Building HVAC System

Select Input Type

Simplified Inputs

Does the Building Design Include an AC system?

No

Does the Building Design Include a Space Heating System?

No

Does the Building Design Include Purchased Chilled Water and Heating Supply (District Cooling or Heating)?

None

Applicable Baseline

EDGE

Fuel Usage

	Default	*User Entry*
Hot Water	Electricity	Electricity
Space Heating	Electricity	Electricity
Generator	Diesel	Diesel
% of Electricity Generation Using Diesel	5.00%	
Fuel Used for Cooking	~~Electricity~~	None

CO_2 Emissions Factor

	Default	*User Entry*
Electricity (kg of CO_2/kWh)	0.21	
Diesel (kg of CO_2/kWh)	0.25	
Natural Gas (kg of CO_2/kWh)	0.18	
LPG (kg of CO_2/kWh)	0.24	
Coal (kg of CO_2/kWh)	0.32	
Fuel Oil (kg of CO_2/kWh)	0.25	

Cost Input

	Default	*User Entry*
Electricity (COP/kWh)	203.46	
Diesel (COP/Lt)	1,932.87	
Natural Gas (COP/kg)	2,520.82	
LPG (COP/kg)	2,520.82	
Coal (COP/kg)	274.7	
Fuel Oil (COP/Lt)	1,035.0	
Water (COP/KL)	1,865.05	
Conversion from USD (COP/USD)	3,391.00	

Climate Data

Default	*User Entry*	*Default*	*User Entry*
Elevation (m) ~~1,495~~	1,050	Latitude (degrees) ~~6~~	6.53682
Rainfall (mm/year) ~~1,669~~	3,015	ASHRAE Climate Zone 4A	4A

Temperature (˚C)

Default (Monthly Max.)	*User Entry (Monthly Max.)*	*Default (Monthly Max.)*	*User Entry (Monthly Max.)*
Jan 26.1	Jan	Jul 26.4	Jul
Feb 25.4	Feb	Aug 26.3	Aug
Mar 25.6	Mar	Sep 25.6	Sep
Apr 24.4	Apr	Oct 26.5	Oct
25.3		Nov 25.7	Nov
Jun 25.3	Jun	Dec 25.2	Dec

Default (Monthly Min.)	*User Entry (Monthly Min.)*	*Default (Monthly Min.)*	*User Entry (Monthly Min.)*
Jan 11.4	Jan	Jul 11.0	Jul
Feb 11.7	Feb	Aug 11.5	Aug
Mar 11.5	Mar	Sep 11.4	Sep
Apr 11.9	Apr	Oct 11.0	Oct
11.3		Nov 11.4	Nov
Jun 11.3	Jun	Dec 12.0	Dec

Climate Data

Relative Humidity (%)

Default (Monthly Avg.)	*User Entry (Monthly Avg.)*	*Default (Monthly Avg.)*	*User Entry (Monthly Avg.)*
Jan 69.7%	Jan	Jul 69.8%	Jul
Feb 71.5%	Feb	Aug 68.3%	Aug
Mar 71.9%	Mar	Sep 71.2%	Sep
Apr 73.1%	Apr	Oct 69.2%	Oct
72.6%		Nov 72.5%	Nov
Jun 70.4%	Jun	Dec 71.9%	Dec

Wind Speed (m/sec)

Default (Monthly Avg.)	*User Entry (Monthly Avg.)*	*Default (Monthly Avg.)*	*User Entry (Monthly Avg.)*
Jan 0.3	Jan	Jul 0.8	Jul
Feb 0.2	Feb	Aug 0.9	Aug
Mar 0.1	Mar	Sep 0.6	Sep
Apr 0.1	Apr	Oct 0.1	Oct
0.3		Nov 0.1	Nov
Jun 0.6	Jun	Dec 0.2	Dec

Results

Final Energy Use (kWh/Month)
9,385

Final Water Use (m^3/Month)
273

Final Operational CO_2 Emissions (tCO_2/Month)
1.97

Final Embodied Carbon (Kg CO_2e/m^2)
101

Final Utility Cost (COP/Month)
1,899,107

Subproject Floor Area (m^2)
156.48

Energy Savings (MWh/Year)
87.48

Water Savings (m^3/Year)
2,186.06

Operational CO_2 Savings (tCO_2/Year)
18.40

Embodied Carbon Savings (tCO_2e)
41.25

Utility Cost Savings in USD (USD/Year)
9,017.25

Utility Cost Savings in Local Currency (Million COP/Year)
30.578

Base Case EPI (kWh/m^2/year)
1,279.0

Improved Case EPI (kWh/m^2/year)
720.0

Total Building Construction Cost (Million COP)
459.9

Incremental Cost (Million COP)
195.28

% Increase in cost
42.46%

Payback in Years (Yrs.)
6.4

Number of People Impacted (No./Year)
43,812

Base Case - Refrigerant Global Warming Potential (tCO_2e/Year)
0.1

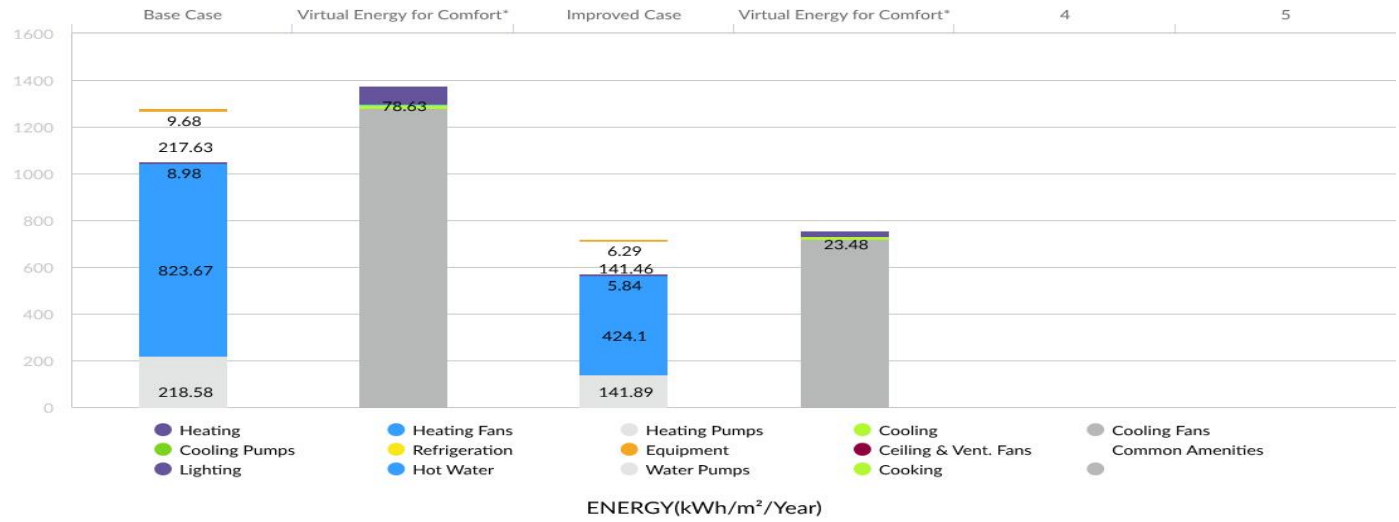
Improved Case - Refrigerant Global Warming Potential (tCO_2e/Year)
0.1

ENERGY SAVINGS

EDGE ADVANCED

Energy Efficiency Measures 45.18%

Meets EDGE Energy Standard



Net Carbon Emissions: 24.9 tCO_2e/Year

Energy Efficiency Measures 45.18%

- ✓ EEM01* Window-to-Wall Ratio: 14.37%
  Base Case Value: 30%
  WWR (%): 14.37
- EEM02 Reflective Roof: Solar Reflectance Index 85
- EEM03 Reflective Exterior Walls: Solar Reflectance Index 85
- EEM04 External Shading Devices: Annual Average Shading Factor (AASF) 0.16
- ✓ EEM05* Insulation of Roof: U-value 0.35 W/m²·K
  Base Case Value: 1.91 W/m²·K
  U-Value (W/m²·K): 0.35
- ✓ EEM06* Insulation of Ground/Raised Floor Slab: U-Value 0.29 W/m²·K
  Base Case Value: 0.49 W/m²·K
  U-Value (W/m²·K): 0.29
  Edge Insulation Type: Vertical
- EEM07 Green Roof
- ✓ EEM08* Insulation of Exterior Walls: U-Value 0.3 W/m²·K
  Base Case Value: 1.86 W/m²·K
  U-Value (W/m²·K): 0.36
- ✓ EEM09* Efficiency of Glass: U-Value 5.79 W/m²·K, SHGC 0.81 and VT 0.89
  Base Case Value: 5.7 W/m²·K & SHGC 0.8 & VT 0.7
  U-Value (W/m²·K): 5.79 VT (Factor): 0.89
  SHGC: 0.81
- EEM10 Air Infiltration of Envelope: 50% Reduction
- EEM11 Natural Ventilation
- EEM12 Ceiling Fans

Energy Efficiency Measures 45.18%

EEM15 Fresh Air Pre-conditioning System: Efficiency 65%

EEM18 Domestic Hot Water (DHW) System : Solar 0%, Heat Pump 0%, Boiler 100%

Base Case Solar HW Usage : 0%
Base Case Hot Water Heater Usage: 0%
Base Case Hot Water Heater Efficiency: 100%

	Default Hot Water Usage (%)	*User Entry Hot Water Usage (%)*	*Default*	*User Entry*	
Solar	50%	0			
Heat Pump	50%	0	3.00		*COP*
Boiler	0%	100	100%	99.9	*% Efficiency*

EEM19 Domestic Hot Water Preheating System

EEM22 Efficient Lighting for Internal Areas

EEM23 Efficient Lighting for External Areas

EEM24 Lighting Controls

EEM25 Skylights

EEM26 Demand Control Ventilation for Parking Using CO Sensors

EEM29 Efficient Refrigerators and Clothes Washing Machines

EEM30 Submeters for Heating and/or Cooling Systems

EEM31 Smart Meters for Energy

EEM32 Power Factor Corrections

EEM33 Onsite Renewable Energy: 35% of Annual Energy Use

Base Case: No Onsite Renewable Energy

Renewable Energy System Type	Default Annual Energy Use (%)	User Entry Annual Electricity Use (%)	Annual Energy Use (kWh/Year)
Solar Photovoltaic	25%	35	60,638
Wind Turbine	0%	0	-
Biomass	0%	0	-
Other	0%	0	-

EEM34 Other Energy Saving Measures

EEM35 Offsite Renewable Energy Procurement: 100% of Annual Operational CO_2

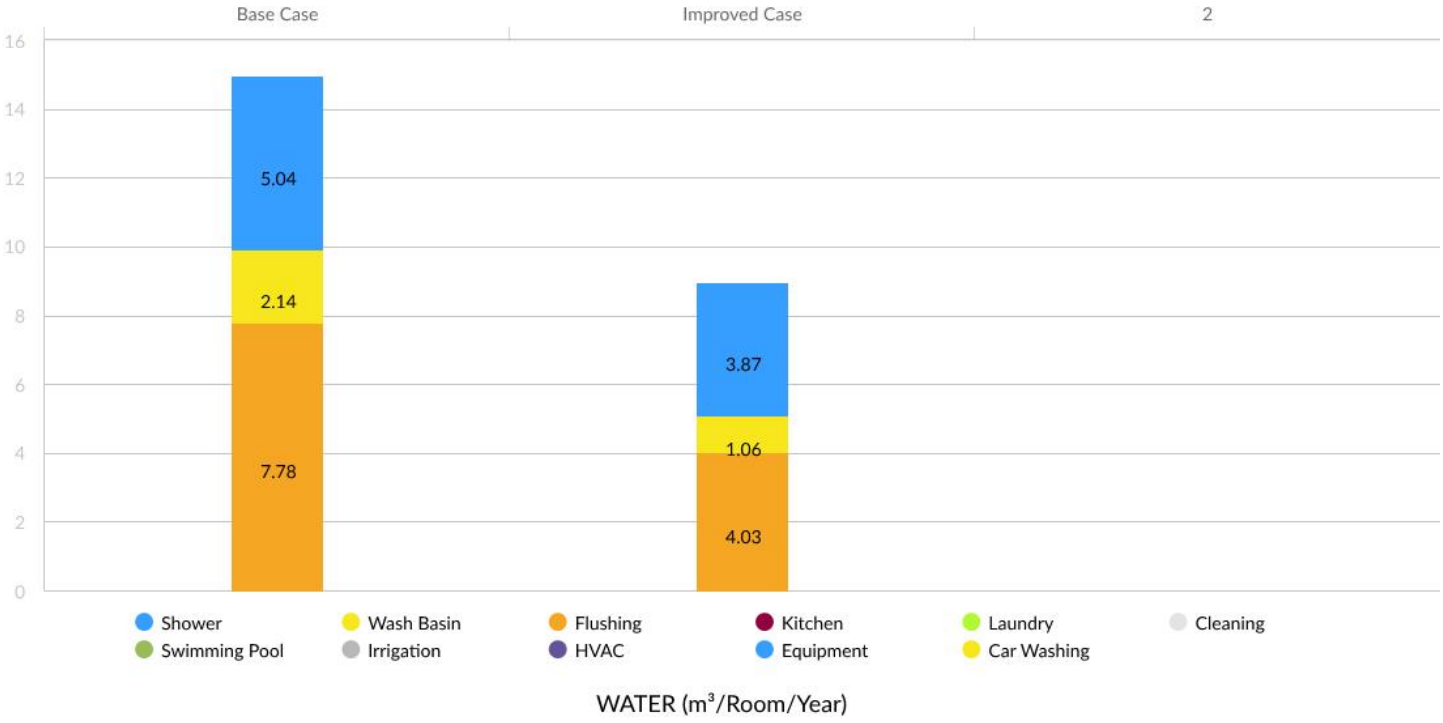
EEM36 Carbon Offsets: 100% Annual Operational CO_2

EEM37 Low-Impact Refrigerants

WATER SAVINGS

Water Efficiency Measures 40.06%

Meets EDGE Water Standard



Water Efficiency Measures 40.06%

✓ WEM01* Water-efficient Showerheads: 6.14 L/min
Base Case Value: 8 L/min
Bath Type: Showerheads Flow Rate (L/min): 6.14 Hot Water Provision: Yes

✓ WEM02* Water-efficient Faucets for all Bathrooms: 3.85 L/min
Base Case Value: 8.3 L/min
Faucet Type: Faucets with Aerators Flow Rate (L/min): 3.85 Hot Water Provision: Yes

✓ WEM04* Efficient Water Closets for All Bathrooms: 3.8 L/flush
Base Case Value: Single Flush,9 L/flush
Type Of Water Closet: Single Flush High Volume Flush (L/min): 3.8

WEM06 Water-efficient Bidet: 2 L/min

✓ WEM08* Water-efficient Faucets for Kitchen Sinks: 8.3 L/min
Base Case Value: 8.3 L/min
Hot Water Provision: Yes Flow Rate (L/min): 8.3

Water Efficiency Measures 40.06%

WEM09 Water-efficient Dishwashers: 4 L/Rack

WEM10 Water-efficient Pre-rinse Spray Valves for Kitchen: 4 L/min

WEM12 Swimming Pool Covers: 30% Area Covered

WEM13 Water-efficient Landscape Irrigation System: 4 L/m²/day

WEM14 Rainwater Harvesting System: 79 m² of Catchment Area

WEM15 Waste Water Treatment and Recycling System: 40% Treated

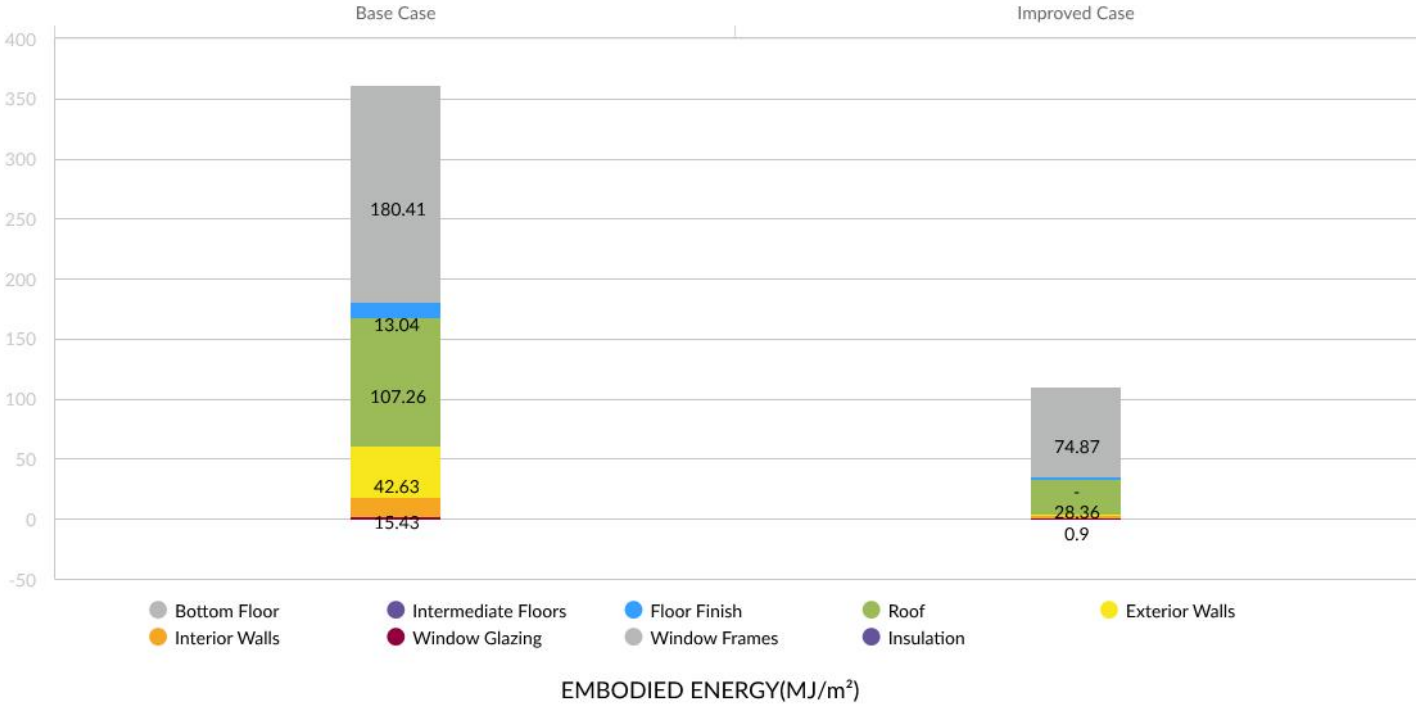
WEM16 Condensate Water Recovery: 100% Recovery

WEM17 Smart Meters for Water

EMBODIED CARBON SAVINGS

Materials Efficiency Measures 73.00%

Meets EDGE Material Standard



Materials Efficiency Measures 73.00%

Improved Case Selection		Building Material	Proportion %	Thickness (mm)	U-Value (W/m²·K)	Embodied Carbon(kg/m²)
MEM01*	Bottom Floor Construction Base Case Material: Concrete Slab | In-situ Reinforced Conventional Slab Thickness : 100mm & Steel : 35kg/m²	Type 1 Steel Floor | Light-gauge Steel Floor Cassette	100 %	131.2	0.29	
MEM02*	Intermediate Floor Construction Base Case Material: Concrete Slab | In-situ Reinforced Conventional Slab Thickness : 300mm & Steel : 35kg/m²	Type 1 Default Base Case Material	100 %			
MEM03*	Floor Finish Base Case Material : Tiled | Ceramic Tiles Thickness : 10mm	Type 1 Wood | Laminated Wood	64 %	7		
		Type 2 Tiled | Ceramic Tiles	36 %	8		
MEM04*	Roof Construction Base Case Material: Concrete Slab | In-situ Trough Slab Thickness : 300mm & Steel : 35kg/m²	Type 1 Metal Roof | Steel Sheets on Steel Rafters	100 %	116	0.00	
MEM05*	Exterior Walls Base Case Material: Brick Wall | Solid brick (0-25% voids) with external and internal plaster Thickness : 230mm	Type 1 Metal Stud Wall | with Cement Fiber Boards	100 %	100	0.00	
MEM06*	Interior Walls Base Case Material : Brick Wall | Solid brick (0-25% voids) with external and internal plaster	Type 1 Cement Fibre Boards on Metal Studs	100 %	100		

Materials Efficiency Measures 73.00%

Improved Case Selection		Building Material	Proportion %	Thickness (mm)	U-Value (W/m²·K)	Embodied Carbon (kg/m²)
MEM07*	Window Frames Base Case Material : Aluminium	Type 1 Aluminium	100 %			
MEM08*	Window Glazing Base Case Material: Single Glazing Thickness : 8mm	Type 1 Single Glazing Type 2 Single Glazing	71.84 % 28.1599 999999 99997 %	6.4 3.7	1.46	
MEM09*	Roof Insulation Base Case Material: X - No insulation Thickness : 0mm	Type 1 Cellulose Insulation	100 %	62		
MEM10*	Wall Insulation Base Case Material : X - No insulation Thickness : 0mm	Type 1 Cellulose Insulation	100 %	62		
MEM11*	Floor Insulation Base Case Material: Polystyrene Foam Spray or Board Insulation Thickness : 54.9mm	Type 1 Cellulose Insulation	100 %	62		

EDGE Certification Checklist

Building Type	Certification Stage	Subproject Name
Serviced Apartment	Post-Construction	Piloto CENIT

Water Measures		Construction Audit Requirements
WEM01	Low Flow Showerheads	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ On site test results using actual water pressure on site, which will supersede the standard design flow rate values; with average flow rate sampled from multiple locations, floors, or units, as applicable, measured at the highest flow per minute, using a timer and a measurement container; and
		✔ Date-stamped photographs of the showerhead(s) taken during or after installation showing the make and model; or
		✔ Purchase receipts for the showerheads showing the make and model.
		✔ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
		✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ On site test results using actual water pressure on site, which will supersede the standard design flow rate values; with average flow rate sampled from multiple locations, floors, or units, as applicable, measured at the highest flow per minute, using a timer and a measurement container; and
		✔ Date-stamped photographs of the showerhead(s) taken during or after installation showing the make and model; or
		✔ Purchase receipts for the showerheads showing the make and model.
		✔ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
WEM02	Low-Flow Faucets for Private Bathrooms	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ On site test results using actual water pressure on site, which will supersede the standard design flow rate values; with average flow rate sampled from multiple locations, floors, or units, as applicable, measured at the highest flow per minute, using a timer and a measurement container; and
		✔ Date-stamped photographs of the faucet(s) taken during or after installation showing the make and model; or
		✔ Purchase receipts for the faucet(s) showing the make and model.
		✔ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.

WEM02	Low-Flow Faucets for Private Bathrooms	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ On site test results using actual water pressure on site, which will supersede the standard design flow rate values; with average flow rate sampled from multiple locations, floors, or units, as applicable, measured at the highest flow per minute, using a timer and a measurement container; and
		✔ Date-stamped photographs of the faucet(s) taken during or after installation showing the make and model; or
		✔ Purchase receipts for the faucet(s) showing the make and model.
		✔ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
WEM04	Low-Flow Water Closets for Private Bathrooms	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ Date-stamped photographs of the water closet(s) taken during or after installation showing the make and model; or
		✔ Purchase receipts for the water closet(s) showing the make and model.
		✔ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
		✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ Date-stamped photographs of the water closet(s) taken during or after installation showing the make and model; or
		✔ Purchase receipts for the water closet(s) showing the make and model.
		✔ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
WEM08	Low-Flow Faucets for Kitchen Sink	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ On site test results by the auditor of the flow rate at the highest flow per minute, using a timer and a measurement container; and
		✔ Date-stamped photographs of the faucet(s) or flow restrictor(s) taken during or after installation showing the make and model; or
		✔ Purchase receipts for the faucet(s) or flow restrictor(s) showing the make and model.
		✔ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
		✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ On site test results by the auditor of the flow rate at the highest flow per minute, using a timer and a measurement container; and

WEM08	Low-Flow Faucets for Kitchen Sink	✔ Date-stamped photographs of the faucet(s) or flow restrictor(s) taken during or after installation showing the make and model; or
		✔ Purchase receipts for the faucet(s) or flow restrictor(s) showing the make and model.
		✔ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
Energy Measures		**Construction Audit Requirements**
EEM01	Window to Wall Ratio	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ As-built façade drawings; or
		✔ External and internal photographs of the building showing all the elevations Date-stamped photographs of the building interior and exterior showing all the elevations.
		✔ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
EEM05	Insulation of Roof	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ Date-stamped photographs of the roof(s) taken during construction at a point when any insulation materials claimed were visible on site; or
		✔ Purchase receipts showing the installed products.
		✔ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
EEM06	Insulation of Ground/Exposed Slab	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ Date-stamped photographs of the floor(s) taken during construction at a point when any insulation materials claimed were visible on site; or
		✔ Purchase receipts showing the installed products.
		✔ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
EEM08	Insulation of External Wall	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✔ Date-stamped photographs of the exterior wall(s) taken during construction at a point when any insulation materials claimed were visible on site; or
		✔ Purchase receipts showing the installed products.
		✔ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
EEM09	Efficient Glass	✔ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and

EEM09	Efficient Glass	✓ Date-stamped photographs of the glazing units installed; or
		✓ Purchase receipts showing the brand and product installed.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
EEM18	Hot Water Generation System	✓ Documents from the design stage if not already submitted. Include any updates made to the documents to clearly reflect As-Built conditions; and
		✓ Date-stamped photographs of the water heating equipment taken during or after installation showing the make and model; or
		✓ Purchase receipts for the water heating equipment showing the make and model; or
		✓ Contract with the management company showing the efficiency of the water heating system, if the system is under separate management or off-site.
EEM33	Onsite Renewable Energy System	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Photographs of the installed system; or
		✓ Purchase receipts and delivery notes of the system; or
		✓ Contract with the energy management company if the system is owned by a third party.
		✓ Existing building projects If some of the documents required above are not available, other evidence of construction details, such as existing building drawings or photographs can be submitted.
Material Measures		**Construction Audit Requirements**
MEM01	Bottom Floor Construction	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Date-stamped photographs of the floor slabs taken during construction showing the claimed products on site; or
		✓ Purchase receipts showing the installed products.
		✓ If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM03	Floor Finish	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Date-stamped photographs of the flooring during or after installation showing the claimed products on site; or
		✓ Purchase receipts showing the installed products.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM04	Roof Construction	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and

MEM04	Roof Construction	✓ Date-stamped photographs of the roof(s) taken during construction showing the claimed products on site; or
		✓ Purchase receipts showing the installed products.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM05	Exterior Walls	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Date-stamped photographs of the floor slabs taken during construction showing the claimed products on site; or
		✓ Purchase receipts showing the installed products.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM06	Interior Walls	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Date-stamped photographs of the floor slabs taken during construction showing the claimed products on site; or
		✓ Purchase receipts showing the installed products.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM07	Window Frames	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Manufacturer's data sheets showing the make and model, material and U-value of the installed window frames; and
		✓ Date-stamped photographs of the window frames during or after installation showing the make and model; or
		✓ Purchase receipts showing the make and model of the installed window frames.
		✓ This measure includes exterior glass doors.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM08	Window Glazing	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Manufacturer's data sheets showing the make and model, U-value and SHGC of the installed glass; and
		✓ Date-stamped photographs of the glazing during or after installation showing the make and model; or
		✓ Purchase receipts showing the make and model of the installed windows/glass.

MEM08	Window Glazing	✓ ? This measure includes exterior glass doors.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM09	Roof Insulation	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Manufacturer's data sheets showing the brand and product name and insulating properties of the installed insulation; and
		✓ Date-stamped photographs of the insulation during construction showing the product; or
		✓ Purchase receipts showing the brand and product installed.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM10	Wall Insulation	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Manufacturer's data sheets showing the brand and product name and insulating properties of the installed insulation; and
		✓ Date-stamped photographs of the insulation during construction showing the product; or
		✓ Purchase receipts showing the brand and product installed.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.
MEM11	Floor Insulation	✓ Documents from the design stage if not already submitted. Include any updates made to the design stage documents to clearly reflect as-built conditions; and
		✓ Manufacturer's data sheets showing the brand and product name and insulating properties of the installed insulation; and
		✓ Date-stamped photographs of the insulation during construction showing the product; or
		✓ Purchase receipts showing the brand and product installed.
		✓ Existing building projects If the documents required above are not available, other evidence of construction details, such as existing building drawings or photos taken during renovation can be submitted.

Associated Subproject(s)

Sr No.	Associated Subproject Name	Country	City
1	Piloto CENIT	Colombia	Bello