

Project Name: BluHomes Katmon
Subproject Name: BluHomes Katmon

Project Details

Project Name BluHomes Katmon	Address Line1 Lots 8-17, Block 6, Rosanna Heights
Number of Distinct Buildings 32	Address Line2 Barangay San Manuel
Number of EDGE Subproject(s) associated 1	City San Jose Del Monte City
Total Project Floor Area (m ²) 2,012.8	State/ Province Bulacan
Project Owner Name Paolo Bellosillo	Postal Code 3023
Project Owner Email hello@bluhomes.ph	Country Philippines
Project Owner Phone Mobile 0998 - 5100499	Project Number 1000908682
Share project name and basic information to potential investors or banks? Yes	Do you intend to certify? Yes
Is this Project created for Training Purpose? No	

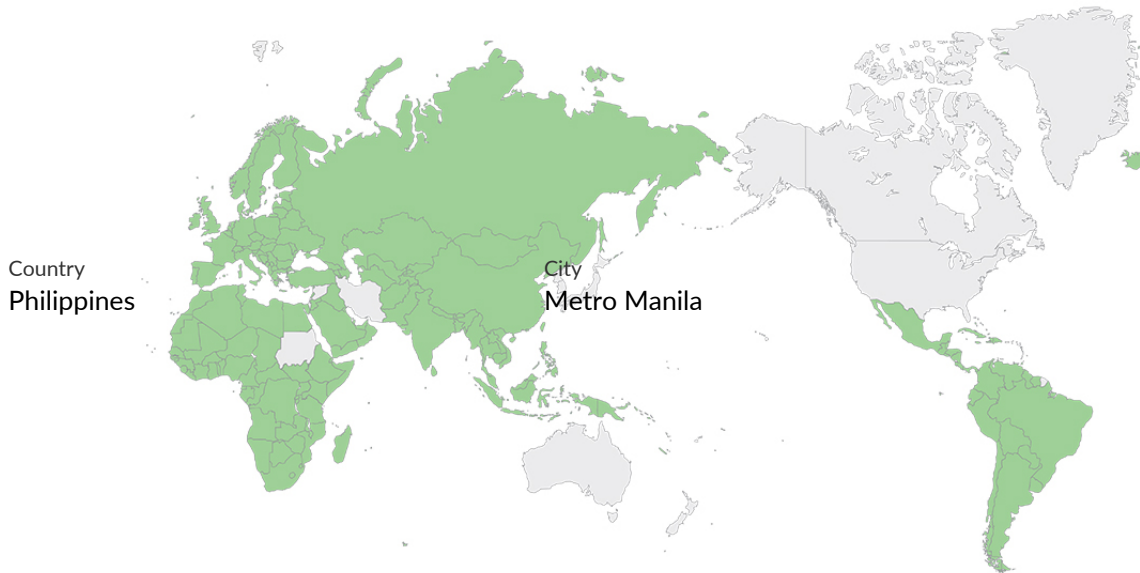
Associated Subproject(s)
Total associated subprojects: 1
The complete list of Associated Subprojects is available in the last section of this document.

Subproject Details

Subproject Name BluHomes Katmon	Address Line1 Lots 8-17, Block 6, Rosanna Heights
Building Name BluHomes Katmon	Address Line2 Barangay San Manuel
Subproject Multiplier for the Project 32	City San Jose Del Monte City
Certification Stage Preliminary	State/ Province Bulacan
Status Certified	Postal Code 3023
Auditor Claudine Dacanay	Country Philippines
Certifier Philippine GreenBuilding Initiative	Subproject Type New Building
File Number 21110410124226	

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Location



Building Type

Primary Building Type
Homes

Subtype
High Income

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Building Data

Single Typology

Default	User Entry
No. of Bedrooms 5	3
Total No. of Homes 10	1
Average House Area (m ²) 250	62.90
No. of Floors Above Grade 2	2
No. of Floors Below Grade -	0
Floor-to-Floor Height (m) 3.0	3
Aggregate Roof Area (m ²) 31	36.165

Operational Details

Default	User Entry
Occupancy (People/House) 6	6

Building Costs

Cost of Construction (PHP/m ²) 43,304.21	22,000
Estimated Sale Value (PHP/m ²) 61,491.98	80,000

Area and Loads Breakdown

Gross Internal Area/House (m²)

62.9

Default (m²/House)

User Entry (m²/House)

Default

User Entry

Bedroom

~~25.2~~

29.29

Area with Exterior Lighting (m²)

~~750~~

25.765

Kitchen

~~3.1~~

4.60

External Carparking Area (m²)

-

14.04

Dining

~~3.1~~

7.94

Irrigated Area (m²)

~~250~~

7.00

Living

~~12.6~~

6.97

Swimming Pool Type (m²)

~~Indoor Heated Pool and
Outdoor Unheated Pool~~

None

Toilet

~~1.3~~

4.64

Swimming Pool (m²)

20

0

Utility

~~1.3~~

5.80

Balcony

3.1

0.00

Staircase

~~0.6~~

3.66

Enclosed Garage

~~12.6~~

0.00

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Detailed Loads Input

Activities	Space Conditioning Type	Default Heating and Cooling Set-point Temperature	Plug Loads (W/m ²)	Equipment Load (W/m ²)	People Sensible Heat (W/Person)	People Latent Heat (W/Person)
Bedroom	Only Space Cooling	C 24°C				
Kitchen	No Conditioning Provided					
Dining	No Conditioning Provided					
Living	No Conditioning Provided					
Toilet	No Conditioning Provided					
Utility	No Conditioning Provided					
Balcony	No Conditioning Provided					
Staircase	No Conditioning Provided					
Enclosed Garage	No Conditioning Provided					

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Building Dimensions

Default Building Length (m/House)	User Entry (m/House)	Façade Area Exposed to Outside Air (%)
North 2.9	0.00001	100
North East 2.9	10.20	100
East 2.9	0.00001	100
South East 2.9	3.70	100
South 2.9	0.00001	100
South West 2.9	10.20	100
West 2.9	0.00001	100
North West 2.9	3.70	100

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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

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Fuel Usage

		Cost Input	
Default	User Entry	Default	User Entry
Hot Water Electricity	None	Electricity (PHP/kWh) 12.13	
Space Heating Electricity	Electricity	Diesel (PHP/Lt) 51.54	
Generator Diesel	Diesel	Natural Gas (PHP/kg) 48.26	
% of Electricity Generation Using Diesel 2.00%		LPG (PHP/kg) 48.26	
Fuel Used for Cooking Electricity	None	Coal (PHP/kg) 4.1	
CO ₂ Emissions Factor		Fuel Oil (PHP/Lt) 15.4	
Default Electricity (kg of CO ₂ /kWh) 0.52	User Entry	Water (PHP/KL) 39.92	
Diesel (kg of CO ₂ /kWh) 0.25		Conversion from USD (PHP/USD) 50.53	
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			

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Climate Data

Default	User Entry	Default	User Entry
Elevation (m) 16		Latitude (degrees) 15	
Rainfall (mm/year) 2,187		ASHRAE Climate Zone OA	OA

Temperature (°C)

Default (Monthly Max.)	User Entry (Monthly Max.)	Default (Monthly Max.)	User Entry (Monthly Max.)
Jan 32.1	Jan	Jul 34.4	Jul
Feb 32.9	Feb	Aug 32.9	Aug
Mar 34.0	Mar	Sep 33.1	Sep
Apr 35.7	Apr	Oct 32.7	Oct
35.1		Nov 32.8	Nov
Jun 34.8	Jun	Dec 31.8	Dec
Default (Monthly Min.)	User Entry (Monthly Min.)	Default (Monthly Min.)	User Entry (Monthly Min.)
Jan 20.5	Jan	Jul 22.4	Jul
Feb 21.5	Feb	Aug 23.1	Aug
Mar 21.9	Mar	Sep 23.3	Sep
Apr 23.8	Apr	Oct 23.2	Oct
22.9		Nov 22.1	Nov
Jun 23.7	Jun	Dec 21.5	Dec

Climate Data

Relative Humidity (%)

Default (Monthly Avg.)	User Entry (Monthly Avg.)	Default (Monthly Avg.)	User Entry (Monthly Avg.)
Jan 72.3%	Jan	Jul 79.8%	Jul
Feb 75.3%	Feb	Aug 81.8%	Aug
Mar 76.7%	Mar	Sep 83.3%	Sep
Apr 80.2%	Apr	Oct 78.7%	Oct
78.2%		Nov 78.0%	Nov
Jun 82.5%	Jun	Dec 76.4%	Dec

Wind Speed (m/sec)

Default (Monthly Avg.)	User Entry (Monthly Avg.)	Default (Monthly Avg.)	User Entry (Monthly Avg.)
Jan 2.5	Jan	Jul 2.8	Jul
Feb 2.8	Feb	Aug 2.8	Aug
Mar 3.0	Mar	Sep 2.7	Sep
Apr 3.0	Apr	Oct 2.1	Oct
2.8		Nov 2.1	Nov
Jun 2.6	Jun	Dec 2.3	Dec

Results

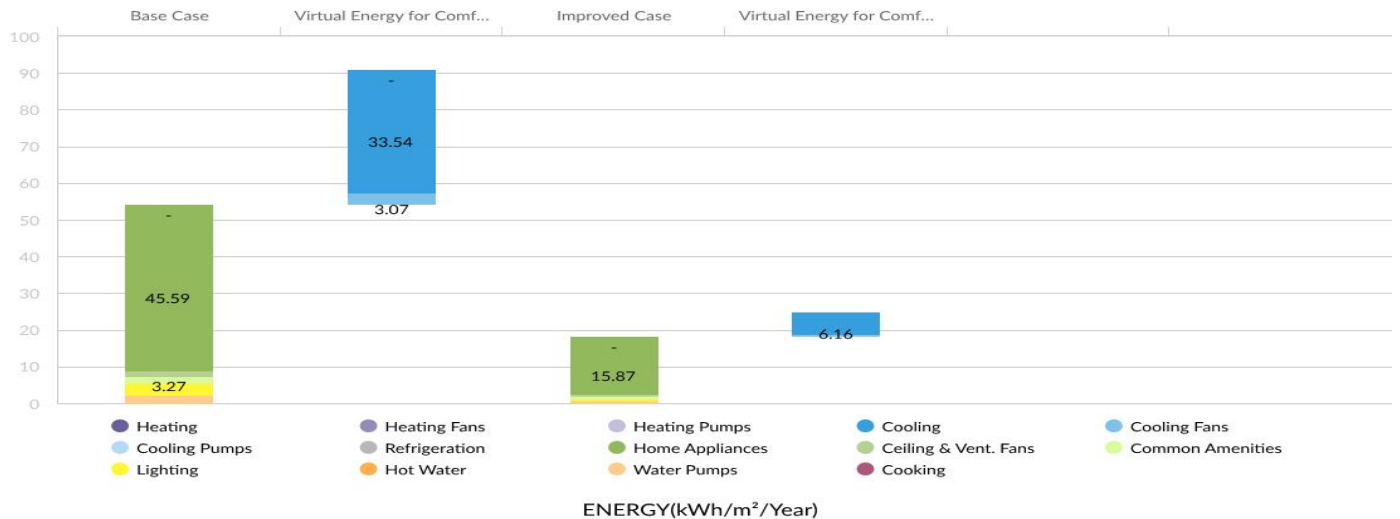
Final Energy Use (kWh/Month/House)	3,086	Improved Case EPI (kWh/m ² /year)	19.0
Final Water Use (m ³ /Month/House)	1,228	Total Building Construction Cost (Million PHP/House)	1.4
Final Operational CO ₂ Emissions (tCO ₂ /Month/House)	1.60	Incremental Cost (Million PHP/House)	0.0
Final Embodied Energy (MJ/m ²)	46,754	% Increase in cost	3.53%
Final Utility Cost (PHP/Month/House)	62,519	Payback in Years (Yrs.)	1.1
Subproject Floor Area (m ²)	2,012.8	Number of People Impacted (No.)	192
Energy Savings (MWh/Year)	2,325.19	Base Case - Refrigerant Global Warming Potential (tCO ₂ e/Year/House)	0.2
Water Savings (m ³ /Year)	218,203.58	Improved Case - Refrigerant Global Warming Potential (tCO ₂ e/Year/House)	0.2
Operational CO ₂ Savings (tCO ₂ /Year)	1,206.57		
Embodied Energy Savings (GJ)	48,965.47		
Utility Cost Savings in USD (USD/Year)	28,502		
Utility Cost Savings in Local Currency (Million PHP/Year/House)	1.44		
Base Case EPI (kWh/m ² /year)	55.0		

ENERGY SAVINGS

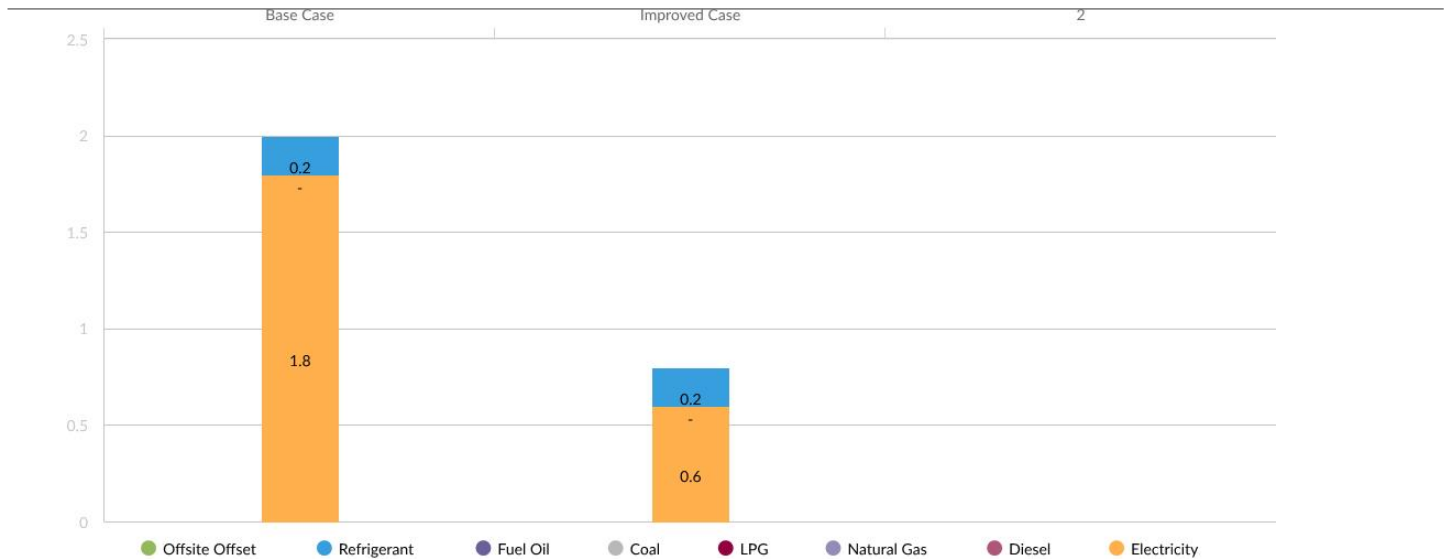
EDGE ADVANCED

Energy Efficiency Measures 72.44%

Meets EDGE Energy Standard



Net Carbon Emissions: 0.8 tCO₂e/Year/House



Energy Efficiency Measures 72.44%

- ✓ EEM01* Window-to-Wall Ratio: 6.95%
Base Case Value: 40%
WWR (%): 6.95
- ✓ EEM02 Reflective Roof: Solar Reflectance Index 82
Base Case Value: 45
SRI: 82
- ✓ EEM03 Reflective Exterior Walls: Solar Reflectance Index 87
Base Case Value: 45
SRI: 87.00
- EEM04 External Shading Devices: Annual Average Shading Factor (AASF) 0.2
- ✓ EEM05* Insulation of Roof: U-value 0.62 W/m²·K
Base Case Value: 2.1 W/m²·K
U-Value (W/m²·K): 0.62
- ✓ EEM06* Insulation of Ground/Raised Floor Slab: U-Value 0.49 W/m²·K
Base Case Value: 0.49 W/m²·K
U-Value (W/m²·K): 0.49
- EEM07 Green Roof
- ✓ EEM08* Insulation of Exterior Walls: U-Value 2.41 W/m²·K
Base Case Value: 1.51 W/m²·K
U-Value (W/m²·K): 2.41
- ✓ EEM09* Efficiency of Glass: U-Value 5.7 W/m²·K, SHGC 0.82 and VT 0.7
Base Case Value: 5.7 W/m²·K & SHGC 0.82 & VT 0.7
W/m²·K: 5.7 VT (Factor): 0.7
SHGC: 0.82
- EEM10 Air Infiltration of Envelope: 50% Reduction
- EEM11 Natural Ventilation
- EEM12 Energy Efficient Ceiling Fans

Energy Efficiency Measures 72.44%

EEM15 Fresh Air Pre-conditioning System: Efficiency 65%

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

EEM18 Domestic Hot Water (DHW) System : Solar 50%, Heat Pump 50%, Boiler 0%

EEM19 Domestic Hot Water Preheating System

✓ EEM33 Onsite Renewable Energy: 65.2% 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%	65.20	2,164
Wind Turbine	0%	0	-
Biomass	0%	0	-
Other	0%	0	-

EEM34 Other Energy Saving Measures

EEM35 Offsite Renewable Energy Procurement: 100% of Annual Operational CO₂

EEM36 Carbon Offsets: 100% Annual Operational CO₂

EEM37 Low-Impact Refrigerants

✓ EEM22 Efficient Lighting for Internal Areas

Base Case Value: 65 L/W

Efficiency Type:Luminous Efficacy

Luminous Efficacy (L/W): 115

✓ EEM23 Efficient Lighting for External Areas

Base Case Value: 65 L/W

Efficiency Type:Luminous Efficacy

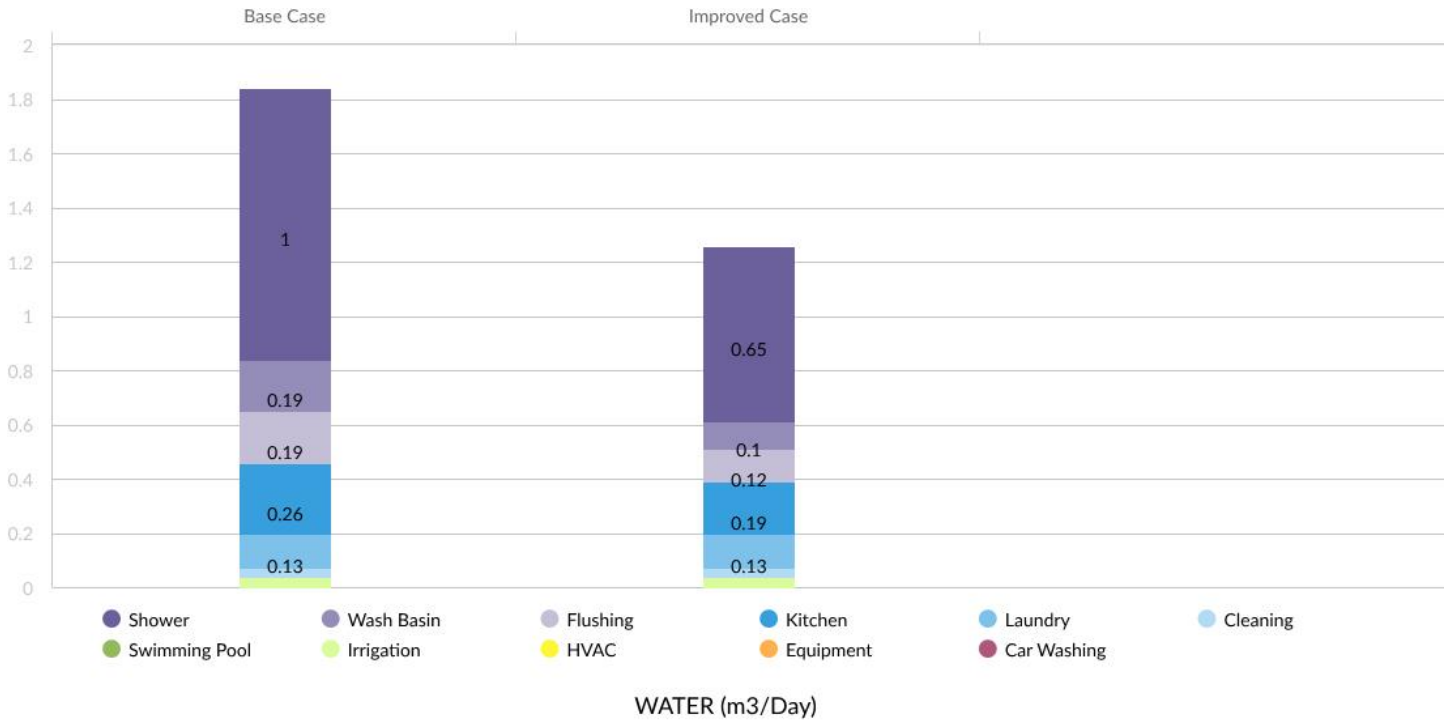
Luminous Efficacy (L/W): 125.00

EEM24 Lighting Controls

WATER SAVINGS

Water Efficiency Measures 31.64%

Meets EDGE Water Standard



Water Efficiency Measures 31.64%

- ✓ WEM01 Water-efficient Showerheads: 7.6 L/min
Base Case Value: 14 L/min
Bath Type: Showerheads Flow Rate (L/min): 7.6 Hot Water Provision: No
- ✓ WEM02* Water-efficient Faucets for all Bathrooms: 4 L/min
Base Case Value: 8 L/min
Faucet Type: Faucets with Aerators Flow Rate (L/min): 4 Hot Water Provision: No
- ✓ WEM04* Efficient Water Closets for All Bathrooms: 6 L/High volume flush and 3 L/Low volume flush
Base Case Value: Single Flush, 6 L/flush
Type Of Water Closet: Dual Flush High Volume Flush (L/min): 6 Low Volume Flush (L/min): 3
- WEM06 Water-efficient Bidet: 2 L/min
- ✓ WEM08* Water-efficient Faucets for Kitchen Sinks: 4 L/min
Base Case Value: 12 L/min
Hot Water Provision: No Flow Rate (L/min): 4

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Water Efficiency Measures 31.64%

WEM09 Water-efficient Dishwashers: 3.75 L/Cycle

WEM10 Water-efficient Pre-rinse Spray Valves for Kitchen: 3.75 L/min

WEM11 Water-efficient Washing Machines: 35 L/Cycle

WEM12 Swimming Pool Covers: 30% Area Covered

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

WEM14 Rainwater Harvesting System: 19 m² of Catchment Area

WEM15 Waste Water Treatment and Recycling System: 100% Treated

WEM16 Condensate Water Recovery: 100% Recovery

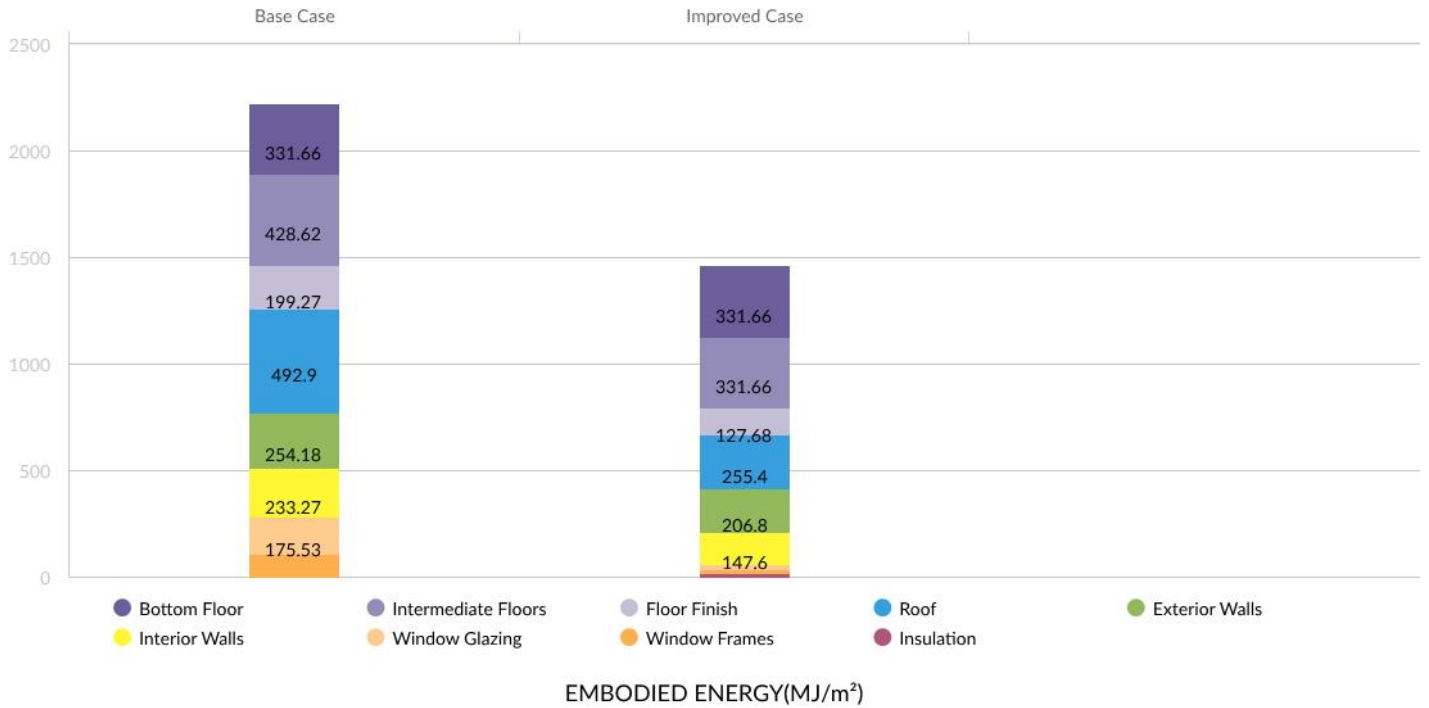
WEM17 Smart Meters for Water

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EMBODIED ENERGY SAVINGS

Materials Efficiency Measures 34.22%

Meets EDGE Material Standard



Materials Efficiency Measures 34.22%

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Improved Case Selection	Building Material	Proportion %	Thickness (mm)	U-Value (W/m ² ·K)
MEM01* Bottom Floor Construction Base Case Material: Concrete Slab In-situ Reinforced Conventional Slab Thickness : 100mm & Steel : 35kg/m ²	Type 1 Concrete Slab In-situ Reinforced Conventional Slab	100 %	100	0.49
MEM02* Intermediate Floor Construction Base Case Material: Concrete Slab In-situ Reinforced Conventional Slab Thickness : 200mm & Steel : 35kg/m ²	Type 1 Concrete Slab In-situ Reinforced Conventional Slab	100 %	100	
MEM03* Floor Finish Base Case Material : Tiled Ceramic Tiles Thickness : 10mm	Type 1 Tiled Ceramic Tiles	46.209 %	6	
	Type 2 Vinyl Sheet	53.791 %	1.3	
MEM04* Roof Construction Base Case Material : Concrete Slab In-situ Reinforced Conventional Slab Thickness : 200mm & Steel : 35kg/m ²	Type 1 Metal Roof Steel Sheets on Steel Rafters	100 %	0.5	0.62
MEM05* Exterior Walls Base Case Material: Concrete Blocks Solid Blocks of Dense Concrete Thickness : 170mm	Type 1 Concrete Blocks Hollow Blocks of Medium-Weight	100 %	150	2.41
MEM06* Interior Walls Base Case Material: Concrete Blocks Solid Blocks of Dense Concrete	Type 1 Concrete Blocks Hollow Blocks of Medium-weight	100 %	100	

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Materials Efficiency Measures 34.22%

Improved Case Selection	Building Material	Proportion %	Thickness (mm)	U-Value (W/m ² .K)
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	100 %	6	2.15
MEM09* Roof Insulation Base Case Material: X - No Insulation Thickness : 0mm	Type 1 Polystyrene Foam Spray or Board Insulation	100 %	20	
MEM10* Wall Insulation Base Case Material: X - No Insulation Thickness : 0mm	Type 1 X - No Insulation	100 %		
MEM11* Floor Insulation Base Case Material: Polystyrene Foam Spray or Board Insulation Thickness : 54.9mm	Type 1 X - No Insulation	100 %		

EDGE Certification Checklist

Building Type	Certification Stage	Subproject Name
Homes	Preliminary	BluHomes Katmon
Water Measures		Preliminary Audit Requirements
WEM01	Low Flow Showerheads	<ul style="list-style-type: none"> ✓ Plumbing drawings/specifications including make, model, and flow rate of the showerhead(s); and ✓ Manufacturer's data sheets for the specified showerhead(s) confirming the flow rate at a standard pressure of 3 bar.
WEM02	Low-Flow Faucets for Private Bathrooms	<ul style="list-style-type: none"> ✓ Plumbing drawings/specifications including make, model, and flow rate of the washbasin faucet(s); and ✓ Manufacturer's data sheets for the specified faucet(s)/flow aerator(s) confirming the flow rate at a standard pressure of 3 bar
WEM04	Low-Flow Water Closets for Private Bathrooms	<ul style="list-style-type: none"> ✓ Plumbing drawings/specifications including make, model and flush volumes of water closet(s); and ✓ Manufacturer's data sheets for the specified water closet(s) with information on the flush volume of the main and reduced flushes
WEM08	Low-Flow Faucets for Kitchen Sink	<ul style="list-style-type: none"> ✓ Plumbing drawings/specifications including make, model and flow rate of kitchen faucet (s) or flow restrictor(s); and ✓ Manufacturer's data sheets for faucet(s)/flow restrictor(s) confirming the flow rate at 3 bar.
Energy Measures		Preliminary Audit Requirements
EEM01	Window to Wall Ratio	<ul style="list-style-type: none"> ✓ Calculation of "Glazing Area" and "Gross Exterior Wall Area" for each façade of the building, and the average area-weighted WWR; and ✓ All façade elevation drawings showing glazing dimensions and general building dimensions.
EEM02	Reflective Paint/Tiles for Roof	<ul style="list-style-type: none"> ✓ Building plans marking the area of major roof types if more than one type of roof is present; and ✓ Building design drawings showing the roof finish(es). Where the finish is white, this measure can be awarded without further evidence; ✓ If finish is not white, provide one of the following with the solar reflectivity of the roof surface clearly indicated, <ul style="list-style-type: none"> Roof specifications; or Manufacturer's data sheets, or Bill of quantities.
EEM03	Reflective Paint for External Walls	<ul style="list-style-type: none"> ✓ Building plans or elevations highlighting the area of major external wall types if more than one type of external wall is present; and ✓ Building design drawings showing the wall finish(es). Where the finish is white, this measure can be awarded without further evidence;

EEM03	Reflective Paint for External Walls	<ul style="list-style-type: none"> ✓ If finish is not white, provide one of the following with the solar reflectivity of the wall surface clearly indicated, <ul style="list-style-type: none"> Wall specifications; or Manufacturer's data sheets, or Bill of quantities.
EEM05	Insulation of Roof	<ul style="list-style-type: none"> ✓ Building plans highlighting the area of major roof types if more than one type of roof is present; and ✓ Detailed drawing(s) showing the layers of roof materials and any U-value specifications; and ✓ Calculation of overall roof U-value using either the calculator provided in the EDGE measure or external calculations; and ✓ Manufacturer's data sheets for the specified building materials; or ✓ Bill of quantities with the specifications for any roof insulation materials clearly highlighted.
EEM06	Insulation of Ground/Exposed Slab	<ul style="list-style-type: none"> ✓ Building plans highlighting the area of major floor slab types if more than one type is present; and ✓ Calculation of overall floor U-value using either the calculator provided in the EDGE measure or external calculations; and ✓ Detailed drawing(s) showing the layers of floor slab materials and any U-value specifications; and ✓ Manufacturer's data sheets for the specified building materials; or ✓ Bill of quantities with the specifications for any floor insulation materials clearly highlighted.
EEM08	Insulation of External Wall	<ul style="list-style-type: none"> ✓ Building plans highlighting the area of major exterior wall types if more than one type of wall is present; and ✓ Detailed drawing(s) showing the layers of exterior wall materials and any U-value specifications; and ✓ Calculation of overall exterior wall U-value using either the calculator provided in the EDGE measure or external calculations; and ✓ Manufacturer's data sheets for the specified building materials showing the brand and product name and insulating properties of any insulation; or ✓ Bill of quantities with the specifications for any exterior wall insulation materials clearly highlighted.
EEM09	Efficient Glass	<ul style="list-style-type: none"> ✓ Manufacturer's data sheets showing the seasonal average U-value for the window (including glass and frame) and the solar heat gain coefficient (SHGC) of the glass and frame types; and ✓ A list of different types of windows included in the design (window schedule).
EEM22	Energy-Efficient Lighting for Internal Areas	<ul style="list-style-type: none"> ✓ Electrical layout drawings showing the location and type of all interior lighting fixtures; and ✓ Lighting schedule listing the type and number of bulbs specified for all fixtures; and ✓ Manufacturer's data sheets or calculations showing that the fixtures meet the minimum lumens per watt threshold.

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EEM23	Energy-Efficient Lighting for External Areas	<ul style="list-style-type: none"> ✓ Electrical layout drawings showing the location and type of all exterior lighting fixtures; and ✓ Lighting schedule listing the type and number of bulbs specified for all fixtures; and ✓ Manufacturer's data sheets or calculations showing that the fixtures meet the minimum lumens per watt threshold.
EEM33	Onsite Renewable Energy System	<ul style="list-style-type: none"> ✓ Supporting calculation showing the proposed system will deliver sufficient electricity to achieve the claimed proportion of total demand; and ✓ Manufacturer's data sheets for the proposed system including peak and average production wattage; and ✓ Engineering drawings showing the system size and location, In the case of solar panels, include the orientation and angle of the panels.

Material Measures

Preliminary Audit Requirements

MEM01	Bottom Floor Construction	<ul style="list-style-type: none"> ✓ Floor sections showing the materials and thicknesses of the floor(s) ✓ Building plans marking the area of major floor types if more than one type of floor is present; and ✓ Manufacturer's data sheets for the specified building materials; or ✓ Bill of quantities with the floor slab specifications clearly highlighted.
MEM02	Intermediate Floor Construction	<ul style="list-style-type: none"> ✓ Floor sections showing the materials and thicknesses of the floor(s); and ✓ Building plans marking the area of major floor types if more than one type of floor is present; and ✓ Manufacturer's data sheets for the specified building materials; or ✓ Bill of quantities with the floor slab specifications clearly highlighted.
MEM03	Floor Finish	<ul style="list-style-type: none"> ✓ Drawings showing the flooring specifications selected; and ✓ Building plans highlighting the area of major flooring types if more than one type of flooring is present; and ✓ Manufacturer's data sheets for the specified building materials; or ✓ Bill of quantities with the specifications for the flooring materials clearly highlighted.
MEM04	Roof Construction	<ul style="list-style-type: none"> ✓ Roof sections showing the materials and thicknesses of the roof(s); and ✓ Building plans marking the area of major roof types if more than one type of roof is present; and ✓ Manufacturer's data sheets for the specified building materials; or ✓ Bill of quantities with the roof material specifications clearly highlighted.
MEM05	Exterior Walls	<ul style="list-style-type: none"> ✓ Drawings of the external wall sections; and ✓ Building plans or elevations highlighting the area of major external wall types if more than one type of external wall is present; and

MEM05	Exterior Walls	<ul style="list-style-type: none"> ✓ Manufacturer's data sheets for the specified building materials; or ✓ Bill of quantities with the specifications for the materials used for the walls clearly highlighted.
MEM06	Interior Walls	<ul style="list-style-type: none"> ✓ Drawings of the internal wall sections; and ✓ Building plans or elevations highlighting the area of major internal wall types if more than one type of internal wall is present; and ✓ Manufacturer's data sheets for the specified building materials; or ✓ Bill of quantities with the specifications for the materials used for the walls clearly highlighted.
MEM07	Window Frames	<ul style="list-style-type: none"> ✓ Building elevations marking the window frame(s) specifications; or ✓ A window schedule for the building showing the major window frame types if more than one type of window frame is present; and ✓ Manufacturer's data sheets for the specified window frames; or ✓ Bill of quantities with the specifications for the windows/window frames highlighted. ✓ This measure includes exterior glass doors.
MEM08	Window Glazing	<ul style="list-style-type: none"> ✓ Building elevations marking the window glass specifications; or ✓ A window schedule for the building showing the major window glass types if more than one type of glass is present; and ✓ Manufacturer's data sheets for the specified glazing; or ✓ Bill of quantities with the specifications for the window glass highlighted. ✓ This measure includes exterior glass doors.
MEM09	Roof Insulation	<ul style="list-style-type: none"> ✓ Drawings marking the type(s) of insulation specified; and ✓ Building plans marking the area of major insulation types if more than one type of insulation is present; and ✓ Manufacturer's data sheets for the specified insulation; or ✓ Bill of quantities with the specifications for the insulation materials highlighted.
MEM10	Wall Insulation	<ul style="list-style-type: none"> ✓ Drawings marking the type(s) of insulation specified; and ✓ Building plans marking the area of major insulation types if more than one type of insulation is present; and ✓ Manufacturer's data sheets for the specified insulation; or ✓ Bill of quantities with the specifications for the insulation materials highlighted.
MEM11	Floor Insulation	<ul style="list-style-type: none"> ✓ Drawings marking the type(s) of insulation specified; and ✓ Building plans marking the area of major insulation types if more than one type of insulation is present; and

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MEM11

Floor Insulation

✓ Manufacturer's data sheets for the specified insulation; or

✓ Bill of quantities with the specifications for the insulation materials highlighted.

Associated Subproject(s)

Sr No.	Associated Subproject Name	Country	City
1	BluHomes Katmon	Philippines	Metro Manila