

Project Details

Project Name : SIRKUIT DAN PUSAT PELTIHAN BALAP
MOTOR KOTA SEMARANG

Address Line1 : Jl. Semarang Boja, Pesantren, Kecamatan
Mijen, BSB

Number of Distinct Buildings : 5

Address Line2 :

Number of EDGE Subproject(s) : 1
associated

City : Semarang

Total Project Floor Area : 83,405.88 m²

State/ Province : Jawa Tengah

Project Owner Name : Pemerintah Pusat Departemen
Bangunan Olahraga

Postal Code : 50212

Project Owner Email : ilhamprab@gmail.com

Country : Indonesia

Project Owner Phone : Mobile 64-85641624856

Project Number : 1000439560

Share with investor(s) or bank(s)? : No

Associated Subproject(s):

Paddock

Subproject Details

Subproject Name : Paddock

Address Line1 : Jl. Semarang Boja, Pesantren, Kecamatan
Mijen, BSB

Institution Name : Pemerintah Pusat Departemen
Bangunan Olahraga

Address Line2 : Jl. Semarang Boja, Pesantren, Kecamatan
Mijen, BSB

Subproject Multiplier for the : 1
Project

City : Semarang

Certification Stage : Post-Construction

State/ Province : Jawa Tengah

Status : Self-Review

Postal Code : 50212

Auditor :

Country : Indonesia

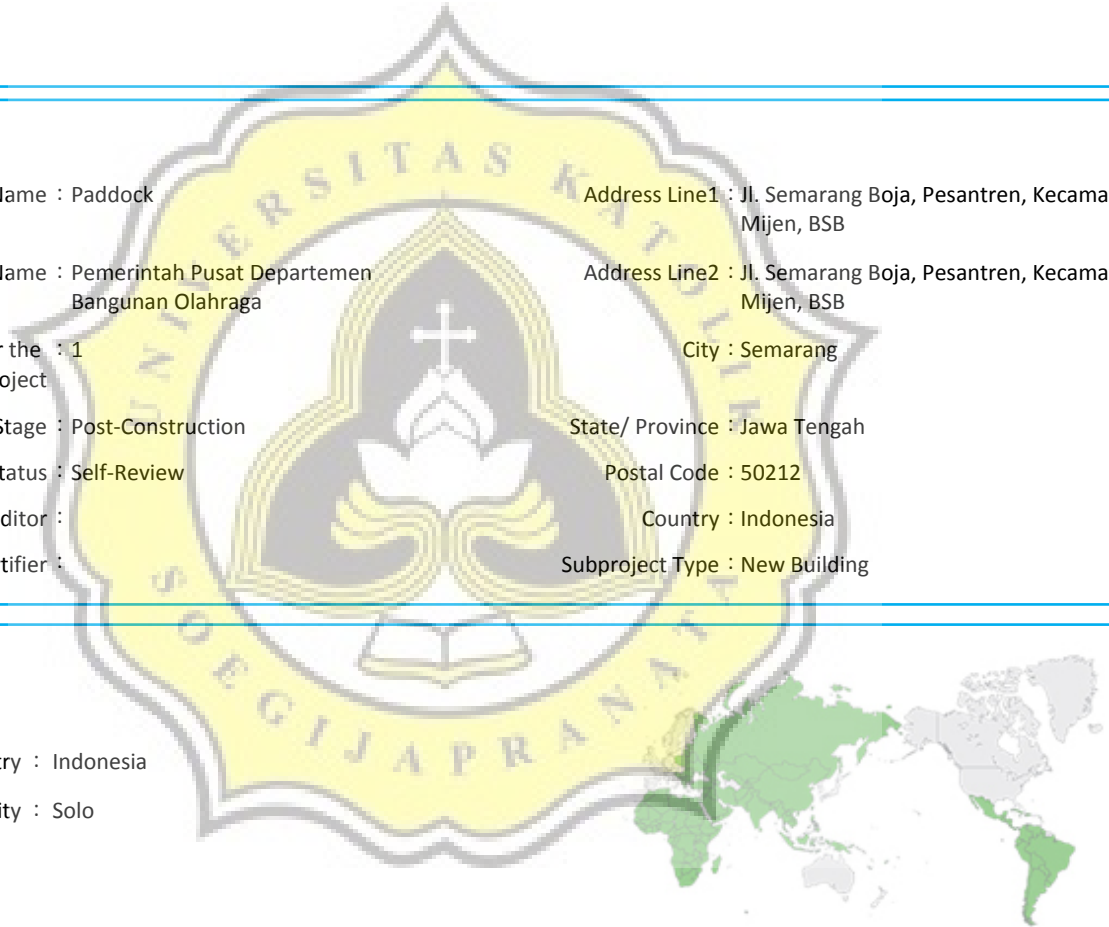
Certifier :

Subproject Type : New Building

Location Data

Country : Indonesia

City : Solo



Basic Parameters

Type of Educational Facility : Sports Facilities

Yes Irrigated Area 442,000 m²
No Swimming Pool 1,000.00 m²

	Default	User Entry	
Occupancy Density :	3		m ² /Student
Operational Hours :	8		Hours/Day
School Days :	5		Days/Week
Holidays :	15		Days/Year

Building Data

Floors Above Grade : 3 no.
Floors Below Grade : 1.00 no.
Floor-to-Floor Height : 4.00 m
Gross Internal Area : 83,405.8 m²
75

	Default	User Entry	
Classrooms	4,170		m ²
Meeting Rooms	4,170		m ²
Offices/Administration Rooms	8,341		m ²
Corridors	1,668		m ²
Labs	4,170		m ²
Sports Room	33,362		m ²
Restrooms	4,170		m ²
Changing Rooms	12,511		m ²
Cafeteria	4,170		m ²
Other Space Types	2,502		m ²
Indoor Car Parking	4,170		m ²
Gross Internal Area		83,406	m²

Building Orientation

Floor Plan Depth (m)*** : 91.33 500 m
Main Orientation*** : South

***These parameters will be used to estimate building dimensions. If the exact details of the dimensions and orientation are available, then enter the User Entry fields in the Building Lengths section.

	Default	User Entry	
North	500.0		m
South	500.0		m
East	41.7		m
West	41.7		m
Northeast	0.0		m
Northwest	0.0		m
Southeast	0.0		m
Southwest	0.0		m

Building Systems

Does the building design include an AC system? : Yes

Does the building design include a space heating system? : Yes

Key Assumptions for the Base Case

	Default	User Entry
Fuel Used for Electric Generator :	Diesel	Diesel
Fuel Used for Hot Water Generation :	Electricity	Electricity
Fuel Used for Cooking :	Electricity	Electricity
Fuel Used for Space Heating :	Electricity	Electricity
% of Electricity Generation Using Diesel :	5.00%	% Ave. Yrly
Cost of Electricity :	1.4	Thousand Rp/kWh
Cost of Diesel Fuel :	6.4	Thousand Rp/kWh
Cost of LPG/Natural Gas :	3.8	Thousand Rp/kWh
Cost of Water :	7.9	Thousand Rp/L
CO ₂ Emissions from Electricity Generation :	635.4	g/kWh
Window to Wall Ratio :	40.0%	%
Solar Reflectivity for Paint - Roof :	30.0%	%
Solar Reflectivity for Paint - Wall :	30.0%	%
Roof U-value :	1.99	W/m ² .K
Wall U-value :	1.86	W/m ² .K
Glass U-value :	5.75	W/m ² .K
Glass SHGC :	0.50	Factor
Cooling System :	ASHRAE 90.1.2007	ASHRAE 90.1.2007
Cooling System Efficiency :	4.90	COP
Heating System :	ASHRAE 90.1.2007	ASHRAE 90.1.2007
Heating System Efficiency :	1.00	Eff
Monthly Average Outdoor Temperature (deg.C)		
	Default	User Entry
Jan :	26	
Feb :	26	
Mar :	26	
Apr :	27	
May :	27	
Jun :	26	
Jul :	26	
Aug :	26	
Sep :	27	
Oct :	27	
Nov :	27	
Dec :	26	
Latitude :	7.6	Deg
Average Annual Rainfall :	1,736.00	mm

RESULTS

Final Energy Use : 85,542.45 kWh/Month

Final Water Use : 60,042 m³/Month

Base Case Utility Cost : 335,737.10 Thousand Rp/Month

Utility Cost Reduction : 212,451.71 Thousand Rp/Month

Energy Savings : 1768.93 MWh/Year

Embodied Energy in Materials : 145948.49 GJ Savings

Operational CO₂ Savings : 1,123.98 tCO₂/Year

Embodied Energy Savings : 1,749.86 MJ/m²

Incremental Cost : 13,729,702.20 Thousand Rp

Payback in Years : 5.39 Yrs.

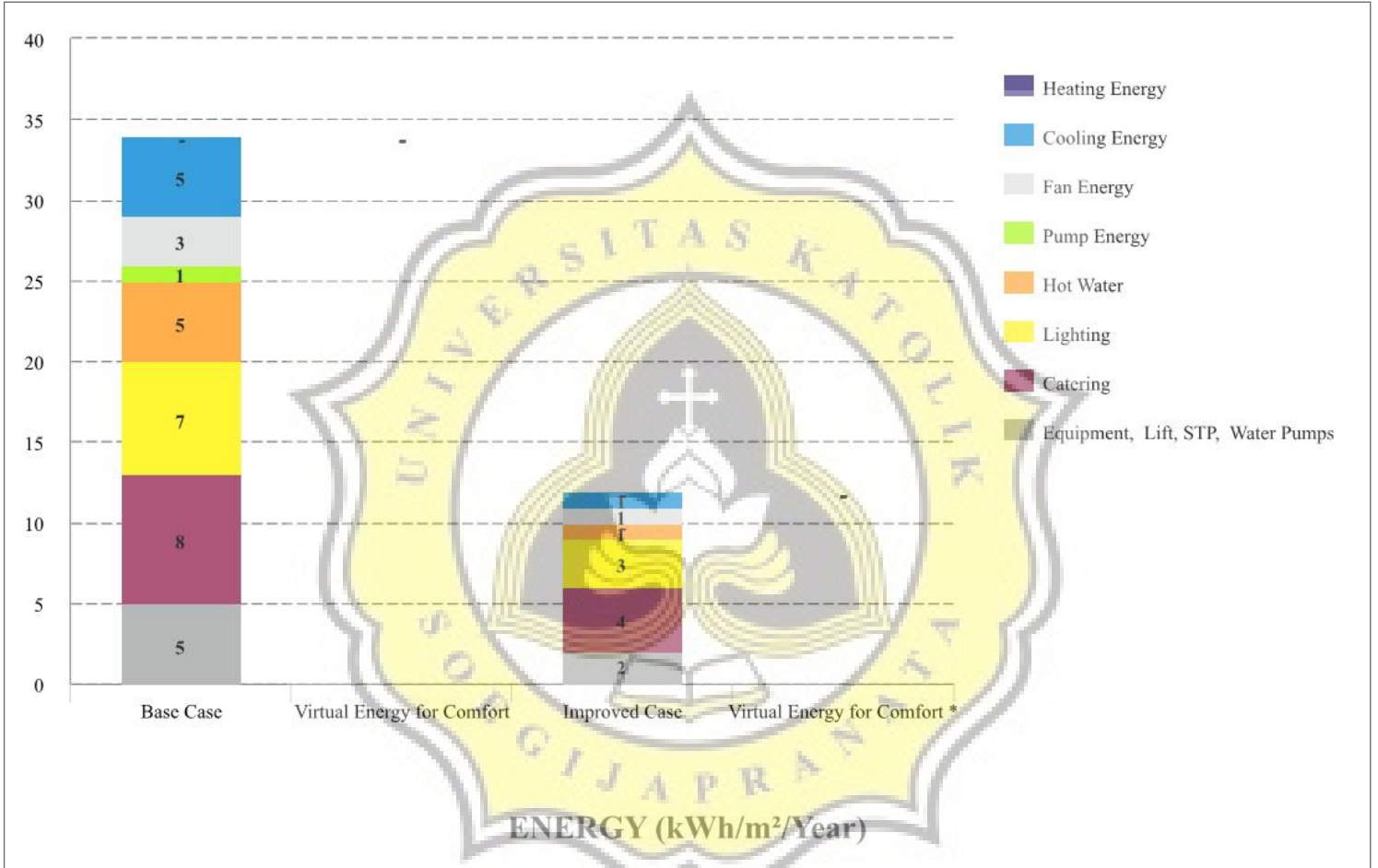
Water Savings : 278865.40 m³/Year

Aggregate Floor Space : 83405.88 m² Including Multiplier

Energy Efficiency Measures 63.3%

ENERGY SAVINGS

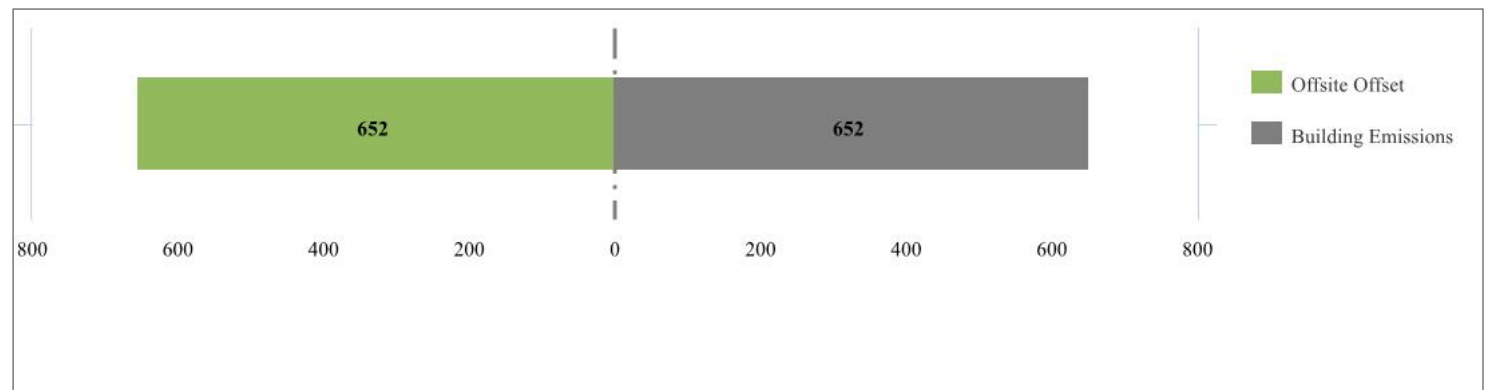
Meets EDGE Energy Standard



*Virtual energy is the amount of energy that will be required based on the assumption that the education will eventually install air conditioning or heating.

CARBON EMISSIONS: 0.00 tCO₂/Year

Meets Zero Net Carbon Standard

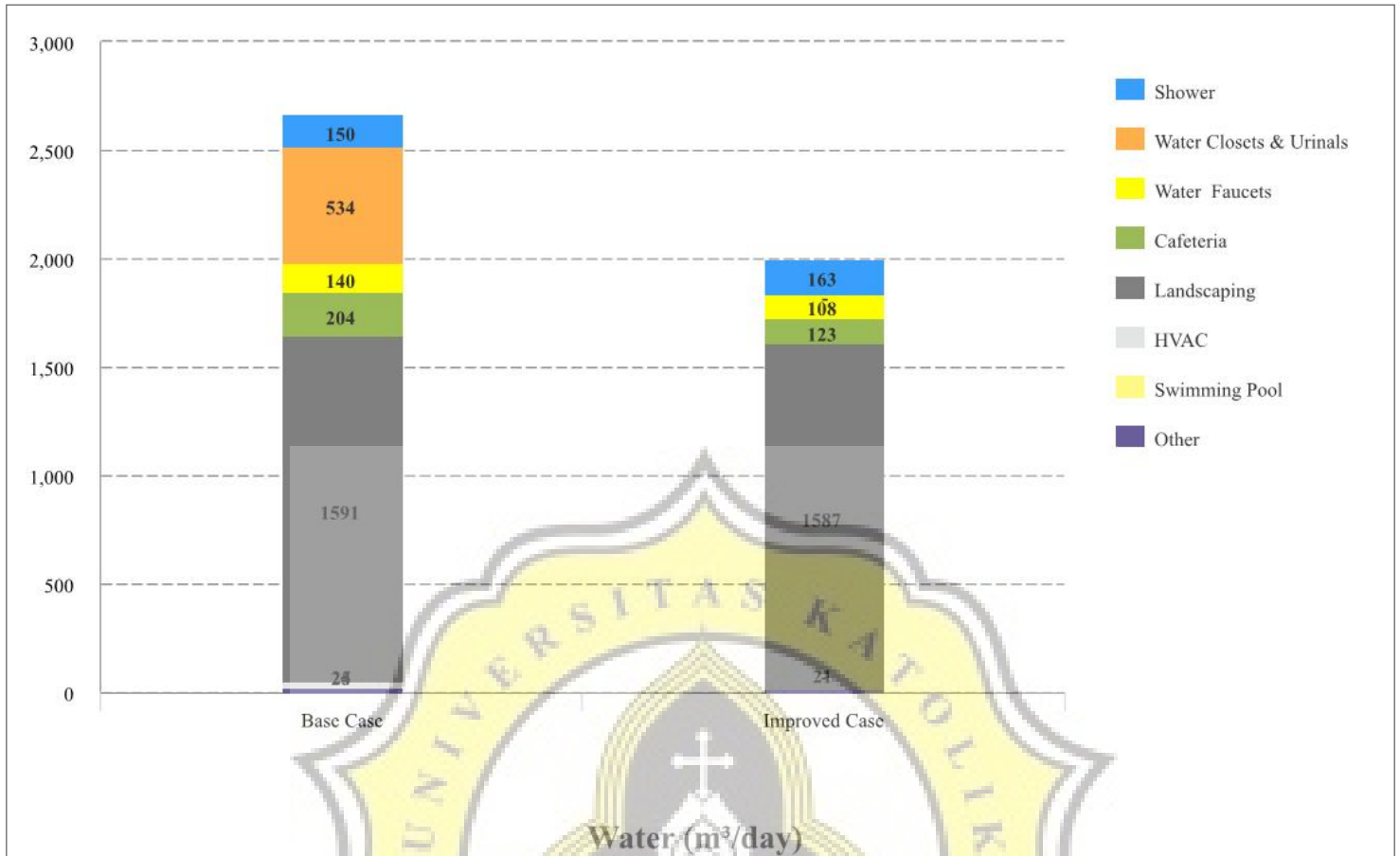


Yes	EDE01	Reduced Window to Wall Ratio - WWR of 10 %	North	10
			South	10
			East	10
			West	10
			Northeast	
			Southeast	
			Northwest	
			Southwest	
Yes	EDE02	Reflective Paint/Tiles for Roof - Solar Reflectivity (albedo) of 1	SR	1
Yes	EDE03	Reflective Paint/Tiles for Walls - Solar Reflectivity (albedo) of 0.7	SR	0.7
Yes	EDE04	External Shading Devices - Annual Average Shading Factor (AASF) of 1	AASF	1
No	EDE05	Insulation of Roof: U-value of 0.506		
Yes	EDE06	Insulation of External Walls: U-value of 0.435	[W/m ² .K]	0.435
No	EDE07	Low-E Coated Glass : U-value of 3 W/m ² .K and SHGC of 0.45		
Yes	EDE08	Natural Ventilation for Corridors		
No	EDE09	Natural Ventilation for Classrooms		
No	EDE10	Energy-Efficient Ceiling Fans		
Yes	EDE11	Variable Refrigerant Flow (VRF) Cooling System - COP of 3.5	COP	3.5
No	EDE12	Air Conditioning with Air Cooled Chiller - COP of 3.3		
No	EDE13	Air Conditioning with Water Cooled Chiller - COP of 5.39		
No	EDE14	Ground Source Heat Pump - COP of 4.65		
No	EDE15	Absorption Chiller Powered by Waste Heat - COP of 0.7		
No	EDE16	Recovery of Waste Heat from the Generator for Space Heating		
No	EDE17	Variable Speed Drives on the Fans of Cooling Towers		
Yes	EDE18	Variable Speed Drives in AHUs		
No	EDE19	Variable Speed Drive Pumps		
No	EDE20	Sensible Heat Recovery from Exhaust Air - Efficiency of 60%		
No	EDE21	High-Efficiency Condensing Boiler for Space Heating - Efficiency of 90%		
No	EDE22	High-Efficiency Boiler for Water Heating - Efficiency of 90%		
No	EDE23	Energy-Saving Light Bulbs - Internal Spaces		
Yes	EDE24	Energy-Saving Light Bulbs - External Spaces		
No	EDE25	Occupancy Sensors in Bathrooms		
Yes	EDE26	Occupancy Sensors in Classrooms		
Yes	EDE27	Occupancy Sensors in Corridors		
No	EDE28	Photoelectric Sensors to Harvest Daylight		
Yes	EDE29	Solar Hot Water Collectors - 50% of Hot Water Demand	% Hot Water Collector Area (m ²)	65.0
Yes	EDE30	Solar Photovoltaics - 50% of Total Energy Demand	% of Annual Electricity Use Capacity kWp	50 592.0
Yes	EDE31	Other Renewable Energy for Electricity Generation	Source Type % of Annual Electricity Use	Wind %
Yes	EDE32	Offsite Renewable Energy Procurement - Equal to 100% of total Operational CO2	% Annual Operational CO2 kWh/Year	1,026,509
No	EDE33	Carbon Offset - 100% of Total CO2		

Water Efficiency Measures 25.00%

WATER SAVINGS

Meets EDGE Water Standard

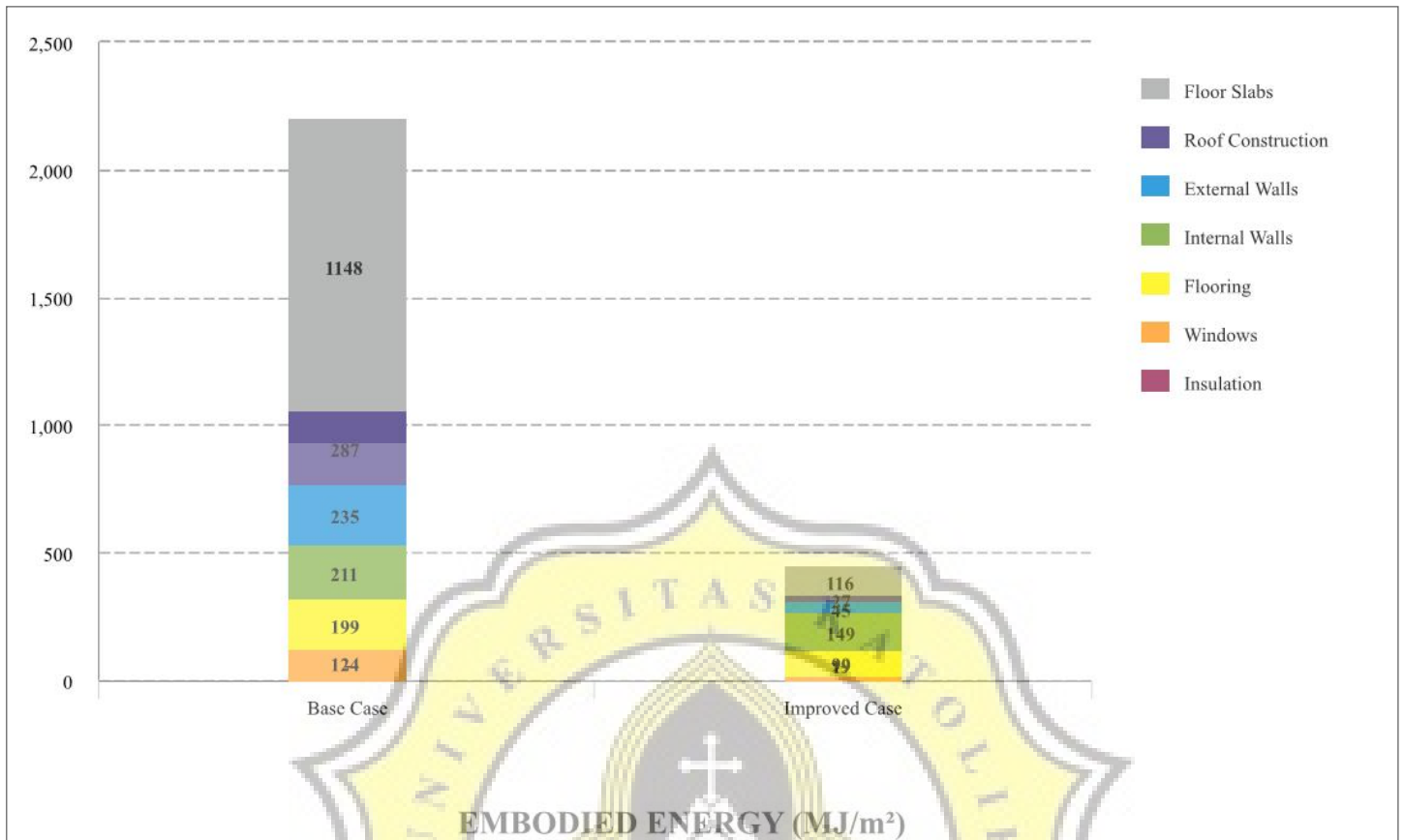


Yes	EDW01	Low-Flow Showerheads - 10 L/min	L/min	10
Yes	EDW02	Low-Flow Faucets in All Other Bathrooms - 5 L/min	L/min	5
Yes	EDW03	Single Flush/Flush Valve Water Closets in Bathrooms - 5 lt/ flush	1st - L/flush	5
	Yes	Single Flush/Flush Valve		
Yes	EDW04	Water-Efficient Urinals in All Other Bathrooms - 5 L/flush	L/min	5
Yes	EDW05	Water-Efficient Faucets for Kitchen Sinks - 4 L/min	L/min	
Yes	EDW06	Condensate Water Recovery		
Yes	EDW07	Rainwater Harvesting System - 50% of Roof Area Used for Collection	% of Roof Area Used	50
No	EDW08	Water-Efficient Landscaping - 4 L/m²/day		
No	EDW09	Swimming Pool Cover		
No	EDW10	Grey Water Treatment and Recycling System		
Yes	EDW11	Black Water Treatment and Recycling System	L/min	

Materials Efficiency Measures 79.37%

EMBODIED ENERGY SAVINGS

Meets EDGE Materials Standard



EDM01 Floor Slabs

In-Situ Reinforced Concrete Slab
350mm
Steel: 35kg/m2

Concrete Filler Slab with Polystyrene Blocks

Proportion %

Thickness

Steel Rebar

EDM02 Roof Construction

In-Situ Reinforced Concrete Slab
350mm
Steel: 35kg/m2

Type 1 Composite In-Situ Concrete and Steel Deck (Permanent Shuttering)

100 %

5 mm

kg/m²

EDM03 External Walls

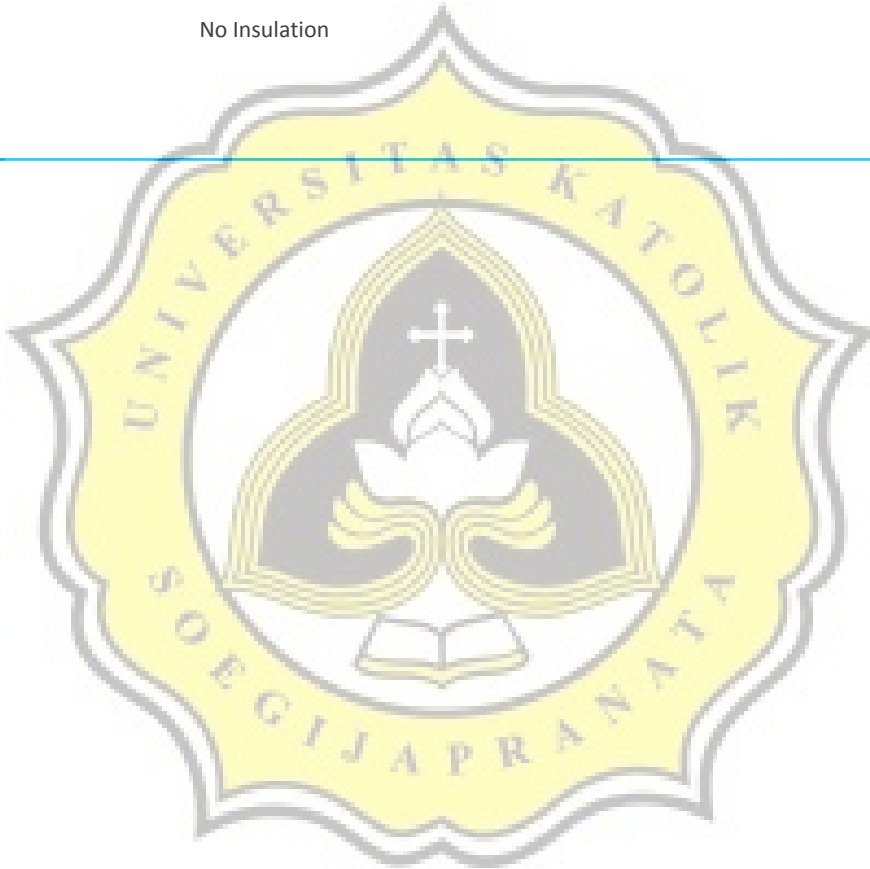
Common Brick Wall with Internal & External Plaster
200mm

Type 1 Autoclaved Aerated Concrete Blocks

100 %

150mm

EDM04 Internal Walls		Proportion %	Thickness
Common Brick Wall with Plaster on Both Sides 100mm	Type 1 3-D Wire Panel with 'Shot-Crete' Both Sides with Insulation	100 %	2 mm
EDM05 Flooring	Type 1 Terrazzo Tiles	100 %	
Ceramic Tile			
EDM06 Window Frames	Type 1 UPVC	100 %	Single Glazing
Aluminium Single Glazing			
EDM07 Wall Insulation	No Insulation		
No Insulation U: ~1.86 W/m2.k			



EDGE Certification Checklist

Building Type	Certification Stage	Subproject Name
Education	Post-Construction	Paddock
Energy Measures		Construction Audit Requirements
EDE01	Reduced Window to Wall Ratio	<ul style="list-style-type: none"> > As-built façade drawings. External and internal photographs of the building showing all the elevations. > Updated WWR calculations if required, or confirmation that the design WWR is still valid.
EDE02	Reflective Paint/Tiles for Roof	<ul style="list-style-type: none"> > A product data sheet for the materials and finish (including the solar reflectivity value). > Photographs of the roof materials and finish (where the finish is white this can be awarded without further evidence). > Delivery note and purchase documents indicating that the specified roof finish has been delivered to the construction site.
EDE03	Reflective Paint for External Walls	<ul style="list-style-type: none"> > A product data sheet for the wall finish (including the solar reflectivity value). > Photographs of the wall materials and finish (where the finish is white, this can be awarded without further evidence). > Delivery note and purchase documents indicating that the specified wall finish has been delivered to the construction site.
EDE04	External Shading Devices	<ul style="list-style-type: none"> > Photographs of the shading devices on all façades. > As-built façade drawings showing the shading devices that have been installed. > Update of shading factor calculations in case of changes from the design stage.
EDE06	Insulation of External Walls	<ul style="list-style-type: none"> > Delivery note confirming that the insulation material was delivered to the site. > Photographs of the external walls construction at a point when the insulation material was visible. > Updated calculations for U value if the thickness and type of insulations changed from the original design.
EDE08	Natural Ventilation for Corridors	<ul style="list-style-type: none"> > As-built drawings including floor plans and sections. > Confirmation from the project team that there have been no changes to the layout or the floor to ceiling height during the design/construction process. > Photographic evidence to demonstrate that the corridor layouts and location of openings as specified at the design stage have been constructed.
EDE11	Variable Refrigerant Volume (VRV) Cooling System	<ul style="list-style-type: none"> > As-built mechanical drawings with air conditioning schematics. > Delivery notes showing that specified chillers have been delivered to the site. > Manufacturer's data sheets for the VRV cooling system specifying COP information. > Photographs of installed external and internal air conditioning units.
EDE18	Variable Speed Drives in AHUs	<ul style="list-style-type: none"> > Delivery notes showing that specified AHUs with VSD Fans have been delivered to the site. > Manufacturer's data sheets showing VSD for AHU fan motors. > Photographs of installed AHU with VSD for fan motors.
EDE24	Energy Saving Light Bulbs for External Areas	<ul style="list-style-type: none"> > Photographs of the lighting installation. It is not necessary to take photos of every single installed lamp, but the auditor must be convinced that a reasonable proportion has been checked and verified. > As-built electrical drawings with the lighting layout if changed from design. > Purchase receipts and delivery notes for lamps
EDE26	Occupancy Sensors in Classrooms	<ul style="list-style-type: none"> > Photographs of occupancy sensor controls. It is not necessary to take photos of every single sensor, but the auditor must be convinced that a reasonable proportion has been checked and verified. > As-built electrical layout drawings showing the location of the occupancy sensors if changed from design. > Purchase receipts and delivery notes for sensors.
EDE27	Occupancy Sensors in Corridors	<ul style="list-style-type: none"> > Photographs of occupancy sensor controls. It is not necessary to take photos of every single sensor, but the auditor must be convinced that a reasonable proportion has been checked and verified. > As-built electrical layout drawings showing the location of the occupancy sensors if changed from design. > Purchase receipts and delivery notes for sensors.
EDE29	Solar Hot Water Collectors	<ul style="list-style-type: none"> > As-built plumbing schematics. > As-built roof plan showing the location, orientation, and angle of the panels. > Purchase receipts and delivery notes for the solar panels. > Photographs of the installed panels.

EDE30	Solar Photovoltaics	<ul style="list-style-type: none"> > As-built roof plan showing the location, orientation, and angle of the panels if changed from design. > Purchase receipts and delivery notes for the solar panels. > Photographs of the installed panels
EDE31	Other Renewable Energy for Electricity Generation	<ul style="list-style-type: none"> > As-built documentation showing the location and size of the system. > Photographs of the system. > Purchase receipts and delivery notes of the system.
EDE32	Offsite Renewable Energy Procurement	<ul style="list-style-type: none"> > Copy of contract or other formal document stating the quantity and term of renewable energy provided to the project > Description of the form of renewable energy that is procured and its origin or project name > Documentation that it meets the definition of an applicable local authority

Water Measures

Construction Audit Requirements

EDW01	Low-Flow Showerheads	<ul style="list-style-type: none"> > On site test results by the auditor of the flow rate at the highest flow per minute, using a timer and a measurement container. It is also recommended to use a Pressure gauge to measure the water pressure. > Photographs of the installed showerhead(s). > Purchase receipts and delivery note for the showerhead(s).
EDW02	Low-Flow Faucets	<ul style="list-style-type: none"> > Photographs of the installed faucet(s) or flow restrictor(s). > Purchase receipts and delivery note for faucet(s) or flow restrictor(s).
EDW03	Dual Flush Water Closets	<ul style="list-style-type: none"> > Photographs of installed water closet(s). > Purchase receipts and delivery note for water closet(s).
EDW04	Water-Efficient Urinals	<ul style="list-style-type: none"> > Photographs of installed urinal(s). > Purchase receipts and delivery note for urinal(s).
EDW05	Water-Efficient Faucets for Kitchen Sinks	<ul style="list-style-type: none"> > On site test results by the auditor of the flow rate at the highest flow per minute, using a timer and a measurement container. It is also recommended to use a pressure gauge to measure the water pressure. > Photographs of the installed faucet(s) or flow restrictor(s). > Purchase receipts and delivery note for faucet(s) or flow restrictor(s).
EDW06	Condensate Water Recovery	<ul style="list-style-type: none"> > As-built hydraulic drawings with the location of the recovery, collection and reuse technology. > Photographs of installed equipment related to the system.
EDW07	Rainwater Harvesting System	<ul style="list-style-type: none"> > Photographs of the installed rainwater harvesting system and dual piping. > Purchase receipt and delivery note for the rainwater harvesting/storage system.
EDW11	Black Water Treatment and Recycling System	<ul style="list-style-type: none"> > Photographs of the installed system. > Purchase receipt and delivery note for the water treatment and storage system. > Updated calculations or specifications if necessary.

Material Measures

Construction Audit Requirements

EDM01	Floor Slabs	<ul style="list-style-type: none"> > Date stamped photographs of floor slabs taken during or after construction; and > Purchase receipt for the specified floor slab material; or > Delivery notes.
EDM02	Roof Construction	<ul style="list-style-type: none"> > Date stamped photograph of the roof taken during or after construction; and > Purchase receipt for the building materials used for roof construction; or > Delivery note for materials used for roof construction.
EDM03	External Walls	<ul style="list-style-type: none"> > Date stamped photograph of the wall taken during or after construction; and > Purchase receipt for the building materials used for wall construction; or > Delivery note for materials used for wall construction.
EDM04	Internal Walls	<ul style="list-style-type: none"> > Date stamped photograph of the wall taken during or after construction; and > Purchase receipt for the building materials used for wall construction; or > Delivery note for materials used for wall construction.
EDM05	Flooring	<ul style="list-style-type: none"> > Date stamped photograph of the flooring once fitted; and > Purchase receipt for the specified building materials used as a floor finish; or

EDM05	Flooring	> Delivery note for materials used for flooring.
EDM06	Window Frames	> Date stamped photograph of the installed windows; and > Purchase receipt for the specified window; or > Delivery note for windows.



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