

**GREEN MARK INCENTIVE SCHEME  
(New Building)  
(Version 2.1)**

**APPLICATION FORM  
FOR 2<sup>nd</sup> DISBURSEMENT  
(Private Development)**

1. Applicants should read the guidelines before filling in this form.
2. You may require about 15 minutes to fill this form. All fields in this application are compulsory. Where information is not applicable, a “N.A.” is necessary.
3. All necessary supporting documents must be submitted together with your application.
4. Where terms or phrases are not defined herein, applicants should refer to the website of the Building and Construction Authority (“BCA”) or write to BCA for interpretive guidance. Such interpretive guidance shall be conclusive.

This application form is to be submitted, together with the Project information sheets duly completed and all required documents listed in the checklist to:

Deputy Director  
Green Policy Department  
Green Mark Incentive Scheme – New Building  
Building and Construction Authority  
5 Maxwell Road  
#17-00 Tower Block MND Complex  
Singapore 069110

For Official Use Only:

Registration No.
Incentive Entitlement

## GREEN MARK INCENTIVE SCHEME APPLICATION FORM

### PARTICULARS & DECLARATION BY APPLICANTS

We declare that the facts stated in this application and the accompanying information are true and correct to the best of our knowledge and that we have not withheld any material fact. We understand that if we obtain any incentive by way of false or misleading statements or information, or by withholding of any material fact, BCA may, at its discretion, withdraw the incentive and recover immediately from us any amount of the incentive that may have been disbursed.

Name of Developer / Building Owner			
Address		Tel No/Fax No	
Contact Person / Email Address		Company's Stamp	
Name & Designation of Applicant*			
Signature		Date	

Name of Architect Firm (Enhanced GMIS)			
Address		Tel No/Fax No	
Contact Person / Email Address		Company's Stamp	
Name & Designation of Applicant*			
Signature		Date	

Name of M&E Engineers Firm (Enhanced GMIS)			
Address		Tel No/Fax No	
Contact Person / Email Address		Company's Stamp	
Name & Designation of Applicant*			
Signature		Date	

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\* Only the sole proprietor, partner or company director of the applicant company, as registered with Accounting & Corporate Regulatory Authority (ACRA) or professional bodies, may sign this declaration.

### PROJECT INFORMATION (Sheet 1)

#### PROJECT DETAILS

Description of Project:			
Project Name: (Short)		Development Type	<input type="checkbox"/> Commercial <input type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Institution <input type="checkbox"/> Other <hr style="width: 100%;"/>
Project Address:			
Developer /Building Owner:		TS/MK No:	
A Subsidiary of A Major Developer, if applicable			
Architect:			
M&E Engineer:			
Contractor:			
Managing agent/ Maintenance Contractor:			
Facility Manager:			
Other Specialist Consultant :			
Total energy consumption for past 12 months (kWh)			
Total Gross Floor Area <sup>1</sup> (GFA) in m <sup>2</sup>		Green Mark Rating	<input type="checkbox"/> Gold <input type="checkbox"/> Gold <sup>PLUS</sup> <input type="checkbox"/> Platinum
		EDB's Solar Capability Scheme (SCS)	<input type="checkbox"/> No <input type="checkbox"/> Pending approval <input type="checkbox"/> Yes (state relevant amount \$ _____)

<sup>1</sup> Gross Floor Area (GFA) means the Gross Floor Area which has been permitted under Section 14 of the Planning Act (Cap 232) to be developed.

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**PROJECT INFORMATION (Sheet 2)**

***CHECKLIST OF DOCUMENTS TO BE ENCLOSED WITH APPLICATION  
(FOR GREEN MARK GOLD PROJECTS ONLY)***

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- a) i) All necessary evidence documenting the past 12 months electrical bills after TOP.  
ii) Green Mark Verification Certificate.

b) Information to be submitted for GMIS(NB) declaration:

	<b>Items</b>	<b>No. of Pages</b>	<b>Remarks</b>
<input type="checkbox"/>	<b>Appendix A:</b> Residential Buildings: Summary On Electricity Consumption And Savings	2	
<input type="checkbox"/>	<b>Appendix B:</b> Non-Residential Buildings: Summary On Electricity Consumption And Savings	2	.

# GREEN MARK INCENTIVE SCHEME APPLICATION FORM

## APPENDIX A: RESIDENTIAL BUILDINGS SUMMARY ON ELECTRICITY CONSUMPTION AND SAVINGS

Items	Actual Load (kW)	Daily Usage (hr)*	Load per day (kWh)
	A	B	A X B
<b>1) Mechanical Load</b>			
MV Fans (Plantroom)			
Carpark fans			
A/C for club house			
Lobby A/C (1st sty & Basement)			
Guard House A/C			
Domestic pumps			
Ejector pumps			
Booster pumps			
Sump Pumps			
<b>2) Lift Load</b>			
Passager Lifts			
Service Lifts			
Club House Lifts			
<b>3) General Lightings</b>			
Carpark Lighting - 24 hours operation			
Carpark Lighting - 5 hours operation			
Guard House			
Facade lighting			
Landscape Lighting - 12 hours operation			
Landscape Lighting - 5 hours operation			
Corridor& staircase Lighting - 12 hours operation			
Corridor& staircase Lighting - 5 hours operation			
<b>4) Club House</b>			
Club Interior Lighting			
Power to Gym equipment, SPA, etc			
Swimming Pool Filtration			
Underwater Lighting			
Water Feature			
<b>5) Others</b>			

\* Hours used is based on a typical residential building

Items	Formula	Value
Total kWh per day	$\sum (A \times B)$	
Total Energy Consumption per year (kWh/year) for common areas	$\sum (A \times B) \times 365$	
Gross Floor Area (m <sup>2</sup> )	C	
EEl for Common Facilities (kWh/m <sup>2</sup> /yr) EEl-Common (item to update for appendix B)	$\frac{[\sum (A \times B) \times 365]}{C}$	

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### ELECTRICITY CONSUMPTION FOR DWELLING UNITS A/C

	Estimated Load(kW)	Daily Usage (hr)	Load per day (kWh)
A/C load for all apartment units			
<b>Total kWh per day (D)</b>			

Items	Formula	Value
Total Energy Consumption per year (kWh/year) for all units A/C	$D \times 365$	
Gross Floor Area (m <sup>2</sup> )	C	
EEl for all units A/C (kWh/m <sup>2</sup> /yr) EEI-A/C	$\frac{D \times 365}{C}$	

### ESTIMATED ENERGY SAVING PER YEAR FOR GREEN FEATURES

Green Features	Estimated Energy Saving Per Year# (kWh)	Distribution of Energy Saving* (%)
Dwelling Units A/C (Estimated)		
Lighting for common areas (Actual)		
Car Park MV System (Actual)		
Others (Actual)		
<b>Total Energy Saving</b>		

\* Distribution of energy saving is percentage of estimated energy saving per year for each green features over total energy consumption per year for both common areas and all units A/C

# Details calculation of energy saving for each green features shall be enclosed

## GREEN MARK INCENTIVE SCHEME APPLICATION FORM

### APPENDIX B: NON-RESIDENTIAL BUILDINGS SUMMARY ON ELECTRICITY CONSUMPTION AND SAVINGS

System/ Equipment	Reference Model Energy Consumption (kWh/yr)	Actual Building Energy Consumption (kWh/yr)	Energy Consumption Savings (%)
Lighting (Air-Conditioned Space)			
Lighting (Non Air-Conditioned Space)			
Receptacle Equipment			
<sup>1</sup> Air-Conditioned Plant			
<sup>2</sup> Air System Fans			
Mechanical Ventilation Fans			
Lifts			
Escalators			
Domestic Water Systems			
Others (Pls specify)			
<b>Total Building Energy Consumption</b>			

Items listed are based on typical building. Items could be added for better description.

<sup>1</sup> Chilled Water System (chillers, water pumps and cooling towers)

<sup>2</sup> Chilled Water Air Handling and Fan Coil Units

# Details calculation of energy saving for each SYSTEM shall be enclosed

\*If the development's electrical design do not have dedicated power meters for 1) Air-System Fans, 2) Lifts and Escalator and 3) Domestic Water System, **One-Week** temporary power logging will be require

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### Renewable Energy Sources (if applicable)

System/ Equipment	Energy Produced (kWh/yr)	Reference Model Energy Consumption (kWh/yr)	Actual Building Energy Consumption (kWh/yr)	Energy Consumption Savings (%)
Photovoltaic				
Others (Please specify)				
Total Building Energy				

### Calculation of EEI :

$$EEI = (TBEC - DCEC) / (GFA_{\text{excluding carpark}} - DCA - GLA * VCR) * (55 / OH)$$

where:

- a) TBEC : Total building energy consumption (kWh/year)
- b) CPEC : Carpark energy consumption (kWh/year)
- c) DCEC : Data centre energy consumption (kWh/year)
- d) GFA<sub>excluding carpark</sub> : Gross floor area exclusive of car park area (m<sup>2</sup>)
- e) DCA : Data centre area (m<sup>2</sup>)
- f) GLA : Gross lettable area (m<sup>2</sup>),
- g) VCR : Weighted floor vacancy rate of gross lettable area (%)
- h) 55 : Typical weekly operating hours of office buildings in Singapore (hrs/week)
- i) OH : Weighted weekly operating hours of gross lettable area exclusive of data centre area (hrs/week)

<b>EEI</b>	
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**For tenant receptacle load, the table below is for reference**

Receptacle Loads	Nominal Values
Computer intensive offices	22 W/m <sup>2</sup>
General office areas	16W/m <sup>2</sup>
Large conference areas	11 W/m <sup>2</sup>
Server/Computer rooms	540 W/m <sup>2</sup>

Source: ASHRAE STD 90.1:1999