

Name of Building	
Address	
Contact Person	
Email	
Telephone No.	
Facsimile No.	

Sustainable Development Group (Myanmar) Pte Ltd #03-A Myannigone Plaza Sanchaung Township Yangon, Myanmar Tel: 95 01 525994 info@sdgmyanmar.com www.sdgmyanmar.com

Building Information

Type of Building	Factory/ Hotel/ Office/ Mall/ Hospital/ Owned/ Leased yrs					
Building Age (yr)		Lettable Area (m ² /ft ²)				
No. of Storeys	Air Con Area (m²/ft²)					
No. of Basements		GFA (m²/ft²)				
Avg Occupancy (%)		Avg. no. of Occupants				

Energy Consumption

Avg Monthly Electrical Consumption	kWh	
Avg Monthly Electrical Bill	S\$	
Avg Maximum Demand	kW	
Contracted Capacity	kW	
Incoming power supply (voltage)	v	66kv / 22kv / 6.6kv / 400v / others
Other energy sources	-	Gas / Diesel / Others

Water Consumption

Avg Monthly Water Consumption	m ³	
Avg Monthly Water Bill	S\$	

Air-Conditioning System – Chillers (CH)

Make		Model		Tonnage		kw/ton		Qty	
Type of Chillers / Refrigerant R11/ R12/ R134			4a/ R123/ Ot	hers					
Motor Bra	and		Model		Qty	Efficienc	y	kw	
Type of c	apacity cont	rol		VSD/ Gui	de vane	e/ others			
Chiller ag	je (yr)			·					
Chilled w	ater flow (us	gpm/cmh) /pr	essure drop (ft/	m/kpa)					
Condens	er water flow	/ (usgpm/cmh)/ pressure drop	o (ft/m/kpa)					
Chilled w	ater set poin	t/ operating s	et point (°C)						
No. of ch	iller in opera	tion							
Average	operating co	oling load (to	n)	Average o	perati	ng power consump	tion(kw)		
Day		Nigh	nt	Day Night					
Balancing valve or flow control present?			Yes / No /	Please	specify:				
Any by-pass at chilled water pipe header?			Yes / N	lo	Operation sc	hedule			



Primary Chilled Water Pump (PCHWP)

Pump Brand		Model		Qty		Bhp		
Flow(usgpm/cmh) /								
Type of Pump Horizontal / Vertical Split / E			End suction / C	Others				
Motor Brand		Model	Qty Efficiency kw					kw
VSD on motor	Yes / No		Brand	Danfos	ss / ABB/ S	Schneider / O	hers:	
Average operating	power consu	mption (kw)						
No. of pumps in operations				Ор	eration S	chedule		
Balancing valve or flow control present?			Yes / No / P	lease sp	ecify:			

Secondary Chilled Water Pump (SCHWP)

Pump Brand		Model		Qty		Bhp		
Flow(usgpm/cmh) /								
Type of Pump Horizontal / Vertical Split / E			ind suction / C	thers.				
Motor Brand		Model		Qty		Efficiency		kw
VSD on motor	Yes / No		Brand	Danfo	oss / ABB/ S	Schneider / O	thers:	
Average operating	power consu	mption (kW)						
No. of pumps in operations				0	peration S	chedule		
Balancing valve or flow control present?			Yes / No / P	lease s	specify:			

Condense Water Pumps (CWP)

Pump Brand		Model		Qty		Bhp		
Flow(usgpm/cmh) /								
Type of Pump Horizontal / Vertical Split / E			ind suction / C	Others.				
Motor Brand		Model		Qty		Efficiency		kw
VSD on motor	Yes / No		Brand	Danfo	oss / ABB/ S	Schneider / O	thers:	
Average operating	oower consu	mption (kw)						
No. of pumps in operation				0	peration S	chedule		
Balancing valve or flow control present?			Yes / No / P	lease s	specify			

Cooling Towers (CT)

Brand	/	Model		Qty		Tonnage			
Type of flow	Cross / cour	unter flow / others:							
Motor Brand		Model		Qty		Efficiency		kw	
VSD on towers	Yes / No		Brand	Danfo	oss/ ABB / S	Schneider / Ot	thers:		
Average operating	power consu								
No. of towers in operations				Oper	ation Sche	dule			



Air Handling Units (AHU)

Brand	-		Model	Model Qty Capacity						
Type of Motor Drive Belt / Direct /				others						
Type of N	lodulating	Valves	On / Off / Mod	ulating / 2-wa	ys / 3 v	/ays / Oth	ners:			
Type & La	ayers of Ai	r Filters								
Motor Bra	and		Model		Qty		Efficiency		kw	
Room ter	nperature	set point	°C	Room operating temperature°C%RH					%RH	
VSD on A	HUs	Yes / No		Brand	Danfo	oss / ABB	/ Schneider /	Others:		
Average operating power consumption (kw)			mption (kw)							
No. of AHUs in operation					Op	eration	Schedule			
Any clean room ? & class ? Yes / No / 10			100 / 1k / 100	k / Oth	ers	Outside air	AHU present	? Y	es / No	

Energy Management & Control System (EMCS)

Any EMCS installed? If yes, please specify name	Yes / No / Specify
EMCS in operation?	Yes / No / Specify
Type of Flow meters	Magnetic / Vortex / Pedal wheel / others,,,
Type of Temperature sensors	Pt100 / Pt500 / Pt1000 / 10k / 30k / Others
Power meters	Digital power meter / kw transducer / others
Any historical data logging? Interval?	Yes / No / seconds / minutes / hours interval
If manually operated, please explain.	

Lighting Information

Offices – floor area (m ²)	
Type / quantity / power rating (kw)	
Operation schedule	
Corridor / lift lobby – floor area (m ²)	
Type / Qty / Power rating (kw)	
Operation schedule	
Staircase – floor area (m ²)	
Type / Qty / Power rating (kw)	
Operation schedule	
Toilet – floor area (m²)	
Type / Qty / Power rating (kw)	
Operation schedule	
Carpark – floor area (m²)	
Type / Qty / Power rating (kw)	
Operation schedule	
Others – floor area (m ²)	
Type / Qty / Power rating (kw)	

Energy Survey Form



Additional Information

Equipment List & Operating Schedule

If the given formats are not applicable, not enough, or as in additional information, please provide separate *specifications,* equipment lists, daily log sheets and operating schedule of the equipment such as

- 1. Toilet exhaust system, car park supply & exhaust system
- 2. Air heaters for RH control
- 3. Domestic water system & Water fall system
- 4. Cold room & energy recovery system
- 5. hot water & boiler system
- 6. Vertical lift & escalator, etc.

Historical Utility Information

Please provide utility bills for past 3 years covering electricity, gas, fuel, oil and water.

Building Characteristics

OTTV / ETTV / RTTV of the building	:	/		/	w/m ²	
Window glazing	:	Single /	Double	e / Clear	/ others	
Shading devices	:	Blinds / Curtains / Others		Heat gain from Windows		w/m ²
Façade color	:	Grey / White / Yellow / c	others	% of window a	rea to wall area	%
Roof coating / color	:	: Touch-on Membrane / White / Grey / Others				
Adjacent buildings	:	One / Two / Three sides / Others :				
Height of nearby buildings	:	: Higher / Lower / About the same / Varies				

Please make available copies of the followings:

- 1. Architectural drawings and specifications, showing the plan & elevation of the building
- 2. Mechanical & Electrical drawings especially single line electrical drawing, chiller plant layout & chilled water & condenser water schematics drawings, its schedule of equipment and specifications.

The above is necessary for the audit team to familiarize themselves with the buildings's configuration, M&E systems and equipment layout, operation and control.

Historical Maintenance / Services

Any upgrading / replacement / overhaul of equipment / building carried out? Please state when & what has been done.

Historical Energy Conversation Measures

Any energy saving measure implementing or implemented? Please state when & what ECMs implemented, and investment figures, payback, problem encountered, objective, etc.

Any change in operating hours / set points / demand? If yes, please specify: