

2. Size of Business

- Number of staff:
- No. of main buildings:
- **Estimated total Net / occupied floor areas (NFA) in : _____m²**
- Estimated total Gross occupied floor areas (GFA) in : _____m²
- For factory only:

No. of productions per year (kg):

3. Operating Time

- General starting time:
- General finish time:
- No of working days per week and per year :
- Do you work on public holidays: **Yes/No**

4. Installation Description

Premise No.	Usage	No. of Floors	Premise materials & color's (Walls & Roof)	Are windows tinted?	Total occupied areas (m ²)	Is the roof insulated?(Yes/No)
1						
2						
3						
4						
5						

Add additional sheet for extra premise.

5. Electricity

- Tariff code:
- Electricity End-Users

List in the following the estimated percentages of end-user consumption of the total electricity bill

End-User Load	Percentage of Total Bill %
Production equipment	%
Pumps	%
Air Compressor	%
Fans and Blowers	%
Air-conditioning	%
Lighting	%
Others (please specify)	%
Total	100 %

- List your electricity bill history for the last 12 months

Month	Year	KWh (Peak)	KWh (off-peak)	MD (kW)	PF penalty (RM)	Total Bill (RM)

- Do you pay a Power Factor penalty? **YES/NO**
- Please attach **a copy of the latest annual TNB electricity bill** of your company.

• **Electricity Metering**

Main utility meters (kWh & kVARh)

Meters	Function	Type (Electronic/Electro- mechanical with rotation disk)

Sub-meters (kWh & kVARh)

Meters	Function	Type (Electronic/Electro- mechanical with rotation disk)

6. Fuels

- Do you use any type of fuels? Yes/No

If Yes, please fill the following table:

Fuels	Usage	Unit	Estimated annual costs (RM)

7. Boilers (if any).

This is related to boilers used for generating steam used in the operations.

If you have boilers, please complete the following information

Boilers	1	2	3	4
Fuel type				
Boiler Type Water-tube/Fire-tube				
Steam Capacity (Ton/hr)				
Steam values (Ton/hr, °C, bar)				
Efficiency or Heat Rate (%)				
Frequency of blow down				
Does it have heat recovery? Yes/No				
Age and Year of Commissioning (Years/ 19...)				
Manufacturer				
Use				

- Do you have any heat recovery/rejection? **Yes/No**

If the answer **Yes**, describe briefly how:

8. ACMV System

- Start-up time:
- Shut down time:
- Is there any control to the amount of fresh air used by the air-conditioning system?
Yes/No

If the answer **Yes**, describe briefly how:

- Indicate the type of air-conditioning system used in your premise:

Location	Type	Control (Manual /Automatic)	Capacity	Total Unit	Year Manufactured

- Is there any future upgrading for your air-conditioning system? **Yes/No**

If **Yes**, please indicate when and what type of the new system (capacity, type).

9. Production equipment (if related)

- List the types of production machines or equipment

Type of Equipment	Brand	Model	Year of Manufactured	Capacity (kW)

10. Pump (if related)

- List of the type of pump

Type of pump	Brand	Model	Year of Manufactured	Rated Power (kW)

- Is there any retrofitting equipment attached?

If yes, please justify.

11. Air Compressor (if related)

- **List of the types of air compressor**

Compressor No	Brand	Model	Capacity (m ³ /hour)	Rated Power (kW)

12. Fan and Blower (if related)

- **List of type of fan and blower**

Type	Brand	Model	Rated power (kW)	Year Manufactured

13. Lighting

- List the types of lighting technologies used in your premise

Lighting Technologies	Place of Use	Total No.	Total kW	Remarks
Ordinary fluorescent tubes				
Compact fluorescent lamps				
Incandescent globes				
Luminaires without reflector				
Luminaires with mirror reflectors				
Tri-phosphor fluorescent tubes				
Lighting energy savings systems (provide the brand name)				
Lighting control system				

15. Energy Loads

- If available, please attach a copy of the daily/weekly/monthly load cycle.

16. Are there any future expansion plans for hot water and power demand?

Yes/No

- If **Yes**, please describe the plans briefly.

17. Do you have any future plans for an Energy Efficiency project?

Yes/No

- If **Yes**, please describe the projects:

18. Have you recently implemented any Energy Efficiency Projects?

Yes/No

- If **Yes**, please describe the projects:

19. Is there any energy saving equipment installed in your premise? Yes/No

If **Yes**, please describe briefly about the equipment.

20. Do you have Supervisory Control and Data Acquisition (SCADA) or Building Automation System (BAS) for monitoring and controlling your operations?

Yes/No

If **Yes**, does your SCADA/BAS record electricity demand of your manufacturing facilities?

21. Is there any future upgrading for any facilities for your premise?

If **Yes**, indicate when and provide the description of the upgrade.