



Personal Data Collection Statement

Any personal data provided in this form will be used for processing your Renewable Energy System grid connection application. The provision of your personal data in this form is not a must. Processing time of your application would be longer if the personal data are not adequate in this form. CLP will not disclose or transfer your data to any third parties. You have rights of access and correction of your personal data in accordance with the provisions of the Personal Data (Privacy) Ordinance (Cap. 486). If you wish to exercise these rights with respect to your personal data held by us, please contact our Senior Network Planning Manager by email atcsd@clp.com.hk. You can learn more about CLP's policies on privacy and personal data protection at <https://www.clpgroup.com/Pages/Privacy.aspx>.

Unless specified otherwise, references to "CLP" shall mean CLP Holdings Limited, its subsidiaries and affiliates in Hong Kong.

CLP Power Hong Kong Limited

8 Laguna Verde Avenue, Hung Hom, Kowloon, Hong Kong

Tel : (852) 2678 8111 Fax : (852) 2760 4448

www.clpgroup.com

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Renewable energy systems and
CLP's electricity grid



Introduction

At CLP Power (CLP), responsible environmental management is a core principle of our business. We therefore support efforts to explore and use sources of renewable energy. To this end, if you are our customer and are interested in developing small-scale renewable energy systems, we will work with you to connect these systems to the electricity grid. Working together, we can ensure the provision of safe and secure electricity from renewable sources of energy. You will be able to generate all or part of your own requirements, while still being connected to the CLP grid for backup and any additional electricity needs.

This brochure provides information on how you can connect small renewable energy systems to our electricity grid together with details of the application process. We hope that this simple and easy application process will facilitate the development of small, safe renewable energy systems in Hong Kong, while at the same time, raising public awareness and understanding of renewable energy applications and the role renewable energy has to play in improving the environment.

Who can apply for grid connection?

This brochure is for those customers who wish to install renewable forms of generation while being connected to our grid for backup power supply.

Any customer who is interested in developing a small renewable energy system is welcome to apply. In the past, we have received and processed applications from schools, non-profit organizations, government departments and private organizations. Based on our experience, these renewable energy systems have a capacity of less than 1000kW of electricity.

Can any renewable energy system be connected to the electricity grid?

At CLP, safety is our highest priority. Renewable energy systems connected to our grid cannot cause any potential harm to property or people, or jeopardize the stability of the electricity grid. Quite simply, we cannot let one customer's grid-connected renewable energy system affect our other customers.

Typical examples of renewable energy systems that can be connected, once the necessary safety checks have been completed, include generation

systems powered by solar thermal energy, solar photovoltaic energy, wind energy, wave and tidal action.

How can I apply for connection to the electricity grid and how long will it take?

To make sure that all systems connected to our supply grid work efficiently and effectively for our customers while meeting our safety requirements, we have developed a simple process to assist you in the connection process.

1. Initial meetings, discussions and application

If you are interested in using a renewable energy system we suggest you contact us before submitting your application. If necessary, a pre-application meeting can be arranged. In any case, once we receive your application, we will arrange a meeting with you to gain more detailed information on your proposed system, its objectives and needs. At this meeting, we will also discuss the application process in greater detail and go into the system's potential commercial, technical and operational impact. Our aim is that you have the information you need to select the most suitable technology and system based on your specific objectives and needs.



2. Assessment

This includes both technical and commercial assessments by CLP.

3. Agreeing technical requirements and commercial terms

Based on the results of both the technical and commercial assessments, we will let you know if the proposed renewable energy system meets our technical specifications. Where necessary, we will propose changes to the system. We will also offer a set of commercial terms that govern the relationship between CLP and the applicant. After agreeing on the technical requirements and the commercial terms, an agreement will be signed by the two parties.

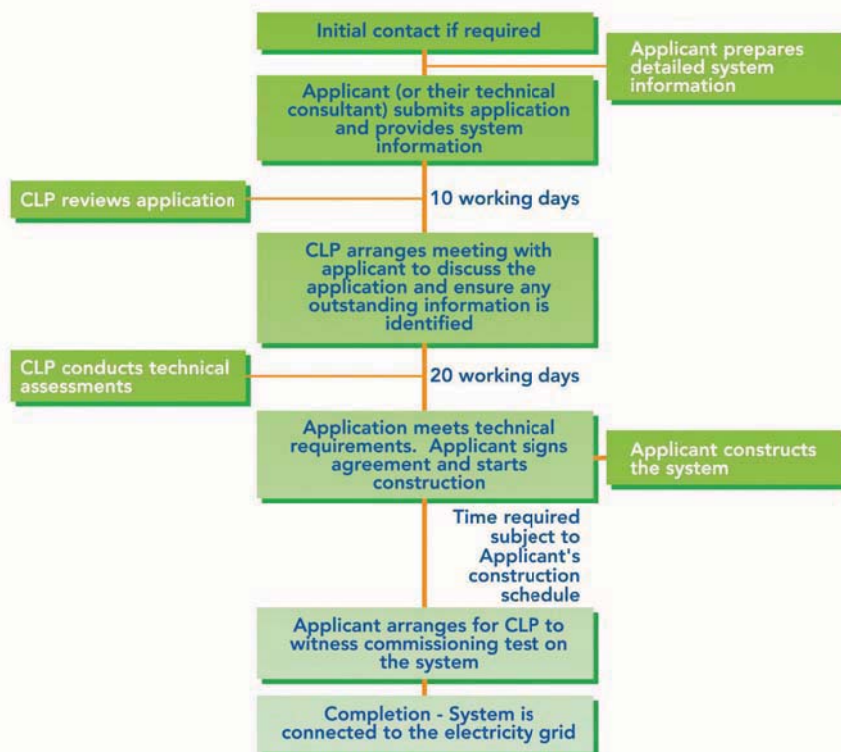
4. Construction

Once the agreement has been signed, you can proceed to the building and installation of your system. We will provide the necessary assistance to ensure that your system meets our technical and safety requirements.

5. Testing

Once the construction of your renewable energy system is complete, commissioning tests need to be conducted in the presence of our engineers to confirm that the system complies fully with all of CLP's safety, reliability and power quality requirements.

The diagram below illustrates the application process and the corresponding time it took to establish and install a small renewable energy system in a school:



For a typical small renewable energy system application, the length of time between receiving the application and completing the assessment can be as short as 30 working days.

Why does CLP require a technical assessment?

We provide a safe, reliable and high level of electricity service to all our customers. We cannot allow the connection of a poorly designed renewable energy system to jeopardize the stability of electricity supplies not only to you but also to our other customers. Further, if the system does not have proper safety measures in place, it could pose a risk to the safety of your staff and ours as well as a risk of property damage. As such, we conduct a thorough technical assessment on every proposal before any connections are made to our electricity grid.

Why do I need to sign an agreement?

Apart from technical, safety and stability concerns, there also are important commercial implications to be considered. These include defining both your and our responsibilities and liabilities, as well as any possible implications to other customers.

What are these technical requirements?

To ensure safety, reliability and the highest quality electricity supply to all our customers, we do require that all proposed systems are installed and commissioned by qualified technicians. These technicians must work closely with our engineers and follow our guidelines.

There is no one single set of technical specifications that can ensure the safety and reliability of every system. Each system has its own unique requirements. After reviewing the technical design and specifications of your system, our engineers will be able to determine necessary requirements.

You can also obtain some guidelines from the Electrical and Mechanical Services Department of the HKSAR Government in their document - "Technical Guidelines on Grid Connection of Renewable Energy Power Systems (2007 Edition)".

And commercial requirements?

Every proposal has its own set of commercial requirements.

As an applicant, you will need to assume ongoing responsibilities for your system's connection to the electricity grid, including the continued safe operation and maintenance of your renewable energy system. The complete list of these responsibilities will be detailed in the agreement under the necessary commercial requirements.

Cost for connection to the grid

We charge an assessment fee for the administration involved and assessment required for each application. The assessment fee is charged based on the capacity of the renewable energy system. For schools and non-profit organizations, we waive the assessment fee.

Any other commercial and cost issues will be dealt with in the assessment process. Additional costs should not apply in the case of educational, research and demonstration applications.

What next?

We have created a single point of contact for the submission of all completed applications. Please refer to the following for contact details.

Upon receipt of your application, we will contact you to arrange a meeting to discuss the proposal, objectives and the technical details of your project. We pledge to arrange this initial meeting within 10 working days of receiving your application.

Any other questions?

Please do not hesitate to contact us if you have any questions. We will also be happy to meet you if you are considering a renewable energy project and have any questions about grid connection.

Contact Division / Department : Power Systems Business Group / Asset Management Department
Postal Address : 215 Fuk Wah Street, Kowloon, Hong Kong.
Post of Responsible Person : Senior Network Planning Manager
Telephone Number : 2678 7131
Facsimile Number : 2678 6863
Email Address : csd@clp.com.hk
Website : www.clpgroup.com

Initial information checklist

To make sure that your application is processed as quickly and as smoothly as possible, please provide the following information¹ when applying for connection to the electricity grid: (Please refer to the back cover of this brochure for CLP's personal data collection statement.)

Application Form

Applicant information

Name _____ Postal address _____

CLP account number (for existing customer) _____ Contact telephone number _____
Facsimile number _____ Email address _____

Information on your proposed system

Purpose of the system _____
Installation address _____
Expected installation date _____
Expected commissioning date _____
Renewable technology concerned (e.g. photovoltaic, wind, hybrid etc.) _____
Manufacturer / brand and type (inverter, synchronous machine, asynchronous machine, etc.) of power generation equipment _____
Country of origin _____
Standard of compliance _____
Technical specifications of power generation equipment
Total rating _____
Single-phase or three-phase electricity output _____
Frequency of electricity output _____
Expected annual generation (kWh) _____
Any other known small renewable energy system installation on site _____

Engineering information

Name of contact person _____ Postal address _____

Contact telephone number _____
Experience in small renewable energy system installations _____

- Brief description of the mode of operation and control of the renewable energy system:
 - Technical drawings illustrating the physical locations of the renewable energy system and other major electrical equipment installed or to be installed
 - Single-line electrical diagrams of the distribution system showing details of the proposed grid connection and the associated metering points / supply points

¹ Adapted from 'Appendix (II) – Information to be Submitted with Grid Connection Application, Technical Guidelines on Grid Connection of Renewable Energy Power Systems', EMSD

Note : The material included in this brochure is subject to change.