

# Resources & Protection Technology Company Profile

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## **A] “Total Solution ” for Renewable Energy System**

A1] Renewable Energy System “Feasibility Study Services”

A2] Renewable Energy System “Design and Supply Services”

A3] Renewable Energy System “Install & Supervision Services”

A4] Renewable Energy System “Audit & Rectification Services”

## **B] Evacuated-Tube Technology Solar Hot Water System**

B1] Solar Powered Centralized Hot Water Supply System

B2] Solar + Heat Pump (Water Sources/ Air Sources) Heater

B3] Solar + Heat Pump + Boiler (Gas/Electric) Heating System

## **C] Photovoltaic Panel / Wind Turbine / Hybrid System**

C1] Photovoltaic Panel / Building Integrated Product / System

C2] Solar Power Lighting (Street / Garden / Traffic / Marine)

C3] Hybrid Power Supply System (PV + Wind Turbine)

C4] Turn Key Hyper Powered Intelligent Irrigation System

C5] Turn Key Hyper Powered Intelligent Fresh Air System

C6] L.E.D. Lighting (High Power / Energy Savings) for Offices



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# COMPANY PROFILE INDEX

## **Company Overview**

Facts & Contact Details

Mission

Organization Chart

## **Systems**

Concentrated Solar Power (CSP)

Green Energy Hot Water System

Green Energy Electricity Supply System

## **Services**

Feasibility Study for Green Energy System

Consultancy for Green Energy System

Design and Supply for Green Energy System

Installation & Supervision for Green Energy System

System Rectification for Green Energy

System Auditing for Green Energy

Customized

## **Products**

Green Energy Hot Water Related Products

Green Energy Electricity Supply Related Products

Others

## **Clients List**

## **Job Reference**

## Company Overview

Resources & Protection Technology Limited (RPT) is in the well established and lucrative business of renewable energy system over 12 years. We are a regional company in Asia with leading positions in the markets we serve. We are also the Asian premier supplier of products, systems and services to renewable energy. The company is a major green supplier of sophisticated services to a broad range of Hong Kong government agencies and public listed companies.

### **Facts & Contact Details**

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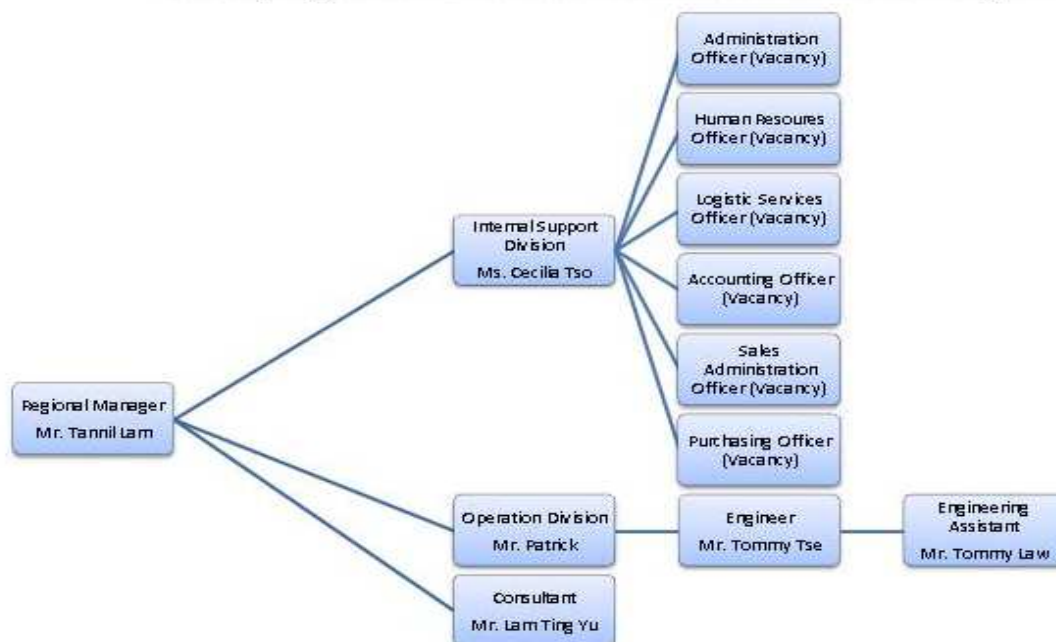
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### **Our Mission**

We promote renewable energy to the public in order reducing carbon emission and climate change.

### **Organization Chart**

Existing Organization Chart of Resources & Protection Technology Limited



## **Systems**

### **Concentrated Solar Power**

The Concentrated Solar Power "CSP" Technology is ready to be supplied or "Design & Build" by RPT Hong Kong include the Parabolic Trough Solar Collector with the total solution for the below segment:

First is for the "mid" range temperature (from 80 to 200 degree Celsius) applications, include the Textile & Desalination;

Second is for the "high" range temperature (from 200 to 500 degree Celsius) applications, include the High Pressure Steam & the Power Plant.

### **Green Energy Hot Water System**

This segment contains solar heat and waste heat application including to design, to install and to supply solar collector, heat pump and any other necessary components. All completed projects in Hong Kong had been approved by Water Authority of Hong Kong Special Administrative Region.

### **Green Energy Electricity Supply System**

This segment contains photovoltaic power system, turbine power system and hybrid power system including stand-alone and grid-connect system. We produce a turn-key system which fit for clients' needs.

## **Services**

### **Feasibility Study Services**

We provide Feasibility Study Services to help our clients to determine if a solution on environmental issue is possible, practical and viable. It includes

1. to define of the project, to outline alternatives;
2. to narrow solution alternatives;
3. to surface new finding through the investigative process;
4. to identify reasons to/ or not proceed;
5. to enhance the probability of success by addressing and mitigating factors early on that could affect the project;
6. to provide quality information for decision making; and
7. to provide documentation that the project was thoroughly investigated.

### **Consultancy Services**

We deliver advice, expert implementation guidance and recommendations on environmental issues and projects to our clients independently.

### **Design and Supply**

We provide a wide range of renewable energy related products. In order to help our clients' to build their own system, which fit for their needs including Photovoltaic System, Solar Hot Water System, Turbine System and Hybrid Power System, we provide design services to our clients.

### **Installation and Supervision Services**

Our experienced & skillful technicians implement project through installation & supervision for a wide range of renewable energy system.

### **System Rectification Services**

Many renewable energy systems might be designed and installed by lay-technicians or lay-engineers. The systems may perform poor or may malfunction. We can provide services to rectify the performance of the systems.

### **System Auditing Services**

We perform a system auditing to assess renewable energy system, building energy consumption and utility consumption for our clients. Recommendations and advices will be given to help them to improve energy saving and carbon emission reducing.

### **Customized Services**

RPT provides total solution to our clients which can reach our clients' needs.

## **Products**

### **Green Energy Hot Water / Waste Heat Recovery related products**

1. The pressurized type evacuated-tube solar collector
2. Boiler Heat Pump – i.) Water Sources type; and ii.) Air Sources Types.
3. CO2 Heat Pump – i.) Water Sources type; and ii.) Air Sources Types.

### **Green Energy Electricity Supply related products**

1. Concentrated Solar Power (CSP) Collector & Controller
2. Photovoltaic Panel / Mono and Poly crystalline
3. Wind Turbine – horizontal and vertical axis types
4. Solar/ Wind Turbine Controller and Charger
5. Solar/ Wind Turbine type Gel and AGM Battery

### **Others**

1. Hybrid / Solar Power Lighting – LED Street Pole, Garden Light and Marine Light Solutions
2. Hybrid / Solar Power Water Treatment / Filtration Solutions / Systems
3. Waste Heat Recycle / Recovery / Reuse Solutions / Systems
4. Kinetic Power Panel and Controller
5. Green Roofing Package
6. Organic Farm Package


## **Clients List**

ATAL Engineering Limited  
Barbican Construction Company Limited  
Baptist Lui Ming Choi Primary School  
Caritas – Ming Fai Camp  
City University of Hong Kong  
Civil Engineering and Development Department  
CLP Power Hong Kong Limited  
CM Wong & Associates Limited  
Drainage Services Department  
Electrical and Mechanical Services Department  
Environmental Protection Department  
Five District's Business Welfare Association School  
Good Counsel Catholic Primary School  
Green Council  
Green Earth Society  
Hong Kong Housing Society  
INTEGER Hong Kong Pavilion  
Jardine Engineering Corporation Limited  
Kaikwong International Builder Company Limited  
Kaiser Warm Hong Kong Limited  
Kelly Construction Company Limited  
Kum Shing Group  
Majestic Engineering Company Limited  
Maritime Services Training Institute  
Michael Chiang and Associates Limited  
MTR Hong Kong  
NWS Holding Company Limited  
NWS Engineering Group Limited  
Shangri-La Hotel & Resort  
Shatin Methodist Primary School  
St. Paul Convent's School (Secondary)  
St. Teresa's Hospital  
Vocational Training Council (IVE)  
Water Supplies Department







\*\*\*\*\* *Partially quoted and some others not in this listing.....*







## Job Reference

Remark: All the quoted cases below are “Design, Supply & Install” by RPT, and been copyrighted.

<u>Project</u>	<u>Year</u>	<u>Description</u>	
INTEGER Hong Kong Pavilion (Exhibition) in Tin Ma, Hong Kong.	2000	Solar Hot Water System (Solar Collector and Heat Pump): a) RPT as the exclusive Solar Contractor provide “design & install” for the exhibition; b) the Exhibition keep circulating in Asia, recently in Shanghai, Mainland China.	
City University of Hong Kong	2001	PV System for Lighting: a) the first RPT Academic PV Project in Hong Kong for Security Guard Station Lighting; b) PV Standalone System with Solar Battery backup.	
Deluxe House (newly built) in South Bay, Hong Kong Island.	2003	Solar Hot Water System (Solar Collector and Heat Pump): a) the First Domestic Solar Hot Water System in Hong Kong by Central Evaluated-tube solar system approved by WSD.	
CLP Sub-Stations in Kowloon and New Territories	2003	PV System for Telecom Equipment: a) within 2 months, RPT built 5 PV Power Backup System for a local Utility Provider’s Telecom System.	

Domestic Apartment Kowloon Tong, Koloan.	2004	Solar Hot Water System (Solar Heater): a) the First Pressure Type Solar Heater installed by RPT in Kowloon Tong.	
Caritas (Cheung Chau Ming Fai Camp)	2004	Solar Hot Water System (Solar Collector), Hyper System (PV plus Wind Turbine) for Staircase Lighting (Grid-connected): a) the First Hybrid electricity System designed and installed by b) also with Solar Hot Water System for the Campus.	
Good Counsel Catholic Primary School (SSP)	2004	PV System for Air Ventilation, Lighting, and LED Display, Solar Heater for Green House: a) the First RPT Educational Renewable Project by RPT for a local school in Kowloon.	
Green Council Project / Sau Mau Ping Catholic Primary School	2004	Wind Turbine System for Lighting, LED Clock and Teaching Aid: a) the First Quiet Wind Turbine provided to be worked which been installed by RPT	
Domestic House in Tai Po	2005	PV System for power supply (lighting and computer used) and Solar Hot Water System (Solar Heater)	
AIG Tower (Central, Hong Kong)	2005	Solar Hot Water System for Executive Rest Room: A) the First Commercial System built in Central under "design & supply" requirement.	

St. Paul Convent's School (Secondary)	2005	<p>PV System for Lighting and Pumping Used for Waterfall Curtain:  a) Educational PV Project in HK.</p>	
CLP Wan Po Road Sub-Station	2005	<p>PV System for Irrigation:  a) the First Rain Water Recycle and Irrigation System on a Power Sub-station.</p>	
Water Supplies Department, in Tai Mei Tuk	2005	<p>Hyper System (PV plus Wind Turbine) for Power Supply System:  a) Photovoltaic + Wind Turbine Hybrid System for Reservoir Status Remote Monitoring purpose.</p>	
Tai Hang Drive, CEDD, HKSAR	2006	<p>PV System for Irrigation:  a) a Government Project for pump the water from underground then irrigate to the slop for green planting purpose, all the power come from the PVs from RPT.</p>	
St. Teresa's Hospital	2006	<p>Solar Hot Water System for Laundry (Solar Collector):  a) the First Hospital in Hong Kong applying the evacuated-tube solar technology which design by RPT.</p>	
Water Supplies Department, in HK Island.	2006	<p>Hyper System (PV plus Wind Turbine) for Power Supply System:  a) the other Hybrid System installed for WSD.</p>	

Five District's Business Welfare Association School	2007	PV System for Aquarium equipment: a) another Education site which support by RPT Educational Program.	
Vocational Training Council / Maritime Services Training Institute	2007	Solar Hot Water System for Lavatory and Changing Room: a) the First Evacuated-tube Solar System for Academic under on-line monitoring functions.	
Environmental Protection Department / West Point Environmental Education Centre	2007	PV System for Lighting: a) another Governmental PV Project under partial grid-connected requirement.	
Drainage Services Department, HKSAR	2008	PV Marine Light/ LED Solar Street Light: a) the First Marine Light "design & install" by RPT with 7 days backup features.	
Hotel Shangri-La/ Boracay Resort & Spa, Philippines	2008	Consultancy Services for Solar Hot Water System: a) System Consultancy support by RPT on Solar Hot Water Systems; with b) System Monitoring and System Supervision program.	
Baptist Lui Ming Choi Primary School	2009	Design & build Renewable Energy System for Educational Purpose: a) Feasibility Study Services; with b) Proposal of Solar PV System; c) Total solution with Installation, Testing and Commissioning include Bicycle Kinetic System.	

Shatin Methodist Primary School	2009	Design & build / Renewable Energy System & Organic Farming for Educational Purpose: a) Feasibility Study Services; with b) Draft & Design & Propose Green Energy Related (Solar PV & Wind Power) Proposal for Applying ECF Funding; c) Installation, Commissioning & Handover the Project on time.	
HAECO / Hong Kong International Airport	2009	Solar Hot Water System for Canteen Usage: a) the First Airport Canteen in Hong Kong applying the advance evacuated-tube solar technology which design & supply by RPT.	
Deluxe Tai Po House, Tycoon Place	2010	Solar Hot Water System (Solar Collector + Lightning Arrestor System): a) the Domestic Split Type Solar Hot Water System; b) Install a lightning Arrestor System.	
Taoist Ching Chung Primary School	2010	Design & build Renewable Energy System for Educational Purpose: a) Start from Feasibility Study Services; with b) Draft & Design & Propose Green Energy Related (Solar PV & Wind Power) Proposal for Applying Governmental Funding; c) Installation, Commissioning & Handover the Project on time.	
Deluxe House in Repulse Bay, Belleview Garden, Hong Kong.	2011	Design, supply and install renewable energy system:  1) Solar Hot Water Supply System (Split-type Solar System); 2) Advance Photovoltaic Panel Lighting System; 3) Solar Garden Lights.	