

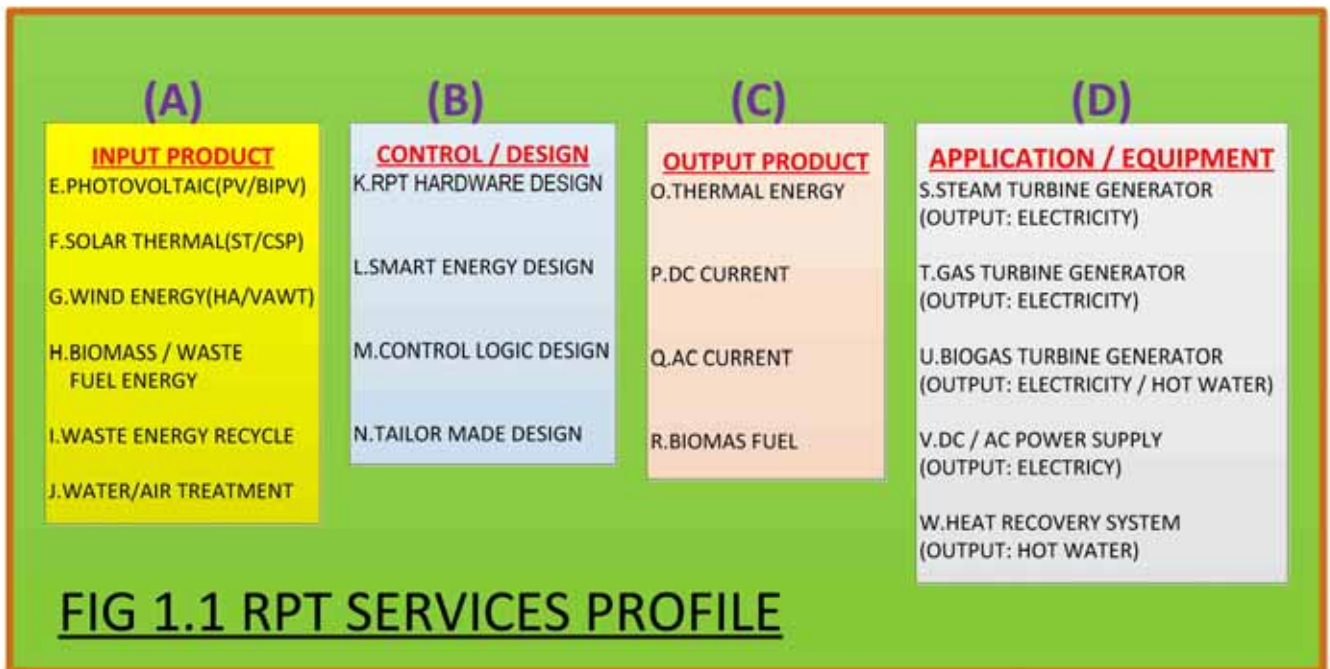


Company Overview

Resources & Protection Technology Limited (RPT) 源保科技有限公司 is in the well established and lucrative business of “Sustainable Energy 可持續發展能源 / ESM Energy Savings 節能省錢 System” over 15 years.

Ours business & technology schedule as below:

- A] Start from Year 2015: Provide Design, Supply & Install ESM Energy Saving Hot Water System Series (熱水銀行系列); such as ESM-51WA “5in1 Water Heater + Air Cooler” etc..
- B] Start from 1st December of the Year 2013: Authorized by Colmac Manufacturing INC. (USA) as their Sole Agent includes service & maintains full product line equipment;
- C] Start from Year 2013: Provide Design, Supply & Install for Renewable & Waste Recovery Energy System;
- D] Start from Year 2012: Provide Consultancy Services for BIOMASS & Waste Fuel Energy System;
- E] Start from Year 2009: Provide Design, Supply & Install for Solar Thermal Energy System;
- F] Start from Year 2008: Provide Consultancy Services for Smart Energy & Recovery Energy System;
- G] Start from Year 2003: Provide Design, Supply & Install for Heat Energy Recovery System;
- H] Start from Year 2001: Provide Design, Supply & Install for Solar Hot (Low-range) Water Supply System;
- I] Start from Year 2000: Provide Design, Supply & Install for Solar PV Power Supply System.



We are a regional company in Asia with leading positions in the Sustainable Energy business markets we serve. We are also the Asian premier supplier of Green Energy products, systems and services to the Energy Saving 節能省錢 market(s) and Sustainable Energy 可持續發展能源 market. RPT is a major green supplier of sophisticated services to a broad range of Hong Kong government agencies listed companies.

Facts & Contact Details

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Our Mission

We promote Energy Saving 節能省錢 System and Sustainable Energy 可持續發展能源 System to Client in order to reduce global carbon emission, climate change, energy bill savings, and profit earning - both on the society's environmental image & the real money !

RPTL act as a consultant who works with businesses to help them to meet our design and construction needs. We are working as a energy consulting company, and come into the field after obtaining several years of experience in the field. We are experts at whatever field of energy related consulting we are involved in. Energy related Engineering is a very broad field, and consultants are required to have a very clear understanding of everything that a potential client may need.

One area that RPTL may work in is related to mechanical engineering. A consultant would be able to design and help implement plans for a more efficient heating and cooling system in a large building. Consultants may also be hired to assist in improving indoor air quality, processing exhaust and ventilation fumes, and designing commercial kitchens.

We can also work with businesses to create solutions for electrical problems. This may mean designing better lighting for a portion of the building or the parking area. We will also work on regulating energy distribution, and planning for an emergency power generator. An energy / engineering consultant may also design a fire detection system or a security system complete with video surveillance equipment.

The plumbing system of a building is another section that a consultant might be hired to work on. Waste removal, ventilation, hot and cold water distribution, and water heaters are all a part of what an engineer may work on. The sprinkler system, used to control fires, may also be designed by RPTL.

The work of RPTL is varied. Because energy related engineering is such a wide field, there is almost no limit to the work a consultant can perform. We perform several different types of work, for many different types of businesses. We find solutions that meet or exceed the needs of our clients.

As an option, we supply and integrate product and solution(s) under specific Brand Name with the Original Equipment Manufacturer (OEM) professional products to the global market in name of below, i.e. we are acting as an OEM product(s) Manufacturer:

	<u>OEM Brand Name</u>	<u>Product</u>	<u>Start Year</u>
A]	RPHP	Heat Pump Water Heater Complete Series	2012
B]	RPT	Solar Collector, Solar Tank, Solar Controller	2008
C]	RPVHK	Photovoltaic Panel, Solar Battery	2008

We provide "Turn-key" energy related services, include "brand new project" or "alteration & addition project", RPT can help Client on adding and improving all the energy related system, and all our existing happy users (Client) will certainly happy to show their "RPT built" smart energy system under advance arrangement.

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.








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.	



<p>Caritas (Cheung Chau Ming Fai Camp)</p>	<p>2004</p>	<p>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.</p>	
<p>Green Council Project / Sau Mau Ping Catholic Primary School</p>	<p>2004</p>	<p>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</p>	
<p>AIG Tower (Central, Hong Kong)</p>	<p>2005</p>	<p>Solar Hot Water System for Executive Rest Room: A] the First Commercial System built in Central under "design & supply" requirement.</p>	
<p>CLP Wan Po Road Sub-Station</p>	<p>2005</p>	<p>PV System for Irrigation: a] the First Rain Water Recycle and Irrigation System on a Power Sub-station.</p>	
<p>Water Supplies Department, in Tai Mei Tuk</p>	<p>2005</p>	<p>Hyper System (PV plus Wind Turbine) for Power Supply System: a] Photovoltaic + Wind Turbine Hybrid System for Reservoir Status Remote Monitoring purpose.</p>	










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Tai Hang Drive, CEDD, HKSAR	2006	<p>PV System for Irrigation:</p> <p>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):</p> <p>a] the First Hospital in Hong Kong applying the evacuated-tube solar technology which design by RPT.</p>	
Vocational Training Council / Maritime Services Training Institute	2007	<p>Solar Hot Water System for Lavatory and Changing Room:</p> <p>a] the First Evacuated-tube Solar System for Academic under on-line monitoring functions.</p>	
Environmental Protection Department / West Point Environmental Education Centre	2007	<p>PV System for Lighting:</p> <p>a] another Governmental PV Project under partial grid-connected requirement.</p>	
Drainage Services Department, HKSAR	2008	<p>PV Marine Light/ LED Solar Street Light:</p> <p>a] the First Marine Light "design & install" by RPT with 7 days backup features.</p>	
Hotel Shangri-La/ Boracay Resort & Spa, Philippines	2008	<p>Consultancy Services for Solar Hot Water System:</p> <p>a] System Consultancy support by RPT on Solar Hot Water Systems; with</p> <p>b] System Monitoring and System Supervision program.</p>	 



<p>Baptist Lui Ming Choi Primary School</p>	<p>2009</p>	<p>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.</p>	
<p>Shatin Methodist Primary School</p>	<p>2009</p>	<p>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.</p>	
<p>HAECO / Hong Kong International Airport</p>	<p>2009</p>	<p>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.</p>	
<p>Taoist Ching Chung Primary School</p>	<p>2010</p>	<p>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.</p>	
<p>United Christian College (Kowloon East) Kwun Tong, Kowloon.</p>	<p>2011</p>	<p>Design, supply and install renewable energy system by RPT: 1) Solar Photovoltaic System (comprises Photovoltaic Panels, Solar Controller, Solar Charger, Power Cabinet, Solar Batteries, Power Panel, Auto-changeover, Cabling, etc.) 2) Wind Turbine System (comprises Wind Generator, Emergency Switch, 3PAC to DC Rectifier, Breaker, Switch, Cabling, Batteries etc.) 3) Gray Water Recycle Irrigation System (comprises 2 water storage tanks, a water pump and the associated water pipes and irrigation pipes.)</p>	 <p>Project Budget: about half a million HK Dollar.</p>



<p>HKUST, Sai Kung. Hong Kong.</p>	<p>2013</p>	<p>Design, supply and install water-to-water Heat Pump waste energy Recovery System from the existing Chiller System :</p> <p>1] Recycle Chiller waste heat from “condenser water source; 2] Reuse the waste heat to swimming pool & hot water showering; 3] Control, Plumbing, Civil and all the related design by RPT; 4] C.O.P. = 9.0 with fast pay-back; 5] Expected pay-back within a year against the Heating and Cooling circuit savings.</p>	  <p>Project Budget: about four million HK Dollar.</p>
<p>Hong Kong Red Cross John F. Kennedy Centre</p>	<p>2013</p>	<p>Design, supply and install Solar Hot Water (Medical Pool) System:</p> <p>1] Solar Hot Water Supply System (Commercialized & Centralized Evacuated Heat Pipe Type Solar Hot Water System)</p>	 <p>Project Budget: about half million HK Dollar.</p>
<p>YMCA (Tung Chung Organic Farm)</p>	<p>2014</p>	<p>Design, supply and install renewable energy systems:</p> <p>1] Solar Hot Water System; 2] Photovoltaic PV System; 3] Hybrid Wind Turbine + PV Light Pole; 4] PV Powered Irrigation System.</p>	 <p>Project Budget: about a million HK Dollar.</p>
<p>Bed & Breakfast, Tai O (Lantau Island)</p>	<p>2014</p>	<p>Stainless Steel Air Source ESM System with 500L #304 Tank: a] Heat Output Power 11.3kWh, b] Rated Input Power AC3P380V 2.5kW b] C.O.P. 4.5 (min.)</p>	
<p>Deluxe House, Red Hill (Tai Tam HK Island)</p>	<p>2015</p>	<p>Stainless Steel Air Source ESM System with 500L #304 Tank: a] Heat Output Power 8.0kWh, b] Rated Input Power AC 220V 2.0kW b] C.O.P. 4.5 (min.)</p>	