



CLP
More than light

NEW
Energy Efficiency
Promotion Programme



CLP 中電
19th Nov 2008

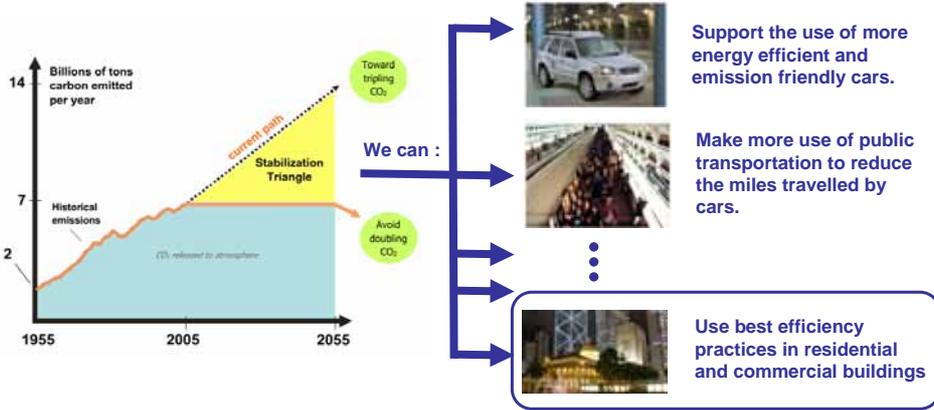
CLP 中電

New Programme for Promoting Energy Efficiency

Promote Energy Efficiency & Environmental Performance in addition to providing adequate & reliable supply of electricity ...

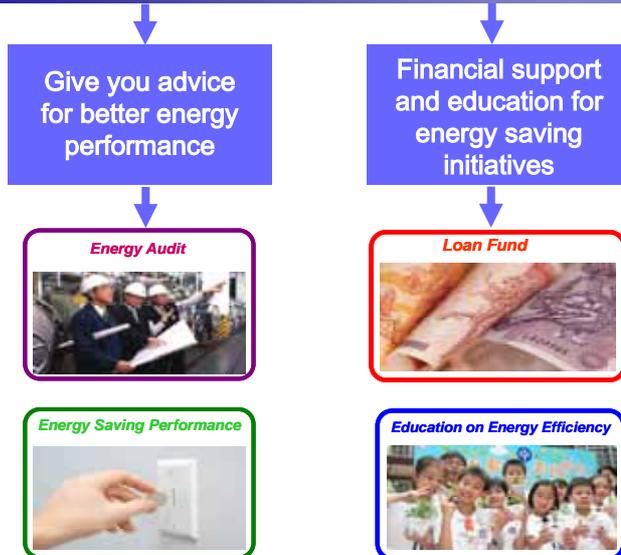
P.2

*It is everybody's responsibility to reduce carbon emissions
but no one strategy is sufficient to do all the work.*



CLP can help make your business more energy efficient.

CLP Power – Always Your Energy Partner



Energy Audit

Systematic approach to assess the energy efficiency performance of system / equipment



Purpose

Help our commercial and industrial customers identify energy savings opportunities and pinpoint areas in needs of improvement

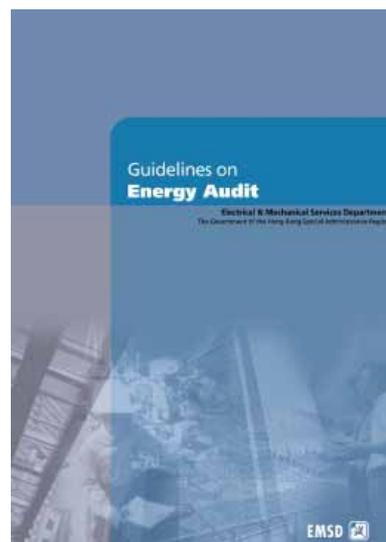
Scope

- Analysis and assessment of system / equipment's energy performance
- Identification of Energy Management Opportunities (EMOs)
- Potential savings estimates
- Recommendations for energy savings solutions

P.5

Energy Audit

- All audits are conducted in compliance with EMSD's "Guidelines on Energy Audit"
- Resources intensive as an audit typically requires half-day site work by 2 CLP Engineers
- Priorities will be given to cases with higher energy saving potentials
- CLP will double the efforts in 2009 to meet increasing customer demand on this service



P.6

Energy Saving Performance

Energy saving attributable to the EMOs identified under the EA programme and implemented by the customers



Purpose

Help our customers study energy saving for the energy efficient equipment installed at their premises

Scope

- Provide technical advice on assessment of energy savings
- Independent assessment of energy saving on a need basis

P.7

Typical Energy Saving Initiatives (1/2)

System	Energy Saving Equipment
MVAC  Water Cooled Chiller	Water cooled Chiller (Vs Air cooled chiller)
	Variable Speed Drive
	Automatic tube cleaning system
	Demand Control Ventilation
	Anti-UV film
 Automatic Tube Cleaning	Housekeeping such as repair AHU or ductwork cool air leakage
	Re-set chilled water operating temperature to 8°C outside summer time
	Appropriate air / water balancing system
Lift & Escalator 	Variable voltage variable frequency lift controller (vs AC motor w. variable voltage controller)
	Auto on/off control / Auto two-speed control escalators
	Energy optimizer for lift / escalator applications

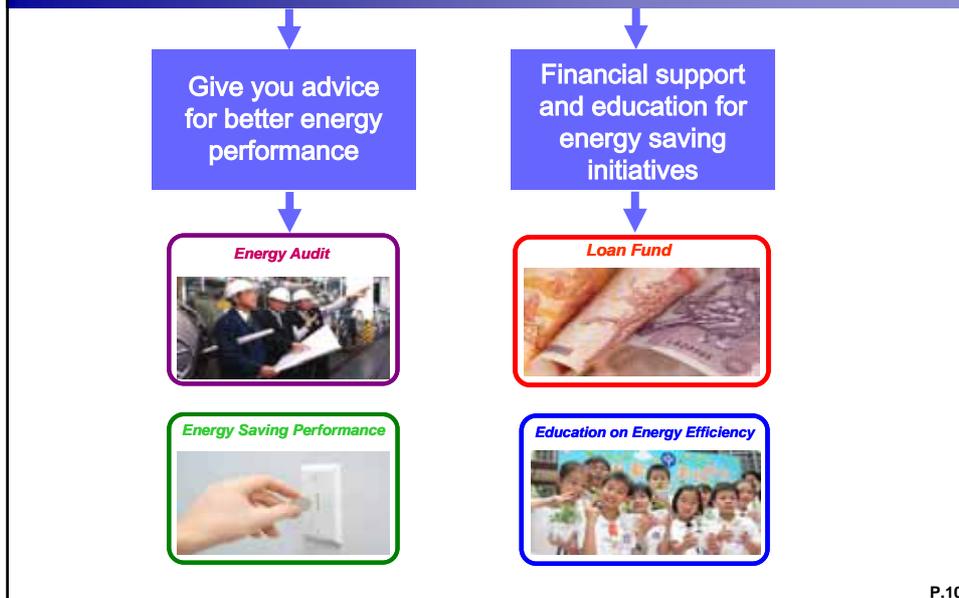
P.8

Typical Energy Saving Initiatives (2/2)

System	Energy Saving Equipment
Lighting  T5 + Electronic Ballast	Compact fluorescent lamp (vs incandescent lamp)
	Electronic ballast (vs electromagnetic ballast)
	T8 / T5 (vs T10 / T12)
	LED exit sign (vs 14W T5 / 18W T8)
	35W EE halogen lamp (vs 50W conventional halogen lamp)
Water Heating  High Temp Heat Pump	Air / Water source heat pump / High efficient heat pump / high temperature heat pump (vs electric water boiler)

P.9

CLP Power – Always Your Energy Partner



P.10

Loan Fund

(for FIVE-year period⁽¹⁾)

For non-Government commercial and industrial customers to implement energy saving initiatives identified in the Energy Audits



Five-year Budget

HK\$125M

Yearly Budget

HK\$25M + Roll-over amount of previous years

Interest

FREE

Max Loan per customer account

**HK\$3m p.a.
HK\$6m over the period**

Repayment

Monthly installments over a period up to 5 years

Remark:

(1) Five-year period, 2009 to 2013

P.11

Loan Fund Application Process



- ✓ CLP conduct Energy Audit
- ✓ CLP help customers identify EMOs and determine potential savings based on engineering design
- ✓ Customers apply for the Loan Fund. Applicants must apply for the loan before placing any system/equipment purchase order. The maximum load amount is 80% of installation and equipment costs.
- ✓ CLP approve applications. Applicants with high energy savings potential projects will be given loan approval priority
- ✓ Applicant implement the project. The loan will only be released as one lump sum to the loan recipient after satisfactory post-installation and commissioning verification.
- ✓ Applicant repay the loan as scheduled.



P.12

Education On Energy Efficiency



- CLP is keen on educating the public on energy efficiency
- Your staff and families could join and be benefited from the many energy efficiency education campaigns and programs supported by us.

An Education Fund of \$5M per annum for the general public for initiatives including:

- Energy innovation fund
- Powerwise programme for schools and communities
- Development of energy efficiency education materials
- Energy efficiency education for the general public
- Other energy efficiency education

P.13

Re-designed Energy Efficiency Exhibition Centre



- i** Our Energy Efficiency Exhibition Center will have a new look in Q2 2009
- i** A dedicated centre for displaying and demonstrating the latest and most comprehensive range of commercial and industrial energy efficiency technologies
- i** **One-stop access to energy efficiency information centre**



Thank You!

CLP Power

Always your Energy Partner

Should you need further information about the aforesaid products, or want to discuss your project requirements,

please feel free to contact



中華電力
CLP Power

Ir. Anthony Lo
New Product Development Manager

7/F Shamshuiipo Centre
215 Fuk Wa Street, Kowloon, Hong Kong
Tel (852) 2678 7358
Fax (852) 2678 7350
Email: acwlo@clp.com.hk
Website www.clpgroup.com