

Energy Audit

Cutting Energy Costs

by John Herbert



Energy Audit
Cutting Energy Costs
by John Herbert

Cutting Energy Costs

Ordering an energy audit should be your first step, it will identify:

- energy waste
- work to restore lost energy efficiency
- cut your operating costs

The following slides show a selection of our success stories

www.kelcroft.com.hk

© Copyright All Rights Reserved 2019

#energyaudit
#energyefficiency



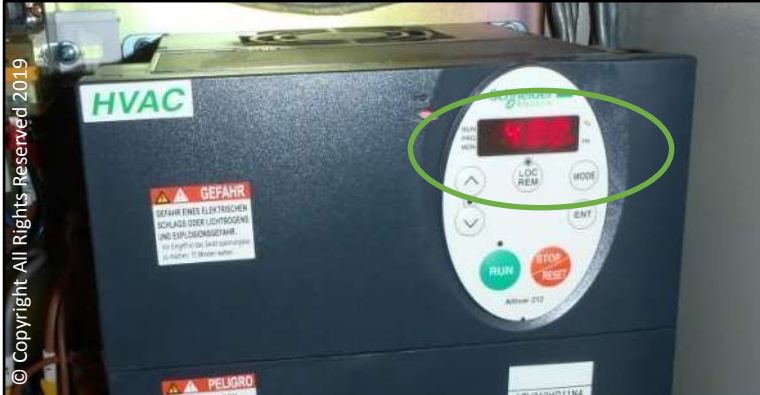
Supply air duct access panel open. Located near the AHU (highest duct pressure) huge leak into non-conditioned plant room, air flow into the building is reduced. wasting energy.

www.kelcroft.com.hk

© Copyright All Rights Reserved 2019

Supply air duct access panel open. Located near the AHU (highest duct pressure) huge leak into non-conditioned plant room, air flow into the building is reduced. wasting energy.

#hongkong
#energyaudit
#leakage
#airconditioning
#carbonaudit



© Copyright All Rights Reserved 2019

Demand Controlled Ventilation Air Conditioning AHU with Variable Speed Drive, CO₂ sensor in wrong location, no record of commissioning, energy wasted

www.kelcroft.com.hk

© Copyright All Rights Reserved 2019

Demand Controlled Ventilation Air Conditioning AHU with Variable Speed Drive, CO₂ sensor in wrong location, no record of commissioning, energy wasted

- #hongkong
- #energyaudit
- #VSD
- #airconditioning
- #carbonaudit
- #no-commissioning



Chilled water pipe header a high level in the plant room traps air (no air vent fitted). Chilled water pumps also found air locked. Air locking restricts water circulation wasting energy.

Chilled water pipe header a high level in the plant room traps air (no air vent) Chilled water pumps also air locked. Air locking restricts water circulation wasting energy.

#hongkong
#energyaudit
#defects
#carbonaudit
#airconditioning
#carbon

© Copyright All Rights Reserved 2019



Poorly positioned external lighting, operating 24hrs per day wasting energy.

www.kelcroft.com.hk

© Copyright All Rights Reserved 2019

Poorly positioned external lighting, operating 24hrs per day, wasting energy.

#hongkong
#energyaudit
#lighting
#carbonaudit



Exhaust fan intake side flexible connection (high pressure location) failed draws outside air, lowering extracted air volume, and wasting energy.

www.kelcroft.com.hk

© Copyright All Rights Reserved 2019

Exhaust fan intake side flexible connection (high pressure location) failed draws outside air, lowering extracted air volume, and wasting energy.

#hongkong
#energyaudit
#ventilation
#carbonaudit
#lifesafety



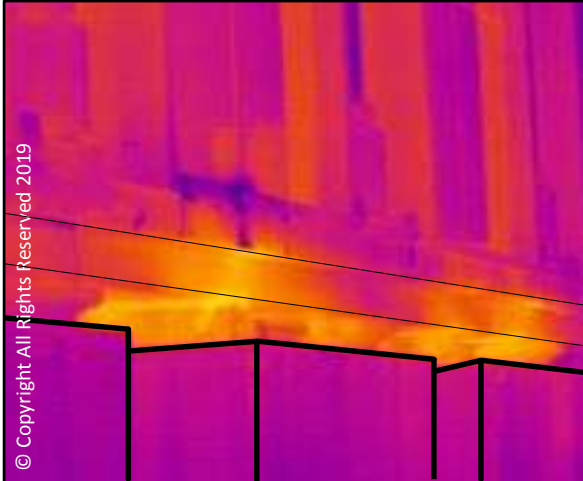
Steam condensate leak flashing to steam, wasting energy and water

www.kelcroft.com.hk

© Copyright All Rights Reserved 2019

Steam condensate trap leak flashing to steam, wasting energy and water

#hongkong
#energyaudit
#condensate
#steam
#carbonaudit



Infra red image, orange colour indicates slab heated to approx. 40 degC, by hot air discharging from air conditioning units below, and heating up the building, wasting energy

www.kelcroft.com.hk

© Copyright All Rights Reserved 2019

Infra red image, orange colour indicates slab heated to approx. 40 degC, by hot air discharging from air conditioning units below, and heating up the building, wasting energy

#hongkong
#energyaudit
#airconditioning
#thermography
#carbonaudit

cutting costs need
not cost the earth

Thank You

www.kelcroft.com.hk

© Copyright All Rights Reserved 2019

Energy audit success stories in Asia

#energy audit

#energyefficiency

#costcutting