



Green Planet



**Ultimate goals of  
HVAC Energy Efficiency**

[www.wengsong.com.my](http://www.wengsong.com.my)

# INTELLIGENT DEMAND CONTROL DRIVES FOR HVAC SYSTEM

## ► DCD Demand Control Drives

Demand Control Drives (DCD) marketed under the brand name Green Planet are leading the way in helping commercial buildings reduce energy consumption. DCDs allow highly efficient energy demand control of HVAC equipment in a wide range of split and centralized air conditioner. DCD specialized software and electronic control system can significantly reduce your energy bills through our range of innovative products.

DCD effectively reduce operating costs thanks to their extremely efficient energy management ability. This means you can achieve up to 25% to 50% savings (Depending on the equipment) while still maintaining a comfortable room climate.

Our current customers are already enjoying energy savings of up to 25 % to 50% from its air conditioning system thanks to an installation of Demand Control Drives

## WE HAVE SOLUTIONS FOR

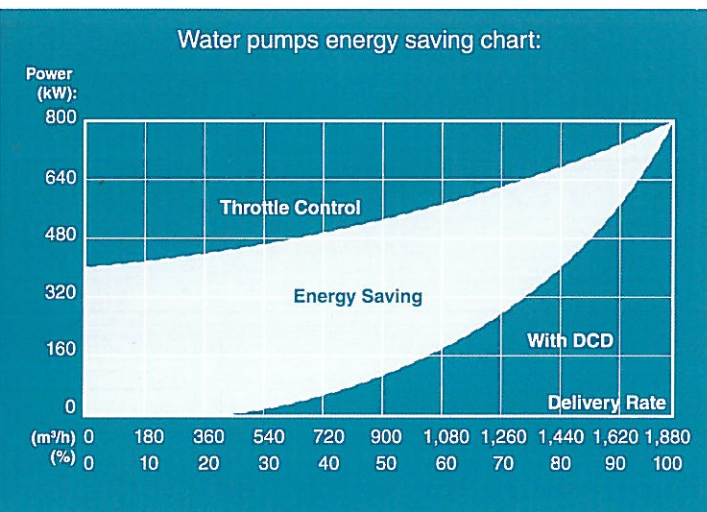
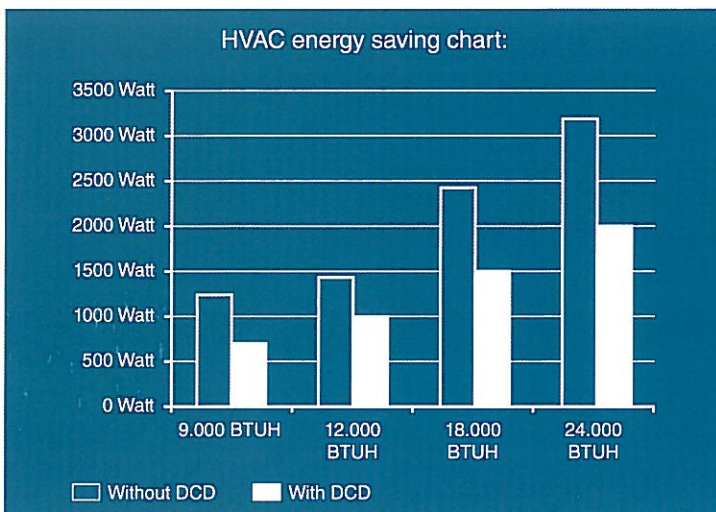
- ✓ Split unit air conditioners
- ✓ Air-cooled package system
- ✓ Water cooled package system
- ✓ Cooling towers
- ✓ Air handling units
- ✓ Car park ventilation system
- ✓ Commercial kitchen ventilation system
- ✓ Building escalators

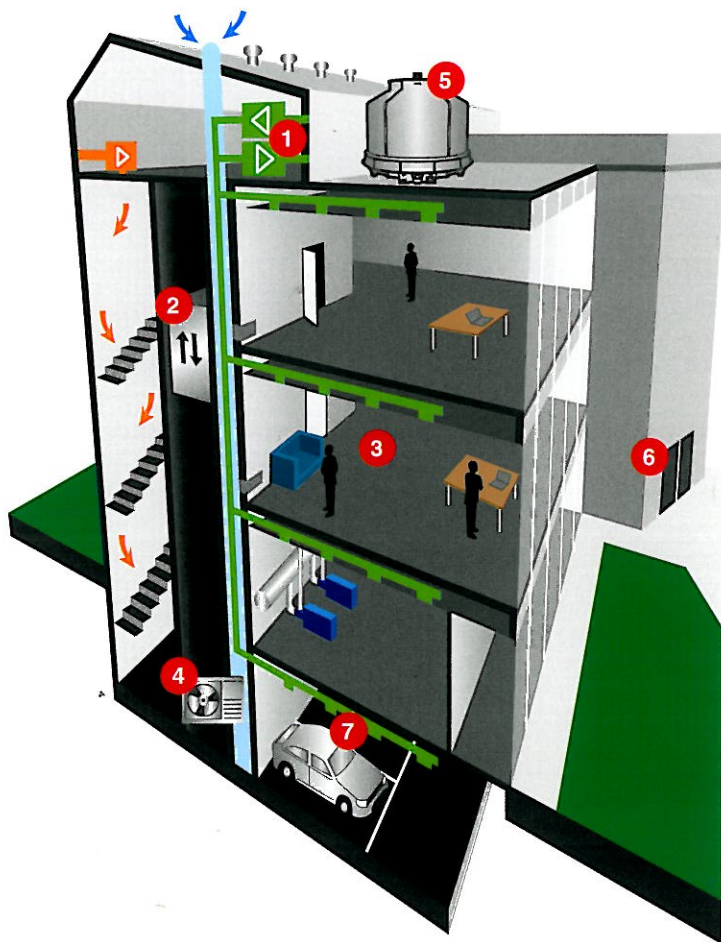
## POTENTIAL APPLICATIONS

- Airports
- Hospitals
- Hotels
- Shopping centres
- Offices
- Conference halls
- Kitchens
- Schools
- Data Centres



## ENERGY SAVING CHART





## DCD for

- 1 HVAC water pumps have a potential to save **20%** in running cost
- 2 Elevators have a potential to save as much as **50%** in running cost
- 3 AHU have a potential to save **50%** in running cost
- 4 Split unit air conditioners have a potential to save as much as **20%** in running cost
- 5 Cooling towers have the potential to save on the average **30%** in energy bills
- 6 Kitchen exhausts have the potential to save **25%** in running cost
- 7 Car park ventilation system have a potential to save **25%** in running cost

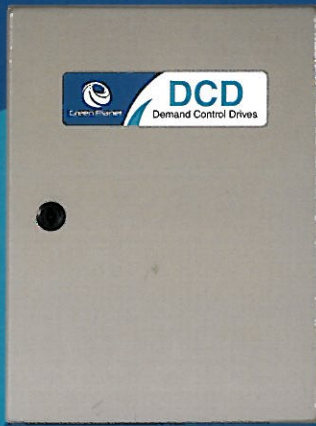
If your building uses centralised air conditioning system, you could be wasting money unnecessarily through inefficient pumps, cooling towers and air handling unit control. Most systems are either oversized for their application, running needlessly at constant speed, or being throttled or damped to meet variations in output for your chillers. The net result is around 25% of energy consumption wasted. And with air conditioners accounting for an estimated 75% of energy used in buildings today, that is a lot of potential you can tap into and add to your profit margins.

### PRE AND POST REPORT OF ELECTRICITY CONSUMPTION SPLIT TYPE HVAC SYSTEM

Pre Installation Date	Daily Kwh Consumed	Daily Running Cost (RM)	Post Installation Date	Daily Kwh Consumed	Daily Running Cost (RM)	Kwh Saved	Daily RM Cost Savings	Daily % Savings
01 Mar 2016	123.02	62.62	19 Mar 2016	83.40	42.45	39.62	20.17	32.21
02 Mar 2016	124.53	63.38	20 Mar 2016	89.03	45.32	35.50	18.06	28.51
03 Mar 2016	123.42	62.82	21 Mar 2016	82.88	42.19	40.54	20.63	32.85
04 Mar 2016	130.63	66.49	22 Mar 2016	88.19	44.89	42.44	21.60	32.49
05 Mar 2016	141.41	71.98	23 Mar 2016	84.63	43.08	56.78	28.90	40.15
06 Mar 2016	122.39	62.29	24 Mar 2016	82.53	42.01	39.86	20.28	32.57
07 Mar 2016	123.66	62.95	25 Mar 2016	85.95	43.75	37.71	19.20	30.49
08 Mar 2016	120.23	61.20	27 Mar 2016	84.04	42.78	36.19	18.42	30.10
09 Mar 2016	104.95	53.42	28 Mar 2016	85.89	43.72	19.06	9.70	18.16
Total 9 Days	1114.24	567.15		766.54	390.19	347.70	176.96	
Average Daily	123.80	63.02		85.17	43.35	38.63	19.66	31.21

**Yearly Kwh Saved: 14,099.95 Kwh**  
**Yearly Carbon emission Saved: 7642,17Kg**  
**Room temperature Pre.Inst.: 25.6 °C**  
**Room temperature Post Inst.: 25.9 °C**

**Average rooftop ambient temperatures 2pm 37.1**  
**Date Prepared: April 2 2016**  
**Conversion Factor: 0.542Kg per Kwh**



# DCD

## Demand Control Drives

### ADVANTAGES

- Saving energy means lower operating cost
- Reduce green house gases
- DCD : a perfect solution to the needs of building owners looking to reduce air conditioners energy consumption
- Reduce Maximum Demand
- No modification to the original system
- Fast Pay back period
- Reduce Mechanical Maintenance
- Suitable for all types of air conditioners
- Affordable Investment
- See Result Before You Invest in complete system



永顺有限公司

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