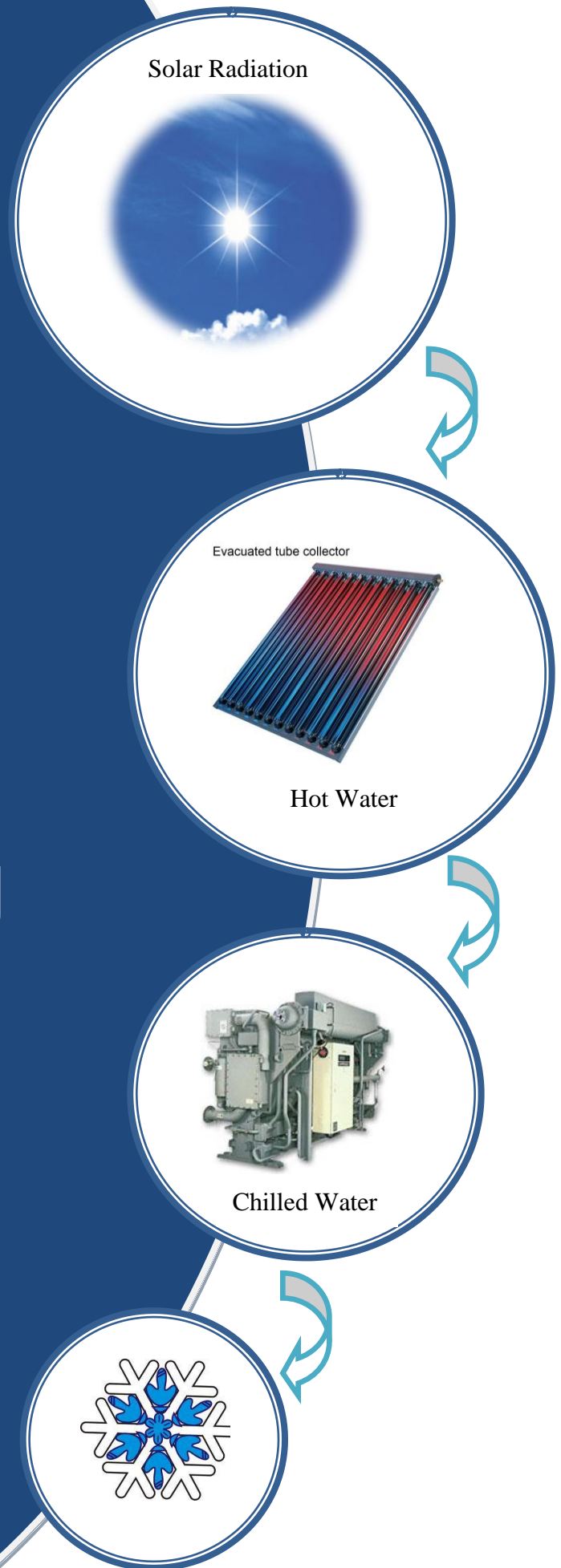


SDC

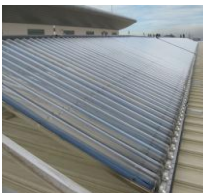
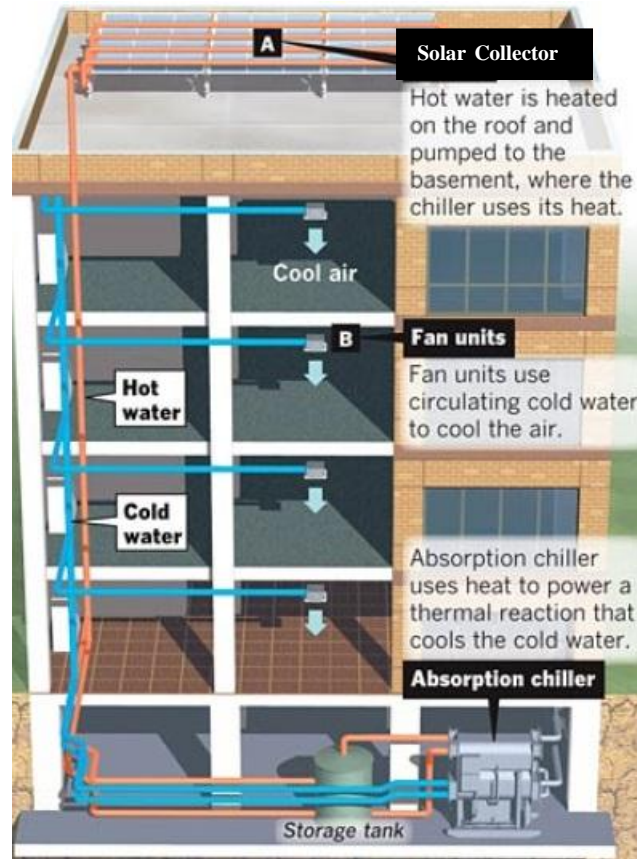
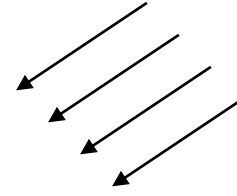
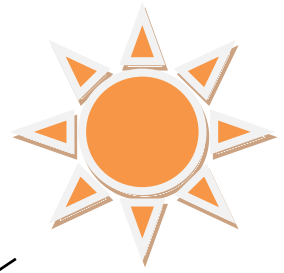
Solar District Cooling

www.sdc.my

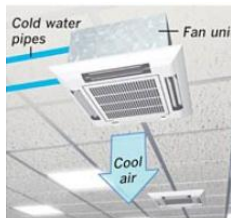
Solar Air-Conditioning System



How it Works???



A. Solar Collectors harvest the Sun's energy to heat water. Hot Water is used as the fuel for the chiller.



B. Fan Coil Units blow air over pipes containing chilled water cooling the building.

Main Components of Solar Air-Conditioning System



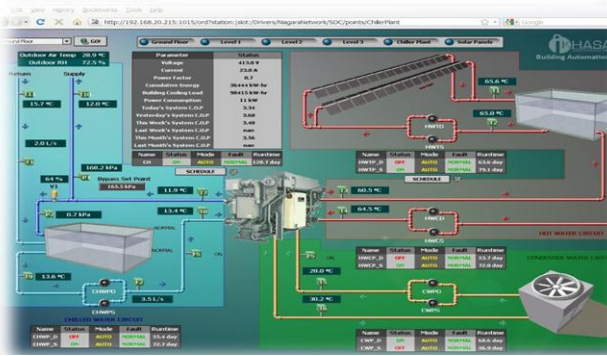
SDC Absorption chiller



SDC Solar Collectors



Pumps



BAS



BAS



Hot Water Tank

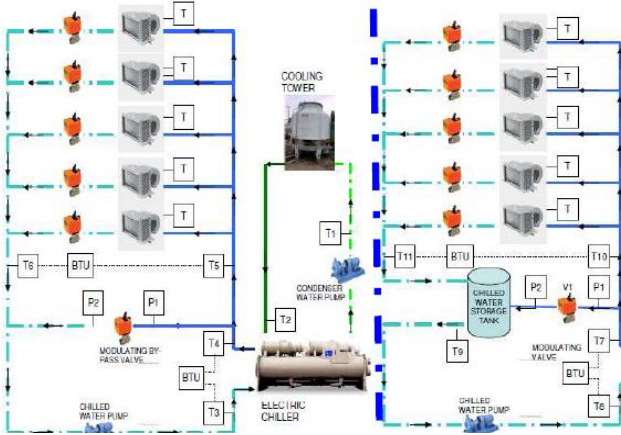


Cooling Tower

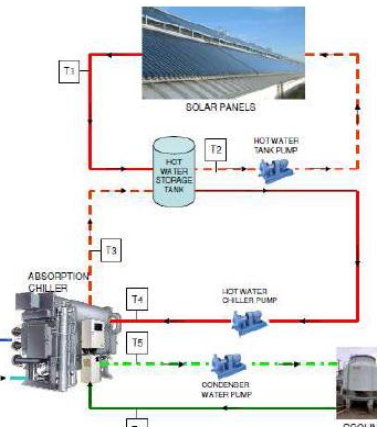
Conventional Air-Conditioning System VS

Solar Air-Conditioning System

Conventional Air-Conditioning System



Solar Air-Conditioning System



Conventional Air-Conditioning System		
Description	Power Consumption, kW / Remark	
Area to served: approx. 6,000ft ²		
Cooling capacity required: 30RT		
Equipment:		
a. Electric Chiller:	24.0	Reciprocating, 30RT; Based on 0.8kW/RT
b. CHW Pump:	2.7	72usgpm@ 82ft; Eff. = 55%
c. CDW Pump:	2.2	90usgpm@ 65.6ft; Eff. = 67%
d. Cooling Tower:	0.75	40HRT
Total Energy Consume	29.65 kW	

Solar Air-Conditioning System		
Description	Power Consumption, kW / Remark	
Area to served: approx. 6,000ft ²		
Cooling capacity required: 30RT		
Equipment:		
a. Absorption Chiller:	1.3	Absorption, 30RT; For abs. & ref. pump only
b. CHW Pump:	3.2	84usgpm@ 82ft; Eff. = 55%
c. CDW Pump:	4.0	162usgpm@ 65.6ft; Eff. = 67%
d. Cooling Tower:	1.1	70HRT
e. HW Pump:	2.1	114usgpm@ 49.2ft; Eff. = 68%
f. Solar HW Pump:	1.5	42usgpm@ 98.4ft; Eff. = 70%
Total Energy Consume	13.20 kW	

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