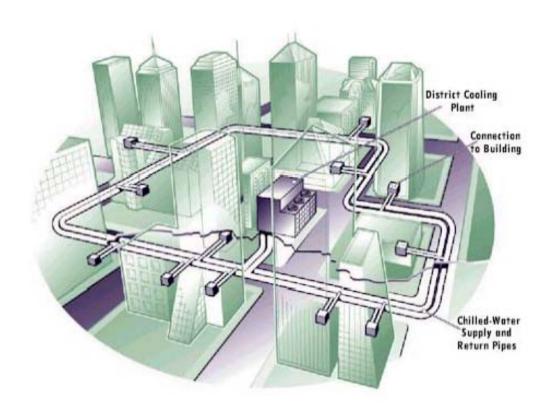


## **District Cooling system**



# **District Cooling system**



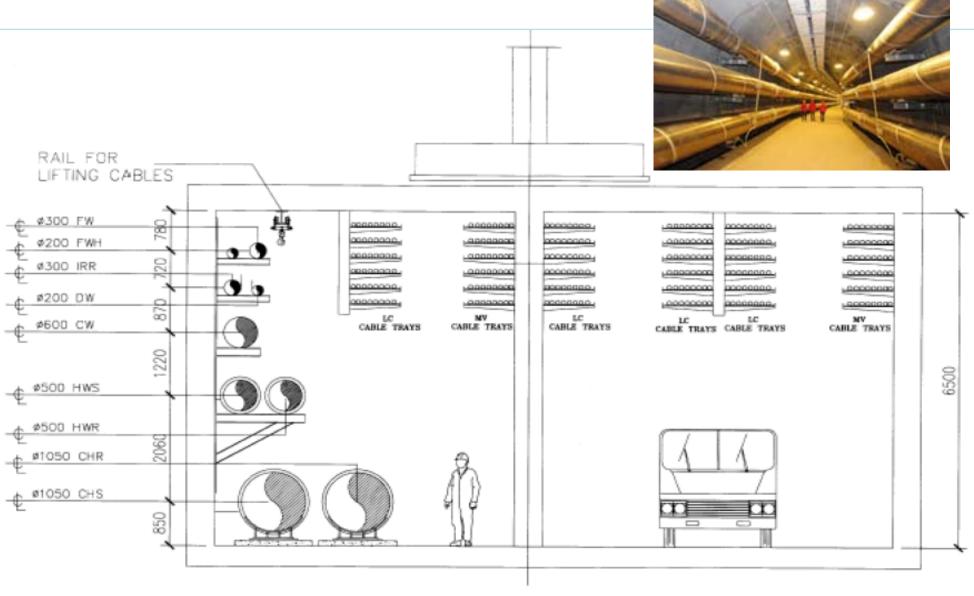


(DCS central chiller plant control room)

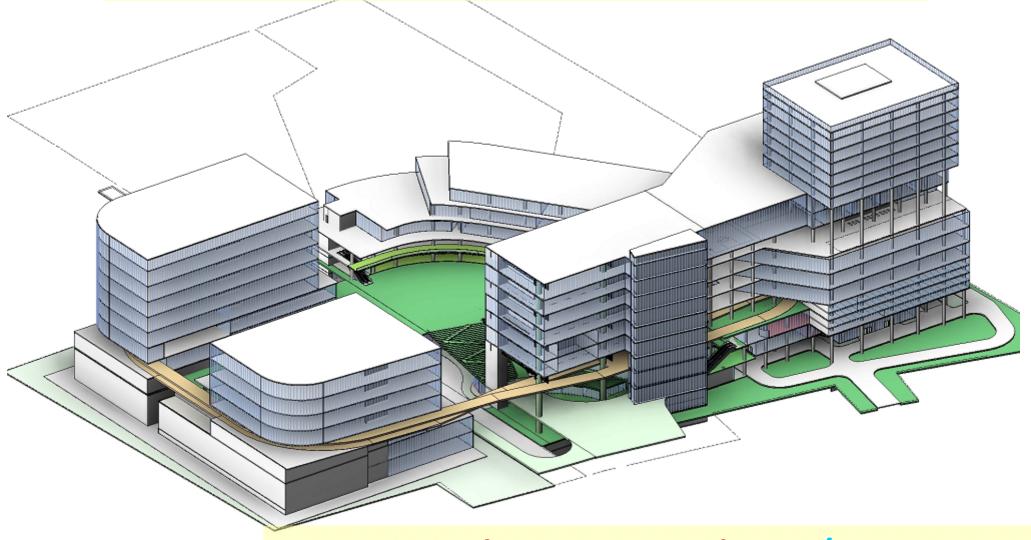


Chiller room inside the largest district cooling plan in the world, at The Pearl-Qatar. (Image courtesy Qatar Cool)

#### **DCP Transmission line**



#### **Conventional System or District Cooling System?**



**Limited time Operated or 24/7 Day** 

### **Benefits of District Cooling system**

#### **For Campus**

- High Efficiency Plant ( 0.65 0.85 kW/Tr)
- 24/7 day High Grade Bld. & hi-eff energy usage
- No Additional Split-type unit in Campus
- Minimize Capital Investment
- Minimize Area of Utility Plant
- Ready to use
- High Stability & Reliability
- Central Maintenance
- Environmentally Friendly

( Heat - Noise - Pollution - Green House Effect - Refrigerant Usage )

Minimize the Growth of Power Plant









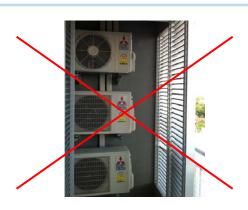


### **Benefits of District Cooling system**

#### For Condominium

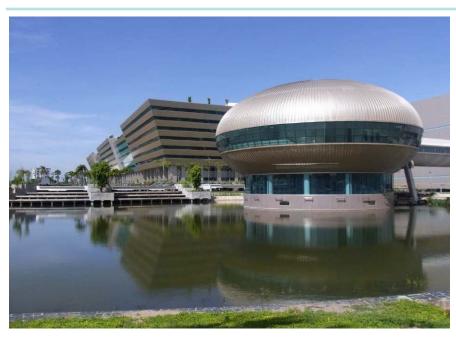
- No Condensing unit in Condo unit
- Reduce Transformer Capacity
- Reduce EE main feeder & Distribution
- Reduce MDB DB PB
- No noise & heat rejection from CDU
- Low Service & Maintenance
- Free waste heat to washing machine & clothes dryer







## **Highlighted District Cooling Projects in Thailand**



**Status : Completed, in operation** 

**Project**: Government Complex –

Chaengwattanna, Bangkok

**Function**: Multi Office Buildings, Convention Center

**Area** : GFA 975,200 sqm

**Cooling Capacity** : 12,000 RT

**Status: Completed, in operation** 

**Project:** Siriraj to Medical Excellence

in South East Asis (SIME)

**Function**: Multi Buildings Hospital Campus

**Area** : GFA 238,000 sqm

**Cooling Capacity** : 6,000 RT



## **Highlighted District Cooling Projects in Thailand**



**Status: Design Development / Construction** 

**Project** : THE FORESTIAS

**Function** : Mixed Use Complex

(Hotel,Office,Condo,Hospital,Retail,Residential)

**Area** : GFA 750,000 sqm

**Cooling Capacity** : 10,000 RT

**Status: Design Development / Construction** 

**Project** : ONE BANGKOK

**Function** : Mixed Use Complex

(Hotel, Office, Condo, Hospital, Retail)

**Area** : GFA 1,830,000 sqm

Cooling Capacity : 38,000 RT



## **Highlighted District Cooling Projects in Thailand**



**Status** : Construction

**Project**: The New Tobacco Factory

**Function** : Multi Factory Buildings

**Area** : GFA 276,400 sqm

**Cooling Capacity** : 6,000 RT

**Status: Design Development** 

**Project**: The Super Tower

**Function** : Mixed Use Complex

**Area** : GFA 320,000 sqm

**Cooling Capacity** : 10,000 RT



