



# ICEE CONTROL SYSTEMS

We Make Your Chillers Intelligent



**2017 GCIP MALAYSIA NATIONAL  
FINALIST & GLOBAL CATEGORY WINNER  
(ENERGY EFFICIENCY)**

**2016 GLOBAL GCIP FOR SMES  
IN MALAYSIA (2ND RUNNER-UP)**

# iCEE CHILLER-ENERGY CONSERVATION TECHNOLOGY

Our Intelligent Chiller-Energy Efficiency system (iCEE) is a smart system that is powered by an **algorithm** that enables chillers to maximise efficiency, saving **12 to 20%** of a chiller plant's total energy consumption.

The algorithm analyses data from all the sensors installed at strategic locations in a building to determine the optimum performance needed for

chiller efficiency, without compromising **occupant thermal comfort**. In fact, our system actually ensures it.

Unlike other energy saving devices and services, we provide a direct interface to the chiller using the manufacturer's interface card, thereafter **automatically** monitoring, scheduling and optimising chiller operational efficiency.



## SAVE ENERGY

up to 20%



## MAXIMISE THERMAL COMFORT

by maintaining the ideal temperature



## EXTEND CHILLER LIFE

and reduce maintenance cost



## ZERO CAPEX INVESTMENT

with our 'pay as you save' models

# BENEFITS OF OUR SYSTEM

## ENERGY BILL SAVINGS

Experience reduced energy bills between 12 - 20% of your current chillers' energy consumption.

## PROLONG ASSET LIFE

Our system promotes soft start and stops, which prolongs your chillers' life.

## MAINTENANCE MANAGEMENT

Our Computerised Maintenance Management System (CMMS) provides real-time information on the current condition of your chillers and its associated equipments such as pumps, cooling tower, AHU and valves.

## OPTIMUM COOLING COMFORT

Our system maintains the optimum temperature in a building at all times, ensuring that your occupants do not feel too cold or warm throughout the day.

## REDUCED MANPOWER REQUIREMENT

Our iCEE System is fully automated and thus reduces workload on day-to-day routine maintenance. The system requires little or no human supervision.

## PREDICTIVE MANAGEMENT

Chiller performance is monitored and analysed at all times. Poor chiller performance is flagged as a possible problem for predictive maintenance.

## ENVIRONMENTAL BENEFITS

By enabling your chillers to run at optimal efficiency at all times, we can minimise the greenhouse effect. This also leads to a reduction in noise and emission.

## COMPLEMENTING BAS / BMS

Instead of competing or replacing Building Automation Systems (BAS) or Building Management Systems (BMS), we complement them to further improve energy saving initiatives.

## OUR SYSTEM IS...

### Suitable for:

**Centralised air conditioning facilities**  
Malls, office buildings, hospitals, airports, industrial facilities and many others.

### Compatible with:

**Air-cooled and water-cooled chillers**  
Reciprocating, centrifugal, screw and scroll compressors.

# 3 SIMPLE STEPS TO BEGIN SAVING

1

## PERFORMING AN AUDIT

The first step is getting a thermal profile of your building / facility.

2

## INTEGRATING OUR ICEE CONTROL SYSTEM

Next, we will install our iCEE system that is integrated with sensors and digital power meters to obtain a baseline benchmark. With it, we will then configure the system's Savings Mode to optimise your chiller operations.

3

## MONITOR SAVINGS

With dedicated digital power meters monitoring power consumptions and trends, and by using certified measurements and verification methodologies for savings computation, we can give you a precise calculation of the savings you can enjoy.



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