

# IHT FOR SCHOOLS

## What is IHT?

Interseasonal Heat Transfer is a patented technology that is a complementary fusion of Ground Source Heat Pumps and solar thermal collectors. IHT provides a method of storing heat for long periods – between seasons.

School surfaces like playgrounds, car parks and MUGAs make ideal solar collectors.

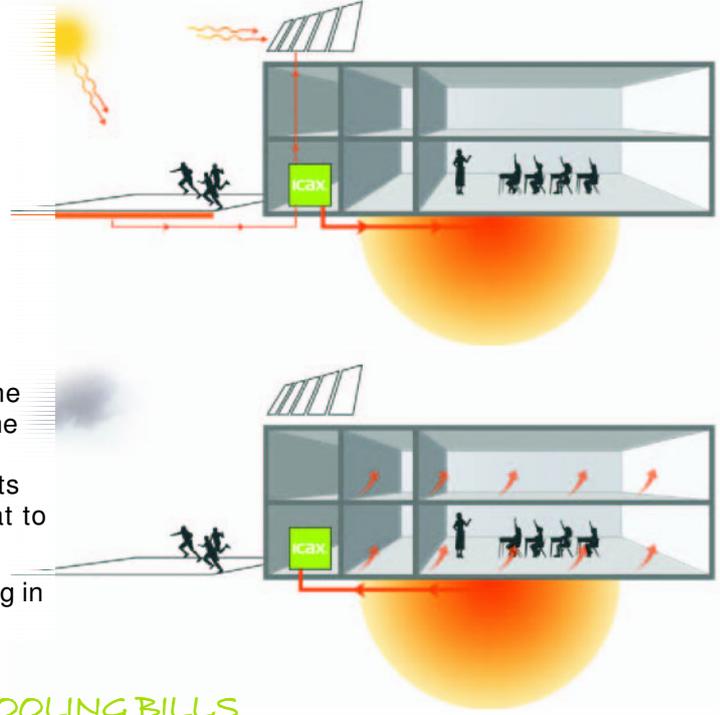
## How does IHT work?

A pipe array laid in the playground collects solar energy throughout the spring, summer and autumn. Any excess heat from Solar panels can also be stored.

This heat is deposited under the building in a ThermalBank.

In winter heat is withdrawn from the ThermalBank and transferred into the building using a GSHP. Underfloor heating, TermoDeck or fan coil units are efficient ways of supplying heat to the school.

IHT also provides critical period cooling in the exam season.



\* REDUCE HEATING AND COOLING BILLS

\* GENERATE ON SITE RENEWABLE ENERGY

\* GENERATE CLEAN ENERGY CASBACK

\* STORE SUMMER HOLIDAY HEAT FOR TERM TIME USE

## Why use IHT?

Ground Source Heat Pumps have a great potential for reducing carbon emissions but can suffer from poor performance if the ground temperature becomes too low. An IHT system actively raises the ground temperature in advance of the heating season and doubles the efficiency of the heat pump.

IHT counts towards on site renewable energy targets at a lower cost than using traditional solar panels. For new build schools, IHT should be designed in from the outset. Unlike most other renewables technologies IHT systems are invisible and do not require planning consent. IHT also provides critical period cooling in the exam season.

## What does ICAX do?

ICAX Limited provides a turnkey package for meeting sustainable energy targets on construction projects. We undertake design and installation to ensure that heating and cooling needs are met in a sustainable way.



Collector array being installed, Howe Dell School

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