

# CPD SEMINAR IHT INTERSEASONAL HEAT TRANSFER

## Summary

This one-hour presentation covers the background physics and current applications for solar collecting and solar storage technologies. The seminar is delivered in five sections:

## Introduction to GSHP

This section defines ground source heat pumps, and gives a brief introduction to how they work, the theory behind their performance, common applications and the concept of uplift of performance and CoP.

## Introduction to Solar Thermal Collectors

In this section the principles of solar thermal collection are set out, and common technologies for collection, including solar flat plate, evacuated tube, and asphalt collectors are discussed.

## Thermal Storage

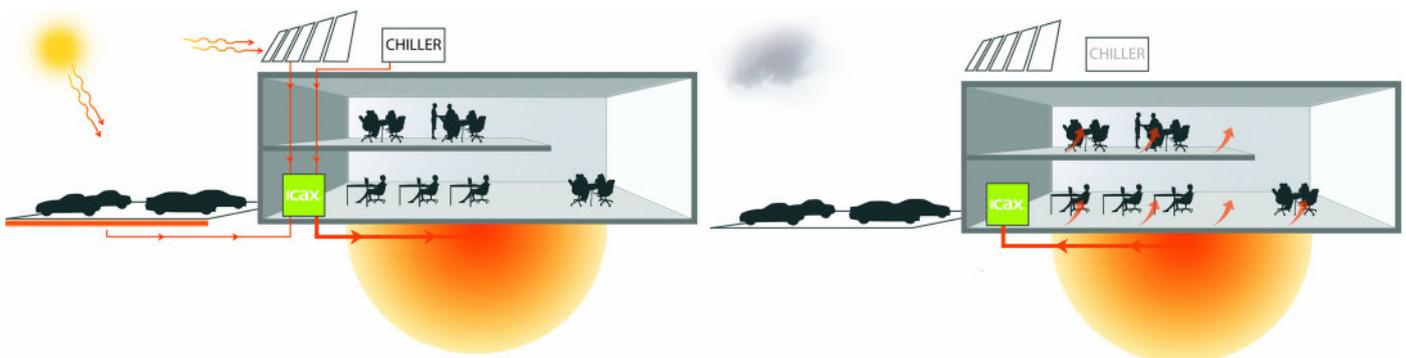
The principles of storing solar energy are presented, including sensible and latent heat storage. The section maps out the common thermal storage techniques.

## ThermalBanks

Large scale earth stores are introduced, with a discussion of how they work, what they look like and their relative benefits.

## Interseasonal Heat Transfer

In the final section the working principles of Interseasonal Heat Transfer are explained with examples of suitable applications.



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