



## Project

# The Guest Hotel & Spa



### **Project Overview**

The Guest Hotel & Spa is a modern and inspiring 3-Star hotel located along the coastal stretch of Port Dickson situated in Bandar Dataran Segar, an entertainment city. It is easily accessible via the North-South Expressway and is about one hour's drive from Kuala Lumpur and only 30 minutes drive from Kuala Lumpur International Airport.

The Guest Hotel & Spa consists of 111 rooms from various standards and class ranging from Superior, premier, Family Rooms as well Executive and Presidential Suites for the comfort of guests.

**Green & Sustainable features.**

The Hotel installed **Solar Hot Water System (SHW)**



The system is built on the roof of the hotel and occupied roof area of approximately **838m<sup>2</sup>**.

The SHW system consists of:

- SDC Heat pipe vacuum tubes
- Calorifier Tank
- Backup Heating Element
- Hot Water Circulation Pump
- Expansion Tank
- Solar Thermal Control System.



Heat pipe vacuum tubes of the Guest Hotel



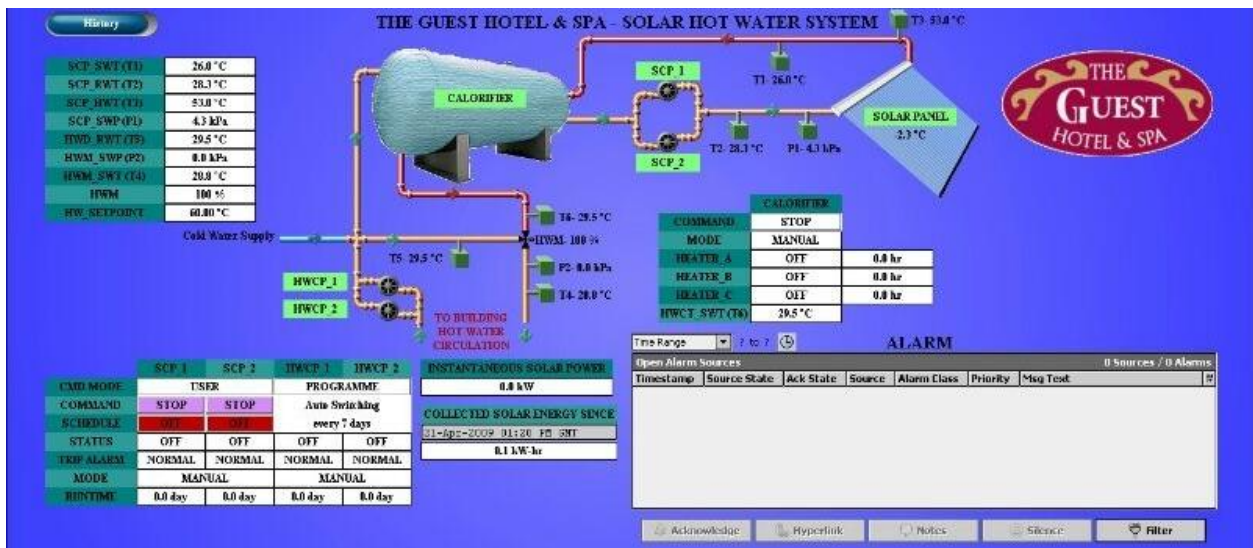
Calorifier Tank

- As weather is unexpected and changing every moment, 3 nos. of heating elements are installed in calorifier tank as backup heater.

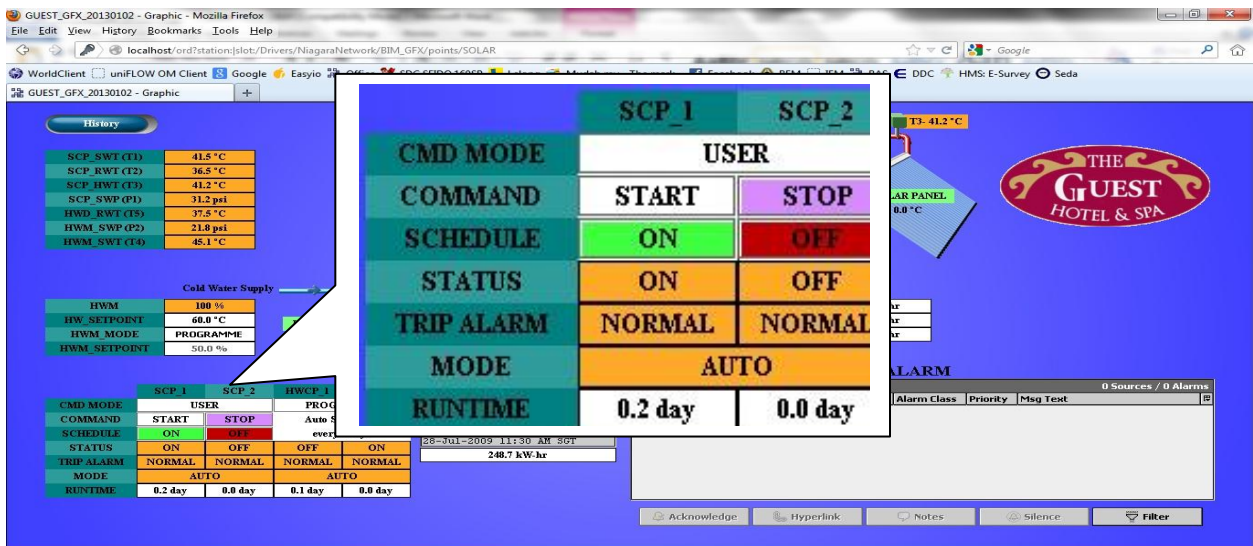


## Solar Thermal Control System (STCS)

1. Solar Thermal Control System is used to control the whole operation of Solar Hot Water System.
2. a control system used to control and monitor solar hot water system
3. STCS comes with the Human Machine Interface (HMI) to allow users to control and monitor the solar hot water system through any computer.
4. To maintain the optimum supply water temperature for end-user usage.
5. To reduce the energy consumption of the building by controlling the pump operation.



Solar Thermal Control System (STCS)



Pump Operation