

ANNEX A

AN OVERVIEW OF THE CHP PILOT PLANT

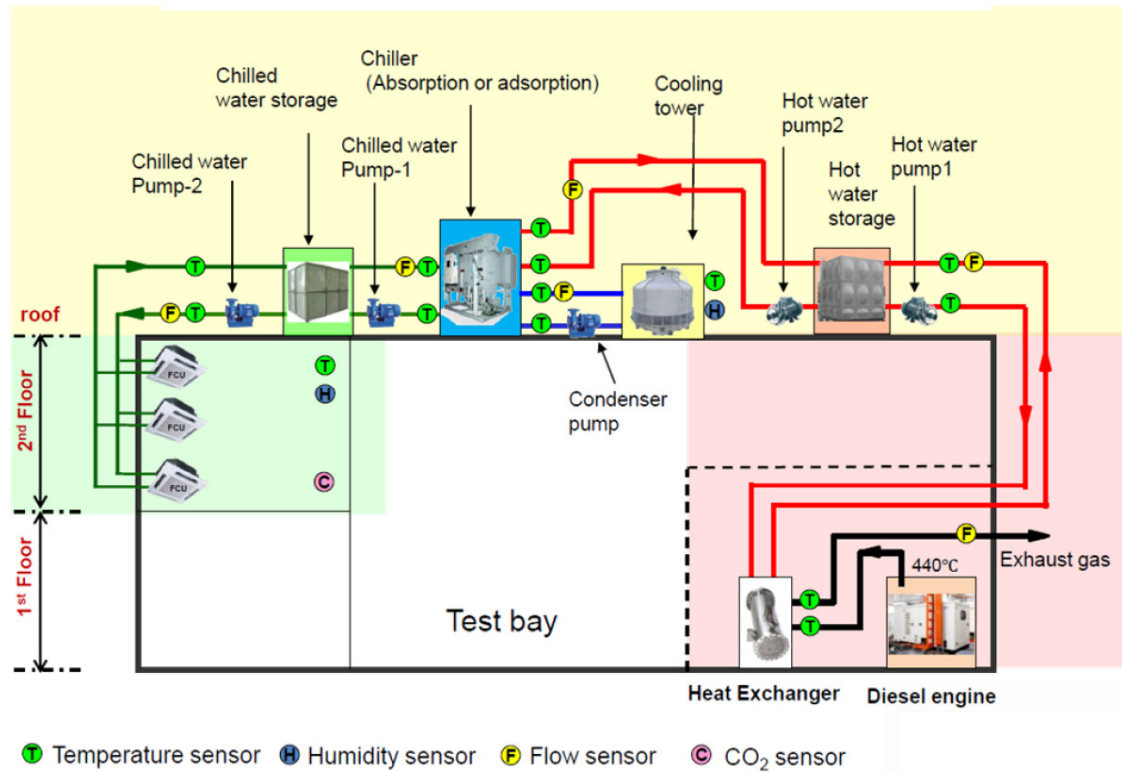


Image 1:

- The waste heat from the diesel engine exhaust is recovered as hot water (at 90°C) is supplied to the absorption chiller to produce chilled water (at 7°C) for air conditioning purpose. Hot water and chilled water storage provide operational flexibility during supply-demand mismatch situations.
- In addition to operating at high efficiency according to supply and demand, inverters are installed in a pump and cooling tower fan, and a cold water temperature variable type chiller is adopted.
- The developed CHP control systems operate all equipment according to set point conducted calculations. Through simulation, these aim to achieve overall optimisation of high energy efficiency and low operation costs.