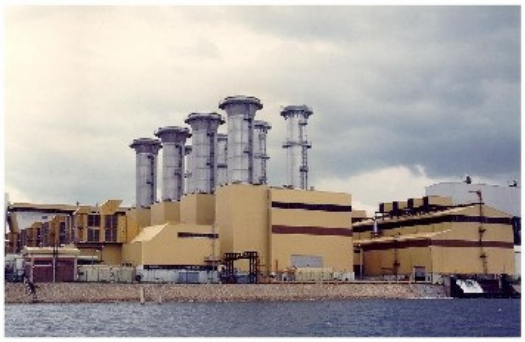
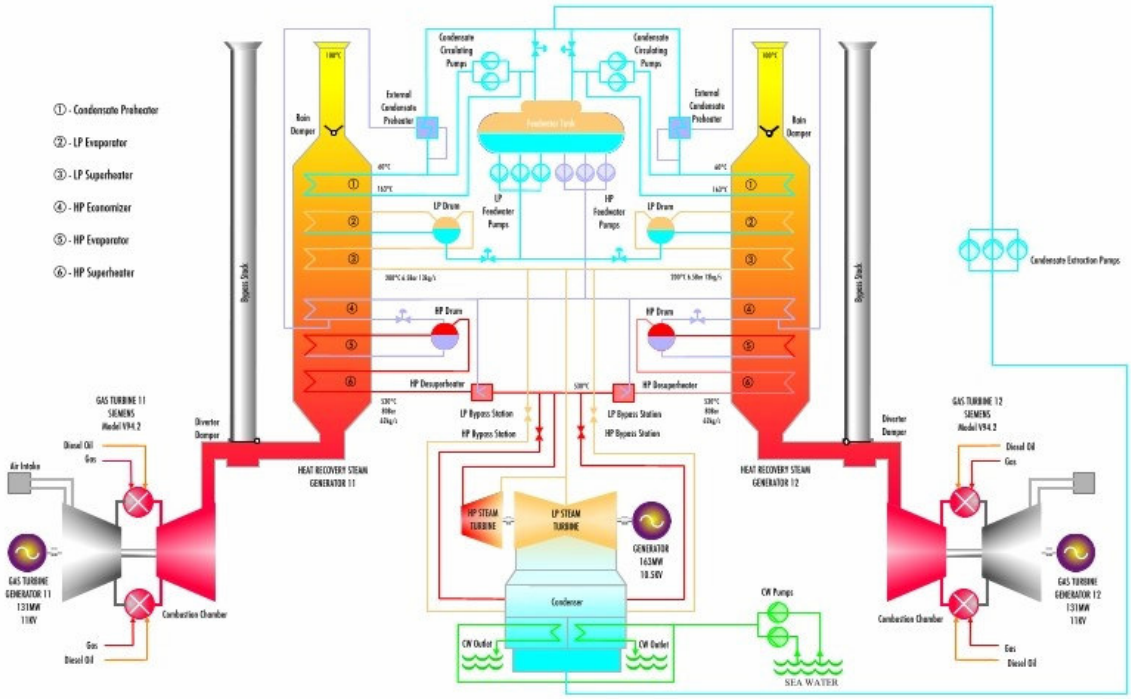
SENOKO 2 x 425 MW COMBINED CYCLE PLANT

Four numbers of Siemens V94.2, 131 MW gas turbines were commissioned in 1990/91, two at a time. The gas turbines are able to load to full capacity in a pace of 15 minutes as compared to 3-4 hours for a conventional thermal plant. Flue gas coming from the stack of the gas turbine is at a temperature of 555°C. Unless utilised, this energy is discharged into the atmosphere. In 1994, the open-cycle gas turbines were converted into two blocks of combined cycle plant of 425 MW capacity each at a cost of $450 million, by incorporating waste heat recovery equipment and additional turbo-generators. This is Singapore's first combined cycle plant and was completed two months ahead of schedule.





Schematic Diagram Of One Block Of 425 MW Combined Cycle Power Plant