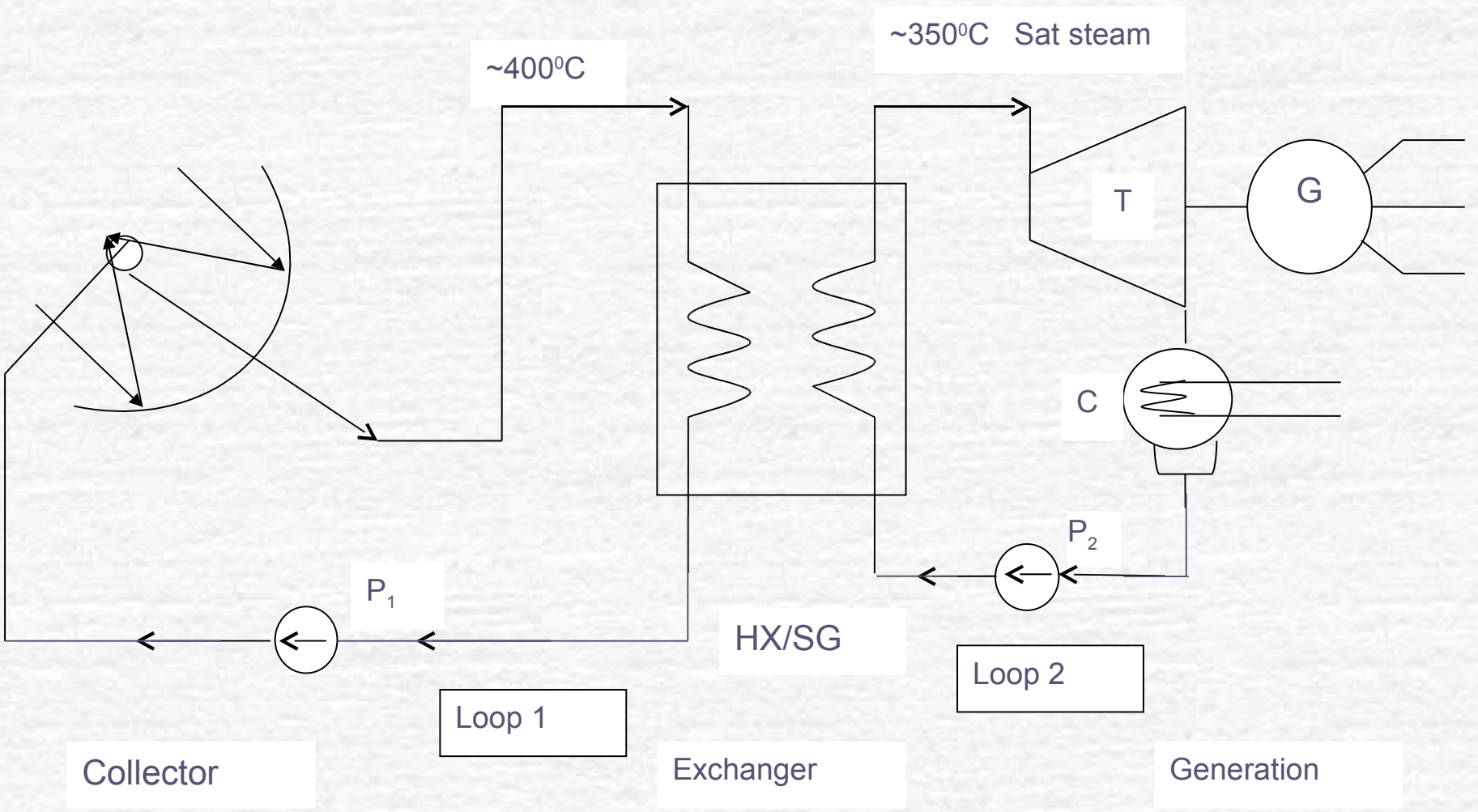




Power Cycle

U. N. Gaitonde
IIT Bombay



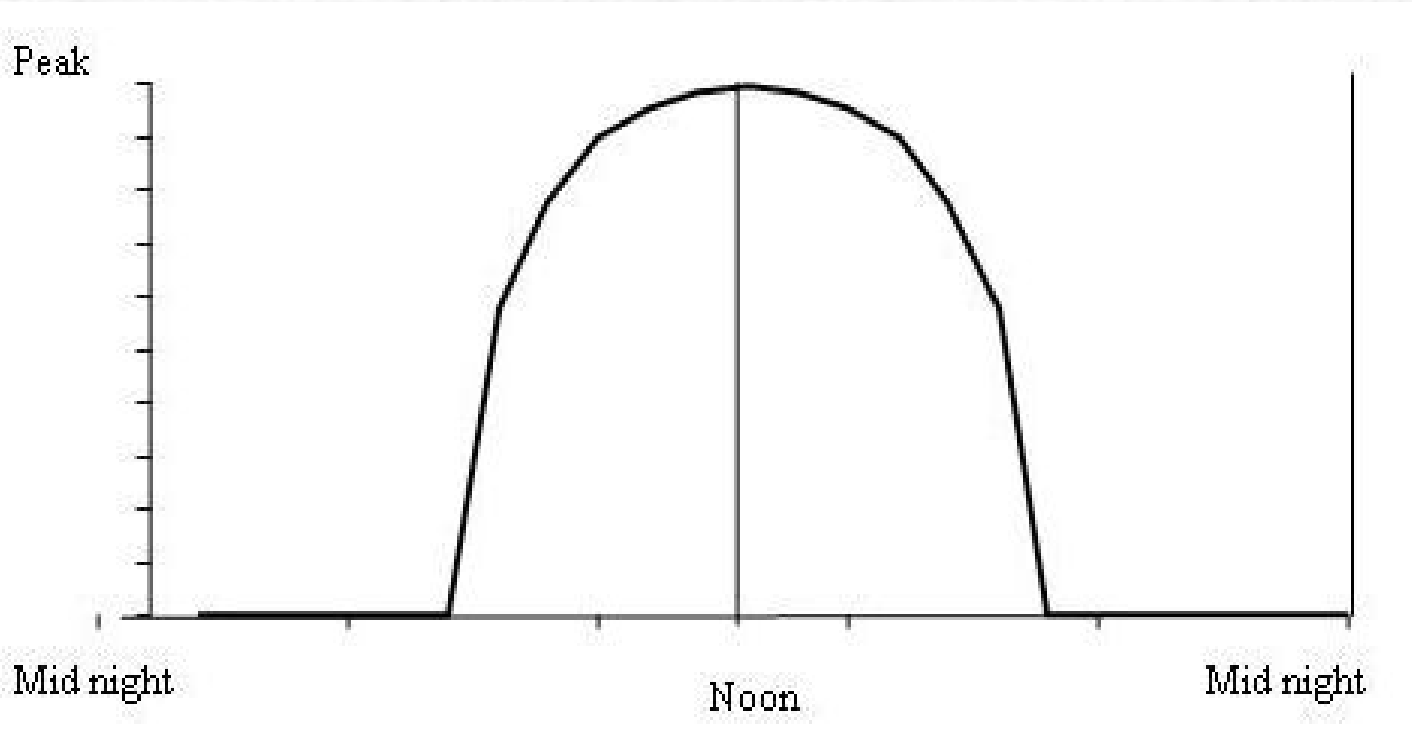


Issues/Questions

- ☞ Loop 2 has steam generation at 300 – 350°C
The steam generator is convectively heated.
- ☞ Saturated steam cycle is possible.
- ☞ Wet steam turbine.
- ☞ Use of moisture separators/reheaters.
- ☞ Size of steam turbine- too small?
- ☞ Competing fluids?



Solar Availability





Issues/Questions

- Daily variation form zero to peak to zero in 6 to 8 hours.
- The turbine design should be such that a reasonable efficiency is maintained even at low power.
- Control of collector- constant flow?
Constant exit temperature?
- Control and dynamics – may affect the design significantly.