

SWTS successfully installed and commissioned power management control system, reducing cost and increasing productivity

Application: Palm Oil Mill, Aumkar Oil Mill Sdn. Bhd.



Main Concerns

- The reliability of operations at Palm Oil mill & Kernel mill due to frequent outages
- Manual reliance on turbine operators for synchronizing and paralleling during start up of Turbine generator
- Frequent intervention of on-site operator, and utilizing of standby Diesel generator with Turbine generator
- Optimize 1.6 MW Turbine generator operation as backpressure turbine for process demand
- Review operation set up of Bio-gas plant with Aumkar powerhouse
- Failure to monitor power usage and diagnose system errors



Si-TEC Xtend CGC-T

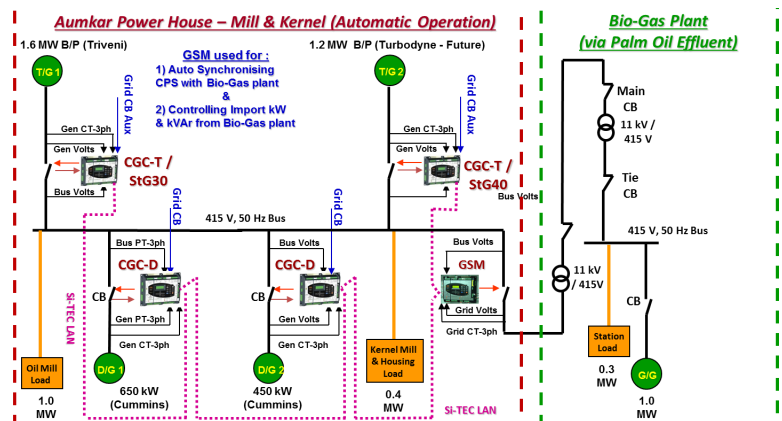
Results

- 1) Increase production of Bio products due to efficient usage of steam
- 2) Reduce operators in powerhouse
- 3) Reduce Diesel consumption
- 4) Harvest Bio gas for gas engine provides an alternative source of power generation
- 5) Cost savings

Solution

HZA Si-TEC Xtend CGC-T governor system installed and commissioned on 1 x 1.6 MW Triveni backpressure steam turbine generator

- Full-fledged automatic operation from start till load sharing
- Backpressure control for 1.6MW Turbine generator with 1MW Gas generator
- Auto start up of 450kW Cummins diesel engine when steam pressure is low
- Integration of Bio-gas plant with Aumkar powerhouse
- HZA Si-TEC Xtend CGC-T governor system to interact with Cummins diesel engine for auto start up, rated speed, synchronise and load share with steam turbine



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