

Cooling tower fan usage optimization

Location: Moscow Lanka Steel, Sri Lanka

Process: Steel bars manufacturing

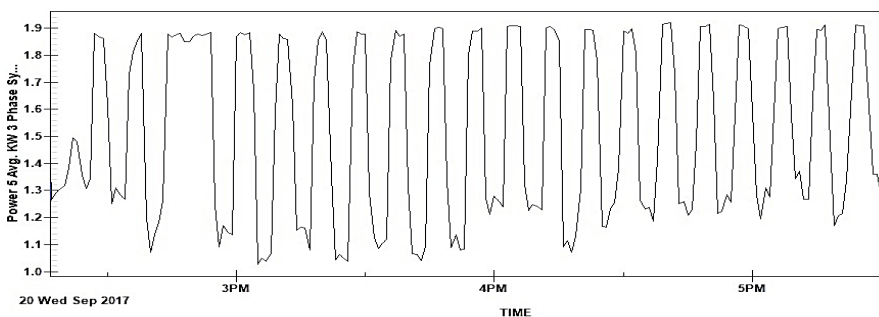
Before

- The cooling tower fan was running at the same speed all the time, regardless of cooling requirement (or heat load), resulting in higher power consumption than was necessary



After

- A temperature controller was installed to control the cooling tower fan operation based on the return water temperature
- The fan completely shuts down when the inlet temperature is 35°C or below



Costs/benefits

Cost: LKR 250,000

Payback: 14 months

Annual savings: LKR 215,400

(19,584 kWh electricity)

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