

Energy savings through VFD installation in motors

Location: Premier Wires Pvt. Ltd., Nepal

Process: Wire manufacturing

Before

- Output speed from several motors was varied using pulleys, in order to meet the process requirements



After

- Output speed of 44 nos. of motors was controlled through variable frequency drives (VFD)
- This improved productivity (as VFD setting change is faster and easier than changing pulleys) and significantly reduced the energy used at lower speeds of operation



Costs/benefits

Cost: NPR 11,000,000

Payback: 9 months

Annual savings: NPR 14,061,780

(1,406,178 kWh electricity per annum)

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