

Noise and energy consumption reduction by change to screw compressor technology

Location: Annapurna Cable, Nepal

Process: Cable extrusion

Before

- Three reciprocating compressors were separately used to fulfil the requirement of compressed air
- These three compressors were creating high noise during operation leading to operator discomfort



After

- A single screw compressor is now used to fulfil the entire plants requirement of compressed air
- The noise pollution has now reduced drastically creating better work condition
- The screw compressor has lower power consumption per unit of compressed air output, leading to energy saving too



Costs/benefits

Cost: NPR 1,400,000

Annual savings: NPR 252,000

Payback: 67 months (*25,200 kWh energy/annum & improved working conditions*)

Contact: Dr. M Balakrishnan, malinib@teri.res.in
Mr. Amar Manandhar, amar@seednepal.org

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