

# Fuel savings by improved steam pipelines insulation

**Location:** Hulas Wire Industries, Nepal

**Process:** Wire manufacturing

## Before

- Damaged insulation in the steam pipelines led to heat loss and higher fuel consumption; the pipeline surface temperature was 55°C, with heat loss of around 16,000 kcal/h
- Temperature of process tank with flux solution (around 66°C) was lower than the desired temperature



## After

- The pipeline was insulated with glass wool and covered with jute sack; this reduced surface temperature to 35°C, with corresponding heat loss of around 6,000 kcal/h
- Flux solution temperature of 85°C was attained and in shorter time



## Costs/benefits

**Cost:** NPR 30,000

**Payback:** 1.7 months

**Annual savings:** NPR 209,000

*(5,264 litres of fuel oil per annum)*

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