

# Energy savings through capacitor bank repair

**Location:** Agro Engineering Works, Nepal

**Process:** Fabrication

## Before

- In the capacitor bank, out of the nine installed capacitors (of 15 kVAr rating each), four were not functioning, one was damaged, two were having problem with contactor and another one was malfunctioning
- The recorded power factor was only 0.88



## After

- One capacitor was repaired, connectors of two capacitors were repaired, miniature circuit breaker (MCB) for connection of one capacitor was repaired and one capacitor was replaced
- Average power factor improved to 0.99



## Costs/benefits

**Cost:** NPR 10,000

**Payback:** 4 months

**Annual savings:** NPR 31,500

*(10.5 kVA/month demand reduction)*

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