

CASE STUDY

# Petrochemical Plant Avoids Unplanned Outage

Fluitec's ESP helps facilitate 3x ROI through extended ODI and \$1M+ in savings

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# Petrochemical Plant Avoids Unplanned Outage

**TOTAL SAVED**  
**\$1M+**



**CLIENT:** Petrochemical Plant

**COUNTRY:** China

**APPLICATION:** Turbine Driven  
Air Compressor

**COST SAVINGS:** \$1M+

**OIL SAVINGS:** 3xROI extended oil  
drain intervals

**SOLUTION:** Fluitec's ESP System

## PROBLEM

Elevated bearing temperatures on a turbine driven Air compressor in a Petrochemical Plant in China posed the risk of an unplanned outage. Increased levels of varnish deposits were visibly present on the thrust bearings and gear teeth. The MPC values were in the Critical range and the oil was failing.

## SOLUTION

Fluitec's ESP™ unit was installed to clean up the deposits formed which would lead to a reduction in bearing temperatures.

## RESULTS

- Drop in MPC to normal range within 80 days. MPC levels maintained in the normal range for four years with the ESP system.
- Bearing temperatures maintained below the warning limit allowing the plant to operate without fear of bearing damage.
- Avoidance of unplanned outage typically costing \$1M+

