

# Paper Industry



## Installation details

- Location: Hongtai Paper Co., Ltd.
- Area: Circulating cooling water system of the evaporative condenser. Steam temperature has **exceeded 95°C**
- Model:  S500
- Pipe size: DN 400mm
- Water capacity: 800 m<sup>3</sup>/h
- Problems: The condenser and the oil cooling system have problems such as scaling and biological slime. It needs to be cleaned once every 3 months. The normal scale inhibitor dosage is about 200 kg per month. Besides, algacide needs to be added every year from April to October.
- Installed by: Beijing Vulcan Water

## Effect evaluation

1. With the **reduction to half** use of scale inhibitors and corrosion inhibitors together with Vulcan, the effect is good, and the scale has softened.
2. If the scale inhibitor and corrosion inhibitor are completely stopped, the effect is not so good, and the scale still forms, causing the system to not operate normally.

## Cost savings calculation

Reduce the scale inhibitor to **1/2**

- = about 3 kg of scale inhibitor per day
- = save 1100 kg every year.

The scale inhibitor costs 30 Chinese Yuan/kg (4.5 US-Dollar/kg)  
= 90 Chinese Yuan (13 US-Dollar) per day  
= **save 32,850 Chinese Yuan (4,733 US-Dollar) per year.**

