



Holcim Kien Luong, Viet Nam

Holcim is one of the world's leading suppliers of cement and aggregates and Holcim Kien Luong is the biggest cement factory in Viet Nam.

They have problem with hard water in chiller, grinder, water supply pipe, and they had a plan to spend nearly 400.000 USD to build and buy chemical systems to solve the problem. But after install Vulcan Units, all the problem are solved with only 30.000 USD. This is the best investment. Here is detail of the project.

Models: 02 x Vulcan S250, 01 x Vulcan S100, 01 x Vulcan 5000

Installating Locations:

- Main water supply for cooling tower.
- Cooling tower for big grinder.
- Cooling tower for small grinder.

Purpose:

- Clean scale deposit
- Prevent new scale
- Reduce maintenance cost
- Replacing chemical dosing and softener systems.

Before Vulcan installation:

- Scale Deposit in oil heat exchanger, oil temperature is vey high $>50^{\circ}\text{C}$, clean every month.
- Heat exchanger is corrosion
- Scale deposit and clog the pipe

After Vulcan installation:

- Oil Heat Exchanger is clean, temperature is stable at $37^{\circ}\text{C} - 40^{\circ}\text{C}$
- No more stop machine to clean.
- Save 7% electric energy at grinders.

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Insallation Pictures:



02 Vulcan S250 units on cooling tower water pipe



01 Vulcan S100 on cooling tower of big grinder



01 Vulcan 5000 on cooling tower of small grinder



Heat exchanger before installation



Heat exchanger after installation 2 months