



HOLCIM BULACAN PLANT

Damper Removal for Fans with Full Open Damper and Installation of Slip Power Recovery System for Fans with Slip Ring Motor Drive

SUMMARY OF THE OPTION

HOLCIM (formerly Union Cement Corporation) Bulacan plant is located in Bulacan, the Philippines, and produces about 1.9 million tons of Portland cement per year.

The 3200 kW raw mill fan has is a slip ring type motor with rotor resistance control for different speeds. The motor operates at 750 rpm, which is lower than the 890 rpm design, and indicates a significant loss of energy due to rotor resistance. To reduce energy loss, it was recommended to install a slip power recovery system to the motor.

This system could also be installed at slip ring type motors of other fans that operate with fully opened dampers. Examples include the 420 kW coal mill fan, the 110 kW coal plant booster fan, the 1154 kW baghouse fan, the 500 kW EP fan, and the 350 kW Sepol fan.

At time of writing of this case study, measurements and trials were still in progress to determine the feasibility of the slip power recovery system.

KEY WORDS

Cement, Philippines, Electric Motors, Fans and Blowers, Dampers, Slip Ring, Motor Drive

FOR MORE INFORMATION

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