

Problem 1	Reduction of high noise level at the Sulphur Recovery Unit
The essence of the problem	During gas treatment at the sulfur recovery unit, there is a low flow rate of sour gas from the design data calculated at 4% hydrogen sulfide. The actual content is about 2.5%, and the equipment has no frequency control of the motor, which leads to energy costs and creates high noise from the ejection of excess air from the blower. There is also increased wear and tear on the equipment due to under-utilization of the plant. Approximately 60-65% of the supplied air is discharged into the atmosphere. The blower flow meter is set at 5000 cubic meters per hour.
Technological parameters	Reduction of air emission into the atmosphere by 40%, tentatively up to 3000 cubic meters per hour.
Scale of the problem	Unsustainable plant performance and high noise during air emission.