



## JIANGSU YONGGANG GROUP DECREASES ENERGY AND UTILITY COSTS WITH ROSEMOUNT™ VORTEX FLOW METERS

### Customer

Jiangsu YongGang Group Co., Ltd., a large-scale integrated iron and steel enterprise, with a whole system of iron-making, steel-making and steel-rolling, located in Zhangjiagang City, Jiangsu Province

### Application

Saturated Steam, max temp 250 °C, pressure 1.6 Mpa, working pressure 0.2 - 0.8 Mpa

### Challenge

Jiangsu YongGang lacked good visibility of their steam usage and an accurate internal steam custody transfer measurement. This measurement was needed to help them monitor the efficiency of energy usage, an imperative KPI, in their respective workshops. They wanted a more precise understanding of the amount of steam they were purchasing and how efficiently they were using it.

At the time, they were using a vortex meter from a different manufacturer which was not accurate or stable enough to make this measurement. Noise from vibrations would throw off the instrumentation. In addition, the flow in the line varied at times, making it difficult to get a repeatable, consistent measurement. This resulted in lack of confidence in the readings. In addition, the original device failed after only three months.

An accuracy of 1-2 percent was needed and a repeatable measurement was needed from the replacement instrumentation. Without an accurate and stable measurement, energy and utility costs increased.

### Results

- Visibility of steam usage
- Accurate internal steam custody transfer measurement
- Reduced maintenance costs



**Image 1.** Installed Rosemount 8600 Vortex Transmitter

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## Solution

The customer employed the Rosemount™ 8600 Vortex Flow Meters. The Rosemount 8600 is designed for utilities applications and can provide a more stable and accurate measurement. Its ADSP and mass balance provide superior vibration immunity. Meter verification enables the customer to check meter health very conveniently, resulting in more confidence in the reading. The 8600D Flow Meter has shown optimum reliability (no failure has been reported in 1 year of installation).

## Resources

Metals and Mining Industry Page:  
[Emerson.com/Metals&Mining](https://www.emerson.com/Metals&Mining)

Vortex Flow Meters:  
[Emerson.com/Vortex](https://www.emerson.com/Vortex)

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*With the Rosemount 8600 Vortex installation, I have more confidence in my steam measurement.*

*Peng Li  
Utility Engineer at YongGang*

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**Image 2.** Installed Rosemount 8600 Vortex Flow meter



**Image 3.** Steam Pipe

For more information, visit  
[Emerson.com](https://www.emerson.com)

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