



CANNON INCREASES PROCESS SAFETY, SAVES CAPEX AND OPEX WITH ROSEMOUNT QUAD VORTEX

Customer

Cannon Bono Energia, Milan, Italy, a leader in design, engineering and production of industrial boilers.

Application

Rosemount 8800 Quad Vortex Flow Meter for critical fuel measurement

Challenge

Boilers for industrial use must achieve great reactivity to meet the demands, but also they have to guarantee that the ratio between fuel and oxygen is respected, to avoid unsafe conditions or inefficient flames.

The high rangeability and the variety of fuels made it necessary for Cannon to determine flow measurement fully independent of the process density while being reliable and capable of guaranteeing high safety levels on 2oo3 SIL applications.

A main requirement from Cannon Bono Energia, the meter must be easy to install to save in installation costs, and compact to fit with short runs.

Results

- 2oo3 Redundancy and SIL 3 certificate, all in one device
- 40% Savings in CAPEX costs
- 40% Reduction of construction cost of the metering skid
- 50% Reduction of instrument installation costs
- 50% Reduction of maintenance costs



Cannon boiler under production.

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Solution

With Rosemount™ Vortex Quad Vortex Flow Meter, Cannon Bono Energia satisfied all their customer's needs.

The Vortex Quad is a compact, reliable and accurate meter with four independent primary elements (sensors) within a single flow tube allowing four independent outputs.

The three measurements dedicated to system safety are fully compliant with the SIS regulations, and the fourth output is used for process regulations.

The compact design helped achieve a 40% reduction in the total CAPEX costs, while installation costs have been reduced up to 50%. The size of the metering skid, where the Vortex Quad is installed, is reduced with a cost saving up to 40% in the realization of the skid itself. Furthermore, the Rosemount 8800 Quad Vortex Flow Meter with best-in-class non-wetted sensor design, helps reduce the maintenance costs up to 50% compared with other measurement technologies.



With Emerson Vortex meter, we have realized safe boilers and saved considerable costs.



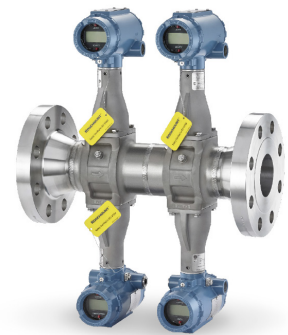
Gianfranco Gentile
Technical Director



This is the most reliable and flexible Vortex meter we have ever installed.



Domenico Cannavale
Control and Instrument Engineer



Emerson's Rosemount Vortex 8800 Quad can be used in safety installations up to SIL-3

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