

CANNON increases process safety, saves CAPEX and OPEX with Rosemount Quad Vortex

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

APPLICATION

Rosemount 8800 quad vortex for critical fuel measurement

CUSTOMER

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

CHALLENGE

Boilers for industrial use must achieve great reactivity to meet the demands, but at the same time 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.

SOLUTION

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

The Vortex Quad is a compact, reliable and accurate meter with 4 independent primary elements (sensors) within a single flow tube allowing 4 independent outputs.



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

Gianfranco Gentile
Technical Director



Cannon boiler under production

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For more information:
www.Emerson.com/Vortex


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POWER

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

The compactness of the 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 with best-in-class design with a non-wetted sensor, helps reduce the maintenance costs up to 50% compared with other measurement technologies

“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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Emerson Automation Solutions Americas

7070 Winchester Circle
Boulder, Colorado USA 80301

www.Emerson.com

T: +1 800 522 6277

T: +1 (303) 527 5200

Mexico	52 55 5809 5300
Argentina	54 11 4837 7000
Brazil	55 15 3413 8000
Venezuela	58 26 1300 8100
Chile	56 2 2928 4800

Emerson Automation Solutions Europe/Middle East

Central &	
Eastern Europe	+41 41 7686 111
Dubai	+971 4 811 8100
Abu Dhabi	+971 2 697 2000
France	0800 917 901
Germany	+49 (0) 2173 3348 0
Italy	8008 77334
The Netherlands	+31 (0) 70 413 6666
Belgium	+32 2 716 77 11
Spain	+34 913 586 000
U.K.	0870 240 1978
Russia/CIS	+7 495 981 9811

Emerson Automation Solutions Asia Pacific

Australia	(61) 3 9721 0200
China	(86) 21 2892 9000
India	(91) 22 6662 0566
Japan	(81) 3 5769 6803
South Korea	(82) 31 80834 0000
Singapore	(65) 6363 7766

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