VIETCIS helps thermal power plant of Formosa Ha Tinh Steel Corporation (FHS) monitor the inlet water flow.

The thermal power plant of Formosa Ha Tinh Steel Corporation (FHS) is a coal-fired power plant based in Central Vietnam and has a designed capacity of 65000MW (megawatts). This thermal power plant provides electricity to the Formosa Steel factory complex.

Why measure flow in coal-fired power generation?

Much like other methods of power generation, the coal-fired power plant relies on feed water and hydrocarbon fuels to generate electricity. The flow of these liquids must be accurately monitored to keep the entire system operating efficiently. To achieve precise flow monitoring, power plants require reliable and responsive flow measurement systems to measure and verify the flow.

What was the application?

Engineers working on the Thermal Power Plant needed to measure the factory input water. So, they reached out to local Pulsar Measurement distributors and experts, VIETCIS, for help.

When it came to the installation, it was far from easy. The application was in the forest, with no electricity, and required engineers at VIETCIS to use solar energy solutions to help provide power to the unit.

Contacting and non-contacting flow measurement options are available, however, when it came to a Thermal Power Plant, VIETCIS decided that a non-contacting option would be best to avoid a complete shutdown of the power plant, which would have cost operators thousands.

It was decided that the best solution for the application would be the complete non-contacting Area × Velocity solution, FlowCERT, dB6, and MicroFlow Velocity sensor.

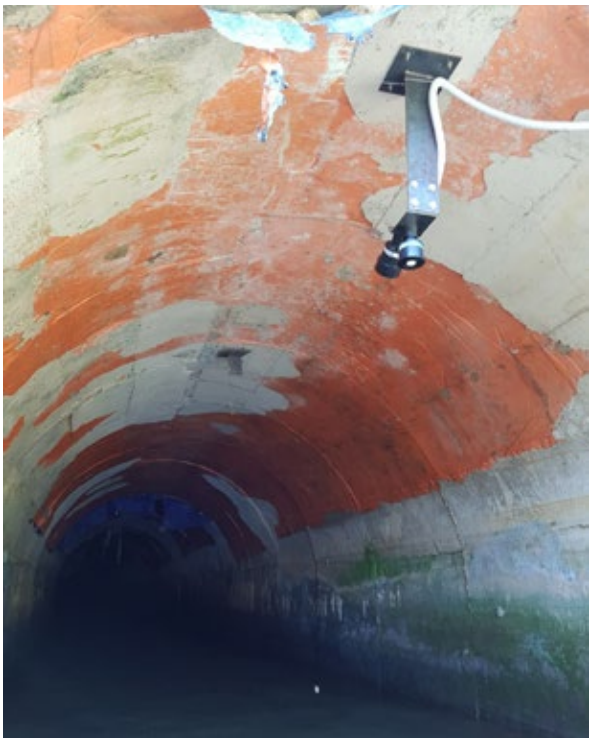
In addition to the tricky application, the working conditions for the FlowCERT, MicroFlow, and dB6 are also harsh. Temperatures are scorching in the hot season, there is no standard electricity, and when it rains, floods often occur leaving the sensor at risk of being submerged in the high levels.

"We are really pleased with Pulsar Measurement equipment; installation was great, and the staff are friendly! The support from Tan and Jacky in Malaysia was quick and great!"

Open Channel Flow Measurement with FlowCERT, MicroFlow & dB6

FlowCERT provides comprehensive open channel flow measurement with extensive data logging and control functions. It includes a range of pre-programmed flumes and weirs, so setup is quick, simple, and straightforward. When combined with the MicroFlow velocity sensor and dB6, it can provide a complete Area × Velocity solution.

The dB range of transducers from Pulsar Measurement is available in a range of different options, including submergence shields for applications that are at risk of flooding. The submergence shield is designed to keep the face of the transducer completely clean, so that when the level resides to normal levels, the transducer goes right back to providing accurate and reliable level measurement, without the need for maintenance.



Accurate Open Channel Flow Measurement Even in Tough Conditions

Despite the tough working conditions, the Pulsar Measurement equipment performed well and engineers at the Thermal Power plant were able to get an indication of flow. Personnel at the Power Plant said, "We are really pleased with Pulsar Measurement equipment; installation was great, and the staff are friendly! The support from Tan and Jacky in Malaysia was quick and great!"

VIETCIS is a trusted partner of Pulsar Measurement. Based in Hanoi, Vietnam, they provide installation, service, and training for mechanical, electrical, and automation systems for a wide range of sectors. A representative from VIETCIS who worked on the project said, "It was a pleasure to work with the customer on this project, the end result is exactly what we were looking for."

Pulsar Measurement has a global network of partners who can offer local onsite training, installation, and product services. To find your local Pulsar Measurement partner, please visit our website.

More Information

FlowCERT: https://pulsarmeasurement.com/flowcert

MicroFlow Velocity Sensor: www.pulsarmeasurement.com/microflow

VIETCIS: vietcis.com.vn

pulsar MEASUREMENT

INFO@PULSARMEASUREMENT.COM

Delivering the Measure of Possibility

United States
+1 888-473-9546

Canada
+1 855-300-9151

United Kingdom
+44 (0) 1684 891371

Asia
+60 102 591 332

Oceania
+61 428 692 274

pulsarmeasurement.com

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