

## AKOSOMBO DAM – VOLTA RIVER AUTHORITY – GHANA

The Akosombo Dam (also referred to as the Volta Dam), is a hydroelectric dam on the Volta River in southeastern Ghana in the Akosombo gorge and part of the **Volta River Authority**.

The construction of the dam started in 1961 and was finished in 1965.

The Akosombo Dam was called "the largest single investment in the economic development plans of Ghana."



Its original electrical output was 912 MW, which was upgraded to 1,020 MW in a retrofit project that was completed in 2006.



Above: the six penstocks (before **ZINGA** application)  
Right: 450 ton crane.



In 2009 talks started about recoating the exterior of 6 penstocks and cranes (450T ; 85T and mobile hoist cranes) that are part of the Akosombo Hydroelectric Project. In 2012 the application on 10,000m<sup>2</sup> with the **Zingametall coatings** started following their approval in 2010.



February 2012: one penstock coated with **ZINGA**, the second penstock scaffolded.



April 2012: one penstock finished with **ZINGACERAM PU**, the second penstock protected with **ZINGA**



November 2012: three penstocks finished with **ZINGACERAM PU**, the fourth penstock scaffolded.



March 2013: four penstocks finished with **ZINGACERAM PU**.



April 2013: five penstocks finished with **ZINGACERAM PU**.



End of June 2013: All six penstocks finished with **ZINGACERAM PU**.

**ZINGA Ghana** was the project coordinator of the maintenance works and **Witson Mechanical Company** was the contractor responsible for the surface preparation and coating application.

### System:

ZINGA	1 x 60 µm DFT
ZINGACERAM HS	1 x 80 µm DFT
ZINGACERAM PU	1 x 100 µm DFT

