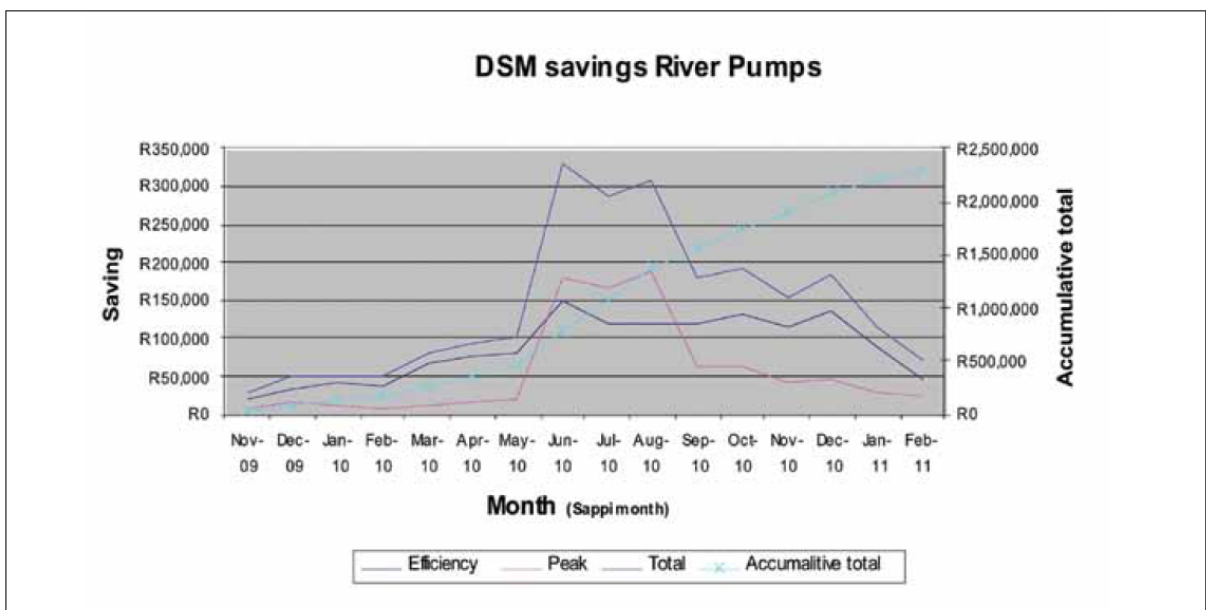


# Sappi Tugela Mill

## River Pump Station Upgrade (DSM)

The upgrade of the river pump stations was completed in May 2010 and allows for a shift of 1.85MW away from peak demand periods during the day and a 0.185MW energy saving throughout the day. Tugela Mill now has a substantially upgraded and improved river pump station with state-of-the-art process control capable of pumping the Mill's daily requirement of water in less than 20 hours therefore providing the opportunity to shift load from peak periods to off-peak periods, using existing water storage capacity and without impacting on the security of the supply of water to the plant operations.

Parameter	Design	Actual	% of Design
Load shifting	1,850MW	1,960MW	106
Energy savings	0,185MW	0,233MW	120



**Project Total Value:** R 9 553 368  
**Mill Contribution:** R 2 700 000  
**Eskom Contribution:** R 6 853 368  
**Predicted Annual Savings:** R 1 752 000  
**Actual Savings to 2010/10/31:** R 1 753 470  
**Project pay back:** Less than  
*(Projected with DSM Contribution)* 1 year



*"The most successful Sappi Tugela River Pump Station Upgrade Project on the KZN North Coast"*  
 SAIEE