Belgra

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05 FEB 2014

Objective 1: To reduce water consumption		Indicator: Water m3/t:	Measurement Objective annual: 1% respect to 2012	% Completed
Target:	Responsible	Date	Resources	
To optimize the water circuit	SI	June 2013	30.000€	
To optimize process starts and stops	SI	Monthly	300€	

Update:
No investments made in 2013 on optimisation of water circuit, however rationalisation of system was completed. All water consumptions considered in balance as brine feed SG for 2013 increased by 2% on 2012 average and at optimum level. Further rationalisation of water consumption will be possible in 2014 with the potential installation of 3rd Crystalliser.

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED Vs AUTHORISATION	AS	13/2/14
TRACKING	JB	10.2.14
OK FOR PUBLIC REGISTER	AS	13/2/14
	JB	EDRM

Objective 2: To reduce electricity consumption		Indicator: kWh/t	Measurement Objective annual: 1% respect to 2012	
Target:	Responsible	Date	Resources	
Switch off equipment while not used	SI	June 2013	NA	
To reduce contracted power	SI	December 2013	Na	

Update:

All equipment switched off whilst not in use. Total electrical power consumption for 2013 reduced by 3.5% on 2012, however consumption per ton of processed is virtually unchanged on 2012. Additional electrical equipment has been installed during this period therefore further work and analysis is required during 2014.

Objective 3: **To reduce chemicals consumption**		Indicator: Associated €-GBP/t	Measurement Objective annual: % respect to 2012	
Target:	Responsible	Date	Resources	
Market and process evaluation	SI	May 2013	NA	
New chemicals-process implementation	SI	September 2013	5000□	

Update: No investment made on new chemical implementation, however 25% price saving achieved on caustic soda purchase price and 10% on sulphuric acid price. Alternatives explored for other additives and work on-going into 2014 to finalise these initiatives.

Objective 4: **To reduce energy cost**		Indicator: Associated €-GBP/t	Measurement Objective annual: % respect to 2012	
Target:	Responsible	Date	Resources	
Replace burner system and install LPG bulk facility	SI	January 2013	62,000 £	
Evaluate efficiency of LPG	SI	January 2014	N/a	

Update:
Propane bulk facility now on line
Burner system has been changed over for duel fuel use propane and Kerosene.
Running now on propane usage being evaluated against kerosene monthly for comparisons and reported.

Objective 5: **Increase the number of customers/uses for BFA**		Indicator: Associated €-GBP/t	Measurement Objective annual: % respect to 2012	
Target:	Responsible	Date	Resources	
Fix a list of new customers/uses and visit planning	JD JL	January 2013	N/a	
Arrange visits and trials, follow the trials results	JD	Monthly	N/a	

Update:
A visit schedule updated by the sales team and reviewed within the sales department meetings

Further contacts are being perused with the appropriate evaluations completed by both Sales and QSE departments, the progress on visits and new contacts are reported monthly via the management meeting and oxide review meetings.

Reduction in landfill in the second half of 2013 but still further work to be developed over 2014 with future applications Work being complemented with CERAM to further develop process and application possibilities for Oxide products.