

Six Sigma Monthly Report - Summary

Month	Aug-06
-------	--------

Project Title
Reduce Energy Consumption in PM 9

Belt	Register Number	Start Date
SB		Tue, 01-Aug-06

Leader	Process Owner	Champion	MGB
Joni Widhianto	Bukhari Ismail	Teoh Wie Hai	

Saving Formula
(Baseline - Achievement) * Price * Production Volume

Month	Unit	Baseline	Actual	Water	Price of Power	Price of Steam	Price of Water	Production Volume	Saving
Feb 2006 - July 2006	Base line	757.59	2.29	11.29					
	Goal	710.00	1.90	9.00	0.04	21.175	0.066	18,356.00	185,811.00
	Unit of Measure	kWh/Ton	Ton/Ton	m3/Ton	USD/kWh	USD/Ton	USD/m3	Ton	
August-06	D	736.78	2.20	10.21	0.049	24.213	0.084	18755.68	61,698.30
Up to Date Total Actual Saving									61,698.30
Annualize Actual Saving									740,379.60

Other Benefit

Note

Prepared By	Belt	Process Owner				Controller
J. Widhianto	J. Widhianto	T. Wie Hai				

Six Sigma Monthly Report - Summary

Month	Aug-06
-------	--------

Project Title
Reduce Energy Consumption in PM 9

Belt	Register Number	Start Date
SB		Tue, 01-Aug-06

Leader	Process Owner	Champion	MGB
Joni Widhianto	Bukhari Ismail	Teoh Wie Hai	

Saving Formula
(Baseline - Achievement) * Price * Production Volume

Month	Phase	Power	Steam	Water	Price of Power	Price of Steam	Price of Water	Prod. Volume	Saving
Feb 2006 - July 2006	Base line	757.59	2.29	11.29					
	Goal	710.00	1.90	9.00	0.04	21.175	0.066	18,356.00	185,811.00
	Unit of Measure	kWh/Ton	Ton/Ton	m3/Ton	USD/kWh	USD/Ton	USD/m3	Ton	
August-06	D	736.78	2.20	10.21	0.049	24.213	0.084	18755.68	61,698.30
Up to Date Total Actual Saving									61,698.30
Annualize Actual Saving									740,379.60

Other Benefit

Note

Prepared By	Bel	Process Owner				Controller
J. Widhianto	J. Widhianto	T. Wie Hai				

Six Sigma Monthly Report - Summary

Month	Sep-06
-------	--------

Project Title
Reduce Energy Consumption in PM 9

SB	Register Number	Start Date
SB		Tue, 01-Aug-06

Leader	Process Owner	Champion	MGB
Joni Widhianto	Bukhari Ismail	Teoh Wie Hai	

Saving Formula
(Baseline - Achievement) * Price * Production Volume

Month	Phase	Power	Steam	Water	Price of Power	Price of Steam	Price of Water	Prod. Volume	Saving
Feb 2006 - July 2006	Base line	757.59	2.29	11.29					
	Goal	710.00	1.90	9.00	0.04	21.175	0.066	18,356.00	185,811.00
	Unit of Measure	kWh/Ton	Ton/Ton	m3/Ton	USD/kWh	USD/Ton	USD/m3	Ton	
August-06	D	736.78	2.20	10.21	0.049	24.213	0.084	18755.68	61,698.30
September-06	M	728.41	2.18	10.04	0.044	24.153	0.085	18650.02	75,476.63
Up to Date Total Actual Saving									137,174.93
Annualize Actual Saving									823,049.56

Other Benefits

Note

Prepared By	SB	Process Owner				Controller
J. Widhianto	J. Widhianto	T. Wie Hai				

Six Sigma Monthly Report - Summary

Month	Oct-06
-------	--------

Project Title
Reduce Energy Consumption in PM 9

Register Number	Start Date
SR	Feb, 01-Aug-06

Leader	Process Owner	Champion	MGB
Joni Widhianto	Bukhari Ismail	Teoh Wie Hai	

Saving Formula
(Baseline - Achievement) * Price * Production Volume

Year	Phase	Baseline	Actual	Price of Power	Price of Steam	Price of Water	Prod. Volume	Saving
Feb 2006 - July 2006	Base line	757.59	2.29	11.29				
	Goal	710.00	1.90	9.00	0.04	21.175	0.066	18,356.00
	Unit of Measure	kWh/Ton	Ton/Ton	m3/Ton	USD/kWh	USD/Ton	USD/m3	Ton
August-06	D	736.78	2.20	10.21	0.049	24.213	0.084	18755.68
September-06	M	728.41	2.18	10.04	0.044	24.153	0.085	18650.02
October-06	A	734.65	2.14	10.15	0.034	22.992	0.071	19278.81
Up to Date Total Actual Saving								220,260.83
Annualize Actual Saving								881,043.33

Other Benefit

Note

Project	Register	Process Owner				Controller
J. Widhianto	J. Widhianto	T. Wie Hai				

Six Sigma Monthly Report - Action

Month	September 2006
-------	----------------

Project Title	Reduce Energy
---------------	---------------

Yn / Xn	Stream Consumption High			
	Action Taken	Result	Start Date	Status
	Study and analyze of data			

Yn / Xn	Power consumption high			
	Action Taken	Result	Start Date	Status
	Study and analyze of data			

Yn / Xn	Fresh water consumption high			
	Action Taken	Result	Start Date	Status
	Study and analyze of data			

Six Sigma Monthly Report - Action

Month	October 2006
--------------	---------------------

Project Title	Reduce Energy
----------------------	----------------------

Yn / Xn	Steam Consumption High			
	Action Taken	Result	Start Date	Status
	install Pre-Dryer heater to increase board temperature	still adjustment condition	Mon. 02-Oct-06	Complete

Yn / Xn	Power consumption high			
	Action Taken	Result	Start Date	Status
	Study pulping time and pumping time to get correlation each others	The pumping time have big correlation to pulping time in low level condition	Sua. 01-Oct-06	On progress

Yn / Xn	Fresh water consumption high			
	Action Taken	Result	Start Date	Status
	Change the sealing water pump from centrifugal pump to cantilever pump		Tue. 10-Oct-06	Complete

Six Sigma Monthly Report - Action

Month	January 2007
-------	--------------

Project Title	Reduce Energy
----------------------	---------------

Yn / Xn	Stream Consumption High	Action Taken	Result	Start Date	Status
		Install After Dryer Heater to increase hood temperature	Set adjustment condition	Tue, 12-Dec-06	Complete

Yn / Xn	Power consumption high	Action Taken	Result	Start Date	Status
		Allignment splined and hub rotor refiner spacer	Inspection of bearing rotor and shaft	Mon, 15-Jan-07	On progress
		Continuous study pulper operation to reduce pulping time	Making the level control for Head Tank make up and setting number of agitator running	Sat, 04-Nov-06	On progress

Yn / Xn	Fresh water consumption high	Action Taken	Result	Start Date	Status
		Replace sealing water wash pump press part from fresh water to white water	Fresh water can be reduced from 140 l/minute to be zero consumption fresh water	Fri, 12-Jan-07	Complete

Six Sigma Monthly Report - Action

Month	February 2007
-------	---------------

Project Title	Reduce Energy
---------------	---------------

Yn / Xn	Steam Consumption High	Result	Start Date	Status
	Action Taken			
	Install After Dryer Heater to increase hood temperature	Still adjustment condition	Tue, 12-Dec-06	Complete

Yn / Xn	Power consumption high	Result	Start Date	Status
	Action Taken			
	Allignment splined and hub rotor refiner spacer	Inspection of bearing rotor and shaft	Mon, 15-Jan-07	On progress
	Continuous study pulper operation to reduce putping time	Making the level control for Head Tank make up and setting number of agitator running	Sat, 04-Nov-06	On progress

Yn / Xn	Fresh water consumption high	Result	Start Date	Status
	Action Taken			
	Replace sealing water nash pump press part from fresh water to white water	Fresh water can be reduced from 140 lt/minute to be zero consumption fresh water	Fri, 12-Jan-07	Complete

Month	March 2007
-------	------------

Project Title	Reduce Energy
---------------	---------------

Yn / Xn Steam Consumption High			
Action Taken	Result	Start Date	Status

Yn / Xn Power consumption high			
Action Taken	Result	Start Date	Status
Alignment rotor refiner to get balance position	Still preparing alignment	Sun, 01-Apr-07	On Progress
Continuous study pulper operation to reduce pulping time	Making the level control for Head Tank make up and setting number of agitator running	Sat, 04-Nov-06	On progress

Yn / Xn Fresh water consumption high			
Action Taken	Result	Start Date	Status
Install TrumpJet	Still preparing Installation	Thu, 26-Apr-07	On Progress

Month	April 2007
-------	------------

Project Title Reduce Energy

Yn / Xn Steam Consumption High			
Action Taken	Result	Start Date	Status

Yn / Xn Power consumption high			
Action Taken	Result	Start Date	Status
Alignment rotor refiner to get balance position	Monitoring	Sun, 01-Apr-07	On Progress
Continuous study pulper operation to reduce pulping time	Making the level control for Head Tank make up and setting number of agitator running	Sat, 04-Nov-06	On progress

Yn / Xn Fresh water consumption high			
Action/Taken	Result	Start Date	Status
Install TrumpJet	Done	Thu, 26-Apr-07	Complete

Month	May 2007
--------------	-----------------

Project Title Reduce Energy

Yn / Xn	Steam Consumption High			
	Action Taken	Result	Start Date	Status
	Pulp Management	Monitoring	June, 11 june 2007	On Progress

Yn / Xn	Power consumption high			
	Action Taken	Result	Start Date	Status
	Allignment rotor refiner to get balance position	Monitoring	Sun, 01-Apr-07	On Progress
	Continuous study pulper operation to reduce pulping time	Making the level control for Head Tank make up and setting number of agitator running	Sat, 04-Nov-06	On progress
	Pulp Management	Monitoring	June, 11 june 2007	On Progress

Yn / Xn	Fresh Water achieved the target			
	Action Taken	Result	Start Date	Status

Month	June 2007
-------	-----------

Project Title	
Reduce Energy	

Yn / Xn	Steam Consumption High	Action Taken	Result	Start Date	Status
		Pulp Management	Monitoring	June, 11 june 2007	On Progress

Yn / Xn	Power consumption high	Action Taken	Result	Start Date	Status
		Alignment rotor refiner to get balance position	Monitoring	Sun, 01-Apr-07	On Progress
		Continuous study pulper operation to reduce pulping time	Making the level control for Head Tank make up and setting number of acitator running	Sat, 04-Nov-06	On progress
		Pulp Management	Monitoring	June, 11 june 2007	On Progress

Yn / Xn	Fresh Water achieved the target	Action Taken	Result	Start Date	Status

