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About Newcastle Works



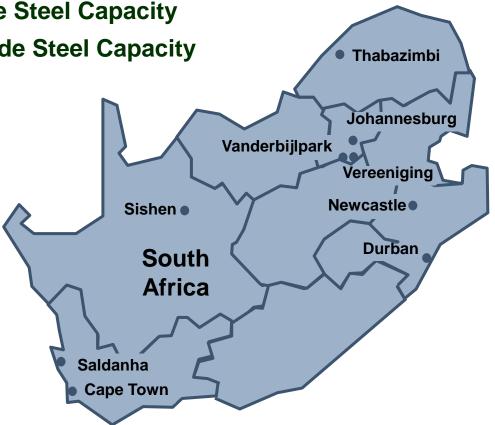


ArcelorMittal South Africa



- Vanderbijlpark plant 4.5 Mtpa Crude Steel Capacity
- Saldanha Steel 1.2 Mtpa Crude Steel Capacity
- Newcastle plant 1.9 Mtpa Crude Steel Capacity

Vereeniging plant – 0.4 Mtpa Crude Steel Capacity



Brief History





- Newcastle Works
- Originally part of a government run organisation (ISCOR).
- The then government chose to build a plant in Newcastle to promote industrialisation in the area and optimise use of nearby resources and ports.
- Designs began in 1969 and the plant began its full production in November 1976.



Newcastle Works 2011 (2010)

Liquid Steel Production ('000 tons)

Sales tons ('000 tons)

Percentage Domestic Sales

Manpower

Area of Site

Perimeter

Rail Networks

Electricity consumption

Primary Raw Materials received

Water Consumption

1 064 (1 563)

1 039 (1 490)

74% (54%)

1 715 (1740)

1697 ha

18.97 km

90 km

1 752 Mwh/day (1 688)

7 086 t/day (7 874)

16 284 KLtrs/day (17 963)

NC Management Team





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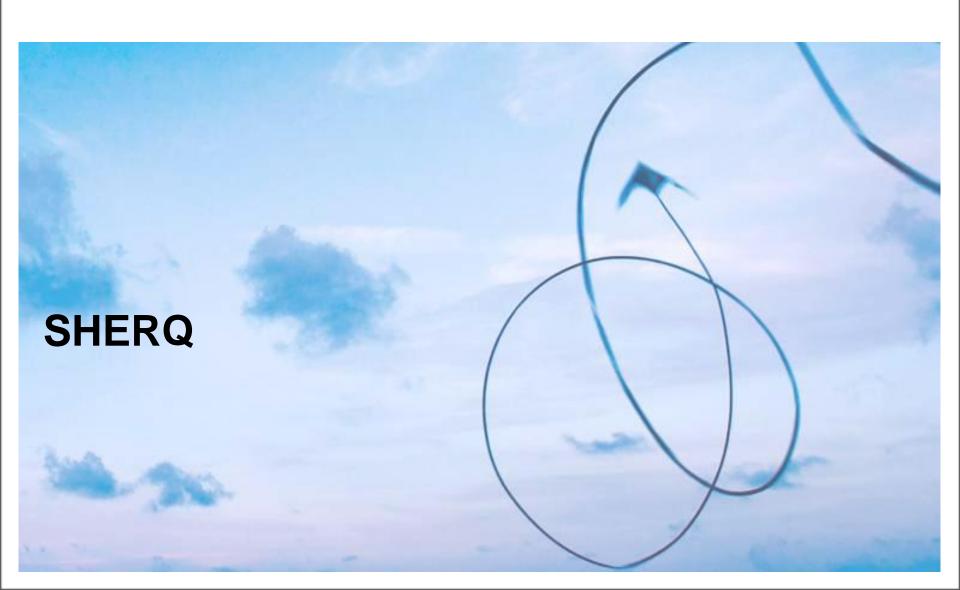


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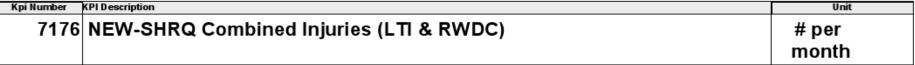


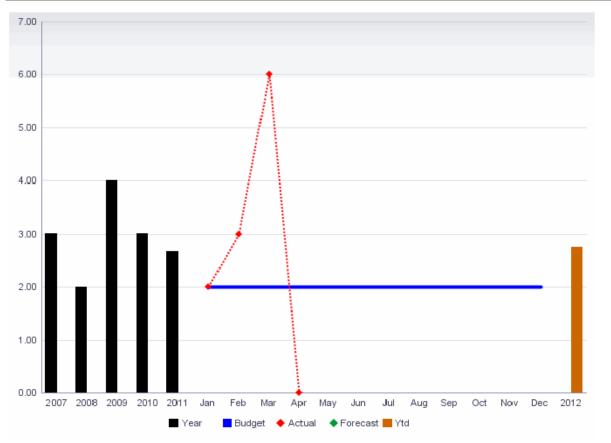


KPI

Monthly Follow-up Chart: 2012

Special Group : NC-All Bonus KPI's - 739





Month	Actual	Forecast	Budget
Jan	2.00		2.00
Feb	3.00		2.00
Mar	6.00		2.00
Apr	0.00		2.00
May			2.00
Jun			2.00
Jul			2.00
Aug			2.00
Sep			2.00
Oct			2.00
Nov			2.00
Dec			2.00

Quarter	Actual	Forecast	Budget
Q1	3.67		2.00
Q2			2.00
Q3			2.00
Q4			2.00

Year	Actual
2007	3.00
2008	2.00
2009	4.00
2010	3.00
2011	2.67
2012	2.75

Month Remark:

Forecast Remark:

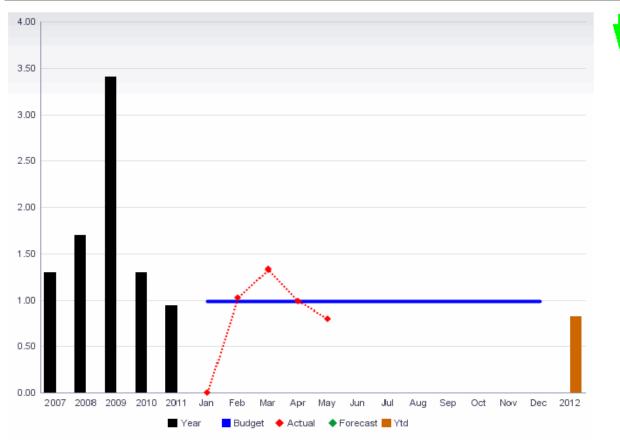
Responsible Person: Gouws, Samantha

KPI

Monthly Follow-up Chart: 2012

Special Group : NC-All Bonus KPI's - 739





Month	Actual	Forecast	Budget
Monui	Actual	rorecast	Buaget
Jan	0.00		0.99
Feb	1.02		0.99
Mar	1.33		0.99
Apr	0.99		0.99
May	0.80		0.99
Jun			0.99
Jul			0.99
Aug			0.99
Sep			0.99
Oct			0.99
Nov			0.99
Dec			0.99

Quarter	Actual	Forecast	Budget
Q1	0.78		0.99
Q2			0.99
Q3			0.99
Q4			0.99

Year	Actual
2007	1.30
2008	1.70
2009	3.40
2010	1.30
2011	0.94
2012	0.83

Month Remark: May

Forecast Remark: May

Responsible Person: Gouws, Samantha

ArcelorMittal

SHRQ

Safety:

- Best ever LTIFR of 0.94 achieved in 2011 and 0.79 YTD.
- Record run of 3.69 million man-hours (126 days) worked without an LTI during 2010.
- •Achieved a Level 5 rating for all ten ArcelorMittal Fatality Prevention Standards during June 2011 (first site in the global ArcelorMittal Group).
- Training resources increased significantly to support Safety Program.
- Completed major Blast Furnace repair project during H2 2011 without a serious injury.

Health & Wellness:

- Risk-based occupational heath surveillance program well established.
- •Employee Wellness Program provides screening and counseling support for a range of lifestyle illnesses.
 - Voluntary HIV Counseling & Testing of employees and contractors.
 - HIV Support
 - Screening, counseling and tracking of BMI, raised cholesterol, hypertension and raised blood glucose.

Occupational Hygiene:

- •Occupational Hygiene monitoring program in place to identify and manage occupational health risks relating to noise, heat, hazardous substances (including dust etc.), illumination, ergonomics and indoor air quality.
- •Identified risks are used as inputs to the occupational health surveillance program.



SHRQ

- Management Systems:
- ISO 9001:2008 certification Quality Management System
- ISO14001:2005 certification Environmental Management System
- OHSAS 18001: 2007 certification Occupational Health & Safety Management System
- Risk Management:
- Comprehensive risk assessment and management process in place.
- Process fully integrated with all other ArcelorMittal South Africa sites.
- External, international risk auditors are used to support the process from the risk identification phase, and where required, right through to the installation of mitigation measures.

Environment



FOCUS POINTS:

- Zero Effluent Discharge (ZED) implementation.
- Water use license amendment
- Closure and capping of historical disposal facility
- · Historical pollution rehabilitation.
- implementation of a Strategy for the containment and treatment of storm water.

HOLISTIC ENVIRONMENTAL MANAGEMENT:

• Development of Air Quality Strategy to strive towards compliance with New Air Quality Act.



Capex spent on Environmental projects to date

Year	Project	Capital
1998 – 2001	Masterplan studies	R16.8m
2001	Old Waste Site cut-off trenches	R3.5m
2003 & 2010	New waste site & phase 2	R49m
2003 - 2008	Water strategy (phases 1 – 4)	R191m
2004 – 2012	Rehabilitation	R33m
2000 – 2010	Air Quality projects	R69.3m
2011 – 2012	Pollution control projects	R6m
2012 onwards	Minimal effluent discharge related projects	R380m
Total to date		R730.6m

Newcastle Works



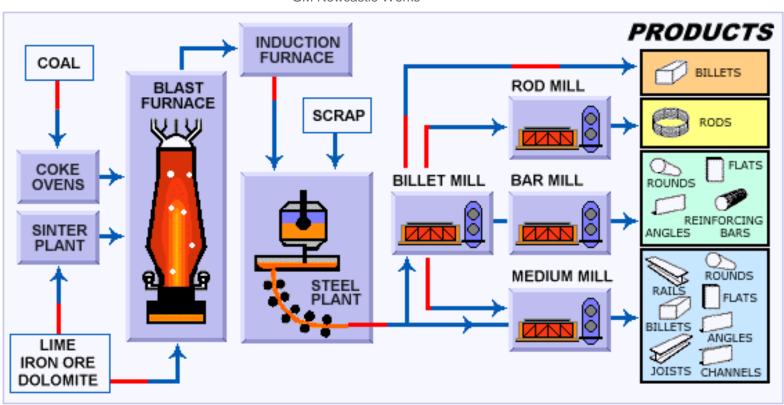


Newcastle Works Production Flow and Equipment





Gerald Gadd GM Newcastle Works

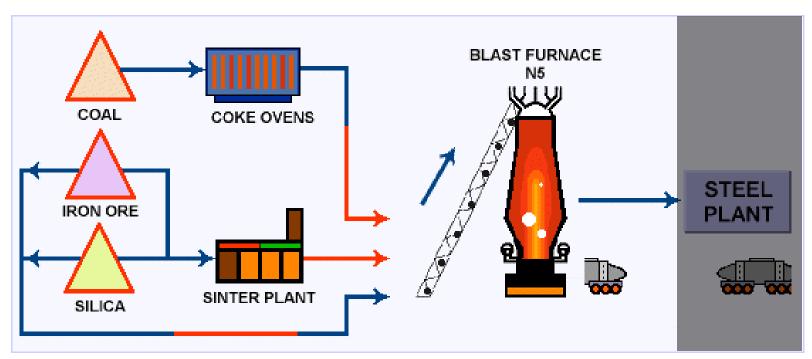


Newcastle Works Metallurgical Operations





Colin Hill
Works Manager: Ops. Metallurgy



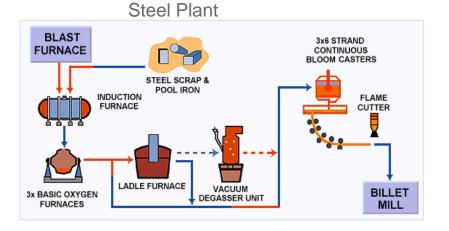
Newcastle Works Rolling Operations

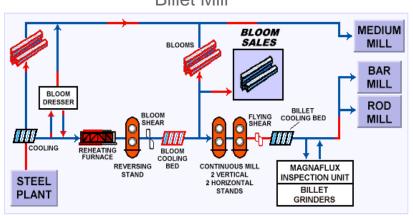


Fanie Conradie Works Manager:

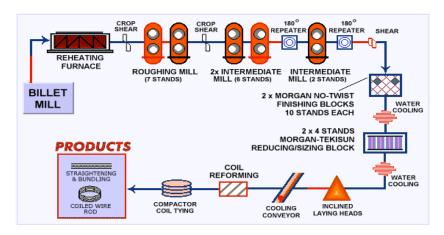








Rod Mill



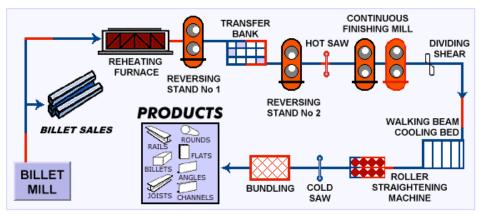
Newcastle Works Rolling Operations



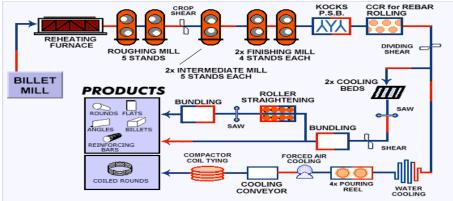


Bruce McQuade Manager Bar & Medium Mill

Medium Mill



Bar Mill







Main Industries



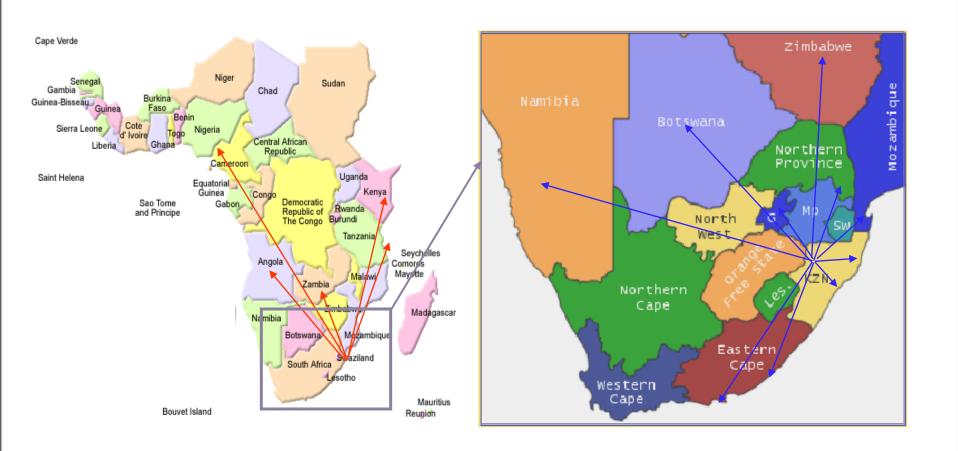
- 1. Reinforcing
- 2. Structural steels
- 3. Rails
- 4. Low Carbon Wire Rod: Commercial wire rod (Fencing, Mesh, Binding Wire)
 - Steelwool
 - Welding wire (MIG, electrodes)

- 5. Grinding Media
- 6. High Carbon Wire Rod: Rope wire rod
 - Bedding wire
 - PC strand
 - Hose wire
 - Bead wire

- 7. Black bar
- 8. Bolt and Nut, Chain making
- Direct Forging (Re-rolling)
- 10. Special Steels: Mine roof support, Hollow drill
- 11. ArcelorMittal South Africa Vereeniging Steel transfers

Market Distribution

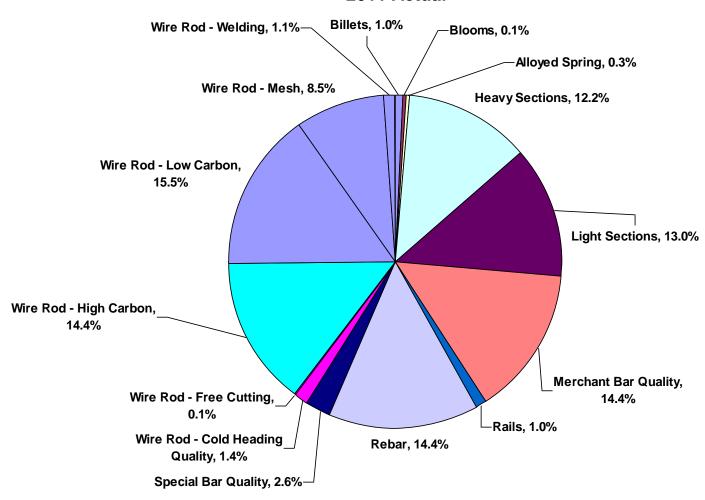




Local Sales per Product Group Newcastle Works

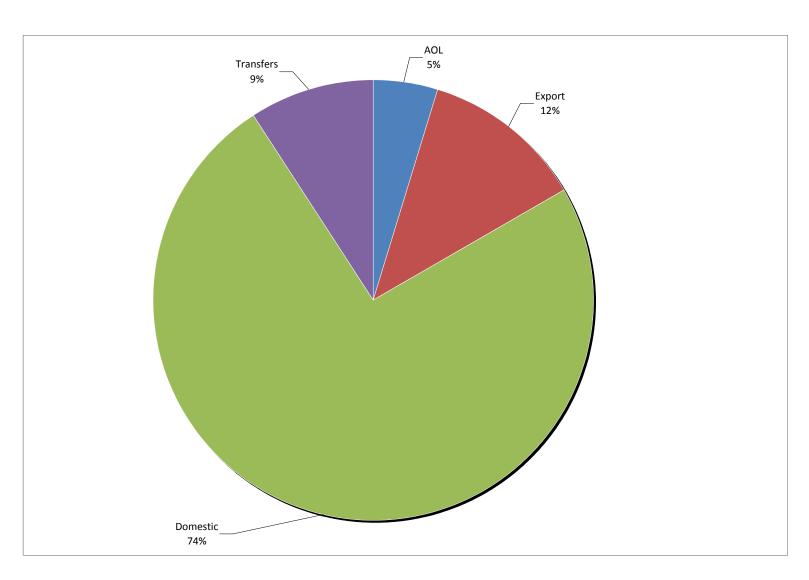


2011 Actual



Despatches per Market - 2011

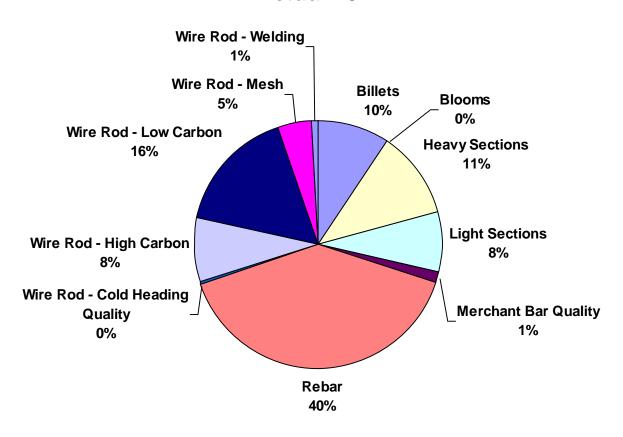




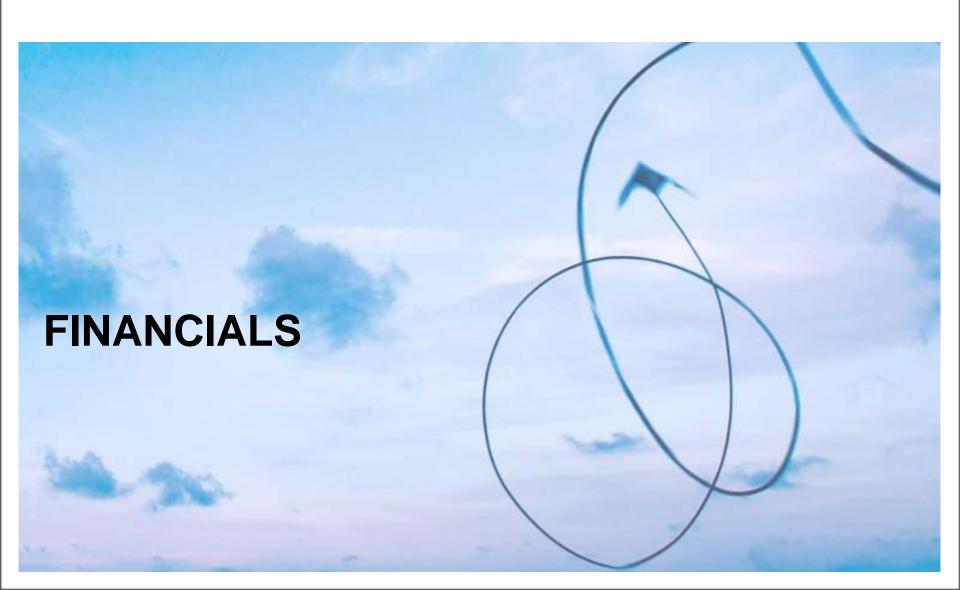
Export Sales per Product Group Prime including Africa Overland



Actual 2011



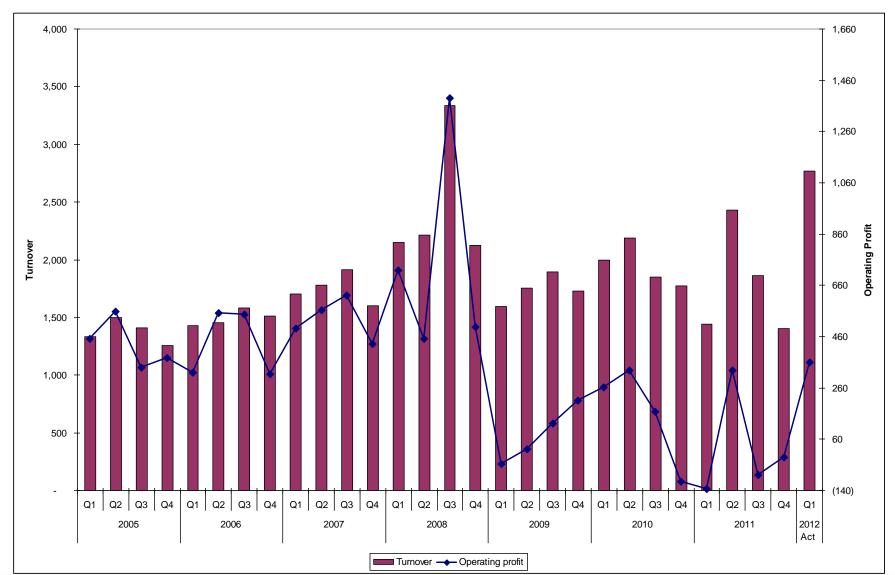




Turnover vs. Operating Profit

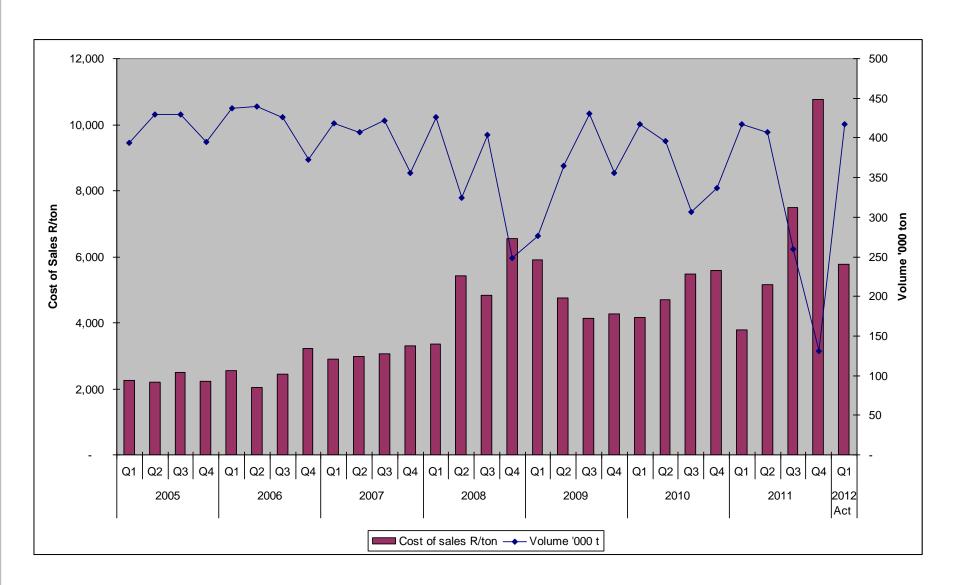


R'mil R'mil



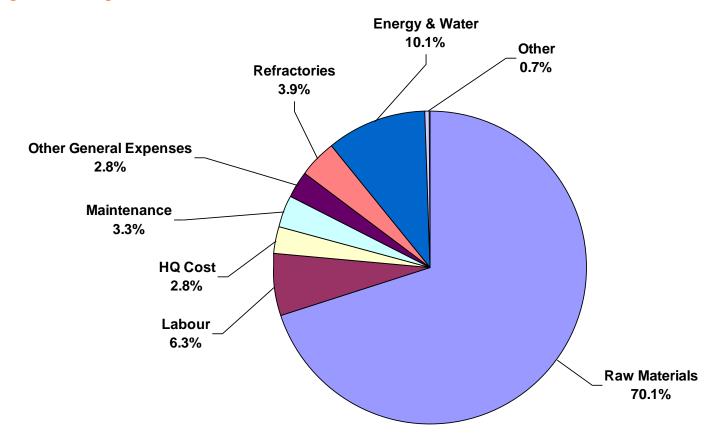
Cost of Sales vs. Volume





Analysis of Cash Cost Allocation (2011)

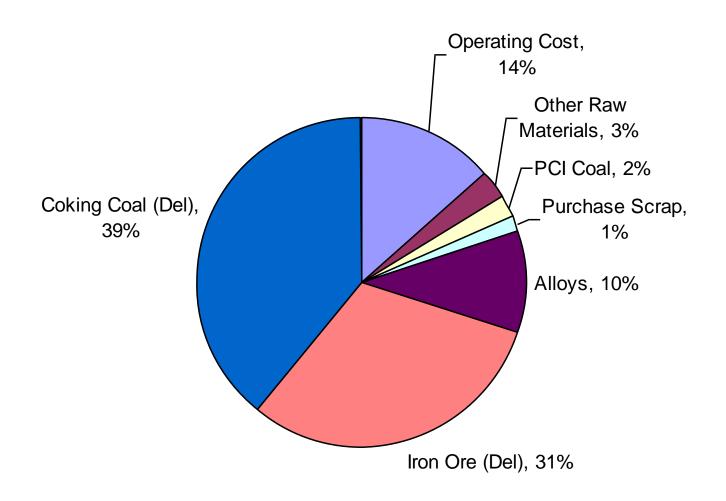




Analysis of Cash Cost Allocation

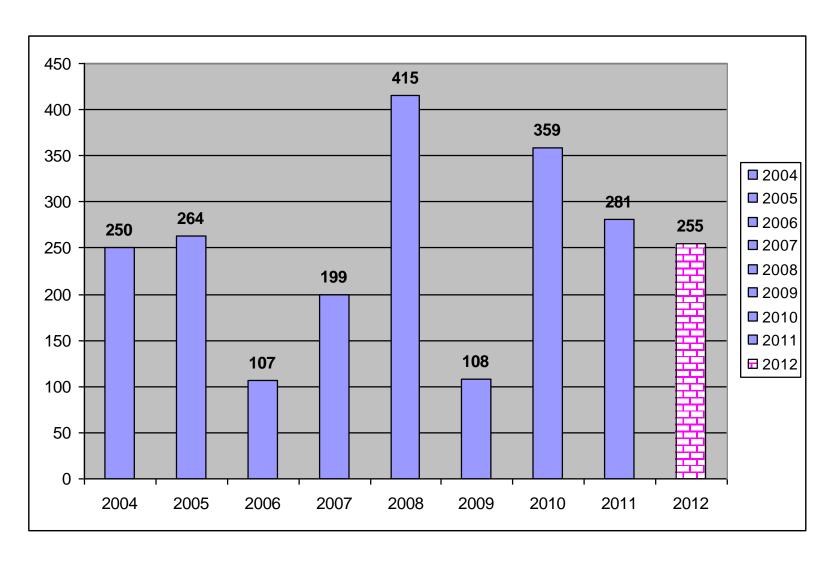
- Variable (2011)





CAPEX - R'mil

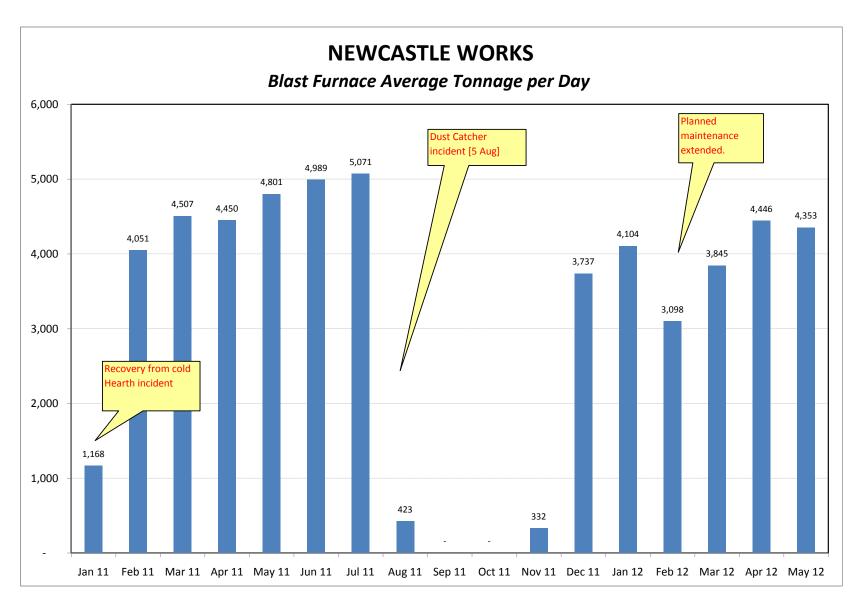












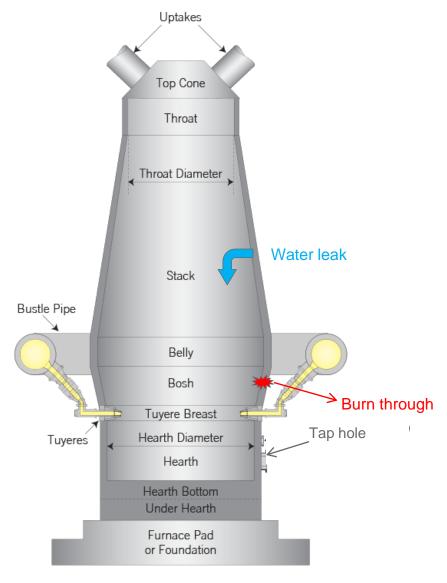
Cold Furnace – Short description



- Closed cooling water leak (identified as a tuyere)
- Stop for Planned Maintenance (51hrs)
 - Found another water leak on inspection hole
 - First time ever to find an inspection hole leaking water
- Unstable burden descent after start-up
- Stop to replace 3 damaged blow-pipes
- Stop to replace 1 blow-pipe
 - While stopping filled 24 blow-pipes with slag
 - Change 18 blowpipes
- After start-up freeze trough #1 skimmer (couldn't lance open)
- Freeze trough #3 skimmer
- Start preparations to Cast on Trough #2
 - All preparations as for cold furnace

Typical Blast Furnace Layout



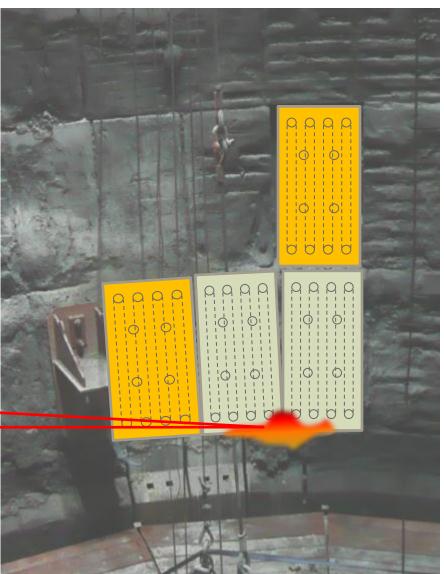


Burn-through 26 Dec ArcelorMittal 4 8 1 Cast Iron Copper Stave Row 6 Stave 26 Stave 25 Stave 27 Stave 24 Stave Row 5 Break-through on shell and Stave body burned away and expansion bellow. Large internal water leaks on adjacent coke particles exited the stave pipes 432 and 433 furnace here **Expansion Bellow** 35 Stave Row 4

Burn-through 26 Dec







Burn-through 26 Dec





Repair Plan **ArcelorMittal** Cast Iron Copper Stave Row 6 ___Sta e 25 Stave 6._ Stave 27 Stave 24 Install 2x Ledge-coolers in series with current Stave Stave Row 5 cooling system Install 1x Cigar-cooler connected to the closed cooling system Replace Shell and expansion Bellow **Expansion Bellow** 38 Stave Row 4

Lessons learnt



- Water leak was not deemed excessive
 - In future the furnace will be restarted immediately after finding water leak.
- Coke burdening to be more aggressive
 - Stay on all coke (no PCI or gas) operation for longer before and after shut downs
- Abnormal failure of blow pipe doors
 - Implement program to do more detailed inspection and replacement of doors
- Modify blower operating procedure
 - Re-evaluate the blower operational point during stopping and starting of furnace.
 - This will ensure a more robust supply of cold blast air.
- All furnace stoppages to be kept as short as possible in duration
 - Especially in the light of the works only having one iron making unit





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Newcastle Works – Blast Furnace Dust Catcher Failure

Event-

•Dust catcher failed on 5 August 2011 while starting up the Blast Furnace after a 39 hour maintenance stop.

New cyclone vessel-

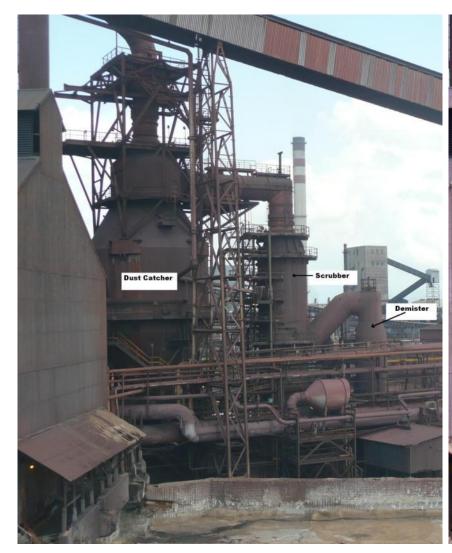
- •By 8 August 2011, we had been sent photos of a cyclone vessel that could be made available to us from within the ArcelorMittal group.
- •By 27 September 2011, the cyclone had been delivered to site in Newcastle.

Plant Stop-

- •The furnace was out of operation for around 3.5 months.
- •The new vessel was successfully installed and commissioned.
- •The Oxyfuel burner was used from 21 to 23 November 2011 and first liquids were cast on 24 November 2011.

Overview of Damage

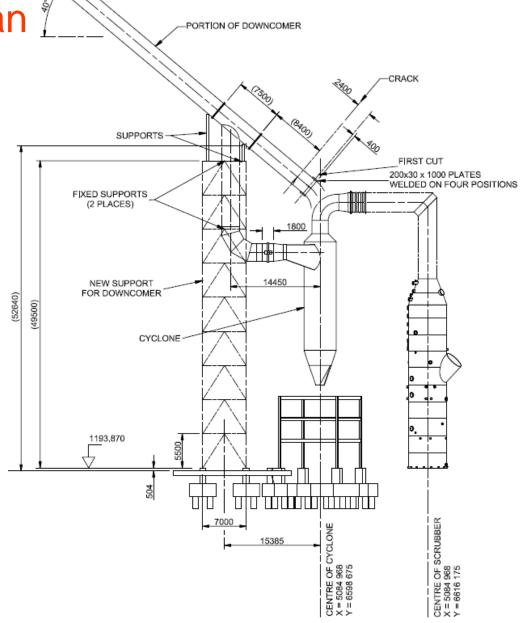






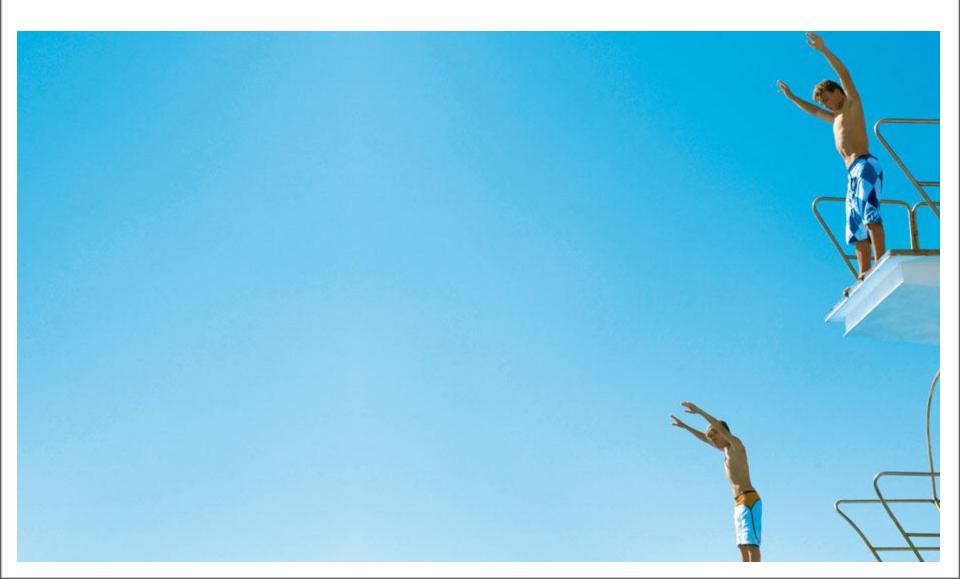








Management Drives



Newcastle Master Plan



									/ 11 CC101/41111 G1				
		2011				2012				2013			
	Work streams		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Method	Impact
1	Cost Savings					Saving Ideas (Fixed, Var., Income) Management Gains						Ideas	EBITDA Gains
2	Management Processes Implement OMI / DRM Implement Supporting Tools Review of all KPIs (Shake Down)			IIIII.	Visual Ma	n, Std Meetings, inagement n and Cedac						PM	P; Q; C; S
3	HR Project •FTEs vs. Costs •FTE Productivity plan					Work Fo		Im	nplementat	ion	,	Own (based on AVA)	Optimum Manning
4	Procurement Focus					Procu	rement and	d Contract	s)			Problem Solving	TCO
5	Safety • FPS • JTZ and OSH Act. requirements			FPS Implementation and maintenance, JTZ									LTIFR; FPS Level
6	Maintenance Implement Improvement Strategy			 		Preparation Phase Implementation Phase							Availability; Stability
7	Capital Projects	BF Reline Energy Strategy									, , , ,		
		1	Environmental Master Plan							(/	(PM	Per Project	



Newcastle Works – Major Projects

Blast Furnace Reline

- •Tenders have been received for a number of long lead items;
- Preparing detail costing and scope to get overall approval;
- •Reline duration planned for 100 days, starting 5 May 2014;
- •Attention is given to the major problem with shortage of skilled resources.

Sinter Plant Reline

- Preparing detail costing and scope to get overall approval;
- •Attention is given to the major problem with shortage of skilled resources.

Steel Making

- •Good progress made with the Hollow Jet project.
- Desulphurization plant being commissioned, many design flaws being addressed.



Newcastle Works – Major Projects

Mills

- •The rolling cycles and stock holding is being adjusted for market conditions.
- •Re-bar straightening capacity is increased to exploit market opportunities.

ZED

- •Delay in Group approval additional information required about the overall coke oven gas cleaning. Application approval now planned for May 2012
- •Reconsidering turn key approach as tenders based on EPCM approach proved expensive.
- •Still aiming to complete by end 2013 but the timeline is tight.



Thank you