

Investor Presentation



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AMG at a Glance

- Preeminent global specialty materials and materials technology company serving growing end-markets
- Advanced Materials Division: Niche and complex specialty materials
- Engineering Systems Division: Advanced vacuum furnace systems for high-purity metals
 - Majority Owned Subsidiaries:
 - **Timminco (52.5%-owned):**⁽¹⁾ Solar grade silicon and silicon metal
 - **Graphit Kropfmühl (79.5%-owned)**: Integrated miner of natural graphite and producer of silicon metal
- **2008 FY Results**: Revenue up 31% to \$1,518 million and EBITDA up 55% to \$185 million

2008 Business Highlights

- Acquired 79.5% of Graphit Kropfmühl
- Established full scale nuclear technology business
 - won contract from Shaw Areva/ U.S. DOE
- Timminco shipped 1,045 mt of Upgraded Metallurgical (UMGSi) solar silicon in 2008
- Cash of \$143 million and debt at \$232 million at Dec 2008
 - Net debt of \$89 million at year end 2008
- Market conditions are challenging in 2009
 - The Advanced Material Division is implementing an 18% reduction in staffing
 - The Engineering Systems Division and GK are also implementing staffing reductions
 - Timminco is renegotiating contracts with Q-Cells and other customers



	AMG Advanced Metallurgical Group N.V.											
	Solar		Energy Efficiency		Recycling		Nuclear		Other		Total Group	
	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007
Revenue	452	213	410	366	167	115	3	-	485	462	1,518	1,156
Gross Margin	117	40	77	67	43	33	1	-	60	62	298	201
Margin %	26%	19%	19%	18%	26%	28%	50%	N/A	12%	13%	20%	17%
	 UMG Sola Silicon Silicon me DSS Vacu furnaces Coatings f application 	tal um or thin film	 Vacuum fu systems fo productior purity met: Master allo Ti industry Natural grave 	r the of high als bys for the	 Ferrovanac Ferro nick molybdenu Vanadium 	el — um	 Vacuum s furnace sy Engineerii processing weapons g plutonium nuclear fu Vacuum s furnace sy 	rstems ng for g of grade n into MOX el intering	 Chromiun Tantalum Antimony Al master 	trioxide		
	 World's largest producer of UMG Si for solar applications 		 Petrol prior growth in metals to fuel econo 	specialty improve	 Secondary model ena unique lov feedstock 	ables w cost	 Acquired 50% of nu venture 	remaining uclear joint	 Portfolio metals ba businesse 	sed		

A focus on global CO₂ reduction technologies and industries



Global Operations



Global presence enables access to key growth markets

- Note: This chart is a simplified depiction of AMG's organisational structure.
- (1) Timminco Limited is listed on the Toronto stock exchange (TIM CN / TIM.TO).
- (2) Graphit Kropfmühl AG ("GK") is listed on the Frankfurt stock exchange (GKRG.DE / GKR GR).



Engineering Systems Division



Focus on CO₂ Technologies and Markets

Solar

- Furnace technology leadership for the production of solar silicon wafers
- Low-cost producer of UMG solar silicon based on proprietary technology
- Producer of silicon metal feedstock used to manufacture polysilicon and coating materials for thin film photovoltaics

Fuel Efficiency

- Proprietary alloys and superalloys for aerospace applications
- Furnace technology for production of titanium and other weightadvantaged alloys

Recycling

- Spent refinery catalyst and power plant residue recycling used to produce ferrovanadium and ferronickelmolybdenum and vanadium alloys
- Long-term contract for spent catalysts supports long term capacity expansion plans

Nuclear

- Sintering furnaces for nuclear fuel and related furnaces for the nuclear fuel cycle
- Furnaces and process technology for pebble bed reactors
- Graphite produced by GK is a critical input for nuclear components

	AMG Advanced Metallurgical Group N.V.											
	Solar		Energy Efficiency		Recycling		Nuclear		Other		Total Group	
	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007
Revenue	452	213	410	366	167	115	3	-	485	462	1,518	1,156
Gross Margin	117	40	77	67	43	33	1	-	60	62	298	201
Margin %	26%	19%	19%	18%	26%	28%	50%	N/A	12%	13%	20%	17%
	 UMG Solar Grade Silicon Silicon metal DSS Vacuum furnaces Coatings for thin film applications 		 systems for production purity me Master allor Ti industry 	 Vacuum furnace Ferrovanadium Vacuum s Ferro nickel – furnace sy molybdenum Engineeri processing weapons g plutonium Natural graphite Vanadium chemicals MoX nuc Vacuum s 		ystems ing for g of grade n into clear fuel sintering	Chromium metalTantalumAntimony trioxideAl master alloys					
	 World's largest producer of UMG Si for solar applications 		 Petrol prior growth in metals to fuel economic 	specialty improve	 Secondary model ena unique lov feedstock 	ables w cost	 Acquired 50% of nu venture 	remaining ıclear joint	 Portfolio metals ba businesse 	sed		

A focus on global CO₂ reduction technologies and industries



Engineering Systems



Q4 2008 Financial Summary

Highlights

- Achieved record revenue and EBITDA during 2008
 - \$435.5 million in revenue, a 40% increase
 - \$95.6 million EBITDA, a 38% increase

Backlog

- \$332 million at December 2008, from \$393 million at September 2008
- Completed the expansion of the Berlin production facility
- Product mix: 80% of Q4 revenues were from DSS furnace systems
- Current environment
 - Reasonable visibility for 2009 revenues despite challenging environment





End Markets Q1 2009

AMG Advanced Metallurgical Group N.V.⁽¹⁾

											T .	1
	Solar		Energy Efficiency		Recycling		Nuclear		Other		Total Group YTD	
Revenue	Q1 09	Q1 08	Q1 09	Q1 08	Q1 09	Q1 08	Q1 09	Q1 08	Q1 09	Q1 08	Q1 09	Q1 08
Gross	97	71	59	100	17	39	2	0	72	117	246	326
Margin	13	19	7	18	(3)	13	1	-	6	17	24	67
Margin %	14%	26%	12%	18%	-15%	34%	36%	N/A	8%	15%	10%	21%
	 UMG So Silicon Silicon m DSS Vac furnaces Coatings application 	etal uum for thin film	 Vacuum f systems f productio purity me VAI alloys Master alle Ti industry Natural gr 	or the on of high etals	 Ferrovana Ferro nick molybdem 	el -	 Vacuum furnace s Engineer processir weapons plutoniun MOX nu Vacuum furnace s 	ystems ing for ng of grade n into clear fuel sintering	ChromiunTantalumAntimonyAl master	y trioxide		
	 World's l producer Si for sol applicati 	r of UMG ar	 Petrol pri growth in metals to fuel econo 	specialty improve	 Secondary model ena unique lo feedstock 	ables w cost	 Acquired 50% of nu venture 	remaining uclear joint	 Portfolio metals ba businesse 			

A focus on global CO2 reduction technologies and industries



Engineering Systems





Highlights

- Revenue increased 2% to \$96 million
 - Solar silicon DSS furnace revenues increased 74% in Q109 as compared to Q108
- EBITDA was up 7% to \$23 million largely due to increase in revenue and the weaker U.S. Dollar
- Backlog declined from \$332 million at December 31 2008 to \$247 at March 31, 2009
 - New orders of solar silicon DSS furnaces declined prompting the decline in backlog
- Reasonable visibility for 2009 revenue and gross margin due to remaining backlog





Solar – DSS furnaces for the production of ingots





Solar - AMG ingot furnaces

Number of Solar Silicon Remelting and DSS Furnaces Produced







Total Reduction in Production Cost (\$ million)





Solar Value Chain



AMG participates in multiple steps in the solar value chain



Solar - AMG ingot furnace





Solar - AMG SCU 400 ingot furnaces





Nuclear - technologies to store waste



Nuclear

AMG's nuclear business utilizes the core vacuum furnace technology for sintering and coating of both nuclear fuel and radioactive waste streams



AMG's nuclear technology is attempting to solve very large critical problems in this growing alternative energy sector



Nuclear – AMG's participation in the value chain





Nuclear technologies for HTR fuel production

AMG can support projects for graphite moderated HTR reactors for power generation and hydrogen production with the following technologies:

- Calcining and sintering of kernels
- Coating of TRISO coated particles
- Molding of fuel spheres
- Molding of monolithic block fuel elements
- Use of corrosion resistant graphite matrix



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Energy Efficiency - Vacuum furnaces

Vacuum Melting and Remelting Systems

- Refine raw materials by removing impurities aerospace, energy
- Refine, treat, and adjust the chemical composition of metals – aerospace, energy, infrastructure

Precision Casting Systems

 Cast high grade metals and nickel based superalloys in a high purity environment – aerospace, infrastructure

Coating Systems

 High-powered electron beam, physical vapour deposition furnace systems to melt, evaporate, and deposit metals and ceramics onto aerospace and industrial gas turbine blades



Advanced Materials Division



Advanced Materials



Global presence enables access to key growth markets

Note: This chart is a simplified depiction of AMG's organisational structure.



Focus on CO₂ Technologies and Markets

Solar

- Furnace technology leadership for the production of solar silicon wafers
- Low-cost producer of UMG solar silicon based on proprietary technology
- Producer of silicon metal feedstock used to manufacture polysilicon and coating materials for thin film photovoltaics

Energy Efficiency

- Proprietary alloys and superalloys for aerospace applications
- Furnace technology for production of titanium and other weight-advantaged alloys

Recycling

- Spent refinery catalyst and power plant residue recycling used to produce ferrovanadium and ferronickel-molybdenum and vanadium alloys
- Long-term contract for spent catalysts supports long term capacity expansion plans

Nuclear

- Sintering furnaces for nuclear fuel and related furnaces for the nuclear fuel cycle
- Furnaces and process technology for pebble bed reactors
- Graphite produced by GK is a critical input for nuclear components



Advanced Materials



Highlights

- Achieved record revenue and EBITDA during 2008
 - \$756.7 million in revenue, a 10% increase
 - \$62.1 million EBITDA, a 13% increase
- EBITDA includes inventory write-downs of \$20 million in Q408
- Ferrovanadium
 - Reference prices decreased 35% during Q4
 - March 2009 reference price is \$10.25/lb
- Grew sales of rotatable zinc oxide targets for solar thin films increased by 322% in 2008 over 2007

Current environment

- Market conditions are extremely challenging
- Reducing headcount
- Reducing all non-essential capital investment





Advanced Materials

Q1 2009 Financial Summary



Highlights

- FeV prices declined 65% and FeV volumes declined 21% year over year impacting both revenue and EBITDA
- Demand remains soft in most markets, most notably steel, superalloys and titanium
- EBITDA includes inventory write-downs of \$6.6 million in Q109
- FTE headcount reduction of 18% from September 30, 2008
- Capital expenditures in Q109 represents completion of projects started in 2008
- Expansion capital has been delayed until market conditions improve





Market Environment



















* Monthly average index prices



Advanced Materials Division - Q1 2009 Highlights





Selling & Administrative USD thousand



Capital Expenditures USD thousand





Quarter Ending Amounts



Q4

Working Capital USD thousand

Q1

Q2

AMG

Q3

Q2

Q3

Q4

Q1

Recycling - Ferrovanadium Business Model Innovation



Innovation drives margin expansion and increase in revenues and earnings



Commercial Uses of Vanadium

Commercial uses of vanadium include:

- Alloys used for micro-alloying in steel to improve properties (~85% of V consumption)
- Aerospace master alloys (~10% of V consumption)
- Chemicals (~5% of V consumption)

Produced from ore, as a co-product of steel slag, refinery spent catalysts, and power plant ashes and residues

Annual World Production ¹ (mt/year)							
Steel	1.4 Billion						
Nickel	1.0 Million						
Molybdenum	180,000						
Vanadium	54,000						



Sources of V Bearing Raw Materials are Limited





Recycling



AMG is the largest recycler of spent oil refinery catalysts and power plant residues to produce ferro



Industry Leading Environmental Solution

100% Recycled Raw Materials

- We only use secondary or waste materials
- V raw materials are hazardous wastes
- 100% secondary aluminum is used as reductant

Industry Leading Process

- No process wastewater
- Lowest discharge of toxic elements to land/air/water
- Highest industry conversion to saleable products

FeV is an Energy Efficient Micro Alloy

- Vanadium alloy steels reduce steel requirements by 20-40%
- Vanadium alloy steels reduce the need for large quantities of other raw materials and energy



Solar - Rotatable targets for TCOs for thin films



Solar - Rotatable targets for CIGS thin films





CIGS ternary target material (patent pending)

(S) can be sulphur, selen or the combination of both

AMG Focus

 Increase the cost reduction for our customers by using rotatable targets and CuInGa-alloys



AZOY® on Copper backing plate


Energy Efficiency - Gamma Ti Aluminides for Aerospace





2000 Rev: \$0.7mn

2008 Rev: \$1.5mn





Energy Efficiency – Specialty Alloys

Master Alloys for the production of titanium and superalloys

- Titanium master alloys (e.g. VAl, MoAl, multinary alloys)
- Master alloys for super alloys (e.g. NiNb, FeNb hp)
- Gamma titanium

Applications:

- Aerospace turbine blades, fuselage, nozzle, etc.
- Satellites skin
- Energy industrial gas turbines
- Energy off-shore-transportation and drilling tubes



Master alloys





Finance



Financial Update 2008

- Full Year 2008 Revenues up 31% to 1,518 million
- Full Year 2008 EBITDA up 55% to \$185 million
 - Adjusted EPS up 17% to \$2.00
- 4th quarter 2008 revenue up 8% over 4th quarter 2007 to \$341 million
- 4th quarter EBITDA decreased 73% to \$8 million
- Cash of \$143 million and debt at \$232 million at year end 2008
 - Net debt of \$89 million at year end 2008





Record Results for 2008





Financial Update Q1 2009

- Q1 Revenues declined 25% to \$246.1 million
 - Excluding Timminco, revenues declined 23% to \$215.7
- Q1 EBITDA down 92% to \$3.3 million
 - Excluding Timminco, EBITDA declined 62% to \$15.9
 - Adjusted EPS was (\$0.50) in Q1 2009 as compared to \$0.82 in Q1 2008
 - Adjusted EPS was (\$0.22) in Q1 2009 excluding Timminco
- Cash of \$122.8 million and debt at \$229.5 million at March 31, 2009
 - Net debt of \$106.7 million at March 31, 2009
 - Excluding Timminco, net debt was \$62.8 million





Results for Q1 2009





EBITDA Overview

Total EBITDA



EBITDA

\$ in millions	Q1 2008	Q1 2009
Operating Profit	\$35.4	(\$13.9)
+ Depreciation / Amortization	5.7	8.0
+ / - FX income (loss)	(1.3)	(0.4)
+ Restructuring and Impairment	0.1	3.8
+ Environmental	-	-
+ Stock Option Expense	2.6	5.7
Adjusted EBITDA	\$42.6	\$3.3
Adjusted EBITDA excluding Timminco	\$41.3	\$15.9

Significant non-recurring items include:

- Timminco restructuring charges
- Inventory write-down to LCM in the amount of \$7.1, which is not adjusted from EBITDA
 - \$6.6 million adjustment to Advanced Materials
 - \$0.5 million adjustment to Engineering Systems



Free Cash Flow Overview



Free Cash Flow \$ in millions Q1 2008 Adjusted EBITDA 42,633

Adjusted EBITDA	42,633	3,263
+ / - Change in working capital	(9,811)	(873)
- Maintenance capital	(1,699)	(3,143)
Free Cash Flow	31,123	(753)
Free Cash Flow excluding Timminco	38,463	9,662

Reduction in free cash flow primarily due to EBITDA decline

- Advanced Materials EBITDA declined but this was more than offset by a working capital reduction of more than \$24 million in the quarter
- Engineering Systems saw an increase in EBITDA but this was offset by an increase in working capital primarily due to a reduction in advance payments



Q1 2009

2 2/2

Cost Savings

AMG headcount by unit





Working Capital

\$ in millions



	METRIC	December 2008	March 2009
Trade and other receivables	days of sales	44	54
Inventories	days of COGS	100	115
Trade and other payables	days of COGS	64	66
Advance Payments	days of sales	34	41
Net Working Capital	days of sales	46	63
Net Working Capital	% of sales	10.4%	16.1%

Note: On a dollar basis, inventories and receivables declined in Q109 by 11% and 12%, respectively



Capital Investment

Q1 Capital Expenditures

\$ in millions \$29.2 \$21.4 Q1 2008 Q1 2009

- Maintenance capital was \$3.1 million in Q1 2009
- All major expansion projects have been curtailed
- Capital spend in Q1 2009 primarily related to completion of projects started in 2008
- Excluding Timminco, capital was \$13.7 and \$8.1 in Q1 2008 and Q1 2009 respectively

Growth Capex Programmes

Major Capital Projects

Project (\$ in millions)	<u>Q1 2009</u>	<u>Q1 2008</u>
Timminco – Solar Silicon Plant & Expansion	\$10.0	\$14.6
Engineering Systems– Mexico heat treatment facility	0.1	6.9
Advanced Materials – Tantalum mine & hydropower expansion	0.7	1.3
Engineering Systems – Berlin modification	0.7	0.4
Advanced Materials - Ferrovanadium expansion	0.4	0.1



Capital Base



- Cash of \$122.8 million at 31 March 2009
- Total debt decreased to \$229.5 million at 31 March 2009
- AMG had a net debt position of \$106.7 million at 31 March 2009 of which \$43.9 million was related to Timminco
 - Net Debt to EBITDA (based on LTM) of less than 1.0x



2009 Outlook

Advanced Materials	 Global demand is significantly affected by current market slowdown Ferrovanadium prices and demand have decreased due to slowing demand for North American structural steel Chromium metal, aluminum master alloys, Titanium master alloy volumes are being materially affected by global slowdown Focus on working capital reduction due to price and volume decreases
Engineering Systems	 Global demand decreasing due to economic uncertainty \$247 million backlog as of 31 March; order intake environment is challenging Berlin production facility being adapted to produce multiple furnace types Margins remains relatively steady 2009 margin levels may be impacted by declining economies of scale
Timminco	 Upgraded Metallurgical Silicon capacity expansion on hold; orders significantly below contracted levels Seven lines have been installed as of February 2009 UMGSi operations being improved to increase quality and reduce costs Ingot process is proceeding; goal of reducing UMGSi processing costs Silicon metal production is temporarily shutdown in Q2 2009



Appendix



Consolidated Balance Sheet

\$ in thousands	December 31, 2008	March 31, 2009
Fixed Assets	313,470	320,947
Goodwill and Intangibles	47,060	47,421
Other non-current assets	74,514	74,853
Inventories	318,793	283,371
Receivables	173,422	153,219
Other current assets	59,292	47,228
Cash	<u>143,473</u>	<u>122,773</u>
TOTAL ASSETS	<u>1,130,024</u>	<u>1,049,812</u>
TOTAL EQUITY	311,811	303,353
Long-term Debt	138,990	145,021
Pension Liabilities	103,176	100,302
Other long-term liabilities	81,920	77,919
Current Debt	93,043	84,500
Accounts Payable	156,696	121,613
Advance Payments	94,049	74,637
Unearned Revenue	35,624	36,177
Accruals	53,882	40,558
Other current liabilities	60,833	65,792
TOTAL LIABILITIES	<u>818,213</u>	746,458
		4 0 40 0 40

TOTAL LIABILITIES AND EQUITY

1,130,024

1,049,812

•Inventory decline due to working capital management strategies in all segments of business

and write-downs in excess of \$7.1 million

•Receivables decline due to lower sales in Q1 09

•Accounts payable declined due to held payments at year-end

•Advance payments declined due to lower order intake at ALD in Q1



Consolidated Income Statement

\$ in thousands	Q1 2008	Q1 2009
Total Revenue	326,148	246,095
Cost of Goods Sold	258,938	221,962
Gross Margin	67,210	24,134
Selling, General and Admin.	32,969	35,894
Asset impairment and restructuring	128	3,779
Environmental	84	111
Other Expense (Income)	(1,379)	(1,691)
Operating Profit	35,408	(13,959)
Net Finance Costs	3,298	4,948
Equity Accounted Investee Profit	101	(787)
Profit before Income taxes	32,211	(19,694)
Tax Provision	(8,680)	4,039
Profit for the Quarter	23,531	(23,733)
Attributable to: Shareholders of the Company Minority Interest	22,509 1,022	(15,394) (8,339)

•Cost of goods sold includes over \$7.1 million in inventory write-downs

•Timminco production issues negatively impacted gross margin

•SG&A higher due to share-based payment expense which was \$3.2 million higher in Q109 than in Q108

•Restructuring charge recorded at Timminco for closure of Aurora facility

•Finance charges increased due to increased debt at Timminco

•Tax provision booked due to losses occurring in jurisdictions where tax benefits cannot be booked



Consolidated Cash Flows

\$ in thousands	Q1 2008	Q1 2009
Cash Flows from Operations	30,352	(1,062)
Capital Expenditures	(29,223)	(21,430)
Other Investing Activities	(3,831)	(5,001)
Cash Flows from Investing Activities	(33,054)	(26,431)
Cash Flows from Financing Activities	25,951	12,918
Net increase (decrease) in cash	23,249	(14,575)
Beginning Cash	172,558	143,473
Effects of exchange rates on cash	6,895	(6,125)
Ending Cash	202,702	122,773
Approximate availability under AMG lines of credit	64,000	71,000
Total Liquidity	266,702	193,773





AMG Advanced Metallurgical Group N.V.

