



PV Crystalox Solar

2009 Preliminary Results

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FY 2009 Overview



Resilient performance despite challenging trading conditions

Market Overview

- Oversupply in all parts of the value chain led to strong downwards pressure on prices
 - 2009 module installations at 6.43GW up 6% from 2008
 - Global module prices fell 40% during 2009
 - More positive outlook for 2010

Key Metrics

- Wafer shipments
 - Volume up 4% to 239MW (2008: 230MW)
 - Average pricing down 17% to €0.99/W (2008: €1.19/W)
- Revenues and EBIT in line with expectations
- Margins impacted
 - Positive: Cost reductions and yield improvements
 - Negative: Pricing pressure, Bitterfeld start up costs and negative currency impact
- Bitterfeld polysilicon production commenced
- Market dynamics and contracted volumes support expansion of production facilities





Financial Highlights



- Revenues of €237.3m (2008: €274.1m)
- EBIT excluding currency impact and Bitterfeld costs was €67.4m (2008: €106.5 m)
 - Currency loss of €8.3m
 - Bitterfeld costs of €17.4m (net loss)
- Reported EBIT €41.7m (2008: €142.8m)
- Free cash flow of €3.3 million (2008: €22.9m)
- Net cash of €70.2m at 31 December 2009 (31 Dec 2008: €81.1m)
- Final dividend of €0.02 per share (2008: €0.04)

Financial Highlights



(€000)	H1 2009	H2 2009	31-Dec-09	31-Dec-08	Change
Total Revenues	121,594	115,726	237,320	274,095	-13.4%
EBIT*	41,839	25,597	67,436	106,466	-36.7%
Currency (loss)/gain	-13,694	5,397	-8,297	36,315	-122.8%
Bitterfeld costs	-6,609	-10,790	-17,399		-
EBIT	21,536	20,204	41,740	142,781	-70.8%
Earnings	16,396	13,163	29,559	103,194	-71.4%
Earnings per share (euro cents)	4.0	3.2	7.2	25.2	-71.4%
Cash flow from operating activities	8,618	-5,098	3,521	107,828	-96.7%
Net Cash balance	77,508	70,150	70,150	81,117	-13.5%

* Excluding currency impact and Bitterfeld

Key financial – Summary Income Statement



Income statement (€000) Year to 31 December 2009				
(€000)	31-Dec-09	31-Dec-08	Change	
Total Revenues	237,320	274,095	-13.4%	
EBIT exc Bitterfeld and currency impact	67,436	106,466	-36.7%	
Bitterfeld loss	-17,399	N - N	-	
EBIT excluding currency (losses)/gains	50,037	106,466	-53.0%	
Currency (losses)/gains	-8,297	36,315	-122.8%	
Earnings Before Interest & Tax (EBIT)	41,740	142,781	-70.8%	
Net interest income	776	4,442	-82.5%	
Earnings before taxation	42,516	147,223	-71.1%	
Taxation	-12,957	-44,029	-7 0.6 %	
NET INCOME	29,559	103,194	-71.4%	
Basic Earnings per share (Euro cents)	7.2	25.1	-71.3%	

Summary consolidated balance sheet



<u>(€m)</u>	31-Dec-09	31-Dec-08	31-Dec-07
Current Assets	216.1	234.3	243.9
Non-current Assets	151.5	139.6	42.4
Total Assets	367.6	373.9	286.3
Current Liabilities	67.0	86.3	77.6
Non-current Liabilities	40.5	42.9	17.2
Share Cap & Non-dist Reserves	80.7	79.7	78.7
Profit & Loss Reserves	179.4	165.0	112.8
Total Liabilities and Shareholder Equity	367.6	373.9	286.3

Summary cash flow & net cash/(debt) analysis



(€m)	31-Dec-09	31-Dec-08	31-Dec-07
Adjusted earnings before tax	45.3	143.0	71.4
Tax paid	-40.4	-32.7	-21.4
Changes in working capital	-2.8	7.6	11.6
Net cash from investing activities	1.2	-79.8	-25.6
Free cash flow*	3.3	22.9	36.0
Loans	15.1	-27.5	-13.4
Dividends/IPO proceeds etc	-24.6	-18.4	71.2
Net interest	0.8	4.4	3.3
Effect of foreign exchange	8.9	-32.4	-10.7
Net cash flows from financing activities	0.3	-73.9	-50.3
Net change in cash in period	3.6	-51.1	86.4
Cash and equivalents, start of year	96.8	147.9	61.5
Cash and equivalents, end of period	100.4	96.8	147.9
Group loans	-30.3	-15.7	-39.6
Cash / (net debt)	70.2	81.1	108.3

* Free cash flow defined as net cash from operating activities less cash used in investing less interest received

Currency (Loss)/Gains



(€m)	31-Dec-09	31-Dec-08
Revaluation of cash balances	-2.7	16.9
Revaluation of Group loans	-1.3	11.3
Revaluation of Group advances	-1.9	
Debtor/creditor revaluation	-2.8	0.4
Revaluation of suppliers/customers deposits	-0.4	7.7
Total currency (loss)/gain	-8.3	36.3

Drivers of EPS



euro cents	H1 2009	H2 2009	31-Dec-09	31-Dec-08
Performance	10.2	6.2	16.4	26.0
Currency (loss)/gain	-3.4	1.4	2.0	8.9
Bitterfeld Start-up	-1.6	-2.6	-4.2	
Net Finance Costs	0.2	0.0	0.2	1.1
Taxation	-1.4	-1.8	-3.2	-10.8
EPS (Basic)	4.0	3.2	7.2	25.2
EPS (Adjusted for currency and Bitterfeld)	7.5	4.0	8.7	16.3
Basic shares average (000s)	409,637	409,637	409,637	409,637





Operational Review



- Sales volumes up by 4% to 239MW
 - Strong growth in H2
- Strong pressure on average wafer price
 - H1 €1.22/W
 - H2 €0.83/W
- Strengthening of Japanese Yen
 - Impact on pricing and costs
- Focus on major PV companies
 - 86% of revenues to customers in Japan, Germany and China
 - Our top 5 customers accounted for 80% of sales
- Ingot production capacity now at 400MW
 - Adjusted for improved yields
- Polysilicon manufacturing facility in Bitterfeld
 - Production commenced in July 2009
 - Quality targets reached in August
 - On track for 1800MT in 2011

Competitive Position



Polysilicon supply

- Average contract price €37/kg
- Bitterfeld fully loaded target price €39/kg in 2010 and €27/kg in 2011

Long standing relationships with major PV companies

• They have global reach to access markets as they develop

Internal ingot production technology

• Lower capital cost

Well positioned on cost

- Yields enhanced across production chain
- Improved procurement of crucibles, wire, slurry etc
- 10–15% reduction in wafer production cost expected in 2010











- Fully-functioning fence-to-fence operation established with Evonik: Highpurity chlorosilanes delivered and HCI sent back by pipeline.
- High capacity utilization established for chlorosilanes and process gases distillation and separation.
- Key equipment for conversion of SiCl₄ to SiHCl₃ works well and meets targets for conversion rate and energy consumption.
- High safety record of plant operation established.





- Stable silicon deposition process established that meets design parameters for deposition rate, energy consumption and purity. Continuous process optimization is carried out.
- Average of 65 MT per month produced in the first two month 2010, expected to more than double by end of the year.
- 1800 MT target for 2011 remains unchanged
- High quality of silicon established with our customers. Wafers produced from Bitterfeld silicon performed as well as wafers from high-purity standard material
- Our target fully loaded production cost for 2011 remains at €26-27/kg





Global PV Market 2009



- H1 characterised by global economic downturn and financial crisis with reduced customer demand for small PV roof-top systems and difficulties in financing large scale (multi-MW) systems
- H2 saw large surge in installations especially in Germany stimulated by lower pricing and in anticipation of reduction in FIT scheduled for January 2010
- Estimates for installed systems world-wide for 2009 are 6.43GW according to Solarbuzz up 6% from 2008
- Lower demand and increased production capacities in all steps of the value chain resulted in strong pressure on PV-system prices

2009 PV Installations Germany



Germany: PV installations in 2009 Megawatts (MW)



Source: Jan–November.: German Electricity Regulator(Bundesnetzavgentur) December: estimate

2009 Global PV Installations



Photovoltaic market in 2009 – 6.43GW



SOURCE: Solarbuzz, a division of the NPD Group



Source: EPIA

Growth in the long term





Substantial growth potential for solar electricity

Global annual photovoltaic new installations (GW)

2006–12E



Source: EPIA (European Photovoltaic Industry Association), 2010

Political commitment to sustain further growth in solar electricity

Governments have put in place subsidy schemes to promote photovoltaic electricity development



pv crystalox



Strategy – cost leadership + production flexibility



- Operate new Bitterfeld polysilicon plant at full capacity
- Enhance relationships with existing customers
 - Retain flexibility of wafer production by using sites in the major world markets
 - Utilising our ability to rapidly address changes in customer needs
- Focus on further development of the leading crystalline silicon processing technology
 - Working with customers to increase product quality and develop next generation of wafer technology
- Continued focus on operating cost reduction

Strengthen position as a leading pure-play solar wafer manufacturer





Outlook



Stronger demand environment in H1 2010

- Expected shipment volumes in the range of 145-155 MW
- Pricing pressure continuing-expected ASP range of €0.67-€0.70/W
- Well positioned in Germany and Japan-set to be largest markets in 2010
 - Germany Strong growth in H1 prior to cut in FIT in H2, market size 3-5GW
 - Japan expected to double to 1GW
- Continued focus on cost reduction
 - Bitterfeld progressing to plan with fully loaded production costs expected to be broadly in-line with spot market levels by 2010
 - 10-15% wafer cost reduction expected through higher wafer yields and lower wafering costs
- Expansion of ingot production capacity to meet increased market demand
 - 70MW capacity to be added to start production in H1 2011
- Mid-term market drivers remain positive
 - PV market to show minimum 2.5x growth by 2014 (source: Solarbuzz)
 - Encouraging growth prospects in Japan, US, Italy and UK
 - Moving towards grid parity

Summary



- **Resilient performance in difficult market in 2009**
 - Successfully managed volatility
- Robust cash position
- Experiencing stronger demand in H1
- Well positioned for the medium term and beyond:
 - Solid fundamentals
 - Strong balance sheet
 - Flexible and competitive manufacturing costs
 - Longstanding customer base

