SMART SOLUTIONS TO DRIVE THE FUTURE

SINGULUS TECHNOLOGIES AG

November 2009

Agenda

Overview

Financials

Optical Disc

Solar

Milestones
SINGULUS TECHNOLOGIES

- 1995 Start of SINGULUS TECHNOLOGIES AG
- 1996 Introduction of CD Inline systems in Optical Disc industry
- 1997 Introduction of DVD inline replication system
- 2001/2002 Acquisition of injection molding and 1st mastering
- 2004 2nd Mastering acquisition
- 2006 Take over of majority share in largest competitor HamaTech
- 2007 Acquisition of STANGL to enter the Solar Equipment market
  First revenues in Blu-ray replication lines
- 2008 Acquisition of Blu-ray business from Oerlikon
- 2009 First shipments of BLULINE II to Japan and Brazil

  4x Recordable Blu-ray Disc produced on SINGULUS BLULINE obtained the Verification by the Blu-ray Disc Association.

  First shipment of SINGULAR for Solar Cell - AR Coating

  First shipment of LINEA Wet Cleaning System for Solar Cell

Key Takeaways

- Global economic environment in 2009 will postpone the return to business growth into 2010
- Evident growth potential in Optical Disc markets for Blu-ray
- Evident growth potential in Photovoltaic markets for Silicon cells and Thin Film cells
- SINGULUS and STANGL will jointly develop and supply systems and processes for solar cell production
  - Silicon cells
  - Thin Film cells

Targets of SINGULUS TECHNOLOGIES

Mid-Term Goals Optical Disc

- Leading Optical Disc equipment manufacturer worldwide
- Overcome entrance barrier into Sony
- Follow Blu-ray development up to 100 Gbyte (R & D activities for 1000 Gbyte)

Mid-Term Goals Solar

- Leading supplier of production equipment for silicon and thin film cells
- Enabler of mass production of new cell designs and manufacturing processes by lower cost of ownership and capital expenditures
- Innovative approach to reach “grid parity” as fast as possible
- Global presence in all relevant markets

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Additional Consolidation Measures

No Cash impact

All positions in the company have been reviewed in detail and necessary adjustments and write-offs have been made in Q3/2009:

- The difficult situation in the optical disc sector has increasingly deteriorated due to the global economic and financial crisis.
- Restrained investment spending in the past twelve months, combined with declined creditworthiness of individual customers
- Negative impacts on the valuation of our receivables and inventories.
- All assets were analyzed with respect to an impairment review in the course of a fair value assessment.
    - The assets of HamaTech APE have been reduced in the balance sheet due to a revaluation of the business activities.
    - The intangible assets from the Oerlikon acquisition in 2008 have been written off by around 50 %.

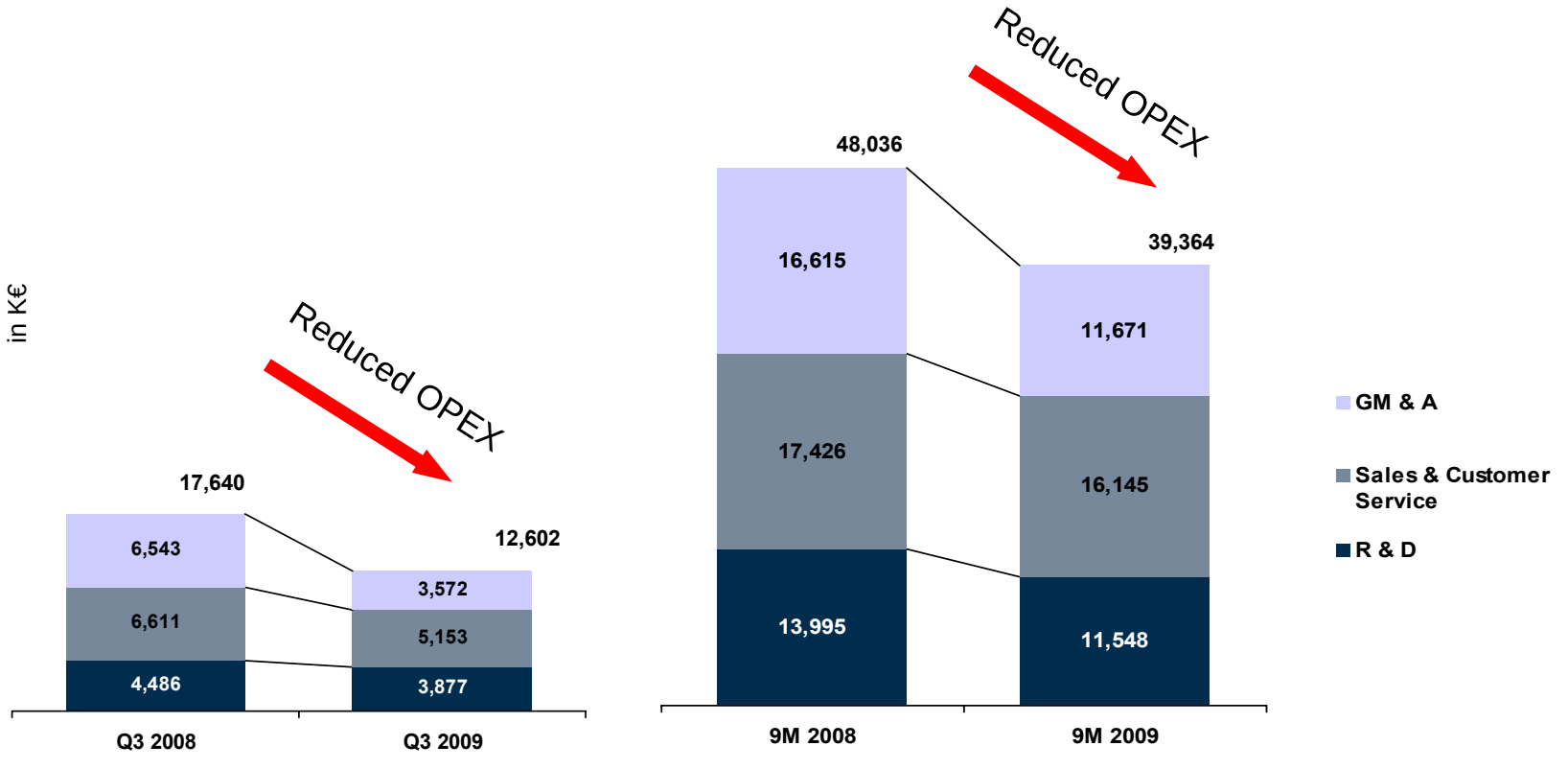
One Time Write-Offs

No Cash impact

One time write-offs:

• HamaTech APE	€ 8.6 million
• Oerlikon Blu-ray	€ 9.5 million
• Account receivables	€ 7.5 million
• Inventories	€ 11.8 million
Total	€ 37.4 million

Restructuring Effects with Positive Impact for the Future



Employees

	Q3/2008	Q3/2009	Δ
HamaTech APE	105	77	-28
STANGL	159	175	+16
SINGULUS	500	381	-119
SINGULUS Group	764	633	-131
Domestic	497	461	-36
Abroad	267	172	-95

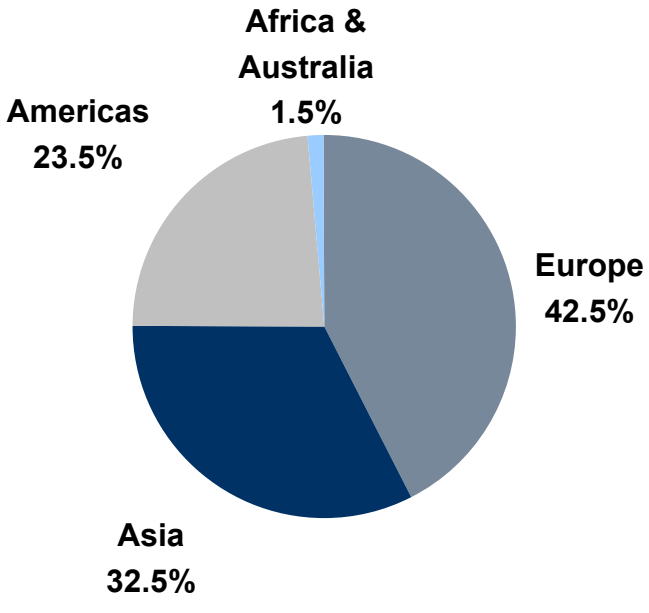
Key Figures – 9 Months

in million €	2007	2008	2009
Gross Revenue	170.2	149.9	95.9
Order Intake	167.6	197.5	56.0
Order Backlog (30.09.)	78.9	103.4	30.3
EBIT	0.8	-40.7*	-53.3*
Profit Before Tax	1.2	-44.2	-57.8
Net Income	1.2	-39.5	-55.4
Operating-Cashflow	23.6	0.2	-1.7
Shareholders' Equity	293.5	253.8	188.7
Balance Sheet Total	460.6	453.3	335.9
R&D Expenditures	17.6	15.6	8.0
Employees (30.09.)	762	764	633
Weighted Average Shares Basic	34,964,201	36,946,407	37,232,752
EPS, Basic (in €)	0.00	-1.11	-1.49

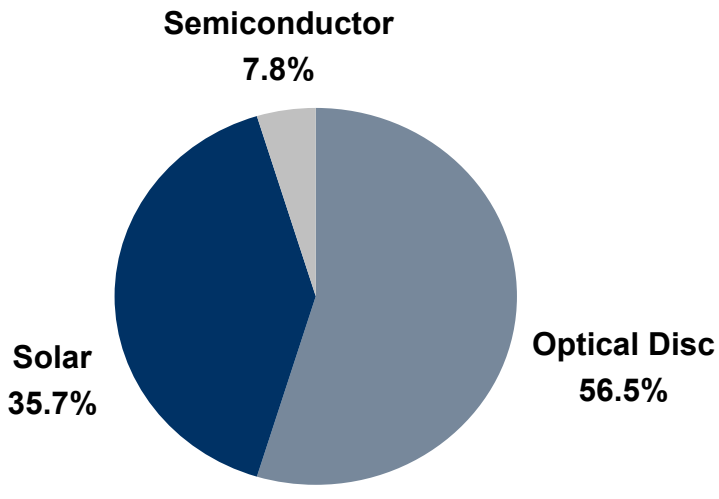
* The EBIT before the consideration of restructuring charges in the first 9 months of 2009 was negative at € -13.9 million (previous year: € -11.7 million)

Sales Split – 9 Months

… by Region 2009



… by Product



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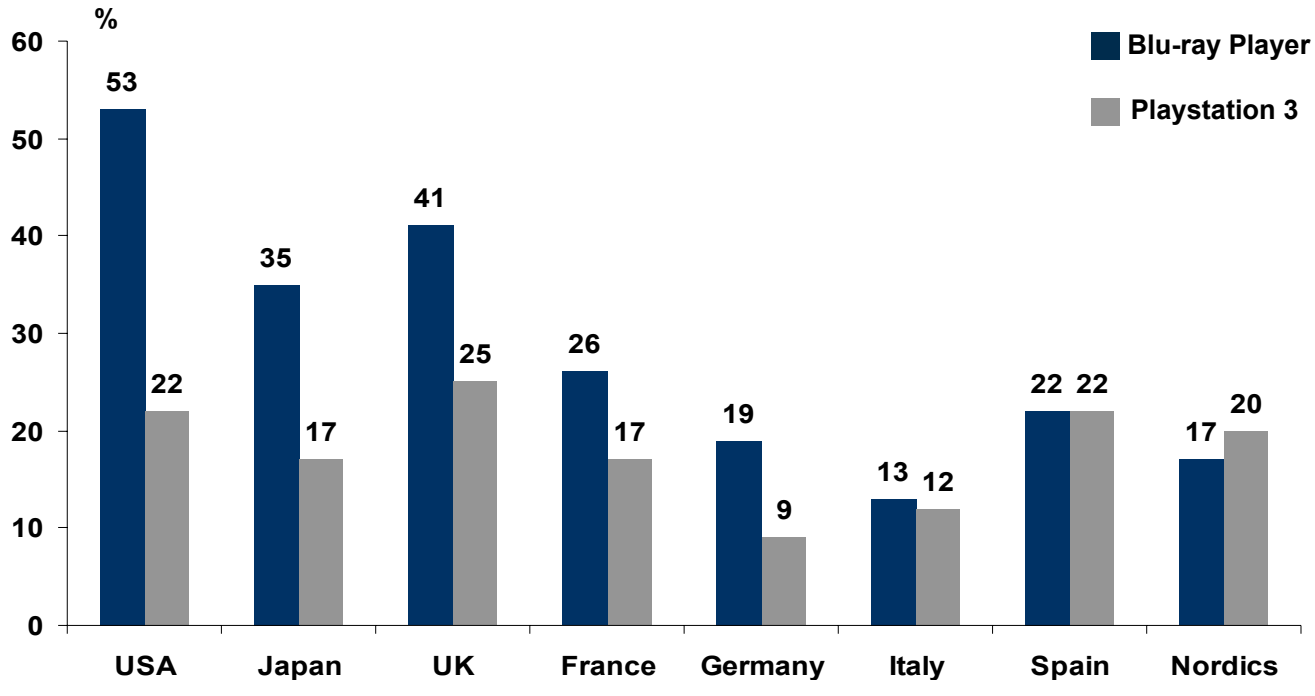
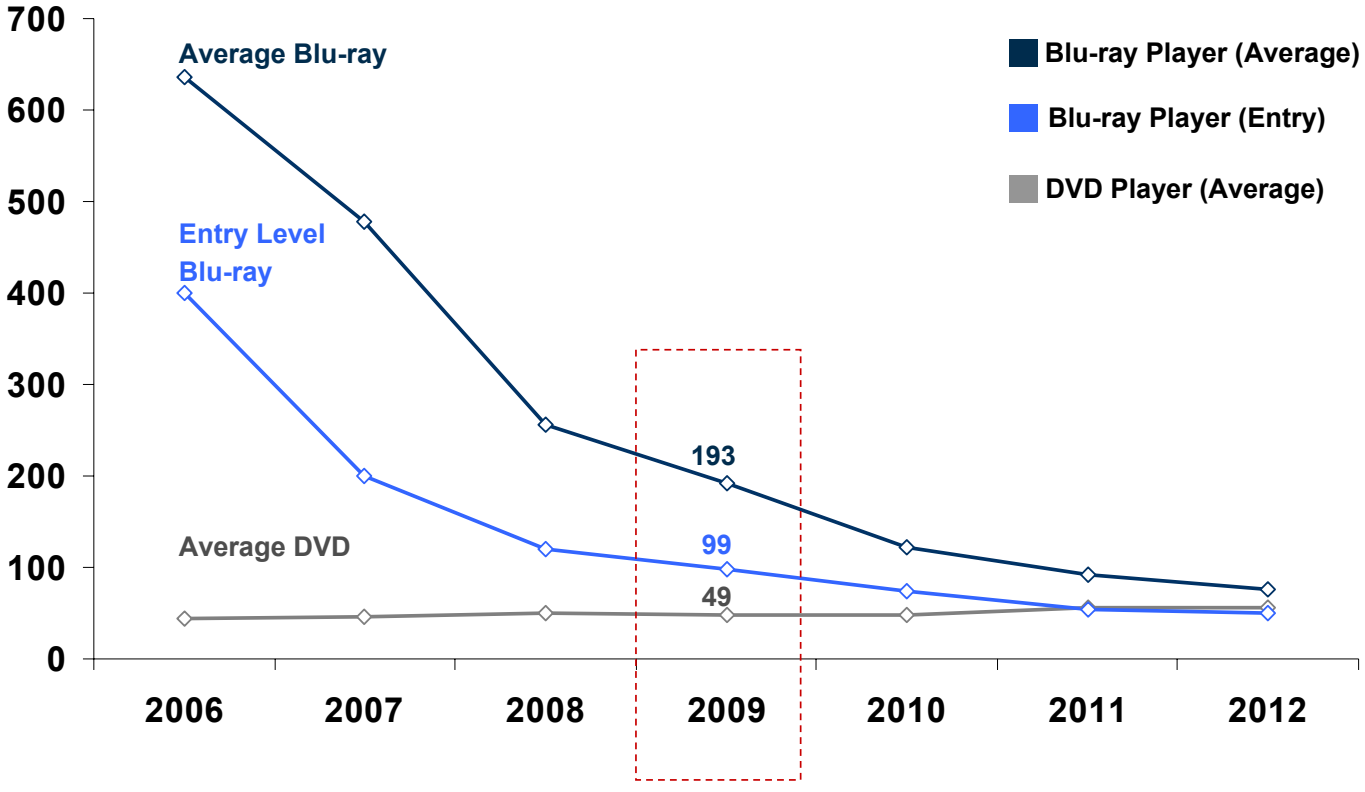
Optical Disc: Expected Household Penetration by Blu-ray Players 2012



Source: Futuresource Consulting, July 2009

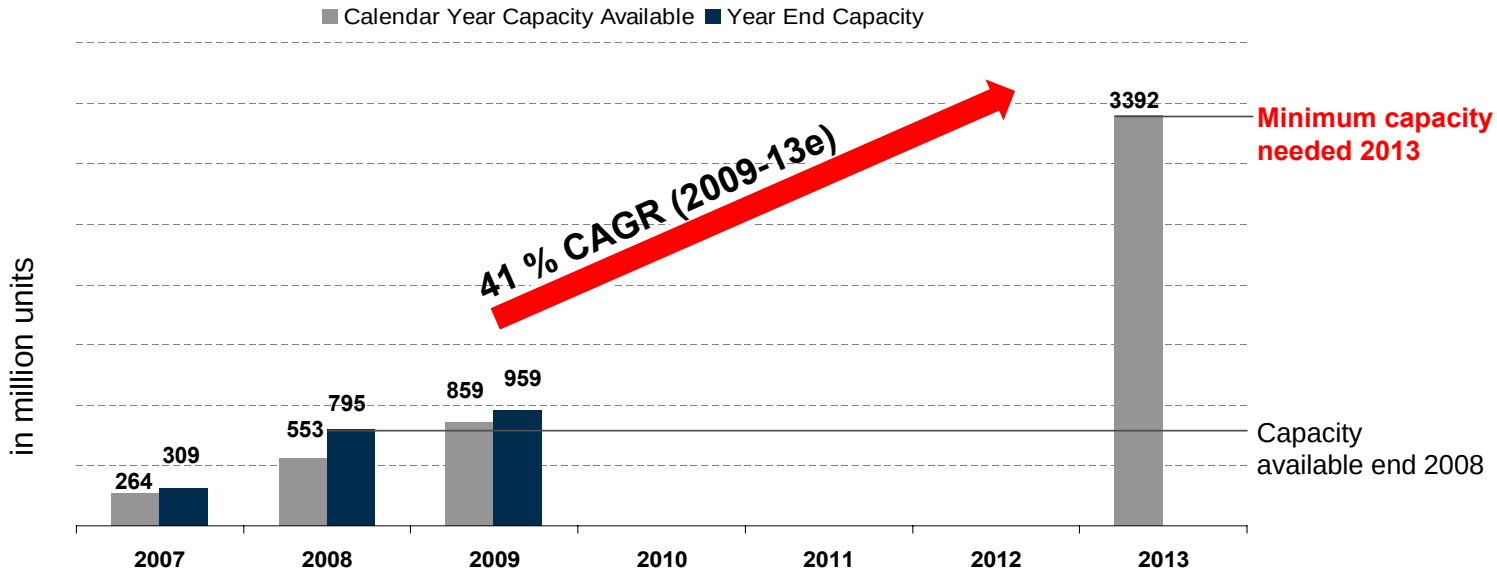
Optical Disc: Hardware Prices USA

Retail prices (USD)



Source: Futuresource Consulting, July 2009

Optical Disc: Minimum Future BD Pressing Capacity Requirements Worldwide



Source: Futuresource Consulting 2009

Optical Disc:
Mastering System CRYSTALLINE for Blu-ray

High Margin Product

- Unique Phase Change Technology
- No competitor (except Sony)
- Accepted for Blu-ray Single & Dual Layer

CRYSTALLINE

Optical Disc: Replication System BLULINE II for Blu-ray Single and Dual Layer

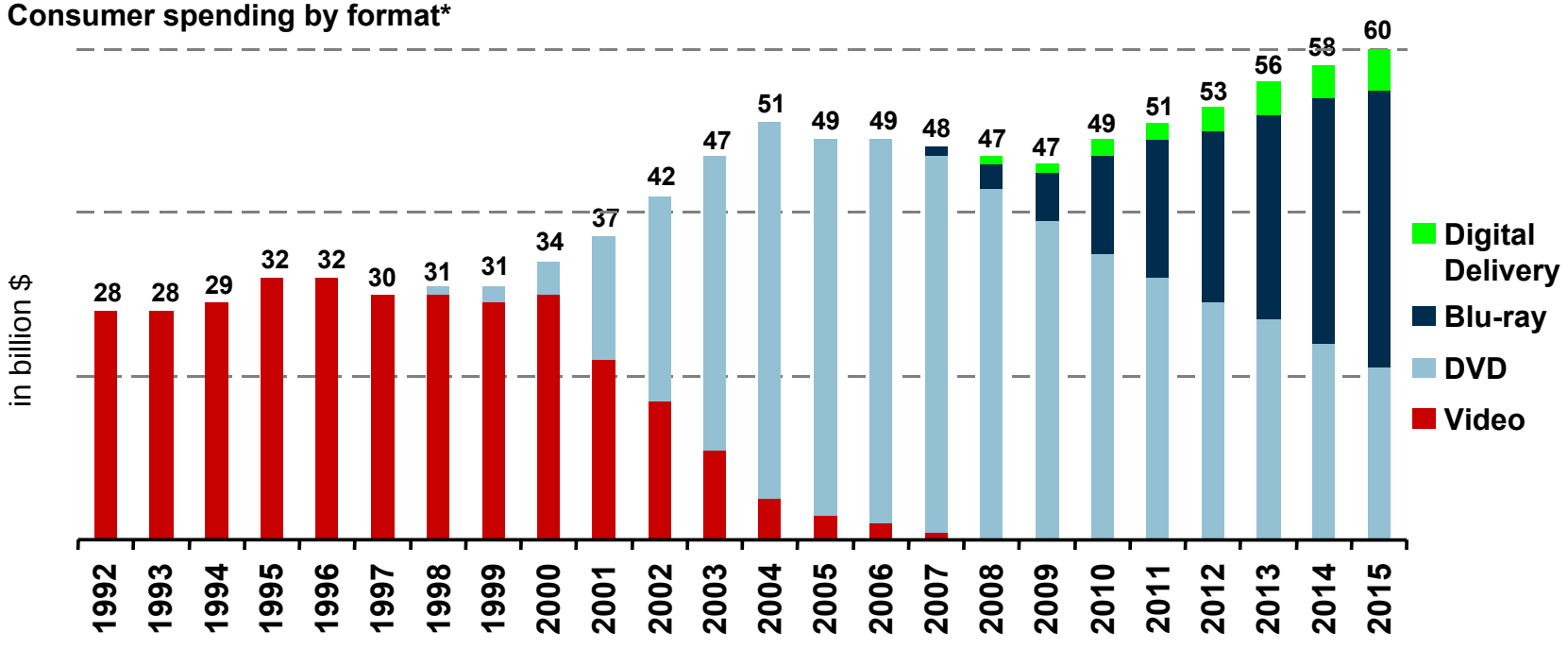
High Margin Product

- Best of class
- Market share 90 % (without Sony)
- Excellent equipment performance

BLULINE II

Optical Disc Innovative Formats Like Blu-ray and Digital Will Grow Global Spending to $60B+

Consumer spending by format*



*Rental and sell-through (excluding EST rental)

Source: WDSHE Distribution Outlook, Screen Digest Video Intelligence, WDSHE Estimates (FYP), Q2 2008

Blu-Ray will be the Future Format in Home Entertainment

- Blu-ray format adopted worldwide
- 10 % European homes until today
- 20 % of European homes until end 2011
- Low cost players available
- More than 1,500 BD titles available
- HDTV will be the standard for Home Entertainment
- Half of 2009 BD player sales expected in Q4
- Packaged media DVD + Blu-ray generate higher revenues for Hollywood studios than movie theaters – more than 50 % of total revenues

Increased availability

Enhanced home entertainment

BD innovation

Source: Blu-Ray Association / SINGULUS

Optical Disc: Blu-ray Future beyond 50 GByte

Blu-ray – the Driver of Future Growth

- 25 GB
- 50 GB

➡ Games

➡ High resolution movies

1080 x 1920 pixels

Future upside for BD Technology

- Capacity up to 100 GB by triple layer
- Capacity up to 1000 GB by multiple layer

➡ Future applications

➡ - New 3 D movies in HD quality

➡ - "Super Hi-Vision" technology
- Professional storage

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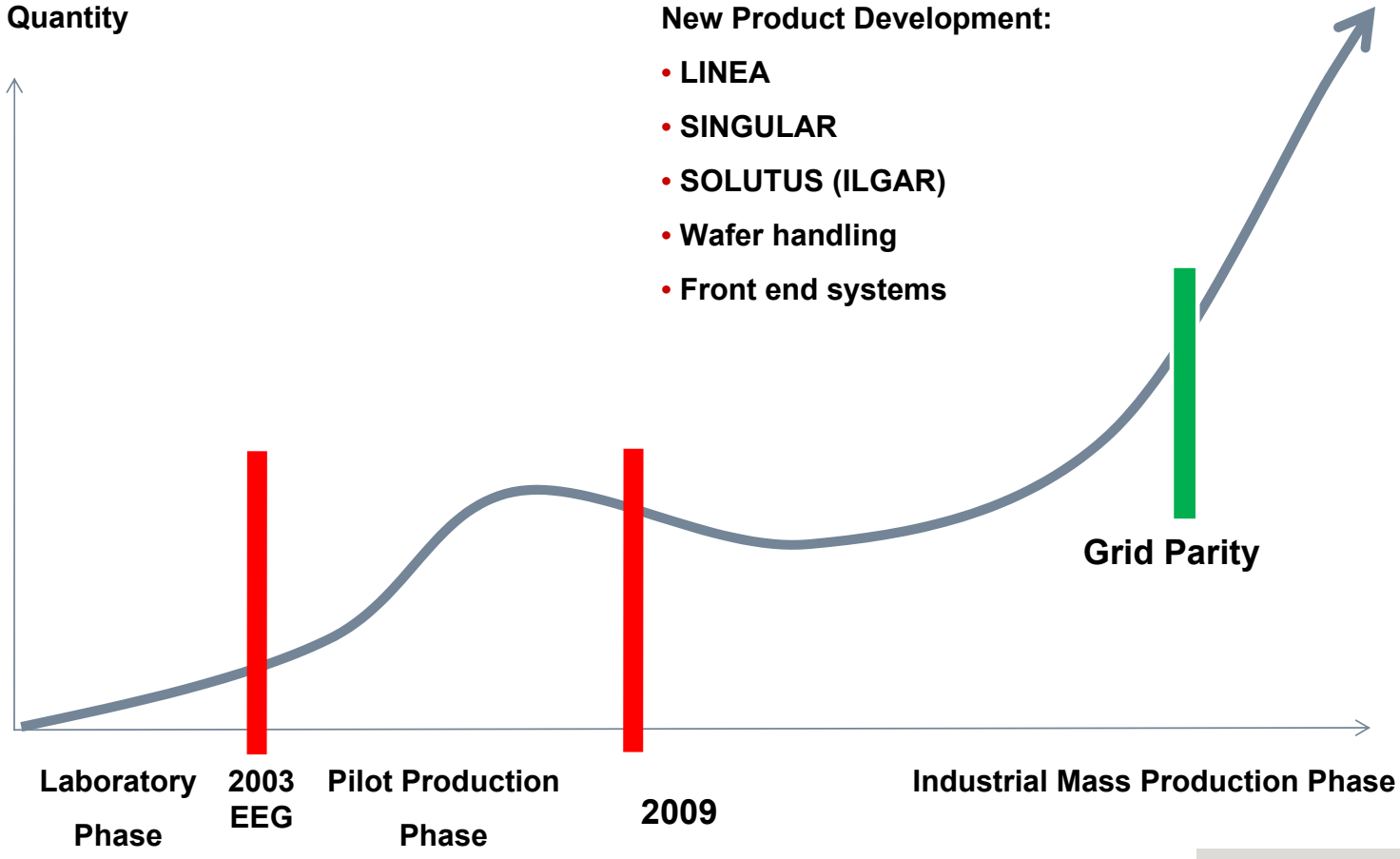
Solar: Growth Market with New Machine Concepts for the Future



Solar: Market Development for Cells and Panels

Up to 2008

- Higher demand than supply
- Fast growing market
- High margin business

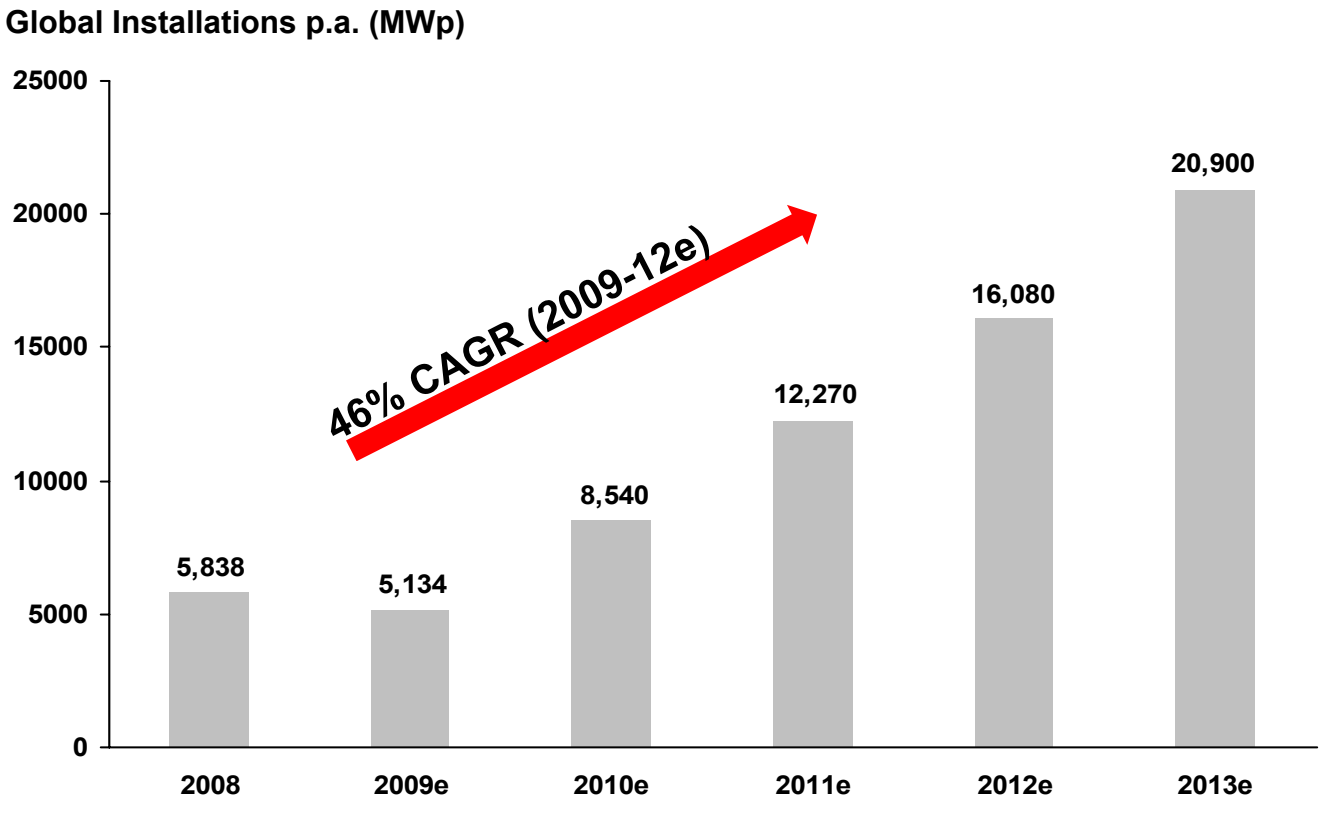
2009

- Higher supply than demand
- Market prices declining
- Lower margins vs. the past
- Change from seller market to buyer market

2010 and later

- Growing market long term with higher supply than demand
- Market will remain buyer market
- Price pressure will call for innovation and standardization
- New designs of cells and panels
- New manufacturing processes and new designs of equipment for lower cost of ownership and lower capex

PV Solar Installations
Growing at 46% CAGR (2009-12e)



Source: Deutsche Bank Studie, October 2009

Solar: SINGULUS/STANGL
Main Business Areas Photovoltaic

Silicon Solar Technology

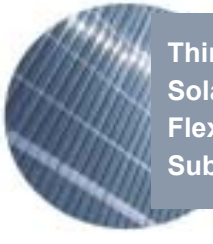
Process Equipment for Silicon Solar Technology

STANGL provides completely automated solutions for poly silicon etching as well as treatment for Si wafers & cells in standard and high-efficient production lines. SINGULUS has developed an AR coating system which meets the demands for both current and future PV cell designs.

Thin-Film Solar on Glass

Process Equipment for Photovoltaic Thin-Film Cells on Glass

STANGL provides high-tech systems which are used for fully-automated coating processes of the single-sided wet chemical CdS . Dry Process Equipment is ready for market introduction this year.

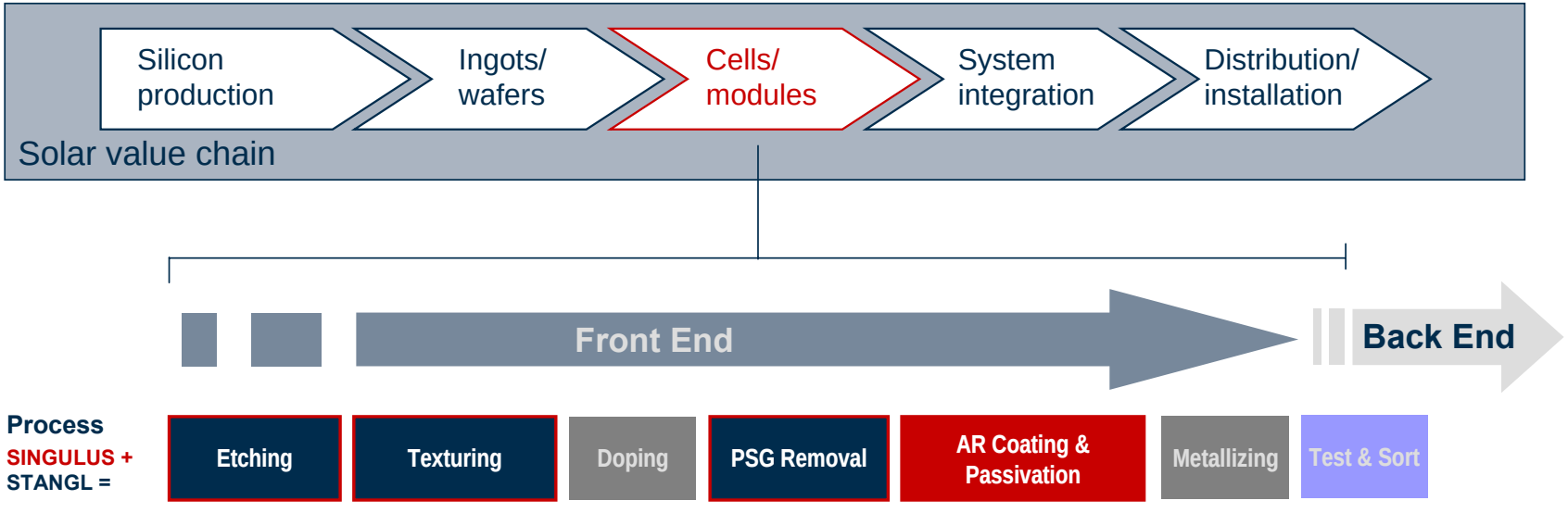


Thin-Film Solar on Flexible Substrates

Process Equipment for Photovoltaic Thin-Film Cells on Flexible Substrates

Thin-Film solar cells on flexible substrates are on the advance due to their properties of low weight, high flexibility and low cost of manufacturing compared to silicon based solar cells.

Silicon Solar: SINGULUS/STANGL Proprietary Technologies



Silicon Solar:
Portfolio Si Solar Cell Production

Established Solar Competence
Complementary R&D Activities

		SILEX PSG/Texturing	SINGULAR AR Coating
MATERIA Raw Material	GERULUS Si Block	LINEA PSG/Texturing	Wafer Handling

Silicon Solar:
Wet Processing for Si-Raw Material & Si-Blocks

MATERIA for Etching, Cleaning & Drying of Polycrystalline Silicon Material

GERULUS for Precleaning & Deglueing of Wafer Blocks

Silicon Solar:
Automated Wafer Handling

Automated Loading, Unloading & Transfer System for Si Wafer

- Fully automated system for loading/unloading and transfer of solar cells
- Automated handling system between LINEA and SINGULAR
- Transfer capability: 3600 wafer /hour

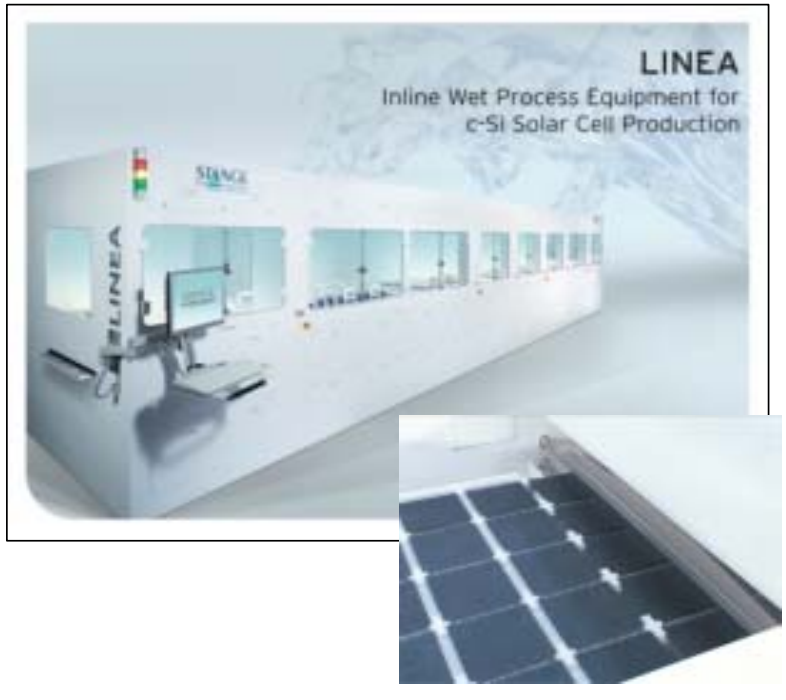
Wafer Handling

Silicon Solar:
Wet Processing Equipment

Inline Texturing & PSG Removal of Cells

- For Si wafer & Si cell production
- Inline machines for wafer-cleaning / texturing and PSG-removal

LINEA



Silicon Solar: SINGULAR
Modular Inline AR Coating System

Advanced AR Layer Deposition

- Inline concept for high throughput
- Fully automated system “Single Cell”
- Coating of anti-reflective and passivation layer on silicon cells
- High quality coatings for high performance cells

SINGULAR

SINGULUS

Thin Film Solar Portfolio: Cell Production

Established Solar Competence
Complementary R&D Activities

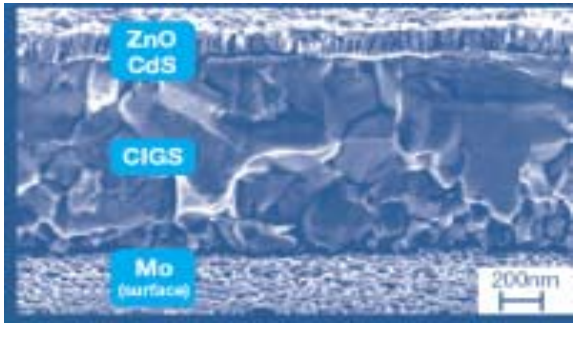
TENUIS Glass	VITRUM Inline Glass	IMPEDIO Foil	NEW SOLUTUS ILGAR-Process

Thin Film Solar: Wet Processing on Glass

TENUIS

- Economic processing of CdS buffer layers for CIS Cells
- Uptime > 98 %
- High throughput

Thin-Film Solar Cells on Glass



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Thin Film Solar: Wet Processing on Glass

VITRUM – Inline

- For all thin-film applications
- Cleaning – etching – coating
- Uptime > 98 %
- High throughput

Thin-Film Solar Cells on Glass

SINGULUS

Thin Film Solar: Wet Processing on Flexible Substrates

Coating, cleaning and etching for Flexible Substrates

- Efficient process for coating, cleaning and etching
- Roll to roll
- Uptime > 98 %
- High throughput

IMPEDIO

Thin Film Solar: Innovative Approach – ILGAR Cadmium-Free Buffer Layer

Coating, cleaning and etching

- Increasing market demand for thin-film technology
- Strong market demand for innovation “ILGAR” - Ion Layer Gas Reaction Process for cadmium-free buffer layer to substitute toxic materials
- First R&D Project with key costumers

SOLUTUS

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