SINGULUS TECHNOLOGIES

November 2014

SINGULUS TECHNOLOGIES AG – EK Forum 2014

Agenda

SINGULUS

History SINGULUS TECHNOLOGIES AG

Ernst Leybold started his business in Cologne
Company building 1860

1966
E. Leybold (Successor)

Unicorn Pharmacy was founded 1600 in Hanau
W.C. Heraeus took over business in 1851 and started with platinum

1966
Heraeus Hochvakuum founded

1851 — 1860 — 1966 — 1967 — 1995 — **1995**

LEYBOLD HERAEUS

Vacuum Technology, Metallurgy and Coating

Merger

LEYBOLD / BALZERS

Foundation

SINGULUS TECHNOLOGIES

SINGULUS TECHNOLOGIES
Sales & Service Network World Wide

Optical Disc
Installed Systems:
over 8550

Semiconductor
Installed Systems:
over 30

Photovoltaic
Installed MW:
over 3.000

SINGULUS TECHNOLOGIES

Installed Equipment Base

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Financial Overview 9 Months 2014

in million €	9 Months 2013	9 Months 2014
Revenues	93.1	52.8
Order Intake	82.6	48.4
Order Backlog (30.09.)	29.6	15.9
EBIT	1.4	-38.7
EBIT (operating)	1.4	-18.3
EBITDA	5.8	-14.8
Profit before Tax	-1.1	-41.3
Loss for the Period	-2.2	-41.7
Operating Cash Flow	-4.5	-24.1

Profit & Loss Statement 9 Months 2014

in million €	9 Months 2013	9 Months 2014
Gross Revenue	93.1	52.8
Net Revenue	92.4	52.4
Gross Profit (in % of Net Revenues)	23.9 (25.9%)	8.3 (15.8%)
OPEX (Total)	-22.5	-47.0
- R & D	-5.6	-9.1
- Sales & Customer Service	-11.1	-11.0
- GM & A	-8.2	-6.9
- Other Income/Expenses	2.4	0.4
- Impairment & Restructuring	0.0	-20.4
EBIT	1.4	-38.7
Loss for the Period	-2.2	-41.7
EPS basic (in €)	-0.04	-0.85

Cash Flow Development

in million €	9 Months 2013	9 Months 2014
Cash Flow from Operating Activities	-4.5	-24.1
Cash Flow from Investing Activities *	-2.9	-0.9
Cash Flow from Financing Activities	-1.3	-3.7
Total Cash Flow	-8.7	-28.7
Cash and Cash Equivalents at the Beginning of the Period **	55.9	51.0
Effect of Exchange Rate Changes	-0.2	0.6
Cash and Cash Equivalents at the End of the Period **	47.0	22.9

* Changes in time deposits with terms longer than 3 months not included
** Includes time deposits with terms longer than 3 months

Balance Sheet

million €	31.12.2013	30.09.2014
Cash and Cash Equivalents	51.0	22.9
Total Current Receivables and other Assets	45.0	39.8
Total Inventories	28.1	38.3
Non Current Assets	70.3	37.9
Total Assets	194.4	138.9
Total Current Liabilities	48.0	33.6
Total Non-Current Liabilities	72.6	72.4
Total Equity	73.8	32.9
Equity and Liabilities	194.4	138.9

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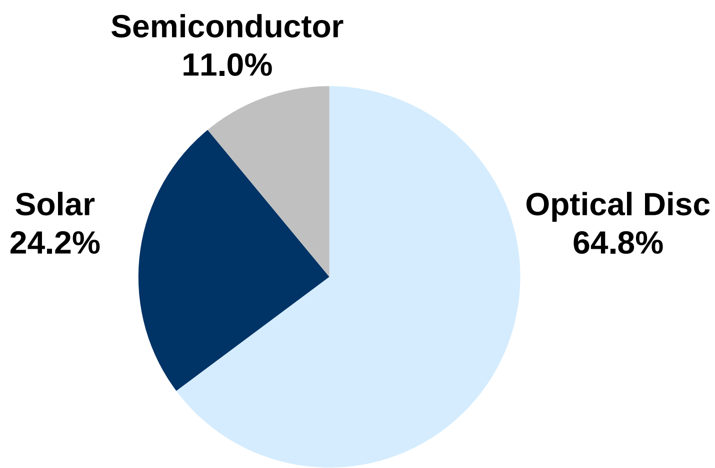
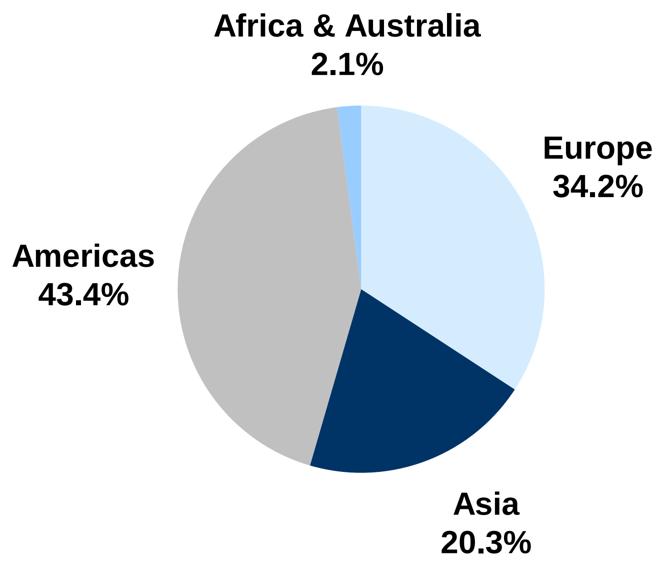
Sales Split by Products & Region

Products per 9 Month 2014



Region per 9 Month 2014



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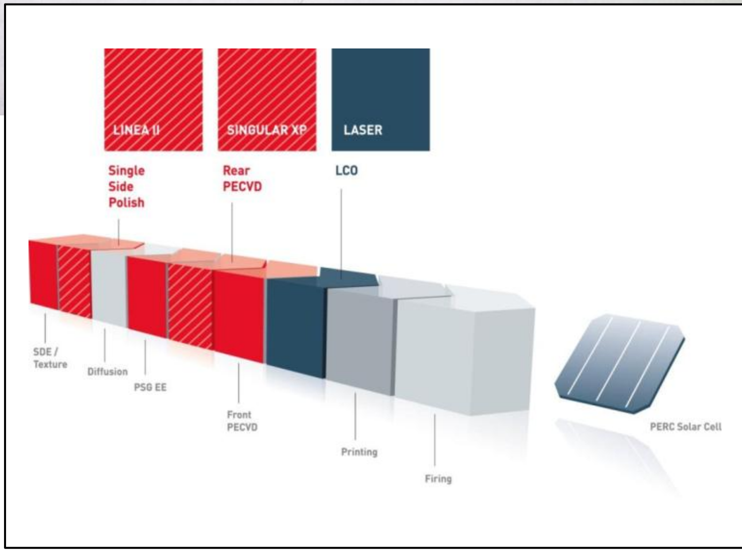
Frontrunner Photovoltaic

Efficiency hub with PERC + 1 %

Heterojunction efficiency: 25.1 %

CIGS World record 16.6 %



Market position and future

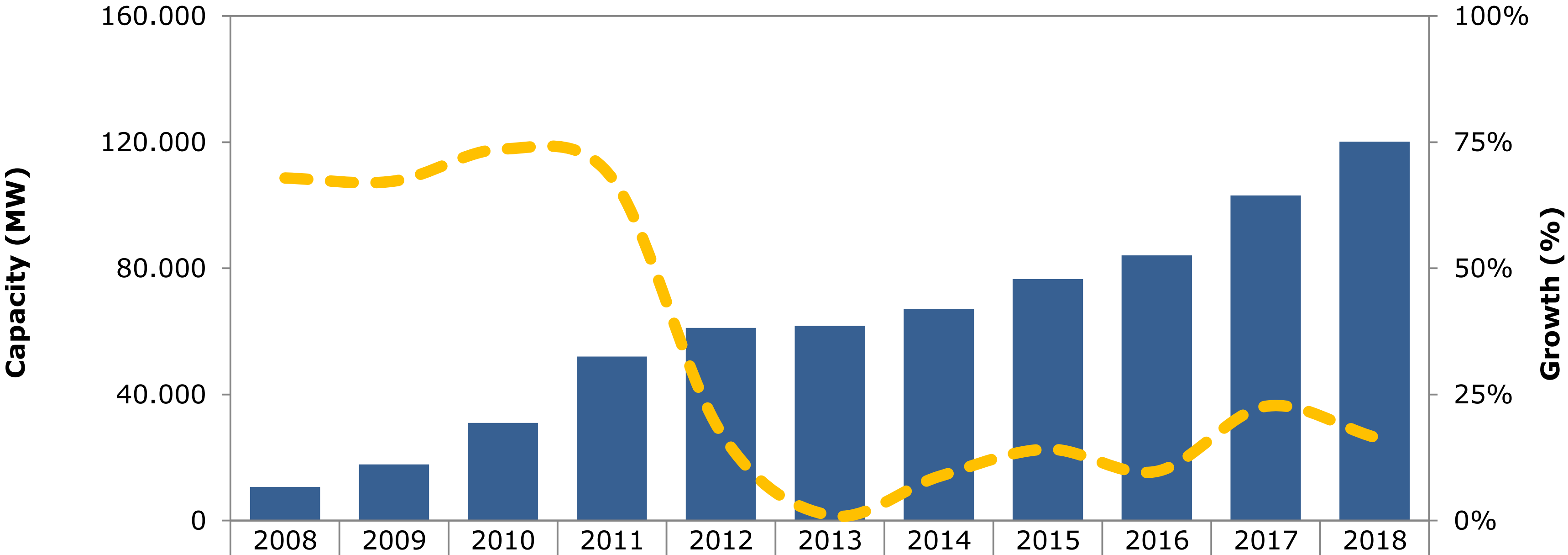
- PERC upgrade systems working
- HIT with SINGULAR and SILEX
- SINGULUS includes all major production steps

Development of PV Capacities to 1721 GW in 2030 and 4674 GW in 2050

Year	US	Other OECD Americas	EU	Other OECD	China	India	Africa	Middle East	Other developing Asia	Eastern Europe and former Soviet Union	Non-OECD Americas	World
2013	12.5	1.3	78	18	18	2.3	0.3	0.1	1.4	3	0.2	135
2030	246	29	192	157	634	142	85	94	93	12	38	1721
2050	599	62	229	292	1738	575	169	268	526	67	149	4674

Source: IEA roadmap 09-2014

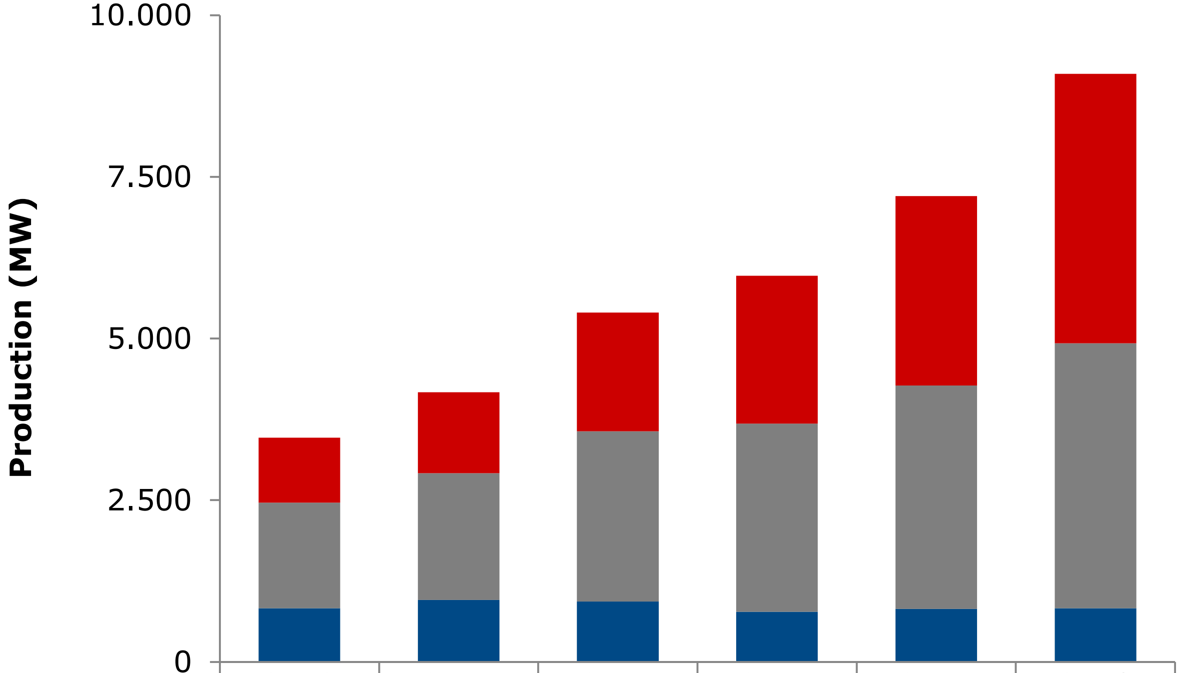
Annualized PV Manufacturing Capacity



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Capacity	10.668	17.845	30.988	52.030	61.107	61.731	67.120	76.618	84.086	103.12	120.16
Y/Y Growth	68%	67%	74%	68%	17%	1%	9%	14%	10%	23%	17%

Source: NPD Solarbuzz Q3 2014

Thin-Film Panel Production: 2013 +5 Years by Panel Type



	2013	2014	2015	2016	2017	2018
CIGS	1.002	1.252	1.838	2.286	2.927	4.169
CdTe	1.636	1.957	2.630	2.908	3.454	4.094
a-Si/uc-Si	828	958	935	777	821	831

Source: NPD Solarbuzz Q2 2014

Nano Deposition 0.2 nm

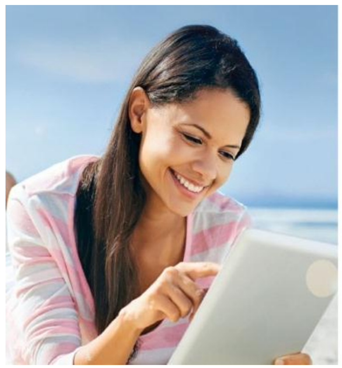
Ultra high vacuum: **$5*10^{-9}$ mbar**

Thinnest layer: **< 3 Å**

Uniformity: **0.5 % 1 σ**

Market position and future

- Excellent prospects for further growth
- Modular platform for all applications
- Ready for 450 mm technology



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Wet Process Stations for Semiconductor

- **Manual Wet Process Stations**
- **Semi- and Fully Automated Wet Process Stations**
- **Quartz tube- and Part-Cleaning Stations**
- **Total Metal Free Working Stations**
- **Special Customer Specified Units**
- **Chemical Supply Systems (pump or pressure systems)**

High Tech in Blu-ray Technology

Dual layer 50 Gbyte — **Pit 149 nm**

Triple layer 100 Gbyte — **Pit 112 nm**

Layer thickness L0	**100 µm**
L1	**75 µm**
L2	**50 µm**

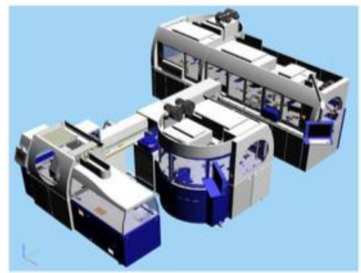
Market position and future

- Market leader, no competitor
- BLULINE III for 4K Blu-ray available
- Ready for coming market

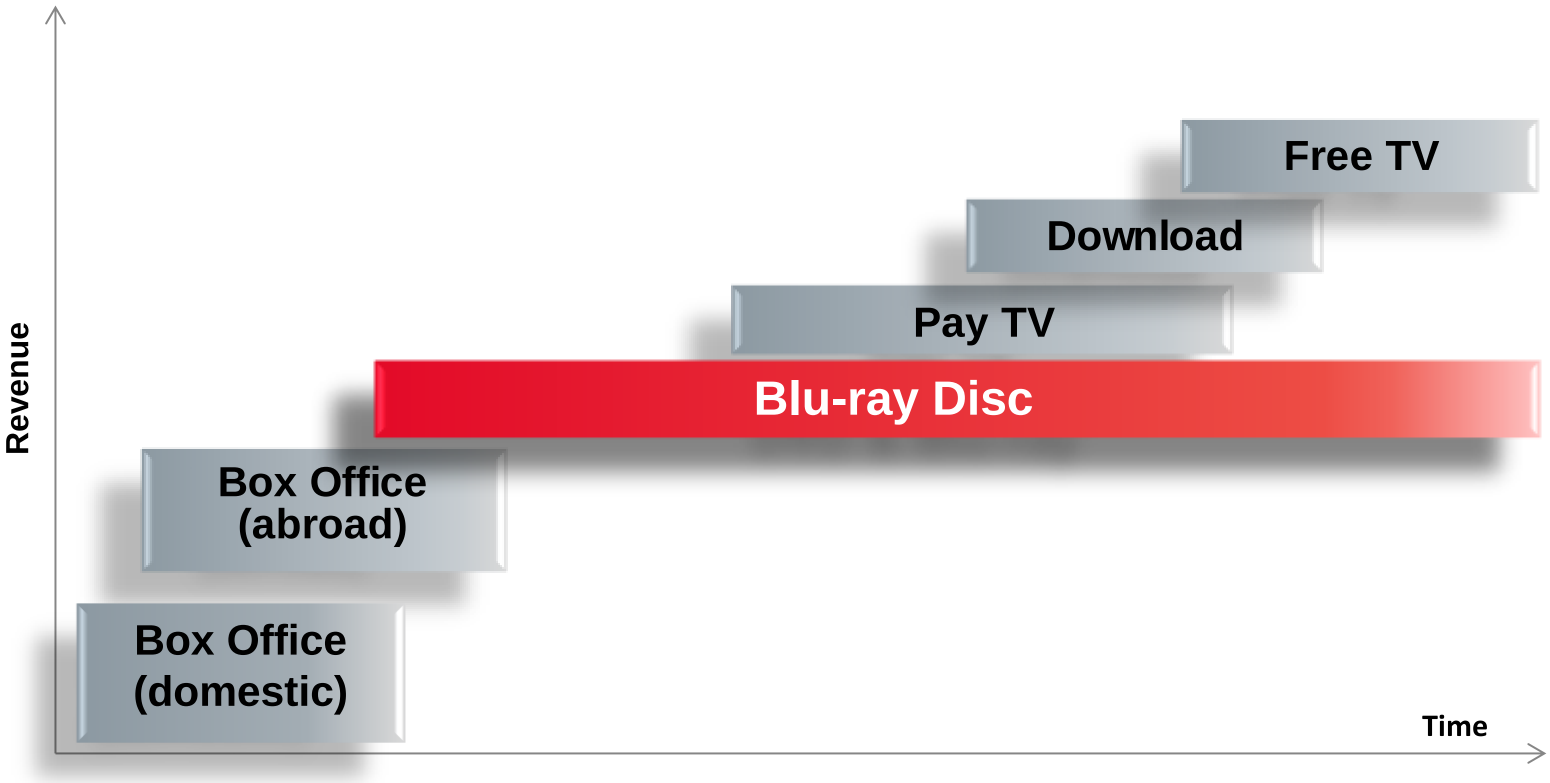
SINGULUS TECHNOLOGIES OPTICAL DISC

For all disc formats CD – DVD – Blu-ray as well as 4K Blu-ray

Mastering → Molding → Metalizing → Bonding / Embossing / Lacquering → Finishing



Revenue Exploitation of Movies



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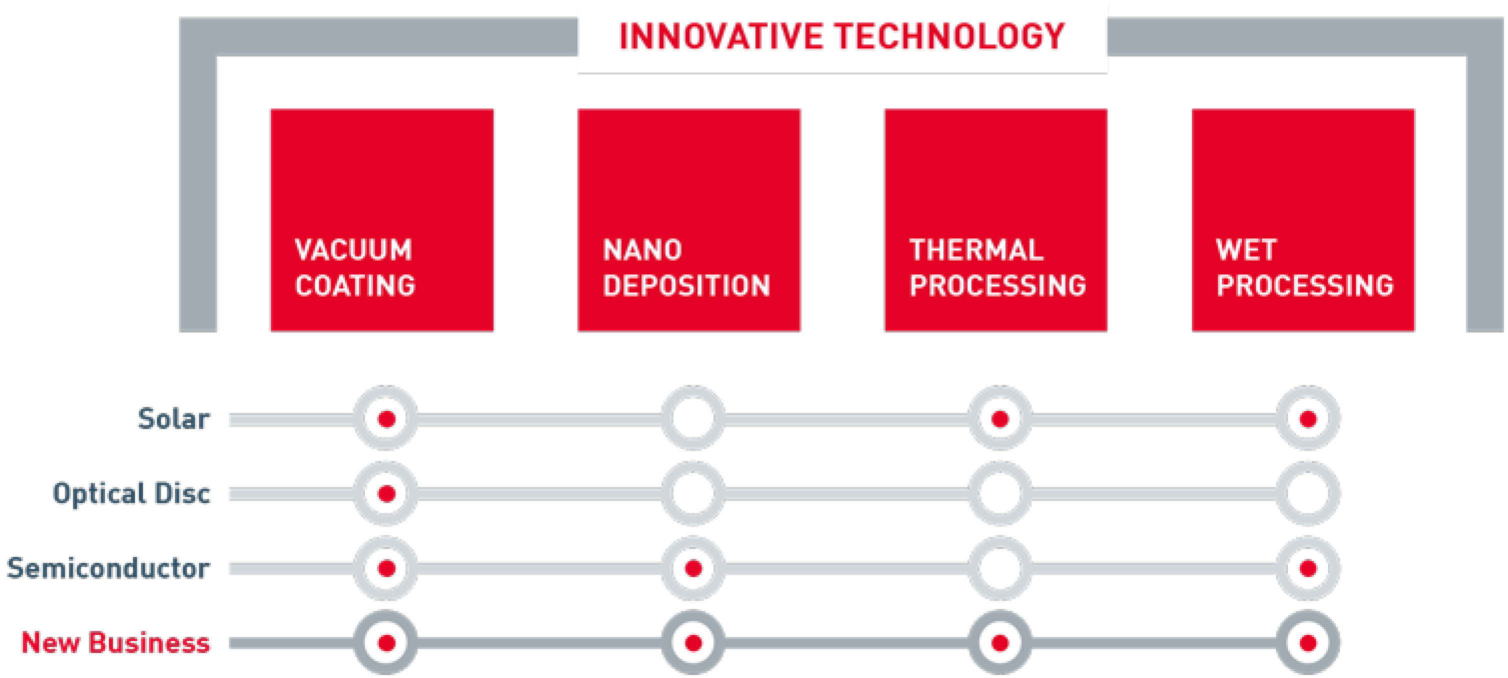
1	Overview
2	Financials
3	Business
4	Future Strategy

SINGULUS TECHNOLOGIES - Strategy



Contact

SINGULUS TECHNOLOGIES AG
Hanauer Landstrasse 103
D-63796 Kahl/Main

Dr.-Ing. Stefan Rinck, President and CEO
Tel: +49-6188-440-109
Stefan.Rinck@singulus.de

Markus Ehret, CFO
Tel: +49-6188-440-204
Markus.Ehret@singulus.de

Maren Schuster, Head of Investor Relations
Tel: +49-6188-440-612
Maren.Schuster@singulus.de

Bernhard Krause, Communications Worldwide
Tel: +49-6181-9828020
Bernhard.Krause@singulus.de

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