

# 1<sup>st</sup> Half-Year 2018 Presentation for investors, analysts, media

16 August 2018



# **Agenda**



Achievements and market analysis

Dr Hans Brändle, CEO

Financial statements H1 2018 in detail

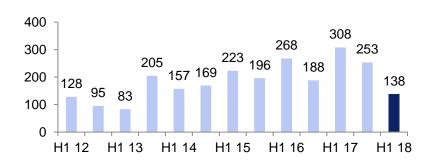
Michel Hirschi, CFO

Q&A session

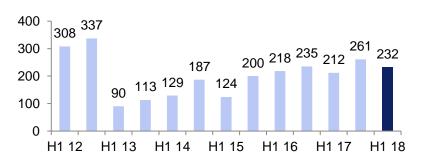
# Net profit reached after a long period of losses



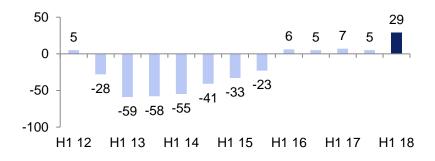
#### **Incoming orders in MCHF**



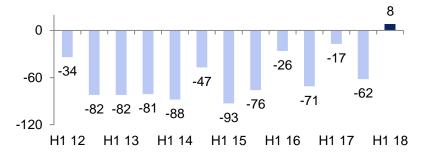
## **Net sales in MCHF**



#### **EBITDA in MCHF**



#### **Net result in MCHF**

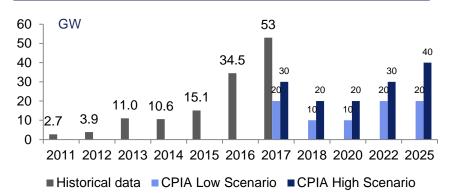


- Cost efficiency measures and discontinuation of non-profitable businesses have led to improvement of profit margins and overall profitability
- Incoming orders negatively affected by market uncertainties influenced by USA-China trade conflict and 531 announcement of Chinese government

# China 531: a disruptive announcement of the Chinese government on May 31st, 2018



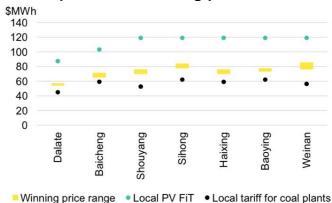
#### Market growth - CPIA 2017 Solar PV roadmap 2017 - 2025



Source: CPIA China Phovotoltaic Industry Association

#### Higher quality at much lower cost

#### 2017 "Top Runner" winning prices



Source: Local government announcements; Bloomberg New Energy Finance

# With recent 531 Solar Notice, Chinese Administration strives to

- control growth: Uncapped and very attractive feed-in tariffs resulted in higher end-installations than originally planned.
   2017 installations were significantly higher than estimated in early 2017 (China Solar Association CPIA's PV Industry Roadmap)
- years: Establish a market driven model to achieve grid parity until 2021. Top Runner project winning prices were much lower than FiTs and close to coal power prices, despite required use of high efficiency solar modules
- push the PV industry from a purely costdriven focus to a quality and technology focus: Top Runner program turns out to be very effective in pushing the CN-industry to PERC as a minimum level and encourage advanced technologies beyond PERC

# China 531: pushing towards a more market driven model to enable grid parity soon



# Stop

#### uncontrolled growth immediately

- Suspend approval for new utility-scale PV power stations in 2018 – No Build Plan for utility-scale PV stations
- The "Build Plan" for distributed PV power is capped at 10 GW, incl. residential and commercial applications
- Reduce FiT rate by RMB 0.05/kWh for both utility-scale and distributed PV projects
- Continue to launch "Top Runner" Program;
   2018 plan to be released later

# **Prepare**

#### for more controlled auction process

#### Utility-Scale PV

- All utility-scale PV projects must determine the developer through bidding method
- The tender price should not be higher than the FiT rate post adjustment of Policy 531

#### Distributed PV

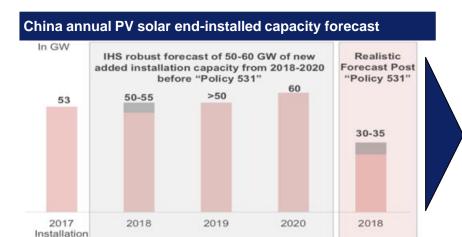
- Encourage local government to introduce bidding process for distributed PV excl. residential projects
- Promote electricity market trading model for distributed PV

# FiT critical selection indicator for future bidding process

 Provincial governments should report tender price or subsidy (if any) of each project to central government for supervision

# China 531: Chinese market for PV end-installations remains strong

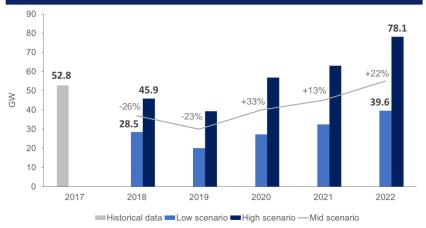




Capacity

Source: IHS

#### China PV market scenarios 2018 - 2022 (end-installed cap.)



Source: SolarPower Europe

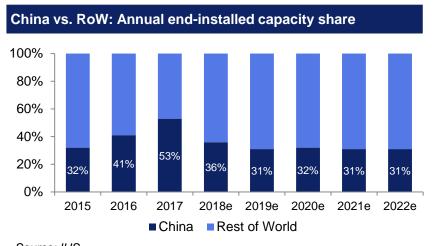
Project types	GW	Comments
Distributed PV	12	Installed between Jan-May 2018
Top Runner Project	7	2018 quota has not been announced yet. Wait for government final approval
Poverty Alleviation Project	4	Confirmed quota for 2018
Utility-scale PV	0-5	Some projects may receive provincial subsidies and connect to grid
Capacity quota 2017 or before (on-grid in 2018)	6	Already installed in 2017 or prior to 30 June 2018
Other special projects approved by government	3	
Total	30-37	

#### **Effects on China PV end-installed capacities**

- In 2018, China end-installed capacity additions could decrease by over 20 GW compared to 2017 numbers
- This would still represent c. 30-37 GW of additional end-installed capacity in 2018 in China
- Sustainable growth y-o-y expected again after solar market design restructuring as of 2020

# World solar market – markets outside China gain importance





- Global solar dependence on China demand is expected to lessen
- As of 2019, over 2/3 of solar end-installed capacity expected to be installed outside China
- The number of annual GW-scale solar markets is quickly increasing

Source: IHS

#### Number of GW-scale markets is expected to more than double within 2 years



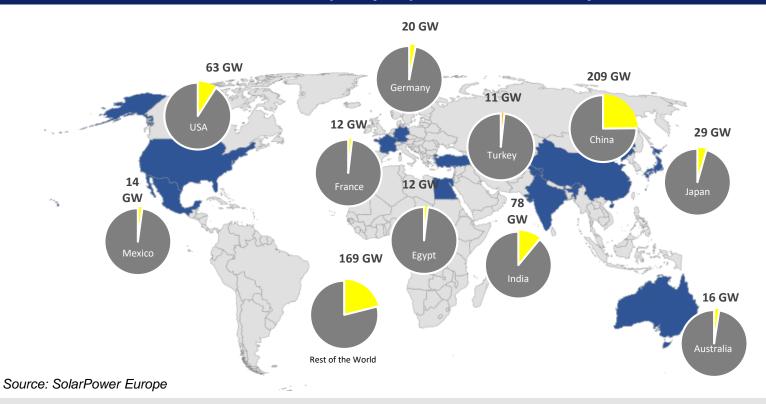
Σ 6 markets

Source: SolarPower Europe

# Solar growth story intact



#### Over 630 GW of new end-installed capacity expected in the next 5 years



- Strong growth: Total global solar market expected to exceed 1 TW of end-installed capacity in 2022; up from slightly above 400 GW at end of 2017
- Diversification: Top 10 PV markets will account for > 70% of new capacity added in the next
   5 years, while in 2017 only the top 3 markets accounted for 73% market share

# PERC – the new mainstream technology



#### MAiA®: the industrial standard for PERC



MAiA<sup>®</sup>

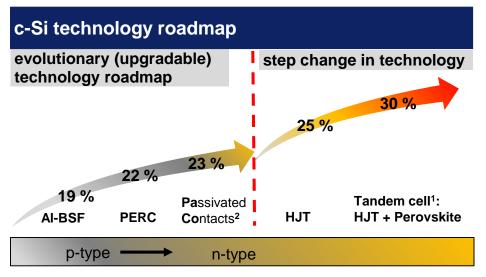
The successful industrialisation of PERC by setting the industrial standard with MAiA<sup>®</sup> is one more proof that Meyer Burger drives the technology roadmap of the PV industry.

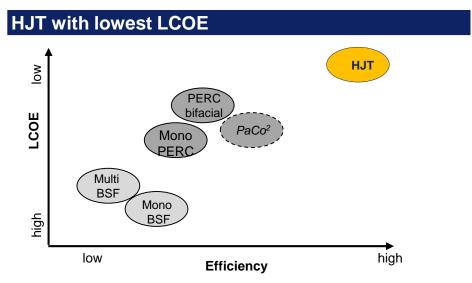
#### **Strong competition on PERC equipment**

- PERC is the new mainstream cell-technology – much faster than expected by experts
- Since 2018: MB PERC challenged by local competition in China, esp. with alternative technology ALD (atomic layer deposition)
- Competitive environment: large pressure on price and throughput: CAPEX per GW dropped by a factor of ~2 from 2017 to 2018
- Meyer Burger has won ~3 GW for PERC equipment in H1 2018
- Need for PV players to establish manufacturing outside CN is an upside for MB
- Large interest to upgrade PERC towards passivated contacts (PaCo) – potential solutions not yet industrialised. MB's solution for PaCo – based on successful MAiA® platform – planned for early 2019

# Heterojunction – ready and available







#### HJT with undisputed advantages

- √ Highest efficiency for c-Si solar cells
- √Superior temperature coefficient
- √ Highest bifaciality of all technologies
- √ Allows thinnest wafers (cost!)
- ✓ Lowest levelized cost of energy (LCOE)
- CN government pushing high-efficiency PV technology even more as part of subsidy restructuring: growing number of players considering or working on HJT
- MB recognized leader in technology and only supplier with proven integration capabilities including module performance; however, several single equipment providers offer individual HJT steps
- MB working on several deals strong interest in MB technology but high CAPEX as a hurdle
- 531 delayed actions as customers assess their options for short-term business and future investments

<sup>&</sup>lt;sup>1</sup> Tandem cell: two different cells are stacked

<sup>&</sup>lt;sup>2</sup> PaCo: passivated contacts, not yet industrially ready

# HJT / SWCT™ success: Record 410W module



- CEA INES Meyer Burger partnership on heterojunction technology
  - CEA INES team, in collaboration with Meyer Burger, achieved new heterojunction 72 cell module performance record at 410W
  - Heterojunction cells manufactured in CEA INES research lab on Meyer Burger HELiA® platform
  - Record 410 watt module produced in Thun on Meyer Burger's SmartWire Connection Technology (SWCT™) manufacturing equipment





# Driving the technology roadmap: several new products launched at the SNEC 2018



#### Diamond wire saw DW 291



- Increased throughput
- Overall production costs per wafer reduced by 20%
- Leading thin wire capability (50µm)

#### Cell coating MAiA® 6.1, DiVA® 6.1 and FABiA® 4.1



FABiA® 4.1

- Increased throughput from 3,200 wafers per hour (wph) to > 4,000 and > 6,000 wph
- Integrated solution: three process-steps in one run

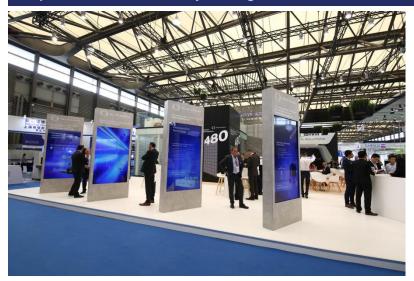
#### **Wafer Inspection System WIS 08**

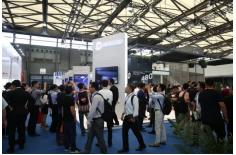


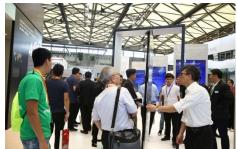
**WIS 08** 

- Sets performance benchmark in PV industry
- Highest throughput with ~8,300 wph with best measurement accuracy

#### Impressions from the Meyer Burger booth at SNEC







## Industrial leaders opting for SWCT™



 REC Group orders Meyer Burger's SmartWire Connection Technology (SWCT™) as manufacturing basis for its newest high efficiency solar modules

Feb 2018

- Delivery and installation of SWCT™ equipment to REC took place in July 2018
- Joint technology development project between REC & Meyer Burger
- Panasonic Solar selects SWCT<sup>™</sup> for evaluation in the manufacture of its HIT<sup>™</sup> cells May 2018
  - Delivery and installation to R&D facility in Osaka/Japan took place in July 2018
  - R&D collaboration between Meyer Burger & Panasonic
- Another solar module manufacturer in South East Asia ordered 200 MW SWCT™

July 2018

- Delivery and installation planned for H1 2019





# Reorganisation Thun on track (announced 2 November 2017)



#### **Solar Systems**



MegaSlate® roof installation

Strategic options to be evaluated; sale of business preferred option

#### Module



SWCT™ Line

Establish SWCT™ as industrial standard; outsource assembly

#### Sale of Solar Systems business

Announced in May; Transaction closed June 2018

#### Wafer



DW291

**Transfer production** of diamond wire saws to outsourcing partner in China

#### Outsourcing SWCT™ production

To Mondragon Assembly; Announced in April; Production at Mondragon starting in January 2019

Aug

Jul

Jun

#### **Outsourcing PV diamond** wire saws production

To Flex Announced in August; Production at Flex starting in January 2019

Nov

Oct

Dec

2017 2018 Apr May

Mar

#### 2 Nov 2017:

Dec

Nov

Announcement that production site in Thun will be reorganised and all manufacturing activities in Thun will be discontinued by end of 2018.

Jan

✓ Manufacturing activities in Thun scheduled to be discontinued by year-end 2018.

Sep

Feb

# Further structural measures to safeguard long-term profitability



#### **Additional structural measures**

- Programme aims to:
  - Further increase customer proximity
  - Optimise MB global production footprint
  - Increase company's robustness against market volatilities
- Target to reduce break-even level at net earnings to a net sales volume of below CHF 300 million
- Details of the programme to be finalised over the next few weeks and implemented thereafter
- More information on this programme to be announced on 16 October 2018



Meyer Burger Technology Ltd, Thun



# Financial Statements H1 2018 in detail

Michel Hirschi, Chief Financial Officer



## Incoming orders / Order backlog



#### **Incoming orders H1 2018**

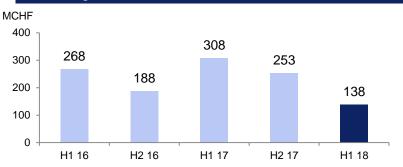
- Incoming orders MCHF 137.9 weak in H1 2018
- Many open / future customer projects in early 2018, but investment sentiment at PV customers getting worse with intensifying US/China trade tensions and Chinese announcement regarding subsidy cuts; increasing competition for MB PERC
- Market uncertainty leads to project / investment postponements → almost no really large orders in H1 2018
- Increased incoming orders for cutting tools for the sapphire and semiconductor industries
- Book-to-Bill Ratio 0.59 in H1 2018 (H1 2017: 1.45)
- Salesforce intensely working on customer projects

#### Order backlog 30 June 2018

- Order backlog MCHF 240.9 (31.12.2017: MCHF 343.8)
- Order backlog as at 30 June 2018 consists of
  - Photovoltaics MCHF 151.8
  - Specialised Technologies MCHF 89.1

#### Incoming orders **MCHF** - 65% 400 308 268 300 223 200 138 100 0 H1 2015 H1 2016 H1 2017 H1 2018



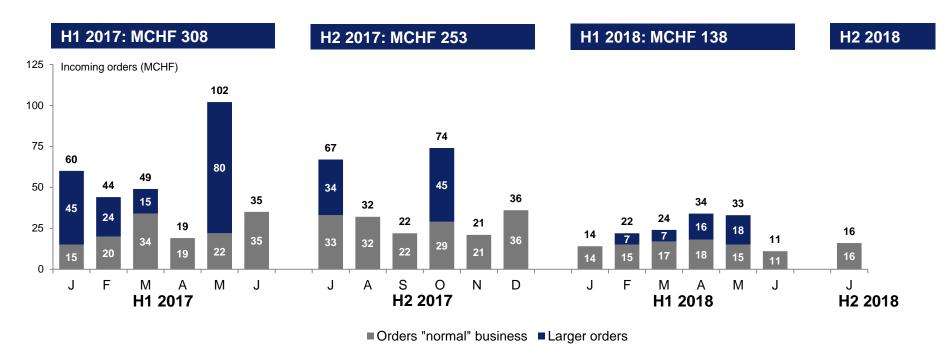


#### Order backlog last 5 half-years



# Incoming orders per month



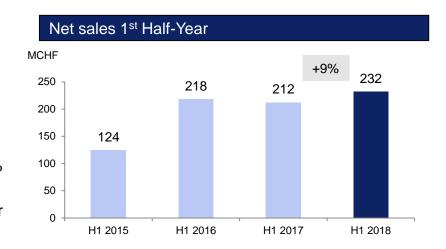


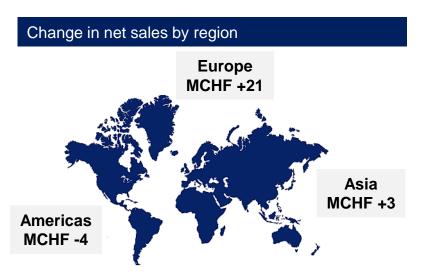
H1 2018 new larger orders						
February	March	April	May			
DW 288 Saphir	DW 288 Saphir	MAiA 4.1 FABiA 4.1	DS 261			
MCHF 7	MCHF 7	MCHF 16	MCHF 18			

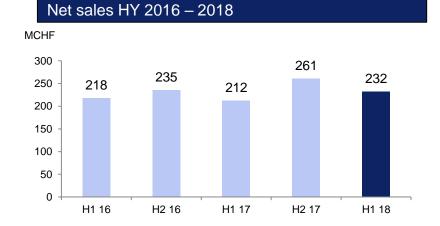
#### **Net sales**



- Net sales of MCHF 232.3 +9.4% year-on-year
- Positive currency effects of about MCHF 15.2 or +6.5%
- Adjusted for foreign currency effects and divested DMT business activities, organic growth of continuing business would be +5.2%
- Segment sales third parties: Photovoltaics MCHF 202.4,
   Specialised Technologies MCHF 29.9
- Asia (mainly China) continues to be major region with 68% of net sales
- Change in net sales Europe mainly due to 3Sun HJT order

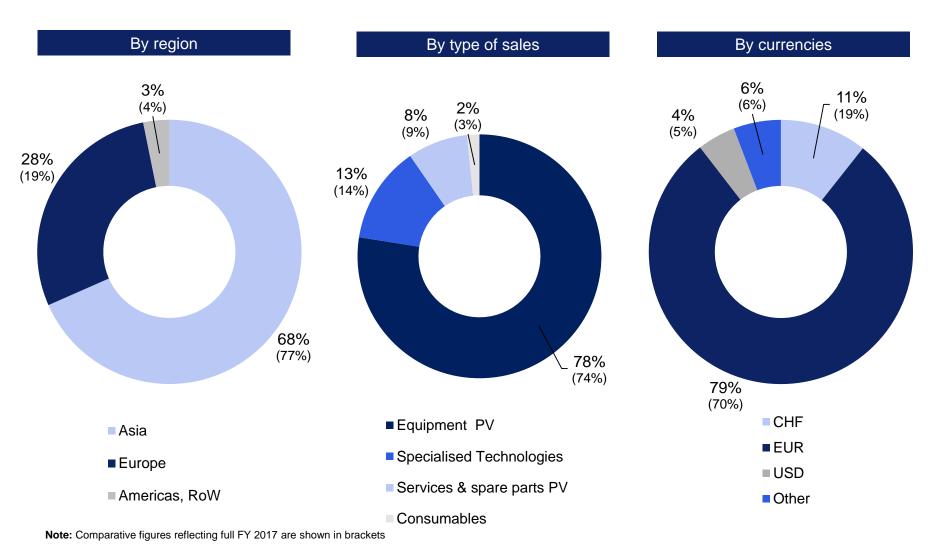






# **Split of net sales MCHF 232.3**



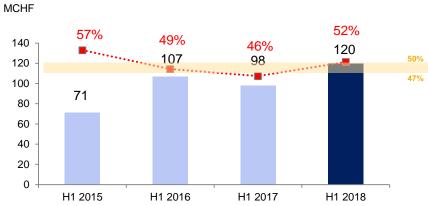


# Operating income after costs of products and services

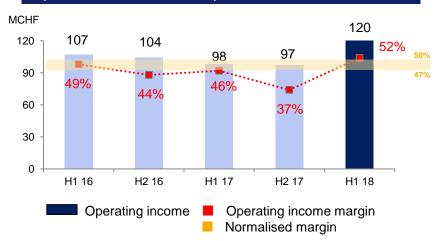


- Operating income after costs of products and services
   MCHF 120.1 (H1 2017 MCHF 98.2)
- Margin in H1 2018 of 51.7% was 5.4 percentage points higher than in H1 2017
- Normalised margin for H1 2018 would be 51.1% (H1 2017: 51.2%)
- Discontinuation of non-profitable businesses, product mix with higher margins led to improvement of profit margin

# Op. income after costs of products and services



#### Op. income after costs of p. a. serv. HY 2016 – 2018



## **OPEX** (1) – Personnel



#### **Employees**

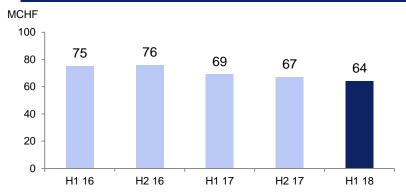
- Number of FTE at 30 June 2018: 1,227 FTE (at 30 June 2017: 1,303 FTE)
- Payroll reflection: Decline of 76 FTE vs. 30 June 2017
- Reorganisation Thun (announced Nov 2017): 30 FTE transferred with sale of Solar Systems unit. Up to c. 130 FTE will still be affected (following outsourcing SWCT™ production to Mondragon Assembly Group and outsourcing of PV diamond wire saw production to Flex Ltd)
- Temporary staff: Decrease by 138 temporary employees vs. 30 June 2017; mainly in production
- Organisation and cost structure more flexible than before

#### Further decline of personnel expenses by 7.4%

- Personnel expenses H1 2018 lower by MCHF 5.1 compared to H1 2017 (H1 2018: MCHF 64.2, H1 2017: MCHF 69.4)
- Another significant reduction in fix costs

# FTE 2000 1500 1500 1500 1303 1276 1227 Employees (permanent positions) Temporary employees

#### Personnel expenses HY 2016 – 2018



## OPEX (2) / EBITDA

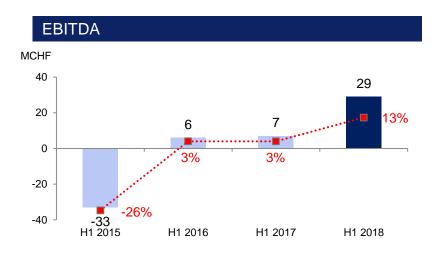


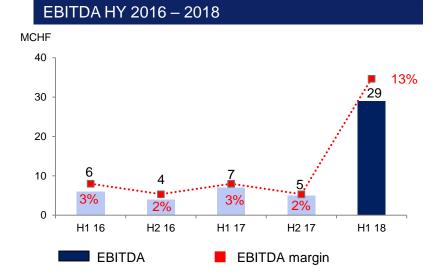
#### Other operating expenses

- Total other operating expenses MCHF 26.6 (H1 2017: MCHF 21.9)
- Increase of MCHF 4.7 compared to H1 2017 mainly due to MCHF 4.3 resulting loss from sale of Solar Systems business (incl. MCHF 1 Goodwill recycling)

#### **EBITDA MCHF 29.2**

- Reported EBITDA MCHF 29.2, margin of 12.6%
- Reflects successful execution on cost reduction and closing/ending non-profitable businesses and/or products





#### **EBIT**



Depreciation, amortisation and impairments total MCHF 14.4 (H1 2017: MCHF 15.8)

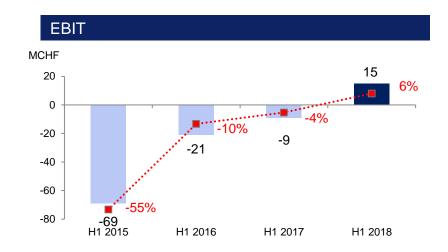
Decline in line with expectations

#### **Depreciation and amortisation**

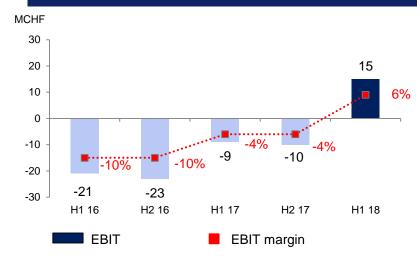
- Property, plant and equipment
  - Scheduled depreciation MCHF 5.4
- Intangible assets
  - Scheduled amortisation of intangible assets mainly related to M&A activities of recent years MCHF 8.9

#### EBIT MCHF 14.9

First time positive EBIT since 2012; margin 6.4%







## Financial result / Extraord. result / Taxes



#### Financial result

- Financial result, net of MCHF -4.0 (H1 2017: MCHF -7.4)
  - Major differences compared to H1 2017:
    - MCHF 5.7 less interest expenses and amortisation costs (due to straight bond redeemed in May 2017, conversions of convertible bond since December 2017 → current outstanding nominal amount of MCHF 26.8 for convertible bond 2020)
    - Foreign exchange rate differences MCHF -1.7 vs. MCHF +0.9 in H1 2017

#### **Extraordinary result**

- Extraordinary result of MCHF +0.8 (H1 2017: MCHF -0.6)
  - Mainly in conjunction with revaluations of inventory and provisions connected to previously accrued restructuring charges

#### **Taxes**

- Tax expense of MCHF -3.4 (H1 2017: Tax expense of MCHF -0.2)
  - Reflects tax rate of 29.3% for H1 2018

#### **Net result**



#### Net result

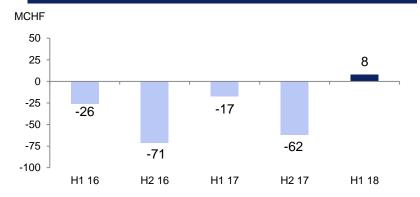
- Net result H1 2018 MCHF 8.3 (H1 2017: MCHF -17.0)
- Return to profitability at net result level achieved in H1 2018

#### Earnings per share

- EPS CHF 0.01 (H1 2017: CHF -0.03)
- Ø Number of outstanding shares
   621,659,281 (H1 2017: 547,329,662)
- Cash EPS CHF -0.03 (H1 2017: CHF +0.01)

#### Net result **MCHF** 50 25 8 0 -25 -17 -26 -50 -75 -93 -100 H1 2016 H1 2015 H1 2017 H1 2018

#### Net result HY 2016 – 2018



## **Income statement details**



in TCHF	H1 2018	in %	H1 2017	in %
Net sales	232 328	100.0%	212 294	100.0%
Other income	2 904		2 196	
Currency translation gains and losses on trade receivables and customer prep.	1 434		- 3 738	
Income	236 667		210 752	
Changes in inventories of finished and semi-finished products as well as machines before acceptance	- 2 766		5 925	
Cost of products and services	- 114 484		- 119 768	
Capitalised services	647		1 330	
Operating income after costs of products and services	120 064	51.7%	98 239	46.3%
Personnel expenses	- 64 248		- 69 393	
Other operating expenses	- 26 575		- 21 897	
EBITDA	29 241	12.6%	6 949	3.3%
Depreciation and impairment on property, plant, equipment	- 5 426		- 6 095	
Amortisation and impairment on intangible assets	- 8 935		- 9 655	
EBIT	14 881	6.4%	- 8 801	-4.1%
Financial result	- 3 979		- 7 413	
Operating result	10 901	4.7%	- 16 214	-7.6%
Extraordinary result	831		- 590	
Earnings before taxes	11 732	5.0%	- 16 804	-7.9%
Taxes	- 3 440		- 158	
Net result	8 292	3.6%	- 16 962	-8.0%

#### **Balance sheet**



#### Solid balance sheet structure

#### Cash, cash equivalents

Decreased mainly due to increased net working capital (see next slide)

#### **Inventories**

Increased mainly due to lower prepayments attributed to inventories MCHF -14.0

# Remaining MCHF 26.8 of convertible bond due Sep 2020

MCHF 24.9 in financial liabilities; rest split into equity component recognised in equity and transaction costs spread over remaining lifetime of bond

#### MCHF 30 mortgage loan

on building in Thun

#### Equity ratio of 54.6%

Increase in equity as result of the net profit contribution

		·			
	in TCHF	30.06 2018	in %	31.12. 2017	in %
7	Cash and cash equivalents	101 972		124 700	
	Trade and other receivables	63 565		59 177	
1	Inventories	101 353		83 314	
/	Prepaid expenses and accrued income	10 518		8 739	
	Total current assets	277 407	60.7%	275 930	58.7%
	Other long-term receivables	1 575		1 624	
	Property, plant and equipment	86 604		91 138	
	Intangible assets	15 497		24 380	
	Deferred tax assets	75 631		76 910	
	Total non-current assets	179 307	39.3%	194 052	41.3%
	Total assets	456 715	100.0%	469 983	100.0%
	Current financial liabilities	490		328	
	Trade payables	32 112		29 970	
	Customer prepayments	61 863		67 065	
	Current provisions	14 872		15 883	
	Other current liabilities	38 719		50 691	
	Total current liabilities	148 057	32.4%	163 938	34.9%
<b>&gt;</b>	Non-current financial liabilities	55 813		57 128	
	Provisions	271		1 565	
\	Deferred tax liabilities	806		1 364	
	Other non-current liabilities	2 604		3 031	
1	Total non-current liabilities	59 494	13.0%	63 088	13.4%
A	Equity incl. minority interests	249 163	54.6%	242 957	51.7%
	Total liabilities and equity	456 715	100.0%	469 983	100.0%

# **Analysis Net Working Capital**



		in TCHF	30.06. 2018	31.12. 2017	31.12. 2016
Increase in receivables by	>	Trade and other receivables	63 565	59 177	61 034
MCHF +4.4		Inventories (gross)	164 764	160 734	176 584
1	1	./. Allocated customer prepayments	- 63 411	- 77 420	- 81 344
Inventories (net) increased by MCHF +18.0 (reduction of	1	Inventories (net)	101 353	83 314	95 240
attributed customer		Other current assets <sup>1</sup>	10 518	8 739	6 399
prepayments MCHF 14.0)		Current assets excluding cash and cash equivalents <sup>1</sup>	175 435	151 231	162 672
		Current financial liabilities <sup>1</sup>	490	328	1 556
Overall decrease in customer prepayments of MCHF -19.2,		Trade payables	32 112	29 970	28 010
mainly due to weak incoming	$\stackrel{\textstyle \longleftarrow}{\longrightarrow}$	Customer prepayments	61 863	67 065	58 270
orders in H1 2018		Current provisions	14 872	15 883	9 614
	7	Other current liabilities	38 719	50 691	43 763
Net liability from construction contracts turned into a		Current liabilities	148 057	163 938	141 213
receivable in line with project		Net working capital	27 378	- 12 707	21 459
progress.					

## Change in NWC of MCHF +40.1

Increase in NWC mainly due to the lower customer prepayments and increase in trade/other receivables as well as inventories.

<sup>&</sup>lt;sup>1</sup> In the balance sheet 31 December 2016, straight bond values (repaid on 24 May 2017) of MCHF 129.93 (in current liability) and acquired own straight bonds MCHF 3.1 (in current financial asset) were not included in NWC calculation.

## Cash flow



#### CF from operating activities

- Before NWC changes MCHF +27.1 mainly thanks to the reduced cost base
- After NWC increase MCHF -16.4

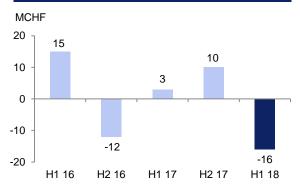
#### CF from investing activities

 Normal conservative net investments in non-current assets of MCHF 1.8

#### CF from financing activities

 Purchase of treasury shares for share participation programme of MCHF 4.1

#### Operating cash flow



in TCHF	H1 2018	H1 2017
Net result	8 292	- 16 962
Non-cash items	18 844	18 174
CF from op. activities before changes in NWC	27 136	1 212
Change in NWC	- 43 514	2 277
Cash flow from operating activities	- 16 378	3 489
Investment in securities (bonds)	-	- 15 065
Sale of securities (bonds)	-	18 125
Investments in property, plant, equipment, net	- 1 768	- 1 879
Investments in intangible assets, net	- 382	217
Sale of business activities Solar Systems	200	-
Cash flow from investing activities	- 1 950	1 398
Capital increases (follow-up costs capital increase Dec 16)	-	- 199
Purchase of shares of MB Germany after change control	-	- 105
Purchase of treasury shares	- 4 124	- 3 822
Repayment of (current) financial liabilities	- 40	- 130 036
Cash flow from financing activities	- 4 164	- 134 162
Cash, cash equivalents at beginning of period	124 700	246 427
Change in cash, cash equivalents	- 22 492	- 129 275
Currency translation effects on cash & cash equivalents	- 236	53
Cash, cash equivalents at end of period	101 972	117 205

#### **Conclusion / Guidance**



#### Our Outlook statements in March 2018

- Long-term outlook for solar industry remains attractive
- Meyer Burger will continue to drive technology roadmap in PV industry
- Return to profitability at net result level remains our major goal
- Targets for FY 2018
  - Net sales of about MCHF 450-500
  - EBITDA margin of about 10%

#### Comments / situation in August 2018

- ✓ MBT remains convinced of the long-term attractiveness of the solar industry
- Technology developments ongoing to protect leading position
- ✓ Achieved with the H1 2018 results. Long-term profitability to be protected by additional structural measures. Programme to start in H2 2018
- Targets for FY 2018
  - Net sales of about MCHF 400-440
  - EBITDA margin about 10% confirmed



# Questions & Answers



#### **Disclaimer**



Information in this presentation may contain "forward-looking statements", such as guidance, expectations, plans, intentions or strategies regarding the future. These forward-looking statements are subject to risks and uncertainties. The reader is cautioned that actual future results may differ from those expressed in or implied by the statements, which constitute projections of possible developments. All forward-looking statements included in this presentation are based on data available to Meyer Burger Technology Ltd as of the date that this presentation is released. The company does not undertake any obligation to update any forward-looking statements contained in this presentation as a result of new information, future events or otherwise.

This presentation is not being issued in the United States of America and should not be distributed to U.S. persons or publications with a general circulation in the United States. This presentation does not constitute an offer or invitation to subscribe for, exchange or purchase any securities. In addition, the securities of Meyer Burger Technology Ltd have not been and will not be registered under the United States Securities Act of 1933, as amended (the "Securities Act"), or any state securities laws and may not be offered, sold or delivered within the United States or to U.S. persons absent registration under an applicable exemption from the registration requirements of the Securities Act or any state securities laws.

The information contained in this presentation does not constitute an offer of securities to the public in the United Kingdom within the meaning of the Public Offers of Securities Regulations 1995. No prospectus offering securities to the public will be published in the United Kingdom. Persons receiving this presentation in the United Kingdom should not rely on it or act on it in any way.

In addition, the presentation is not for release, distribution or publication in or into Australia, Canada or Japan or any other jurisdiction where to do so would constitute a violation of the relevant laws or regulations of such jurisdiction, and persons into whose possession this document comes should inform themselves about, and observe, any such restrictions.