# SECOND QUARTER 2014



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# Agenda

REC Q2 Results	T. Torvund, CEO
Market Overview - Capacity expansion announcements - U.S. / China Solar Trade Issues - Yulin JV update	T. Torvund
Financial Overview	J. May, CFO
Guidance	T. Torvund
Q & A	

# REC Silicon ASA Second Quarter Highlights

**Revenues:** USD 126.9 million USD 31.6 million

#### Increased average polysilicon sales price

- ~4% polysilicon price increase over Q1
- FBR granular prices continue on par with spot indices

#### **Total Polysilicon production**

Silane III planned outage

#### Record Silicon gas sales

Increased volumes in all silicon gases

~5% silane gas price increase over Q1

#### FBR cash cost

Impacted by planned Silane III outage

Silane III 5-year inspection costs exceeded expectations

#### 4,375 MT

844 MT

\$14.30/kg

# REC Silicon ASA Q2 2014 Key Metrics

Financials	
Revenue	\$126.9 M
EBITDA	\$31.6 M
EBITDA Margin	25%

FBR Production	
Actual	3,686 MT
Guidance*	3,600 MT
Change	+2.4%

FBR Cash Cost	
Actual	\$14.30/kg
Guidance*	\$13.40/kg
Change	+6.7%

<b>Total Polysilicon Production</b>		
Actual	4,375 MT	
Guidance*	4,350 MT	
Change	+0.3%	

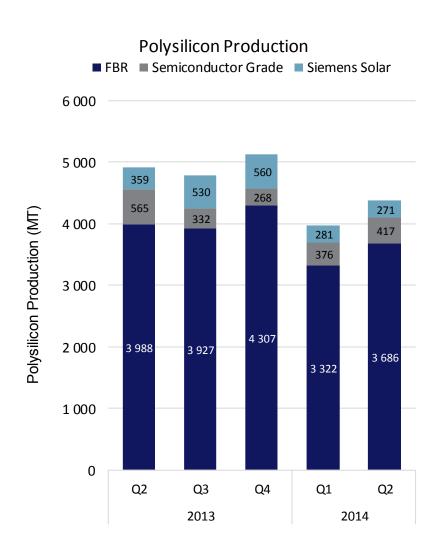
Semiconductor Production		
Actual	417 MT	
Guidance*	430 MT	
Change	- 2.9%	

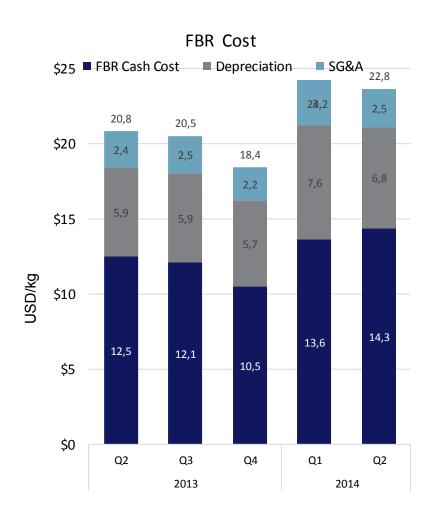
Silicon Gases Sales Vol.		
Actual	844 MT	
Guidance*	800 MT	
Change	+5.6%	

<sup>\*</sup> Guidance presented May 9, 2014

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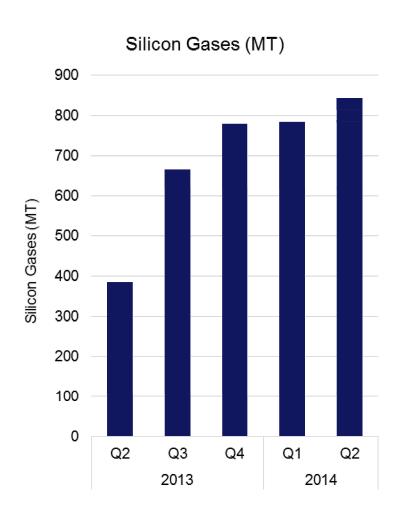
# Polysilicon Production and FBR Cost





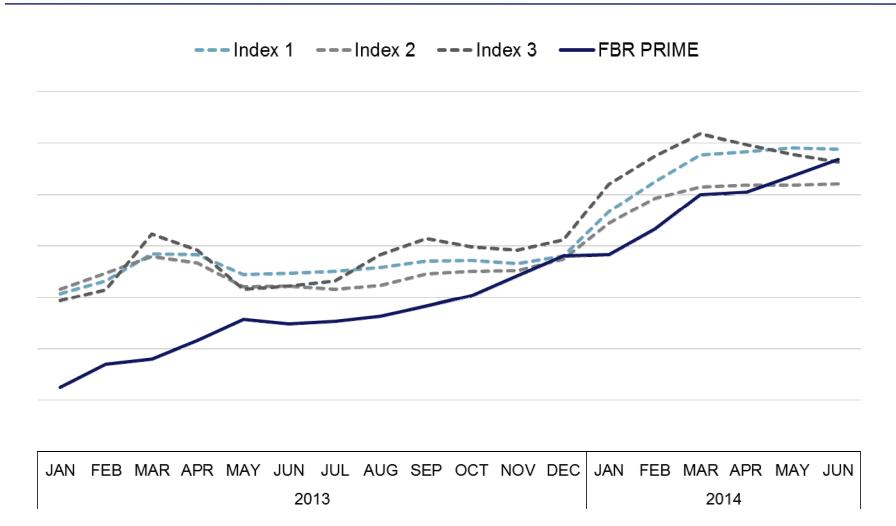
## Q2 2014 Silicon Gas Sales: Record Sales Volume

- Volumes 5.6% over guidance
- Silane gas price increase 5% over Q1
- PV and Flat Panel Displays demand up slightly
- Offline competitive capacity has not fully returned





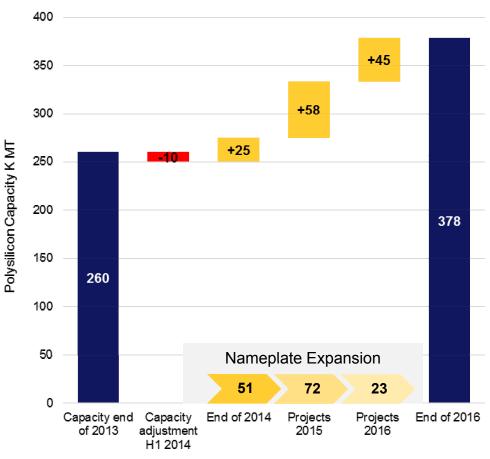
# Spot Indices vs. REC Prime Granular



## Productive Capacity Evolution: 2013 - 2016

- New capacity takes time to impact the market
- Limited greenfield projects, recent additions are debottleneck and incremental additions only (replacing older capacity at site)
- More balance upstream as polysilicon supplied to the market is aligned with wafer/cell production forecasts

#### Productive Capacity Evolution (2013 - 2016)



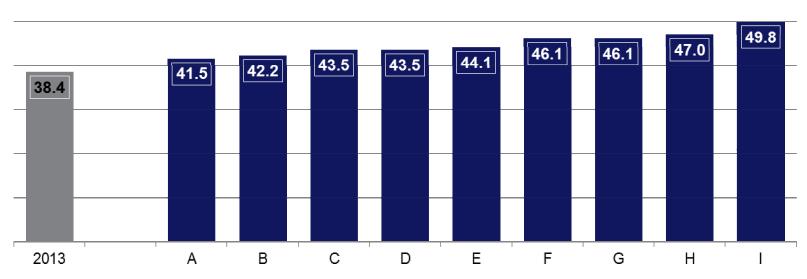
Note: Estimated incremental capacity is the realistic additional capacity able to supply the market at that given year. This takes into account a ramp factor and commissioning schedules. The balance from nameplate is carried over to Year 2 of operations.



## External View on PV Demand 2014

- Estimates have narrowed to 42-50 GW (40-56 GW prior), but demand likely to end up in the lower range due to recent market developments
  - China now expects 2014 installations to come in at 10 GW compared to prior target of 14 GW
     Distributed Grid (Rooftop) PV from 8GW to 4 GW
  - AD/CVD ruling in the US creates uncertainty in the US demand

#### New PV Installations Forecast (GW) (45 GW Avg)



Note: Based on available PV demand forecasts as of end-May 2014.

# US/China Solar Trade Update

- REC is continuing to sell its solar grade polysilicon into China by working with customers to utilize available options under existing laws, namely the "Process in Trade," under China Customs laws
- New US trade cases filed at the end of 2013 against China and Taiwan resulted in preliminary CVD duties against Chinese panel producers on June 2, 2014, preliminary AD orders against China & Taiwan are scheduled to be announced July 24, 2014
- We understand that the Chinese panel makers have lower costs workarounds to the new duties and are continuing to ship panels into the US, and continue to have access to the US panel market
- Political and diplomatic negotiations between the US and China are underway to resolve but outcome and timing are uncertain

## Market Update

#### Solar Grade Polysilicon

- Installation for Q2 sequentially flat, but demand normally back-loaded every 2<sup>nd</sup> half
- Average spot indices up approximately 4% from the previous quarter
- After a sustained increase earlier in the year, indices have stabilized around \$21/kg since March
- Major market influences
  - Distributed Generation PV deployment in China
  - US AD/CVD decision
  - Upside in Japan due to more competitive system pricing and land integration resolution

### Semiconductor Polysilicon

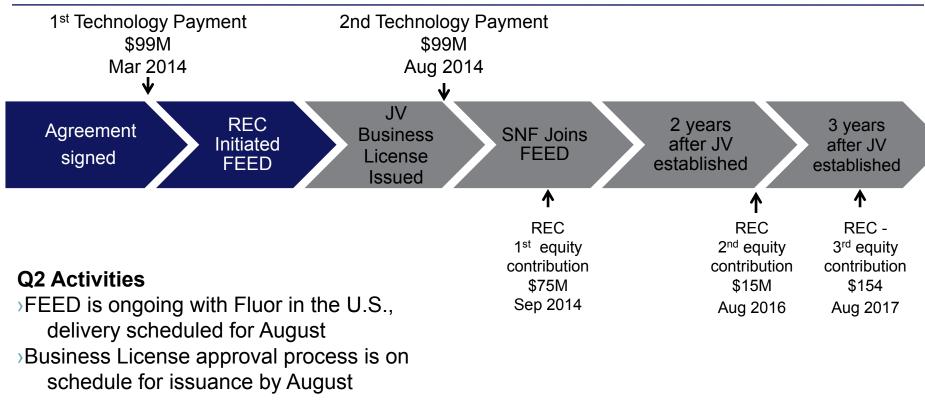
- In terms of unit shipment, market continues to be flat due to excess inventories
- Prices remain stable and are not sensitive to short term changes in demand

#### Silicon Gases

Demand continued to be robust due to strong PV and TFT markets



# Yulin JV Update



#### **Q3** Activities

- Business License and establishment of Yulin JV company
- > Completion of FEED in the U.S., Project to move to China
- Second \$99 Million Technology Payment
- SNF and REC make first capital contributions



## **RECSILICON**

## **REC Silicon Group**

# Financial Results – Total and Continuing Operations

(USD million)		Q2 2014			Q1 2014	
	Revenues	EBITDA	EBIT	Revenues	EBITDA	EBIT
REC Silicon	126.8	33.1	(0.2)	113.3	19.5	(13.9)
Other & eliminations	0.0	(1.5)	(1.5)	0.1	(2.0)	(2.0)
REC Silicon & Other	126.9	31.6	(1.7)	113.4	17.5	(15.9)
REC Solar	-	-	-	-	-	-
Gain/Loss on disposal of disc. oper.	-	0.3	0.3	-	(1.5)	(1.5)
Eliminations						
Total Operations	126.9	31.9	(1.4)	113.4	16.0	(17.4)
Discontinued operations		(0.3)	(0.3)		1.5	1.5
Continuing Operations	126.9	31.6	(1.7)	113.5	17.6	(15.9)

#### > REC Silicon & Other

- The continuing operations

## > EBITDA of USD 31.6 million

- US Operations EBITDA USD 33.1 million
- Parent Company Expenditures of USD 1.5 million

## REC Silicon & Other

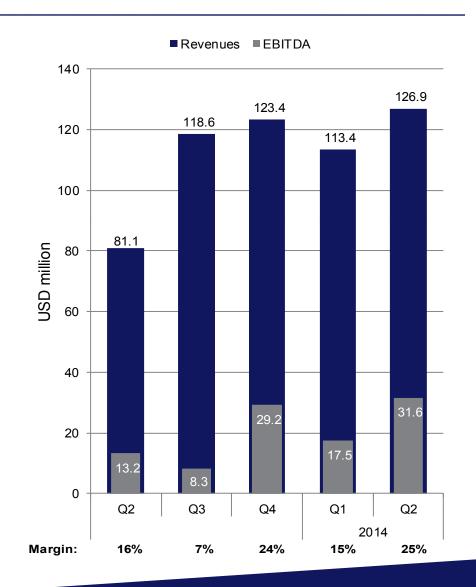
# **Key Financial Results**

#### Revenues - USD 126.9 million

- Increased polysilicon revenues
  - ~4% Price increase from Q1'14
  - ~2% Volume increase from Q1'14 (Excluding Fines & Powders)
- Continued strong silicon gas volume
  - High spot market sales due to offline competitive capacity

#### EBITDA - USD 31.6 million

- ~80% increase from Q1'14
- **Higher Prices**
- **Higher Volumes**



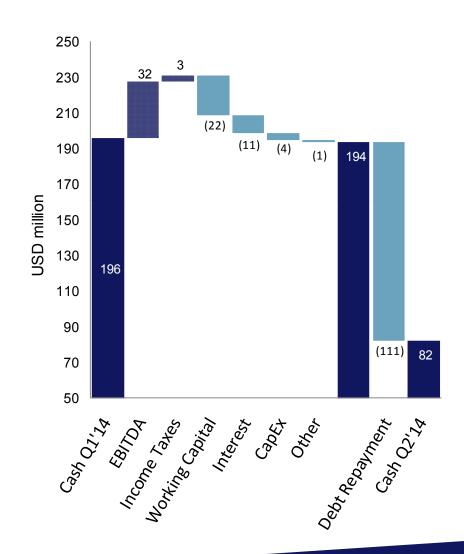
## Cash Flows

## Operations - USD 1.5 million

- Working capital change due to:
  - Increased accounts receivable
  - Increased inventory

## Repayment of Debt

> EUR 81.2 million convertible bond on June 4, 2014



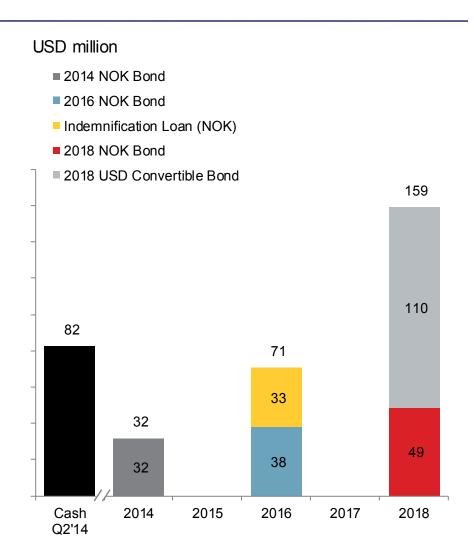
# **Debt Maturity Profile**

#### Nominal Net Debt - USD 179 million

Reduced by USD 134 million from Q4'13

#### Nominal Debt - USD 261 million

- Reduced by USD 116 million during 2014
- Repayment of EUR 81 million convertible bond





# Key Performance Metrics – Looking Forward

FBR Production		
Q3	4,250 MT	
Q4	4,400 MT	
2014	15,650 MT	

FBR Cash Cost		
Q3	\$11.20/kg	
Q4	\$11.10/kg	
2014	\$12.50/kg	

Silicon Gas Sales		
Q3	800 MT	
Q4	800 MT	
2014	3,200 MT	

Semiconductor Production		
Q3	350 MT	
Q4	320 MT	
2014	1,450 MT	

Total Polysilicon Production	
Q3	5,000 MT
Q4	5,260 MT
2014	18,600 MT

СарЕх	
2014	\$25 M



Q3 Reporting November 4, 2014

