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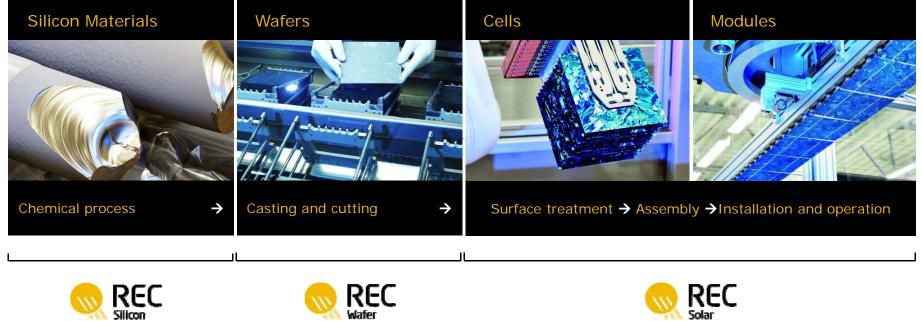
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The world's most integrated solar energy company











Full-year 2006 performance

Divisions		REC Wafer	REC Solar	
2006 Production	5 600 MT polysilicon 8 000 MT monosilane	275 MW multicrystalline 31 MW monocrystalline	37 MW cells 33 MW modules	
2006 vs. 2005	+6%	+37%	+100%	
2006:				
Revenues:	NOK 2 128 mill	NOK 2 456 mill	NOK 873 mill	
EBITDA:	NOK 1 063 mill	NOK 825 mill	NOK 194 mill	
2007 target production	~6 000 MT polysilicon ~9 000 MT monosilane	~465 MW multicrystalline~35 MW monocrystalline	~50 MW cells ~45 MW modules	



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Solar energy development forecast

Oil Coal Gas Vuclear Hydro Bio Wind PV Solar - other Other Unlimited \rightarrow 1 800 renewable source of supply 1 600 1 400 Increasingly cost 1 200 competitive (EJ/Year) 1 000 Decentralized 800 power source 600 Peak power at peak 400 time of usage 200 Environmentally 0 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100 friendly

Source: solarwirtschaft.de

Declining stock of fossil fuels, climate changes and increasing competitiveness of PV systems will boost usage of solar energy over the next century

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Cost competitiveness of PV electricity

1.0 900 hrs/year: ~0.50 €/kWh 0.8 1 800 hrs/year: ~0.25 €/kWh 0.6 (€/kWh) 0.4 0.2 0.0 1990 2000 2030e 2040e 2010e 2020e Photovoltaic Utility peak cost Bulk cost

Source: REC, based on EC Vision Report 2005 (EPIA: Towards an Effective Industrial policy for PV (RWE Schott Solar))

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Energy price development triggers strong demand for solar energy

CA residential electricity price (€/kwh) and demand Average electricity prices for retail customers (€/kwh) JPN CAL Residential el. price ITA GER 0,35 Million households in 2001 0,25 ~0.25 €/kWh 0,30 0,23 3,80 0,21 0,25 3.50~0.25 €/kWh 0,19 0,20 0,17 0,15 2,00 0,15 1.80 0,10 0,13 1,25 0,05 0,11 0,09 0,00 2000 2002 2008 Tier 1 Tier 2 Tier 3 Tier 4 Tier 5 2004 2006 2010

Source: Respective national energy departments, REC estimates

Source: PGE, CEC



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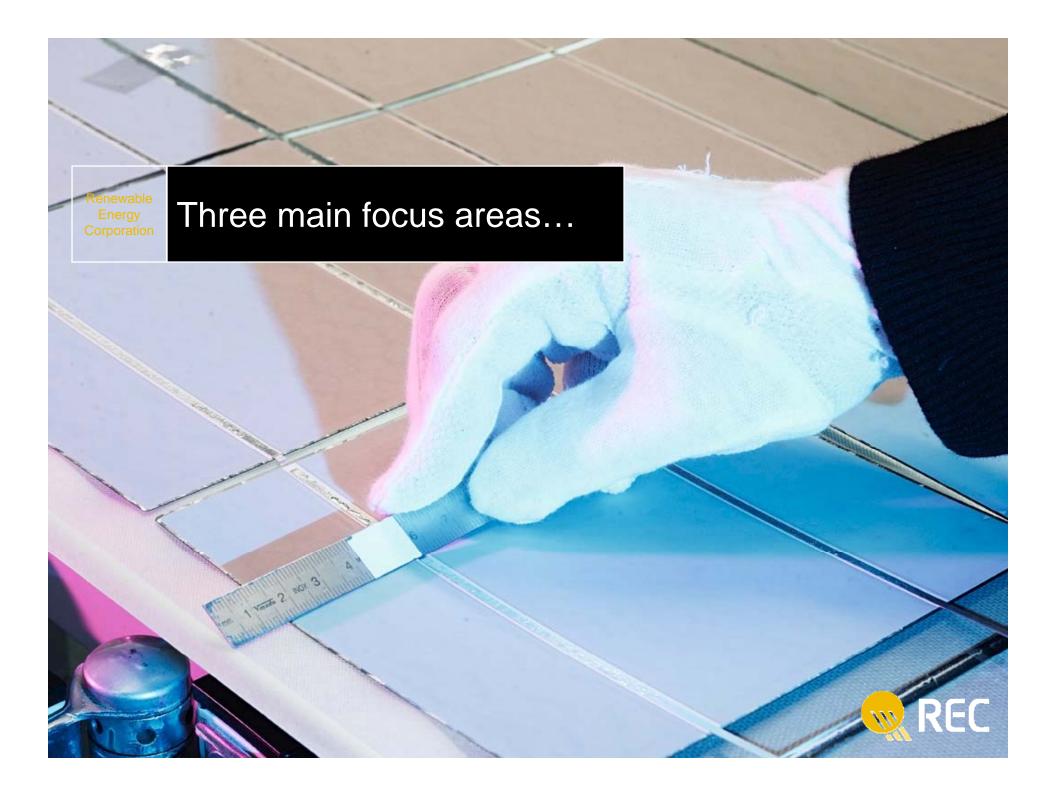
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Renewable Energy Corporation

REC Group

Our ambition is to generate strong and profitable growth, at least in line with the high-growth photovoltaic solar market. REC aims to achieve this by further expanding capacity and introducing new technologies across all our businesses





1. Aggressive growth ambitions - view of ~2010

KEI $\prime\prime\prime$ 111 Silicon Wafer Solar Cells Modules Polysilicon Wafers New capacity in progress ~650 MW expansion ~500 MW opportunity 6 500 MT Herøya III & IV (~865 MW) **Granular material** ~180 MW ~55 MW ~45 MW ~45 MW ~100 MW productivity gains 1 000 MT (~135 MW) ~580 MW ~550 MW allocated to cell customers 6 000 MT (~800 MW) 1 450 MT allocated to EverQ expansion (33.3% owned) < 2 000 MT allocated to electronics customers

Additional revenue and profit growth contributed by increased silane gas sales



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2. On track with the targeted cost program

REC 2010 cost road map Figures in % 100 % 90 % Polysilicon 80 % 70 % Wafer 60 % 50 % 40 % Cell 30 % 20 % ■ Module 10 % 0% World Class **REC 2010 2005**¹ Ambition² Source: REC

Note 1: Cost structure as cost per watt of modules, based on world class production 2005

Note 2: Cost structure as cost per watt of modules, relative to 2005 level

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 REC Silicon targets ~60 percent reduction in polysilicon cost input

- Main benefits will be derived from the FBR-plant and lower consumption
- REC Wafer targets ~50 percent reduction in wafer conversion cost
 - Achieved ~15 percent in 2006
 - Further advanced technologies to be implemented in new production lines
- REC Solar targets significant reduction in cell and module cost input
 - Achieved ~10 percent in cell and ~5 percent in module in 2006
 - Further advanced technologies to be implemented in new production lines



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BU focus and organization build up in each division to ensure autonomy and growth

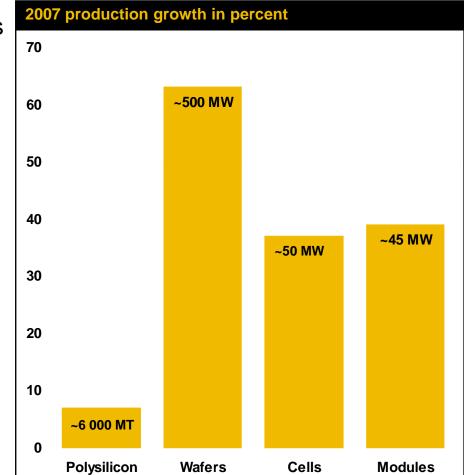


REC Group outlook – 2007 targets

- Continued focus on cost improvements
 Execution of expansion programs

 REC Silicon: Construction of FBR-plant; debottlenecking program at Butte
 REC Wafer: Continue ramp-up of the new 200 MW plant; begin construction of the two new plants of 650 MW
 REC Solar: Ramp-up first phase of 180 MW cell expansion in Narvik and 55 MW module expansion in Glava
 EverQ: Complete ramp-up of additional 60 MW expansion

 Pricing outlook on a full year basis
 - REC Silicon increase of above 15 percent
 - REC Wafer increase of above 10 percent
 - REC Solar reduction of up to 5 percent



Note: Polysilicon production measured in MT. Wafers, cells and modules in MW



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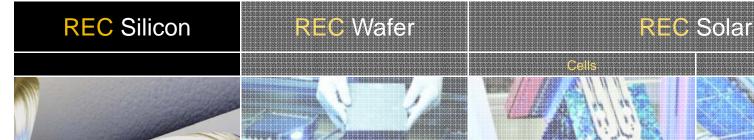


REC Silicon REC Silicon **REC** Wafer

REC Silicon produces silicon materials for the electronics and the photovoltaic markets

- REC Silicon is a large player in the global silicon materials industry
 - #1 producer of polysilicon for photovoltaic applications
 - #1 in monosilane gas production
 - #3 in overall polysilicon production

Chemical process (purification)

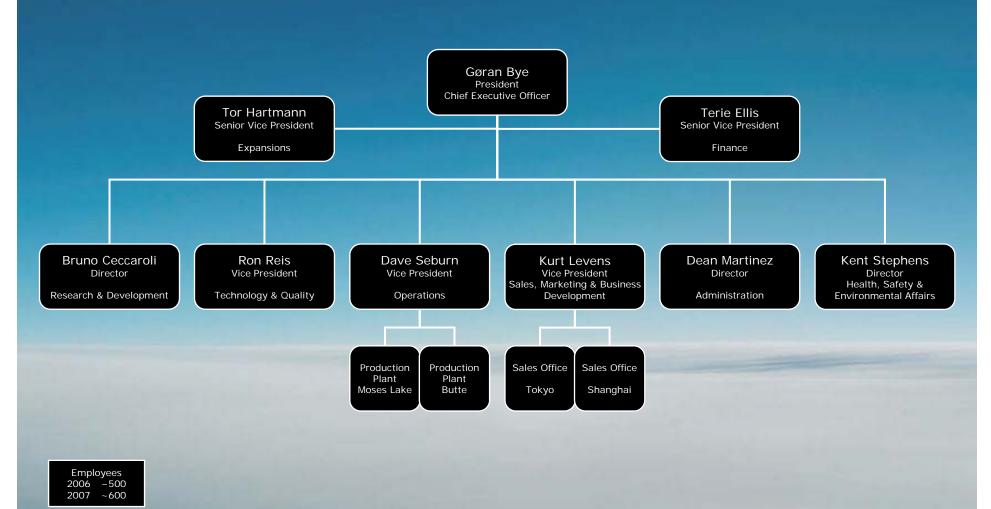






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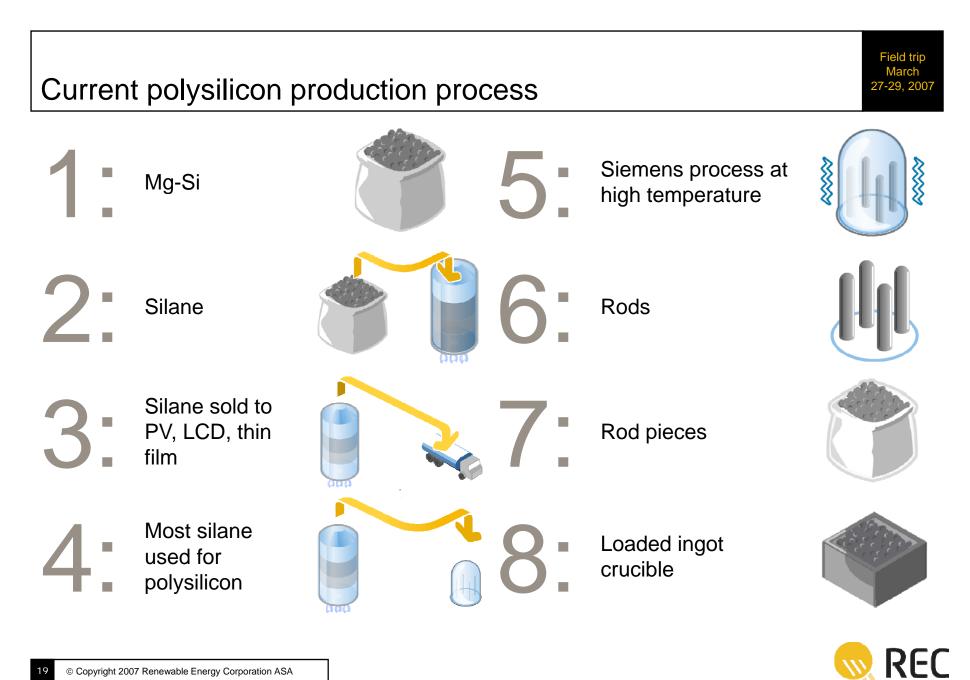
REC Silicon – organization



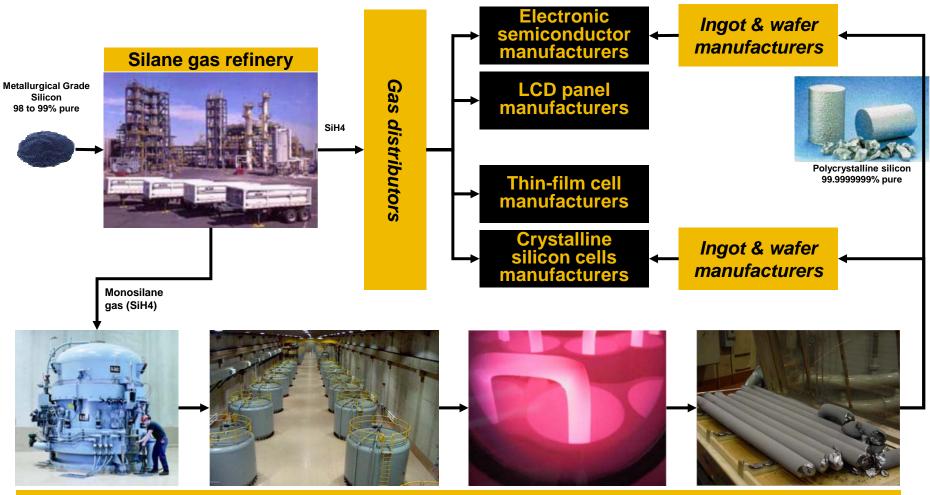


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REC Silicor	h – history	
THESE		
1983 to 1984	Construction of Moses Lake Plant by Union Carbide Corp.	
1990	Moses Lake Plant purchased by Komatsu Ltd., creating Advanced Silicon Materials Inc. (ASiMI)	
1996 to 1998	Construction of Butte Plant	
13 00		
2002	Moses Lake plant becomes Solar Grade Silicon LLC via Joint Venture between Komatsu and REC	
2005	ASiMI purchased by REC, creating REC Silicon	
2006	REC Silicon breaks ground on third polysilicon plant, Moses Lake, USD 600 million, and decides to invest USD 50 million in Butte plant	
2007	REC Silicon decides to invest USD 50 million in long lead items for further expansion	
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Value creation at REC Silicon



Siemens reactor based polycrystalline silicon deposition process



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Growth & cost initiatives: New granular polysilicon plant

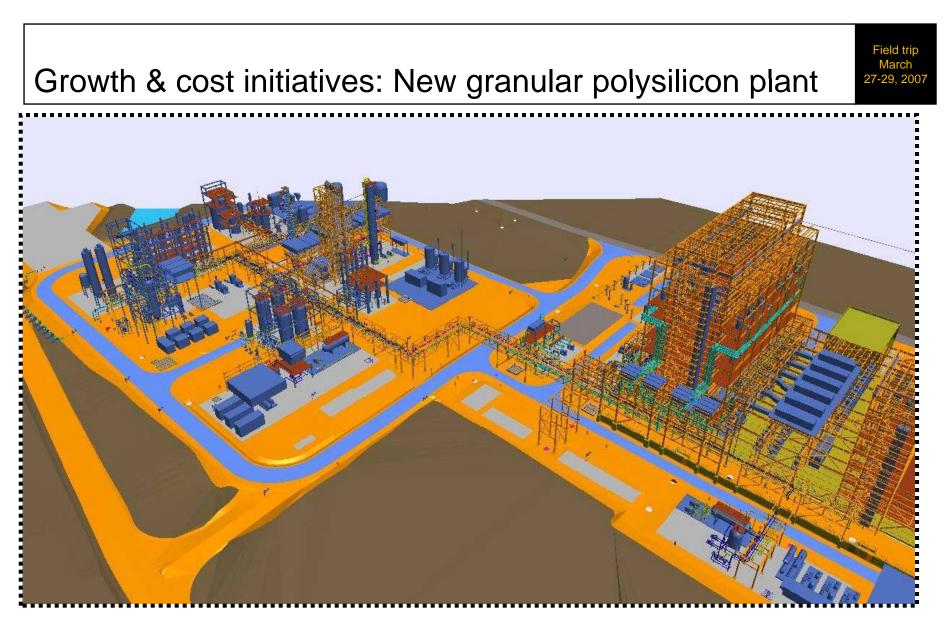


- → Plant capacity ~ 9,000MT Silane and ~ 6,500 MT granular polysilicon
- Project is on plan
 - Ground-breaking in August 2006, construction commenced in 2007
 - Online in second half 2008



Expansion site







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Growth & cost initiatives: De-bottlenecking in the Butte plant

- Increasing peak capacity and reliability of the silane unit
- Modifying around 1/3 of the poly deposition reactors (Siemens)
 - Increased polysilicon deposition rate through rebuild of gas circulation
- Investment: USD 50 million
- Additional 2,000 MT of silane gas
 - ~1/3 dedicated to the merchant market
- ~1,000 MT additional polysilicon
- Reducing cost significantly
 - Up to 50% lower electricity consumption in the polysilicon deposition
 - Close to 20% reduction on total cost
- → Full effect from the end of Q2 2008

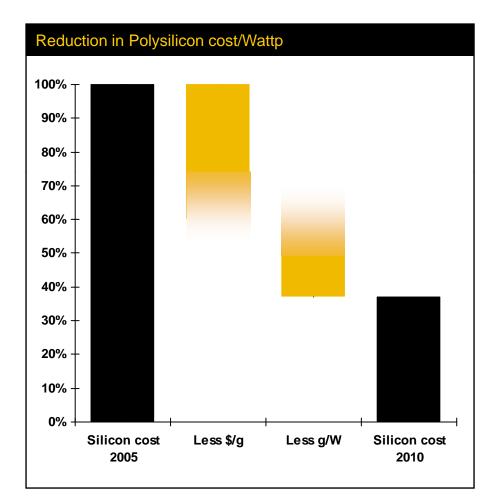






Polysilicon cost roadmap 2005 - 2010

- New plant with granular and scaled-up silane processes will almost halve the (full) cost
- Thinner wafer, thinner wire and higher cell efficiency contribute further
- Status
 - FBR plant currently being built
 - Group's silicon consumption per Wp rapidly declining
 - Potential beyond "2010 roadmap" identified



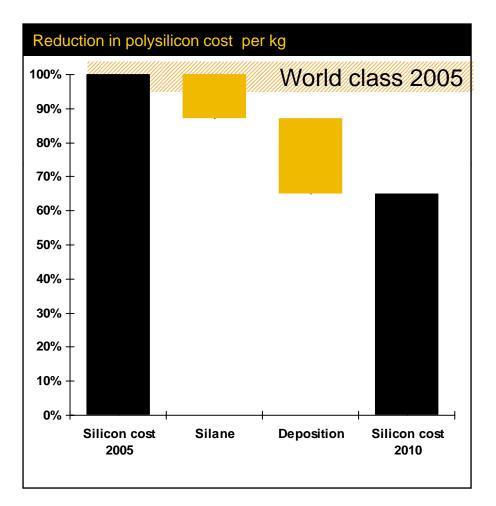


Field trip



Large savings in both silane and FBR process

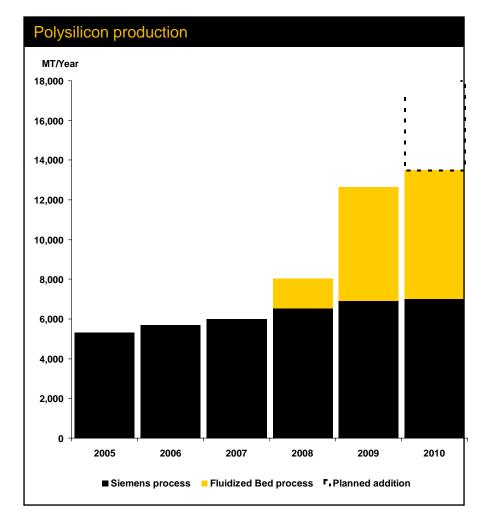
- Silane costs declining due to scale and optimization
- Granular energy consumption is 80 90 % below typical Siemens process
 - Hot wall design versus cold wall which draws off energy
 - Granular cost saving is increasing with increasing electricity prices
- Capital and labor cost reduced due to continuous processes





Result of the growth strategy





- De-bottlenecking and construction will continue 2007 – 2009
- Impact on performance
 - Start-up and ramp-up cost
 - 'Unusual' timing of smaller production shut-downs to accommodate tie-ins and implementation of new technology
 - Difficult to guide on exact timing
- Additional capacity extensions in progress
 - Ordered long lead items (USD 50m)
 - Additional silane gas production
 - Further modification of Siemens Rxs
 - Exploit demonstrated increased productivity and yield in FB Rxs





REC

ANNA

Silicon Technologies



Several technologies are in play today for producing PV wafers/cells

- Upgraded MGS
 - Elkem, Dow Corning, JFE, Nippon Steel, Becancour, Ferro Atlantica, Scheuten, Solar Value...
- Siemens:
 - Silane: REC Silicon
 - Trichlorosilane: Hemlock, Wacker, Tokuyama, MEMC, numerous new entrants

- Fluid Bed:

- Silane: MEMC, REC Silicon in production / building full scale plant
- Trichlorosilane: Hemlock, Wacker status is uncertain
- Thin Films
 - Silane based: Applied Materials, Oerlikon, UniSolar, Kaneka, Mitsubishi Heavy Industries, CSG Solar...
 - Copper Indium Gallium diSelenide based: Nanosolar, Heliovolt...
 - Cadmium Telluride based: First Solar...
 - Organic: in development



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Silicon Technologies

→ Upgraded MGS

- Cost Projection:
- Quality Projection:
- Global Capacity Projection:

Slag Refining

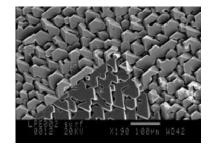
<USD 20/kg¹ Typical resultant cell efficiency around 15% ¹ 5,000 MT/year mid 2008; 35,000 MT indicated in 2011

Leaching

Solidification







- ¹ From ORKLA Investors Presentation 27-October-2006 on Elkem Solar



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Silicon Technologies

Siemens

- Cost: Ranges USD 25 USD 45/kg (what will cost be for new entrants?)
- Quality: Highest purity polysilicon, basis for typical and high efficiency cells
- Capacity: Roughly 35,000 MT globally in 2006; growing significantly by 2011: 175,000 MT announced, planned and rumored







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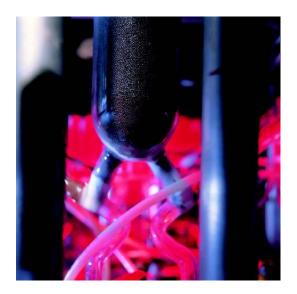
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Silicon Technologies

Fluid Bed

- Cost: <70% of Siemens/kg (REC Silicon)</p>
- Quality: Demonstrated commercial cell efficiency both internally and externally (REC Silicon); also potential for electronics use (already used by MEMC)
- Capacity: ~13,000 MT worldwide by 2009







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Silicon Technologies

Thin Film

- Cost: Averages 800 kg of silicon per MWp
- Quality: Scale demonstrated efficiencies at 10%, CSG Solar micro-crystalline module
- Capacity: 2006: ~125 MW per year, but larger facilities under construction: >1 GW in 2011

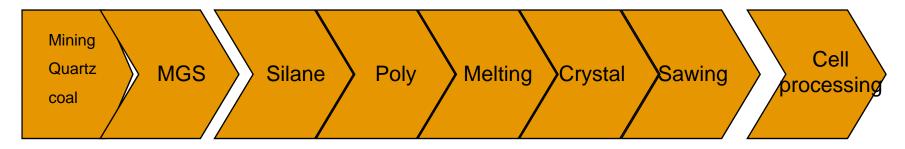


- Photo courtesy of CSG Solar



Silicon Technologies – why so many different initiatives?

Process steps in the value chain



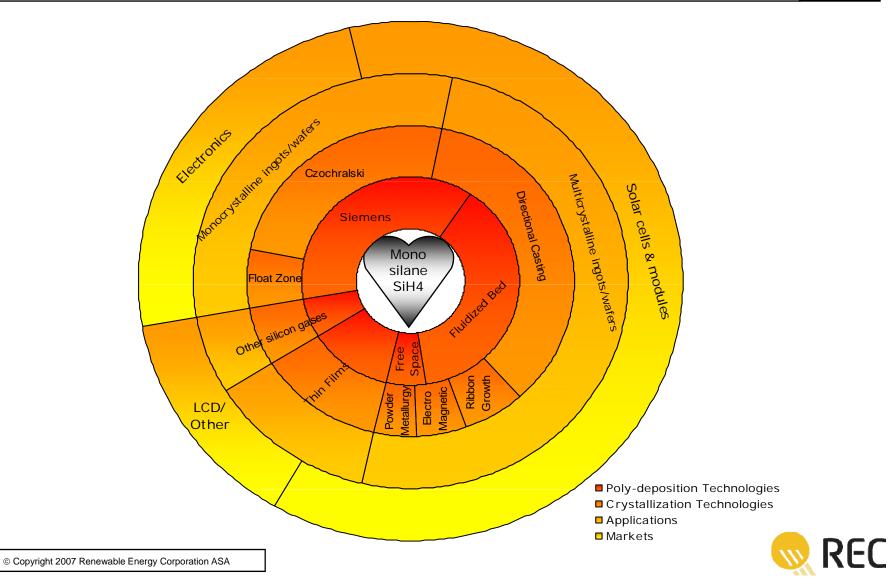
- Ourrent technology (and business) chain is fragmented
- Batch to batch, not continuous
- Considerable loss of energy and materials (within and between the steps)
- Oost decrease calls for simplification and re-engineering



Field trip

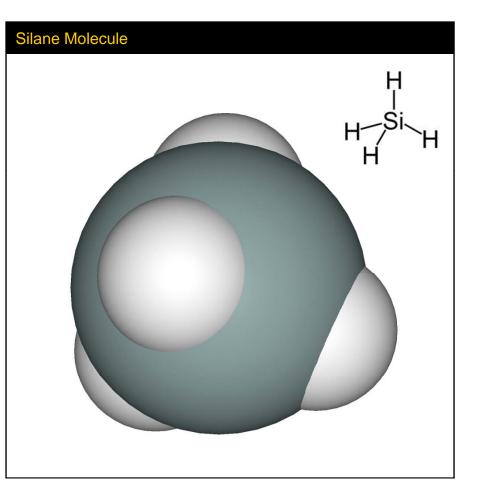
REC Silicon's technology is superbly positioned





Silane gas is the starting point

- Silane: one silicon atom attached to four hydrogen atoms
- Purest form of silicon in the world. Purity measured to single digit parts per trillion for some elements (phosphorous, boron, etc)
- Our process chemistry seems simple, and is:
 - − Si (98% pure) + STC + H2 \rightarrow TCS
 - TCS → SiH4 (internally recycles chlorosilanes)
 - SiH4 → Si (pure) + 2 H2







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Silane to polysilicon technology

 Silane closed loop and "green" process

→ Input:

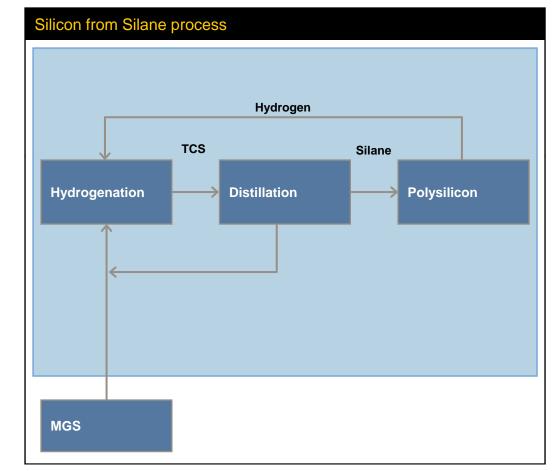
- Metallurgical silicon

Output:

- Silane gas

Recycles

- Chlorosilanes
- Hydrogen
- Highly efficient, consumes all raw materials with no need for off site reprocessing





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Trichlorosilane to polysilicon technology

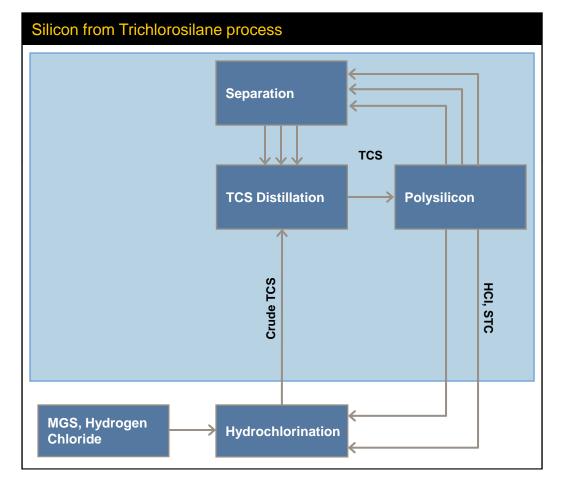
TCS open loop process

Input:

 Metalurgical silicon, hydrocloric acid (HCL)

Output:

- 1 part silicon
- 1 part hydrochloric acid
- 1 part silicon tetrachloride
- Less efficient, typically external recycling of byproducts





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REC Silicon's silane technology is based upon knowledge

Effect

Intellectual Property

Over 85 issued or pending patents for silane and silane based polysilicon technology	Freedom to operate = lowest cost
On-going research into core technology: US and Norway	Lowest manufacturing cost, new silane derivatives
Proprietary operational and maintenance practices	Reliability, safety, lowest cost
Experience: Over 25 years operating silane to polysilicon plants and >500 trained, knowledgable employees	Reliability, safety, lowest cost



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Impact

Silane requires careful handling

→ Safety issues:

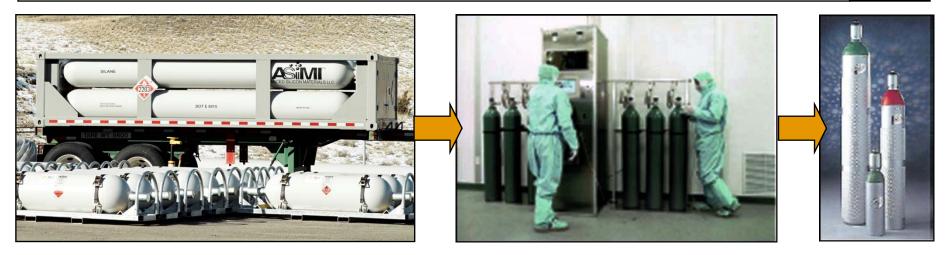
- Silane is an pyrophoric gas.
- Chlorosilane intermediaries (TCS; DCS; MCS) are corrosive and flammable

→ Safety focus :

- 25 years of experience, including some very difficult lessons in the hazards of this business
- Full compliance with US government regulations for chemical manufacturing: Process Safety Management (PSM)
- On going research into materials characteristics, fundamentals of reactivity and product safety
- Provide support services to all customers on silane safety and product handling
- Proprietary knowledge in equipment design and operation for silane and polysilicon manufacturing are being incorporated into REC Silicon III plant
- Awarded 2006 Air Liquide Global Supplier of the Year for Safety



Indirect sales channel for Silane

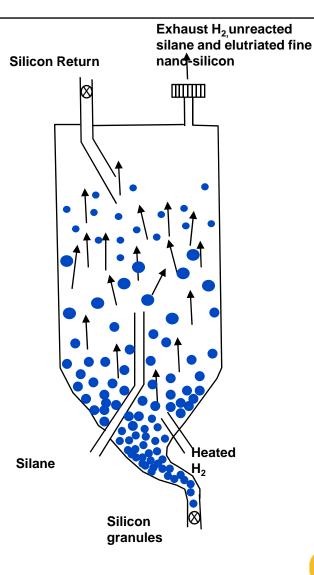


- REC Silicon's silane sales is a small part of the gas companies' overall business but a healthy 10-20% of their specialty gas trade
 - The silane gas is sold in bulk (3-6 MT) to the specialty gas operations of major gas companies, which trans-fill the gas to smaller containers (1-250 Kg)
 - Silane and other specialty gases, chemicals and services are sold to end-users as a "package"
- Pricing strategies have encouraged gas companies to buy from REC Silicon while entry barriers have discouraged new competitors from entering
 - Unique competitive advantages: Scale and delivery ability, precision and technical support



Polysilicon Deposition Technology

- Fluid Bed energy consumption is significantly less than Siemens process:
 - Continuous process versus batch processing
 - Hot Wall design versus cold wall which draws off energy
- Demonstrated pilot unit, qualified by PV customers
- REC has invested over 10 years of research in silane based fluid bed deposition, culminating in a successful process.



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😡 REC

Fluidized Bed Reactor less favorable with TCS

- Silane is a preferred choice for fluidized bed polysilicon deposition reaction
 - Readily decomposes with low energy demand to silicon and hydrogen only
 - No competing counter reactions such as can be found with TCS: hydrochloric acid gas resulting from TCS decomposition can attack formed silicon, lowering total yields
- Granular polysilicon quality can be very pure, even acceptable for semiconductor purposes





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Critical success factors - fluidized bed development

Success factors Approach Impact Control powder formation to avoid plugging Nozzles optimized and patented **Productivity** Control powder formation to maximise yield Nozzles optimized and patented Yield Pure, low cost seeding of small granules Self-seeding technology developing. Cost and product purity Long production runs Continuous optimisation Productivity and yield Purity Careful material choices & procedures **Product purity**

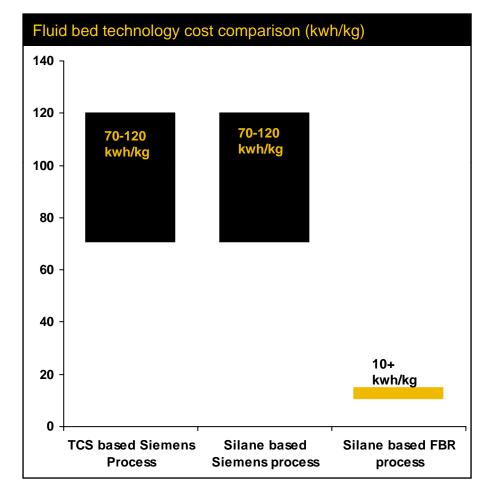


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Silane based FBR : World lowest energy consumption

- Energy costs are major factor in polysilicon deposition technologies
- Fluid Bed technology reduces this cost by approximately a factor of 10, because:
 - No need for traditional Siemens "cold wall" design which draws energy out of the process and results in inefficiencies
 - Continuous process versus batch which more efficiently utilizes input energy



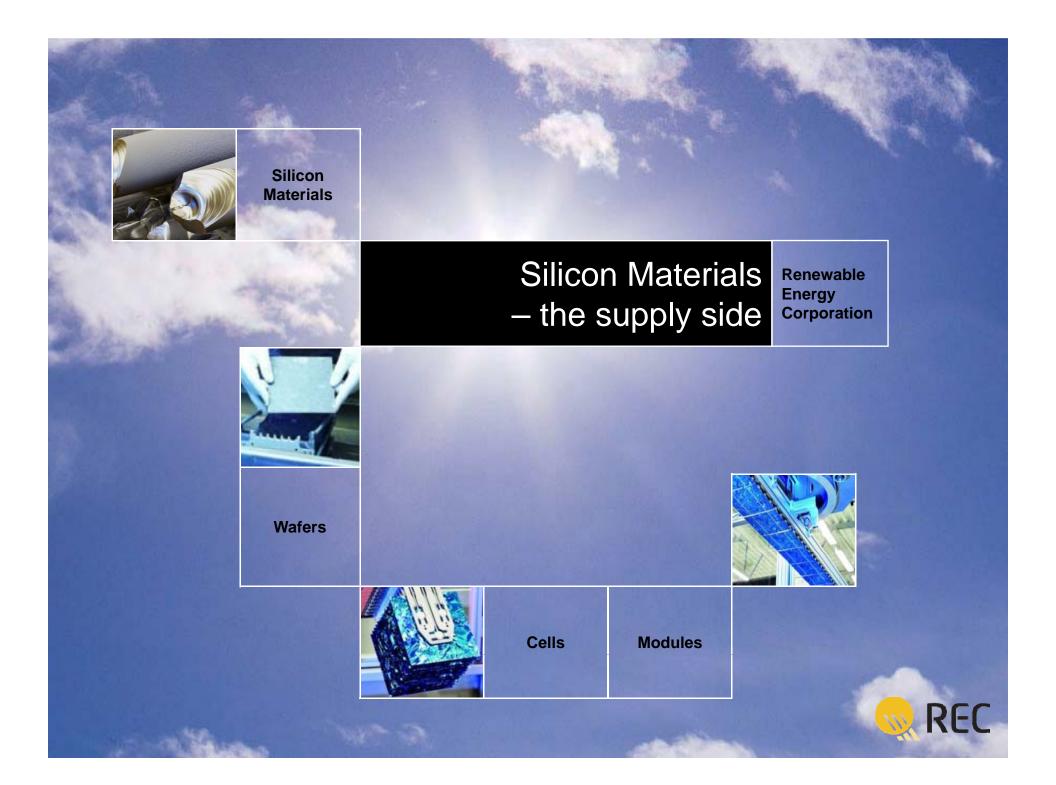


FBR Technology at REC Silicon



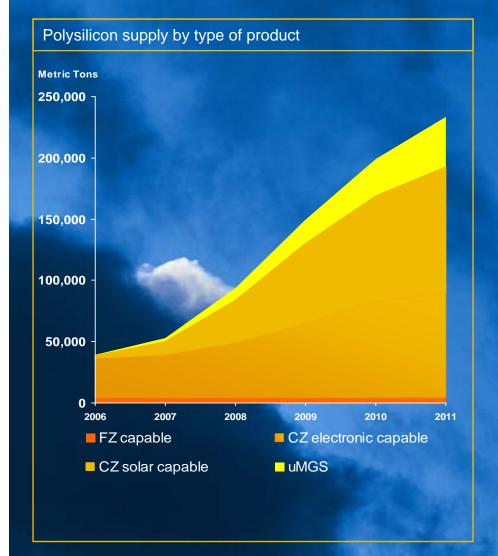
- REC Silicon continues to run granular test production
 - More process experience gained while producing qualifying material through 2007
 - Final verification of product quality achieved with very good results
 - Maintaining development program to improve this core technology
- Construction of the new plant is progressing on schedule
 - The plant will have a capacity of ~ 9,000MT Silane and ~ 6,500 MT polysilicon
 - The plant will come online in 2008 Q3 with six to nine months of ramp-up
- REC Silicon and its predecessor have worked on developing the technology since mid 1990's
 - It is a proven technology
 - REC is already working on next generation FBR

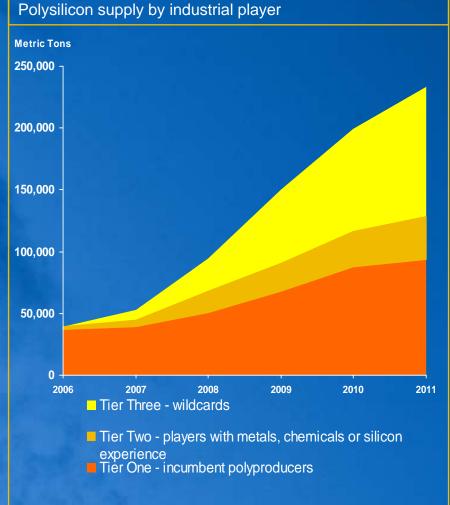




Announced, planned and rumored supply of silicon materials until 2011

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Silicon materials fungibility

			Multi Cast	Mono	Multi emc	Ribbon	Spheral Cells	Thick Films	Thin Films
uMGS			YES	?	?	no	Yes	no	no
REC Silicon	Silane TCS	Chunk Poly	YES	YES	yes	no	no	no	no
	Silane (TCS?)	Granu- Iar Poly	yes	YES (replenish)	YES	YES	yes	yes	no
	Silane	Powder	no	no	yes	yes	yes	YES	no
	Silane	as gas	no	no	no	no	no	yes	YES
TCS/DCS as gas			no	no	no	no	no	yes	no



Silicon materials demand development

- Strongest driver will continue to be the growth of PV
 - Long term growth dependent on solar power becoming competitive
 - Potentially very large demand for silicon materials even though Si g/Wp will continue to decrease
 - Relationship between short term PV-growth and demand for silicon materials will be "non-linear" due to value chain inefficiencies
 - Large underutilized downstream capacity
 - Close to non-existent silicon inventories
 - Contracted volumes versus actual timing of new production and financial viability of purchasers
- But don't forget the electronic segment
 - Prognosticators say electronics demand will be higher than earlier expected
 - Accelerated blurring of the borders between electronics and PV
- Increasing importance of materials purity
 - The quest for higher efficiency cells and modules will trickle down to silicon purity
- Silicon value chain as well as silicon "form factor" likely to evolve
 - Polysilicon chunk versus particulate silicon versus silicon gases



Competitive advantages in silicon materials



- → The best positioned suppliers will be characterized by:
 - Cost of production
 - Quality of customers and relationships
 - Contract structure
 - State of technology and IPR
 - Fungibility of the silicon products



Thank you

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