



THE NEW DAWN OF SOLAR PANEL MANUFACTURING

***CLEAN TECH TRANSFORMATION OF QUARTZ TO SOLAR GRADE SILICON METAL
IN ONE STEP WITH PYROGENESIS' PUREVAP™ QUARTZ VAPORIZATION REACTOR***

URAGOLD



URAGOLD

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TSX-V Symbol:	UBR
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As of January 31, 2016

Share Price	\$0.055
52 Week High / Low	\$0.020 \$0.065
Shares Outstanding:	110,256,980
Warrants:	51,857,881
Options:	7,562,500
Fully Diluted:	169,677,161
Market Capitalization:	\$6,064,134

MANAGEMENT AND DIRECTORS

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Chairman and CEO

bernard.tourillon@uragold.com

Patrick Levasseur

President, COO and Director

patrick.levasseur@uragold.com

Robert Robitaille, B.A., L. Ph., MBA

Director

Noelle Drapeau, LLL, MBA, PMP

Corporate Secretary and Director

Richard Mimeau, B.Sc.

Director

Peter Smith, PhD, P.Eng.

Director

Francois Rivard / CFO

Consultants

Marcel Drapeau, B.A., B.Sc. Com., LLL

Company Lawyer

Vivian Stuart-Williams, M.Sc. (SACNASP)

Technical and Geological Advisor

Marc RICHER-LAFLECHE, Pgeo, PhD, INRS - ETE

Technical and Geological Advisor

AUDITORS

Raymond Chabot Grant Thornton

TRANSFER AGENT

Computershare



CAPITAL STRUCTURE

Management and Key investors are committed !!!

TSX-V Symbol:	UBR
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As of January 31, 2016

Share Ownership Breakdown	Outstanding		Fully Diluted	
	Shares	%	ALL	%
Management and Board Group	23,227,458	21.07%	48,238,958	28.43%
Key investors Group	25,951,334	23.54%	37,527,084	22.12%
Fancamp Exploration Inc.	8,000,000	7.26%	16,000,000	9.43%
Institutional Ownership: (SIDEX)	1,800,000	1.63%	3,633,333	2.14%
PyroGenesis Canada Inc.	1,000,000	0.91%	2,000,000	1.18%
SUB TOTAL	59,978,792	54.40%	107,399,375	63.30%
Market Float	50,278,188	45.60%	62,277,786	36.70%
TOTAL	110,256,980	100.00%	169,677,161	100.00%



DISCLAIMERS

This presentation include certain “forward-looking statements”

All statements, other than statements of historical fact, included herein, including, without limitation, statements regarding future plans and objectives of the company, are forward-looking statements that involve various risks, assumptions, estimates and uncertainties.

These statements reflect the current expectations or beliefs of Uragold Bay Resources Inc. (“the Company”) and are based on information currently available to the Company. There can be no assurance that such statements will prove to be accurate, and actual results and future events could differ materially from those anticipated in such statements. All of the forward looking statements contained in this presentation are qualified by these cautionary statements and the risk factors described above. Furthermore, all such statements are made as of the date this presentation is given.

An investment in the Company is speculative due to the nature of the its business. The ability of the Company to carry out its plans as described in this confidential presentation is depending on obtaining the required capital. There is no assurance that the Company will be able to successfully raise the capital required or to complete each of the growth initiatives described. Investors must rely upon the ability, expertise, judgment, discretion, integrity and good faith of the management of the Company.

QUARTZ 101

Silicon dioxide, also known as **silica** (from the Latin Silex), is a chemical compound that is an oxide of silicon with the chemical formula **SiO₂**. **Silica** is most commonly found in nature as **Quartz** and it is the second most abundant element in the earth's crust.

HOWEVER.... **High Purity Quartz deposits (SiO₂ > 99.5%) with low impurities are rare!**

Raw High Purity Quartz (SiO₂ > 99.5%) can either be:



- Beneficiated to remove impurity to Ultra High Purity Quartz Sands standards (SiO₂ > 99.997%).
- Reduced to Silicon Metal (Si) in a high temperature melting process to produce Metallurgical Grade Si (98.5% Si).



Metallurgical Grade Silicon Metal (Mg Si 98.5%) can then go through several cleaning steps to be processed into higher grades material like:

- **Solar Grade Silicon Metal (Sg Si)**, material with 99.9999% Si purity (also known as 6N Si);
- **Electronic Grade Silicon Metal (Eg Si)** material with 99.9999999% Si purity (or 9N Si).
- Sg Si and Eg Si are also referred to as **Polysilicon**





MISSION STATEMENT

Become the World's Lowest Cost Supplier of Solar Grade Silicon Metal and a Leading Supplier of Ultra High Purity Quartz Sands



Becoming a leader in Clean and Green Production of Solar Grade Silicon Metal for the Solar Industry.



HIGH PURITY QUARTZ - The key to making Ultra High Purity Quartz and Silicon Metal

High Purity Quartz (> 99.0% SiO₂)

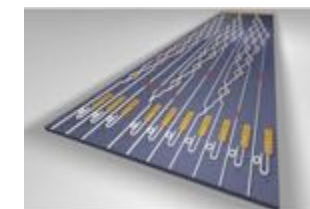
- Is the key element to produce Silicon Metal (Si) and Ultra High Purity Quartz sands;
- Supplies are tightening and prices are rising due to strong current demand and forecasted long term exponential growth;
- Silicon Metal (Si) has become one of today's key strategic minerals with applications in the Silicone, Aluminium, Solar and High Tech Industries.
- Silicon Metal (Si) was designated a Strategic Mineral by the European Commission and by the US Department of Justice.

Ultra High Purity Quartz sands (> 99.997% SiO₂)

- Is a highly specialized and secretive product with only 3 existing commercial suppliers in the world.
- It is a very rare, high value, critical raw material.
- Is used in manufacturing everything from electronics, to pharmaceuticals and medical devices;

SiO₂ can be purified to 99.997+% Ultra High Purity Quartz

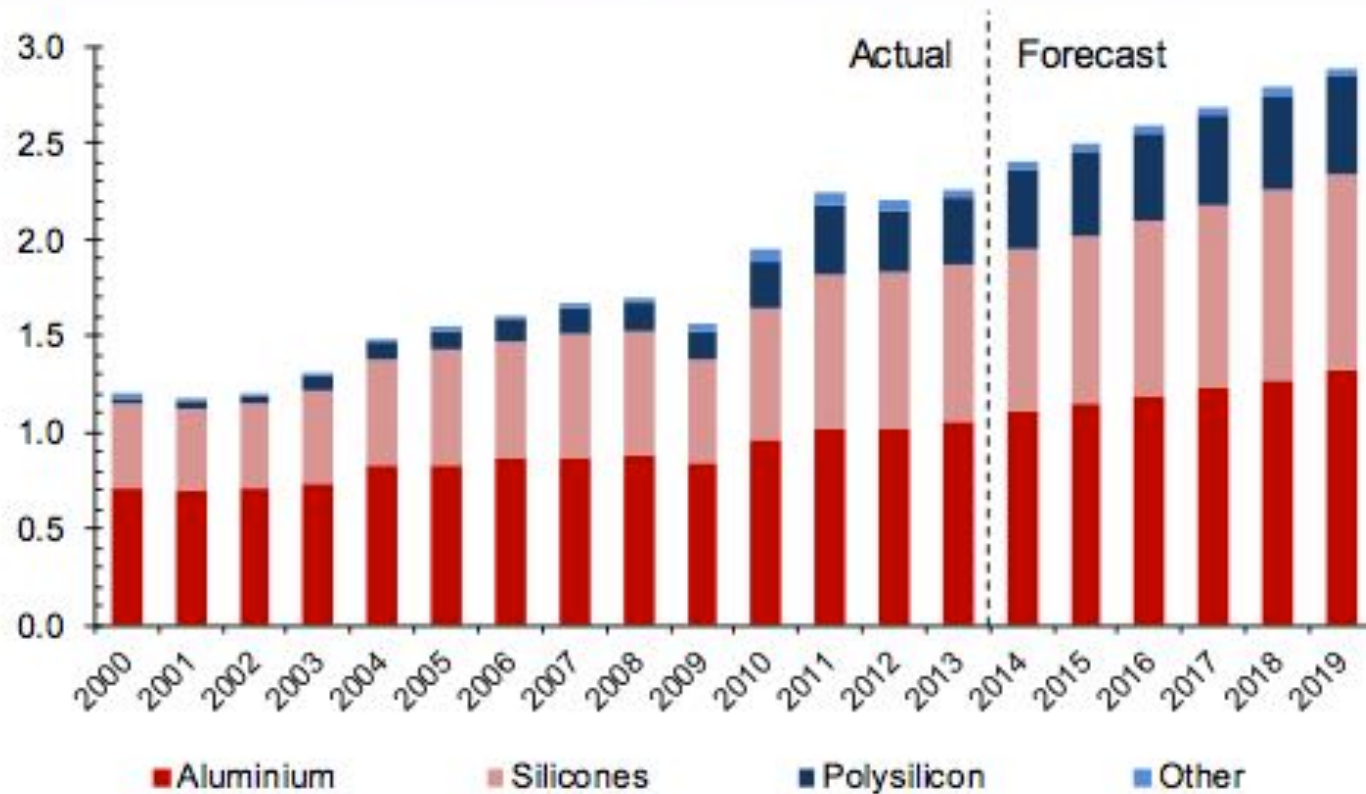
SiO₂ 99.5+% can be reduced to Silicon Metal (Si)



SILICON METAL MARKET OVERVIEW

- World consumption of Mg Si reached 2.25 Million Tons in 2014, exceeding \$US 6 billion;
- Growth was largely driven by the growing demand for Sg Si (polysilicon) in Photovoltaic (“PV”) solar panels.

Silicon metal consumption by end-use, 2000 to 2019 (Mt)



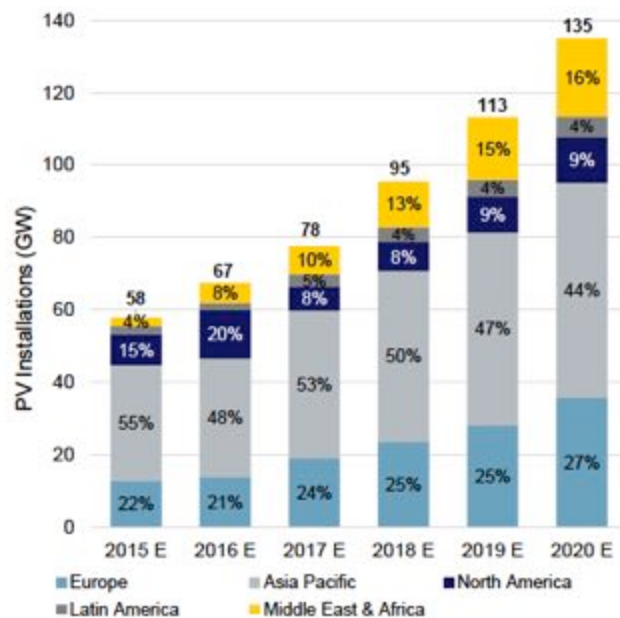
**Global Si
Consumption
to Grow by
~6% Per
Annum**



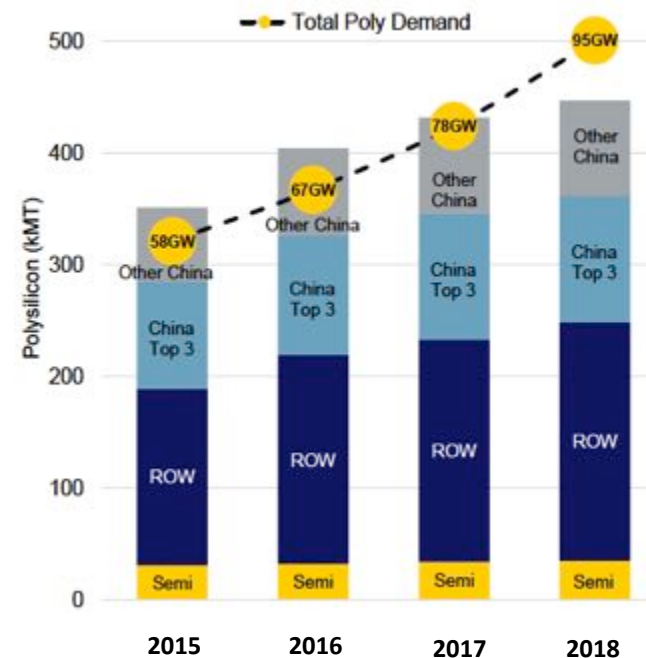
SILICON METAL FOR SOLAR SET TO EXPLODE

- In 2014 $\approx 10\%$ of Global Mg Si production was further refined from 98.5% Si to 99.9999% Si;
- 2014 sales of 220 K Tons of Sg Si (99.9999% Si) was worth \approx \$US 6 Billion;
- GTM Research estimates that Installed PV demand to growth 15 % - 23 % annually;
- Access to Sg Si will be limiting factor in PV Growth;
- Balance supply and demand for Sg Si demand expected for year-end 2016 as Gigawatt (GW) produce by Solar panels increases;

Forecasted PV Installations and Share by Region



Supply

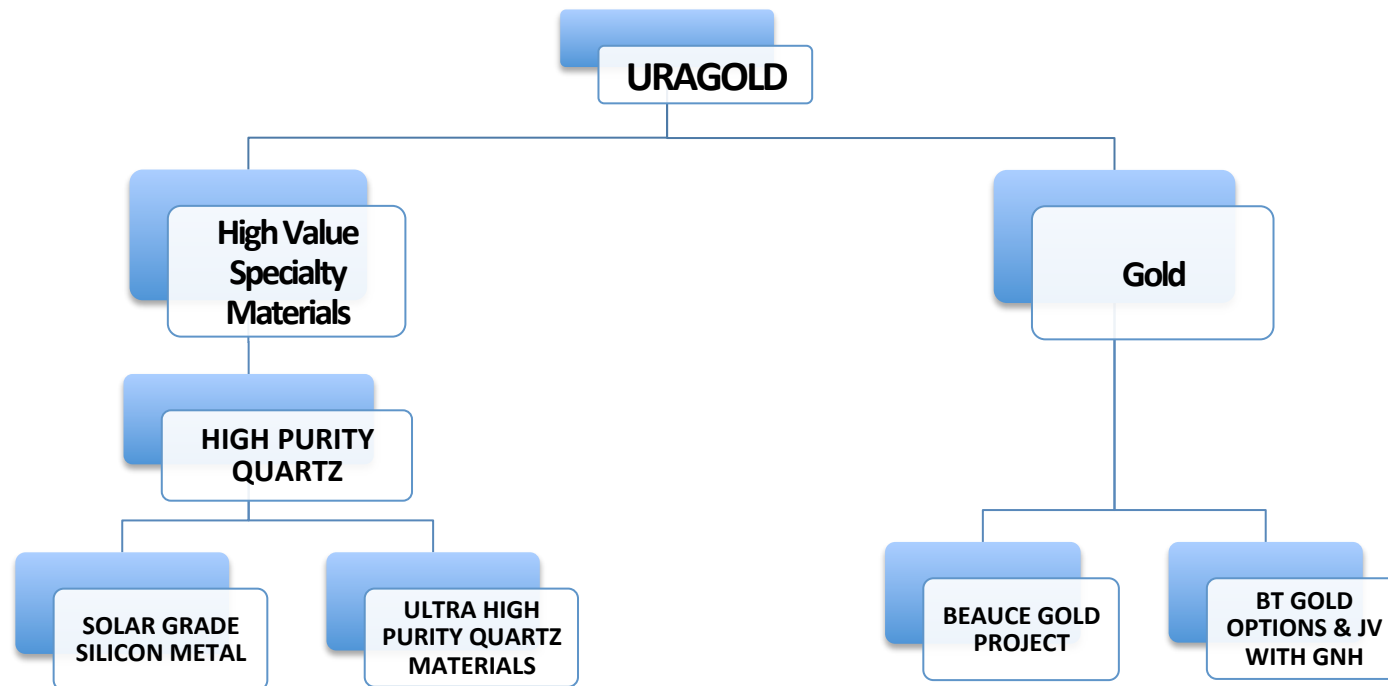


Source: PV demand and GTM Research October 2015 and RECSilicon data.
Note: PV poly demand based on 5 g/W though 2017, 4.9 g/W in 2018



THE COMPANY – GENERAL OVERVIEW

Uragold (UBR: TSX-V) plans to become a vertically integrated and diversified High Value Specialty Materials Company with Gold exploration assets.



Business Model:

- Developing unique projects that can generate high yield returns and significant free cash flow within a short time line.



STRATEGIC AGREEMENTS SIGNED IN 2015

- Development and exclusivity agreement signed with PyroGenesis provides Uragold with world wide exclusive licenses to use PyroGenesis' **PUREVAP™ Quartz Vaporization Reactor, ("QVR")** (Provisional Patent Filed), a One Step, Clean Tech process for making Sg Si directly from Quartz.
 - ✓ The PUREVAP™ QVR disruptive potential is its one step direct transformation of Quartz into Sg Si thereby potentially allowing Uragold to manufacture Sg Si at at fraction (30%) of the Competitors cost and for a faction (1/20) of their Capex costs.
- In December 2015, Uragold signed a CAD\$5 Million LOI regarding a funding commitment with a Taiwanese venture capital group:
 - ✓ The financing is conditional on successful metallurgical testing and validation that the **PUREVAP™ QVR** can produce at least 4N Purity Si (99.99% Si), expected to be completed by end of Q1 2016;
 - ✓ The \$ 5 Million funding commitment is to be disbursed over the next two years, and will be used to build a 2,000 TPY Sg Si plant;
 - ✓ 20 year Off-Take Agreement, limited at 2,000 TPY associated with the first plant;
 - ✓ Gold assets to be dividend out once condition for financing have been met.



KEY MILESTONES REACHED

- Uragold has assembled the Largest Holding of High Grade Quartz (99.+% SiO₂) Properties in Quebec, with over 3,500 Ha under claims:
 - ✓ Our portfolio represents a highly coveted asset;
 - ✓ Chemical analysis confirms that quartz from some of our properties would make suitable feedstock for silicon metal production and ultra high purity quartz sands;
 - ✓ While our High Grade Quartz is highly sought after:
 - A major silicon metal producer has rigorously tested & confirmed interest in purchasing a significant tonnage (20K to 50K Mt per year) of High Purity Lump Quartz from one of our properties;
 - A second major silicon metal producer has requested samples for testing of our Quartz from the Property.
 - ✓ The economic potential of this segment is limited, High Purity Lump Quartz sells for about US\$ 100 per Ton.
- Uragold signed an MOU with Dorfner Anzaplan of Germany to find the best beneficiation process for our material to produce Ultra High Purity Quartz Sands (99.997+ % SiO₂).
 - ✓ The price of ultra high purity quartz can range from \$US 2,000 - \$US 10,000 per ton (<http://www.ssrg.com.sg/quartz/qtztech/>);
 - ✓ The size of the worldwide market specifically for the 99.99% plus purity material is estimated at 70,000 TPA, and is controlled by 3 major suppliers.



***TRANSFORMING QUARTZ TO SOLAR GRADE SILICON METAL:
COMPETITIVE ADVANTAGES OF PYROGENESIS' ONE STEP PUREVAP™
QUARTZ VAPORIZATION REACTOR.***



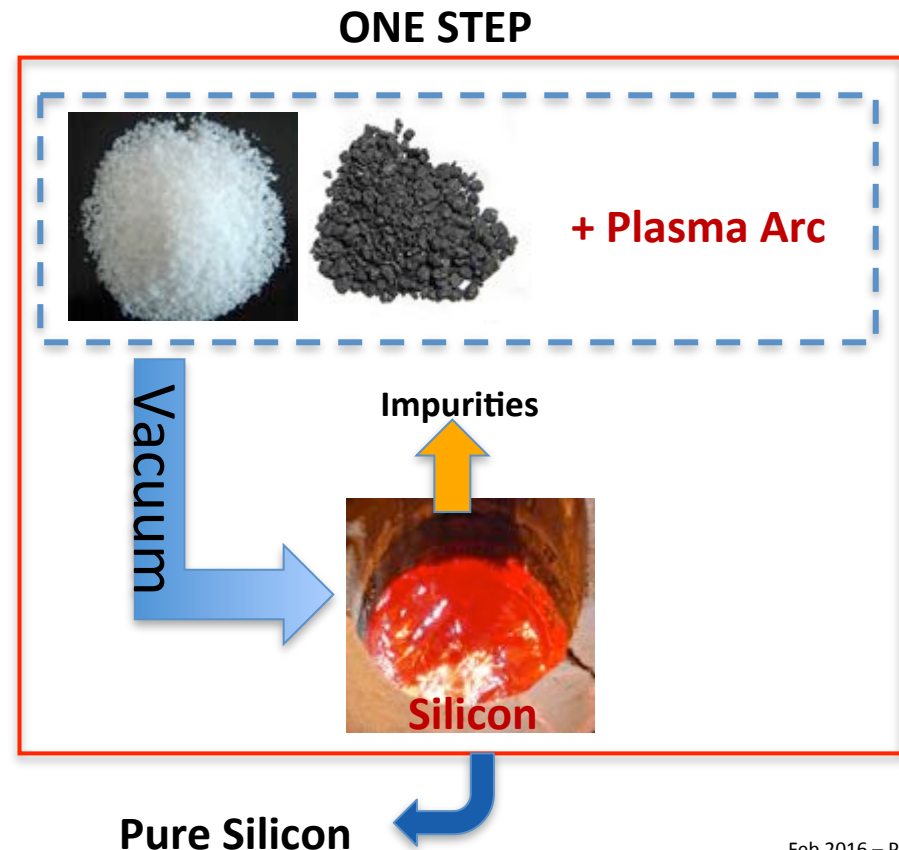
QUARTZ – SOLAR SILICON: *PUREVAP™ 1-STEP PROCESS*



Pursuant to our agreement with Pyrogenesis, they are developing the *PUREVAP™ Quartz Vaporization Reactor* for Uragold, a one step process for reducing quartz to Solar Grade Silicon or even Electronic Grade Silicon.

Quartz Vaporization Reactor

- Quartz reduction with carbon using plasma submerged arc
- Silicon refining at very low operating pressure, under vacuum

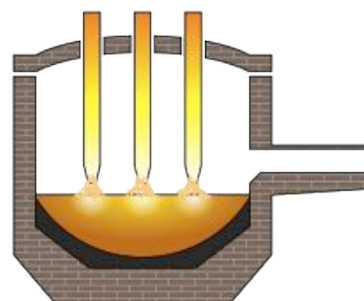




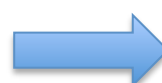
HOW SOLAR GRADE SI IS CURRENTLY MADE



SiO₂ 99.5% + Coal + Wood Chips



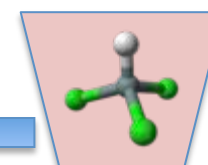
Electric Arc Furnace



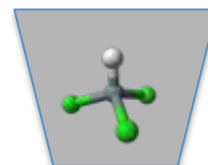
Silicon Metal 98.5% Si

Best in class average Opex cost between US \$ 1,750 and US \$ 2,250 per Ton.

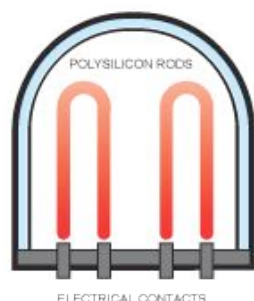
Average Capex cost to build a new Silicon Metal plant (30 K to 50 K TPY) between US \$ 200 M and US \$ 300 M.



Silicon Metal Is Dissolved
In Hydrochloric Acid To
Form Trichlorosilane
(HSiCl₃)



Trichlorosilane
(HSiCl₃) is
Further Refined



SIEMENS Reactor



Solar Grade Polysilicon
99.9999+% Si

Best in class average Opex cost between US \$ 10,000 and US \$ 13,000 per Ton.

Average Capex cost to build a new High Purity Silicon Metal plant (16 K TPY) between US \$ 900 M and US \$ 1 B.



URAGOLD 1-STEP PROCESS TO MAKE Sg Si :



SiO₂ 99.0+%



Carbon



**PUREVAP™
Quartz Volatization Reactor**



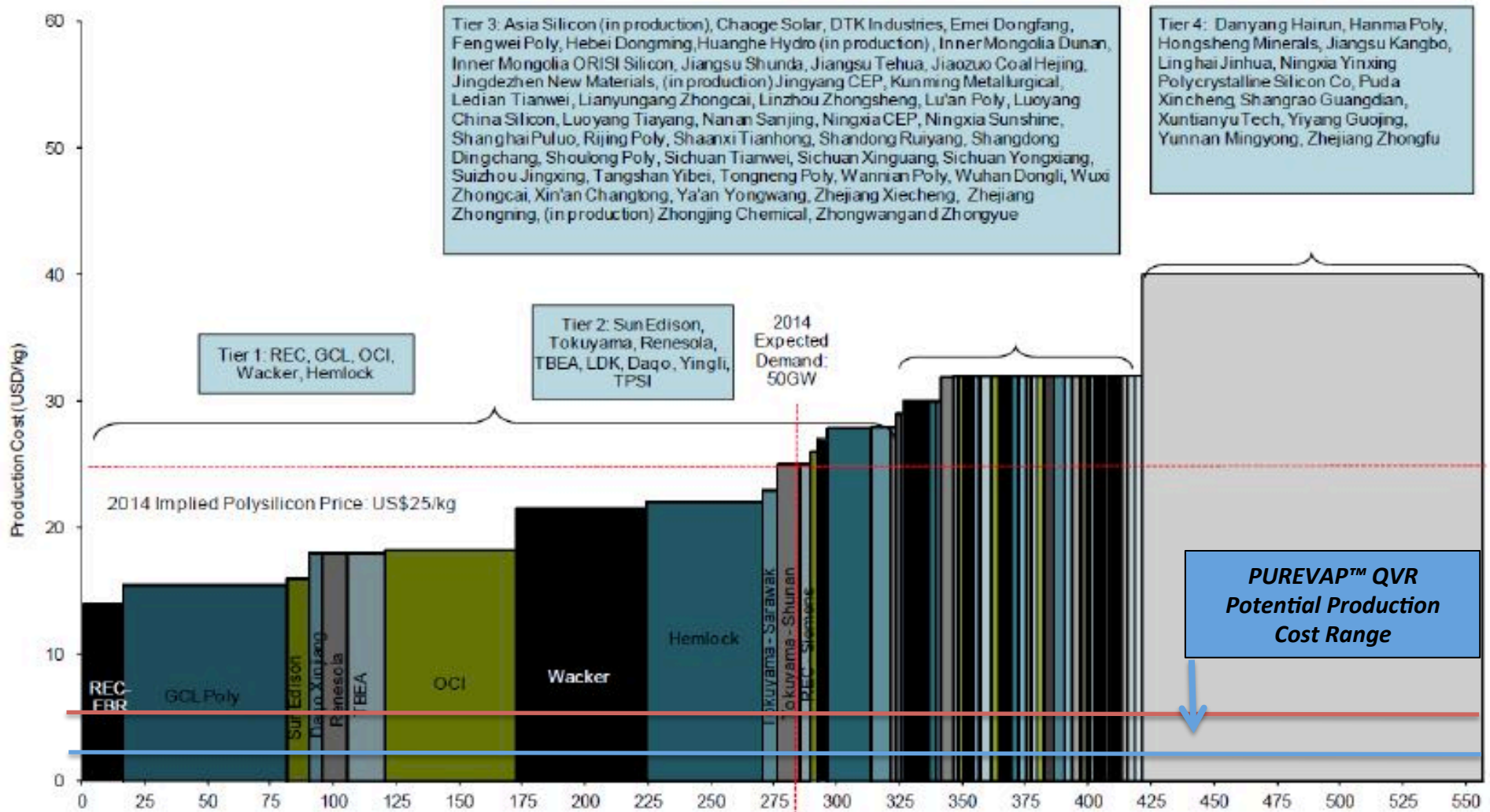
**Solar Grade Polysilicon
99.9999+% Si**

PUREVAP™ QVR , A Potentially Disruptive Technology:

- The *PUREVAP™ QVR* disruptive potential is its one step direct transformation of Quartz into Sg Si thereby potentially allowing Uragold to manufacture Sg Si for the same cost to make Mg Si using the traditional processes, and at a fraction of the capital cost.
- The best in class traditional Mg Si manufacturer have average Opex cost between US\$1,750 and US\$2,250 per Ton.

A Potentially Disruptive Technology

2014 Polysilicon Supply/Demand/Price Curve



Source: Bernstein Research, September 2013
Solar and the Next Energy Revolution: Beginning to See the Light.

RECSILICON



PUREVAP™ QUARTZ VAPORIZATION REACTOR



The science behind the PUREVAP™ QVR is strong:

- *Plasma arc based process can and has transformed High Purity Quartz into Mg Si.*
- *Plasma arc based process can and are being used to purify Mg Si into higher value materials such as Sg Si.*
- *Finally, refining Mg Si using an electron-beam furnace in a high vacuum-processing environment has proven the concept of the elimination of elements whose vapor pressures are higher than that of silicon.*

What is unique and ground breaking about the PUREVAP™ QVR approach is the combination of these three proven processes into one step.





PUREVAP™
QUARTZ VAPORIZATION REACTOR
PYROGENESIS

Vacuum Arc Furnace

- **Enables reaching very high vacuum level**
 - ✓ (m bar)
- **Very high temperature plasma arc**
 - ✓ +3500 degC
- **Volatilize impurities**
 - ✓ P, K, Mg, Zn, Ca, Mn, Pb, Al, Fe, etc

Target Si purity level: > 99.9%

Quartz to Silicon Metal

- **High purity (> 99.9%)**
- **Very low P content**
- **One step new process**





THE PYROGENESIS ADVANTAGE



PyroGenesis is the leader in the design, development, fabrication and commercialization of plasma processes. They offer high value, innovative solutions to niche markets through their technology.

INNOVATIVE TECHNOLOGY	Patented Technology – 18 innovations, covered by 49 patents (issued or pending) worldwide. <i>USING PLASMA LIKE NO ONE ELSE</i>
INTERNATIONAL REPUTATION	Industry credibility established through continued relationship with the US Navy and the US Air Force
UNSURPASSED EXPERTISE	Largest concentration of plasma experts in the world make up our team of 50 employees
CULTURE	Proven leadership since 1991, ISO 9001:2008 certified since 2007, 2 facilities including a 38,000 ft ² manufacturing facility, TSX-V:PYR, OTCQB:PYRNF



PUREVAP™ DEVELOPMENT MODELING

Assuming successful lab scale validation of the *PUREVAP™* QVR process, Uragold goal is planning to build up its capacity in order to produce 20 K Ton per year of Sg Si.

- Step one will be the building a pilot plant capable of producing 2,000 Ton per year of Sg Si;
- Assuming successful Pilot Plant operations, Uragold intends to build two (2) plants capable of producing 10,000 Ton per year of Sg Si each in the following years; 10% of current market demand.

Uragold Quartz Quarry Operation needed to feed future *PUREVAP™* QVR plants:

- Exploration work done to date on our Quartz Properties is insufficient to define a mineral resource under Ni 43-101 rules on any of our properties and it is uncertain if further exploration will result in any target being delineated as a mineral resource in the future.
- As a result, our financial model assumes that the Corporation will purchase in the open market, under normal market condition, the raw High Purity Quartz required to operate the plants.

Capital Cost Model *PUREVAP™* QVR Systems:

- Preliminary Capital cost estimate from PyroGenesis regarding a test plant *PUREVAP™* QVR system capable of producing about 2K TPY of Sg Si is CAD\$ 15 M;
- The green tech nature of the *PUREVAP™* QVR opens up the project to government green and tech funding up to 80% of the total investment required to build the test plant;
- Preliminary Capital cost estimate from PyroGenesis regarding a *PUREVAP™* QVR system capable of producing about 10K TPY of Sg Si is presently CAD\$ 50 M. ($\approx 1/20$ of Sg Si Metal industry Capex).



PUREVAP™ – FINANCIAL MODELING

PUREVAP™ QVR Potential Operating Cost :

The PUREVAP™ QVR disruptive potential is its one step direct transformation of Quartz into Sg Si thereby potentially allowing Uragold to manufacture Sg Si for the same cost to make Mg Si using the traditional processes, and at a fraction of the capital cost.

- The best in class traditional Mg Si manufacturer have average Opex cost between US\$1,750 and US\$2,250 per Ton.

Baseline financial modeling:

- While our goal is to reach these costs, for financial modeling purposes a higher Cost per Ton will be assumed at this stage until further validation is received:

Traditional Process	US \$ / Mt	PUREVAP Price < 70% of Average (US \$ / Mt)
Low Cost Sg Si Manufacturer Cost	10,000	3,750
High Cost Sg Si Manufacturer Cost	15,000	

- 1 T of Sg Si requires 3 T of High Purity SiO₂.
- Price obtained for sale of Sg Si and Price to to be paid for High Purity SiO₂ are assumed to be:

	US \$ / Kg	US \$ / Mt
Price of Sg Si Grade material (6N - 8N)	11.5	11,500
High Purity Lump Quartz		100

<http://pvinsights.com/> Last Update: 2016-01-06

- Foreign Exchange:

FX Rate USD \$ / CAD \$	1.4099
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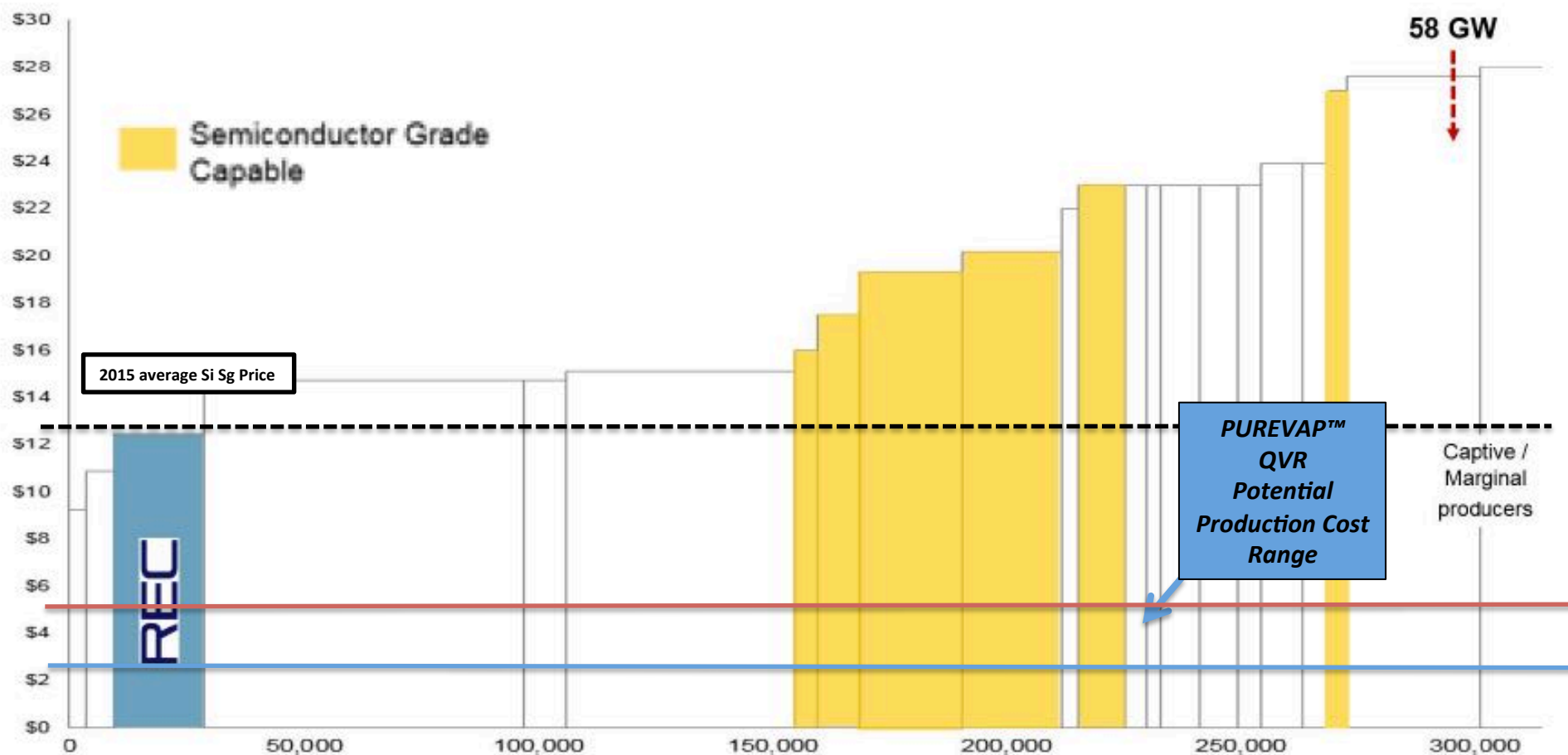
<http://www.oanda.com/currency/converter/>



A Potentially Disruptive Technology

Production cost
(USD / kg)

2015 Sg Si Supply / Demand / Price Curve



Source: Bernstein Research, September 2013
Solar and the Next Energy Revolution: Beginning to See the Light.

RECSiLICON



SOLAR SILICON MILESTONES & TIMETABLE

Milestones Reached and Short Term Goals

Going Forward	2014	2015				2016	
	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR
Discussions and Negotiations with PyroGenesis Canada Inc regarding the potential of using their Plasma expertise to produce High Purity Silicon Metal			✓				
Uragold retains the services of PyroGenesis to complete metallurgical testing of material from the Martinville & Drucourt properties using plasma process							
INRS Exploration Program on Uragold Roncevaux Quartz property. (Evaluating the potential and additional quartz occurrences identified.)							
Critical additional provisional patent application completed and filed by PyroGenesis for the PUREVAP QUARTZ VAPORISATION REACTOR ("QVR")					✓		
Engineering and construction of 1st Generation (lab scale) PUREVAP QVR						✓	
Final assembly and testing of 1st Generation (lab scale) PUREVAP QVR							
Start of advance SiO ₂ metallurgical testing protocol and process validation of the PUREVAP QVR.							
SiO ₂ samples and the resultant High Purity Si samples produced by the PUREVAP QVR are sent to the INRS for analysis.							



SOLAR SILICON MILESTONES & TIMETABLE

Going Forward	2016			2017				2018			
	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
Ongoing advance SiO ₂ metallurgical testing protocol and process improvement of the PUREVAP QVR (Goal 6N purity).											
SiO ₂ samples and the resultant High Purity Si samples produced by Gen 1 PUREVAP QVR are sent to INRS for ICP – MS analysis.											
Using PyroGenesis Gen 1 PUREVAP QVR, Uragold to produce High Purity Si samples for end users in the Solar and other markets											
Uragold implement spin out / dividend out of its Gold assets into New Public Co											
Engineering work and construction design for Gen 2 PUREVAP QVR. Capacity: 5,000 MT per year SiO ₂ (≈2,000 T Sg Si)											
Exploration Program on Roncevaux property in order to delineate a resources, prepare a PEA and/ or feasibility study											
Permitting process for quartz quarry operation on the Roncevaux property											
Permitting and Construction of a 20,000 ft ² : 5,000 MT per year SiO ₂ (≈2,000 MT Si) Gen 2 PUREVAP QVR											
Exploration Program on Uragold other properties in order to increase Project Resources potential											
Completed a 5,000 Mt Bulk Sampling program on the Roncevaux property to have the material needed to feed the Test Plant in 2018.											
Manufacturing ≈2,000 MT Per Year of High Purity Silicon metal and/or Polycrystalline Silicon for Si buyers and Solar panel manufacturers											
Uragold to start quarry operation on the Roncevaux property to feed the quartz required for both the Gen 2 and 3 PUREVAP QVR											



Appendix : Quartz Properties





OUR QUARTZ PROPERTIES ... LOCATION...

- 12 High Purity Quartz Deposits In Quebec
- 61 Claims Totaling 3,500 Ha
- All Close to Transport, Infrastructure & Target Markets





QUARTZ PROPERTIES PORTFOLIO

	PROPERTY	OWNERSHIP	LOCATION	SiO ₂ Historical Estimates	2014 Exploration	2015 Exploration
1	Drucourt	100 %	North Shore	300,000 tons Historical Estimates grading @ 98.60%	21 samples collected & tested	Metallurgical work planned
2	Galette	100 %	Charlevoix	two (2) silica claims directly adjacent to Sitec Silicium Quebec quartz mine		Samples to be collected in 2015
3	Roncevaux	100 %	Gaspésie	414,700 tons Historical Estimates grading @ 99.20%	20 samples collected & tested.	Geological and Geophysical work planned, drilling & resource report
4	Martinville	100 %	Eastern Townships	1,092,000 tons Historical Estimates	8 samples collected & tested	Metallurgical work planned
5	Malvina	100 %	Eastern Townships	Quartz veins, sampled 99.74% SiO ₂	8 samples collected & tested.	
6	Bouffard	100 %	Eastern Townships	Quartz veins, sampled 99.60% SiO ₂		Samples to be collected in 2015
7	Turgeon	100 %	Eastern Townships	Quartz veins, sampled 99.80% SiO ₂		Samples to be collected in 2015
8	Broughton	100 %	Eastern Townships	Quartz veins system outcrop		Samples to be collected in 2015
9	Beaudoin Mine	100 %	Eastern Townships	Closed Silica Metal Mine		Samples to be collected in 2015
10	Bourque Mine	100 %	Eastern Townships	Closed Silica Metal Mine		Samples to be collected in 2015
11	Montpetit Quarry	100 %	Hemingford	Closed Silica Metal Mine	10 samples collected & tested.	Metallurgical work planned
12	St-Gedeon	100 %	Beauce	Quartz veins system outcrop		Samples to be collected in 2015