

Tourillon on HPQ's plan for building a 2nd generation PUREVAP™ pilot plant

Bernard Tourillon, President, CEO and Director of HPQ Silicon Resources Inc. (TSXV: HPQ) ("HPQ") in an interview with InvestorIntel Senior Editor, Jeff Wareham discuss HPQ's plan for building a second generation (Gen 2) PUREVAP™ pilot plant. HPQ has an exclusive partnership with PyroGenesis Canada Inc., a leader in plasma technology, to develop the PUREVAP™ Quartz Vaporization Reactor (QVR), a one step process for reducing quartz to high purity silicon. The PUREVAP™ QVR process produces high purity silicon metal and solar grade silicon metal at a lower cost, while generating less emissions than current processes. This technology has the potential to revolutionize the process of making solar panels and will make solar panels a more competitive source of renewable energy. The planned Gen 2 PUREVAP™ plant is a transfer from HPQ's previous lab scale machine and will process 200 tons of quartz annually.

Jeff Wareham: Bernard I just saw some news come out on a pilot plant that you guys are starting on. Can you tell me where that fits in with your company?

Bernard Tourillon: That is a key prospect because what we are doing is transforming quartz to high-purity silicon metal and solar grade silicon metal. The one we announced today is our intermediary pilot plant we are building. We were working a lab scale machine. It had its limitation. We are building a larger 200 ton per year pilot plant. This one fits right in the middle so it basically mitigates the risk.

Jeff Wareham: Bernard everybody is concerned about costs in the solar industry and particularly in the silicon industry.

With this most recent news release do you think we will see any substantial improvement in your cost structure?...to access the complete interview, [click here](#)

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Becoming the World's Leader in Producing Low Cost Green Solar Grade Silicon Metal

In a recent presentation at InvestorIntel's 6th Annual Technology Metals Summit, Bernard Tourillon, Chairman, CEO and President of HPQ Silicon Resources Inc. (TSXV: HPQ) delivered a presentation titled, "Becoming the World's Leader in Producing Low Cost Green Solar Grade Silicon Metal". Addressing industry and investors alike, Bernard highlights the green advantages of using the "disruptive" PUREVAP™ technology to create solar grade silicon metal. Being developed by industry leader, PyroGenesis, HPQ has acquired the intellectual property rights to the process and has exclusive use of it... to access the complete presentation, [click here](#)

Uragold's one-step silicon processing (and green) advantage for the \$6B solar grade silicon and polysilicon market

April 12, 2016 – In a special **InvestorIntel** interview, Publisher Tracy Weslosky speaks with Bernard J. Tourillon, Chairman and CEO, Director of Uragold (TSXV: UBR) on the Purevap QVR process and how this one-step transformation of quartz into high purity silicon holds numerous benefits for end users in the solar grade silicon and polysilicon market; a \$6 billion dollar market sector, which experts anticipate will double by 2020. They also discuss Uragold's recent news on how the Purevap QVR solar grade silicon metal process has a 75% lower carbon footprint than the conventional Siemens process.

Tracy Weslosky: Bernard let me start by congratulating you. Your most recent news release said that your solar grade silicon metal process has a 75% lower carbon footprint than the conventional Siemens process. Obviously we would like you to tell us a little bit more about this.

✘ **Bernard J. Tourillon:** Well, it's simple in a certain way. What we're doing is we're taking our quartz directly and we're transforming it to the higher purity material, 6N and going up. We're eliminating a complete step that is a little dirty secret that nobody says in the industry. It's very bad. The transformation of metallurgy grade silicon metal to polysilicon requires lots of energy, chemicals and that's really what it is. Nobody really talks too much about it because the carbon effect of the solar panel is such that it

offsets it. I read somewhere that in reality if you're a true 'greeny' and you're buying a solar system, it takes up to 6 years for you to generate the credit offset the production one. This with the Paris meetings that were there and all the discussion we decided to say, you know what, let's try to figure out what's going to be our carbon footprint. That's when we came up with the realization that versus the Siemens process we're 75% more energy efficient basically because we're removing a complete step in both of them. What's not written in the press release, but is also within the documents that I have is that 75% of our remaining carbon footprint is mostly due to the transport, exploration, mining and everything else. There are ways for us to go in additional offsetting with regard to the way the process works because we're not looking at building a massive smelter, but we're building a reactor. Our goal is to have those installations closer to the deposit so by having them closer to the deposit we can cut also the carbon footprint everywhere else. Basically those are small steps that we can do that can add to the positive visibility of our project in addition to what we're doing in the solar field, which is going to be a very competitive project.

Tracy Weslosky: I think this is another example of how competitive the PUREVAP QVR process is, so if I could just have you give our audience a bit of an overview of this technology that you currently have?

Bernard J. Tourillon: This technology is, sort of, an improvement on a lot of technologies that already exist. What it basically is, is we're using in a vacuum furnace we will be putting our quartz and using plasma, which is a third state of energy or different state of energy, to basically transform the quartz into high-purity silicon metal...to access the complete interview, [click here](#)

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