

Peter Cashin of Imperial Mining Talks about Scandium and its Crater Lake Project in Quebec

written by InvestorNews | March 21, 2023

In this InvestorIntel interview during PDAC 2023, Byron W King talks to [Imperial Mining Group Ltd.](#)'s (TSXV: IPG | OTCQB: IMPNF) President, CEO, and Director Peter Cashin about an update on Imperial Mining's Crater Lake Project in Quebec, Canada that focusses on scandium and rare earths. Speaking about the NI 43-101 PEA for its Crater Lake Project, Peter provides an update on Imperial Mining's patented technology for the extraction of scandium and rare earths.

With the global scandium supply dominated by Russia, Peter discusses how scandium is a critical mineral with several crucial applications in aerospace, defense, EV battery sector, and hydrogen production. He mentions that scandium is an important alloying agent with aluminum that makes it lighter, stronger, and corrosion and heat-resistant. He goes on to discuss how scandium can help in reducing carbon footprint as it is used in solid oxide fuel cells and will be part of the hydrogen infrastructure. Peter adds, "we're working on some strategic alliances that I think will be very important announcements for our shareholders."

To access the full InvestorIntel interview, [click here](#).

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About Imperial Mining Group Ltd.

Imperial is a Canadian mineral exploration and development company focused on the advancement of its technology metals projects in Québec. Imperial is publicly listed on the TSX Venture Exchange as “IPG” and on the OTCQB Exchange as “IMPNF” and is led by an experienced team of mineral exploration and development professionals with a strong track record of mineral deposit discovery in numerous metal commodities.

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Peter Cashin on Imperial Mining's newly discovered high-grade scandium zone

written by InvestorNews | March 21, 2023

Chris Thompson interviews [Imperial Mining Group Ltd.](#)'s (TSXV: IPG | OTCQB: IMPNF) CEO and President Peter Cashin about an update on their Crater Lake Project in Quebec. Speaking about their newly discovered [high-grade scandium zone](#), Peter explains how the discovery will positively impact the economics of the Crater Lake Project.

Peter goes on to provide an update on their [collaboration agreement](#) with Développement Economique Sept-îles Inc to establish Imperial Mining's scandium, rare earths and scandium-aluminum master alloys facility within the boundaries of the

City of Sept-Iles. Recognized as a critical mineral in the US, Canada, Australia, and EU, Peter discusses how adding very small quantities of scandium to aluminum increases strength by up to 800%. Peter also provides an update on Imperial Mining's recently closed [private placement](#) which added new high net worth international investors as shareholders.

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**Imperial Mining Group's
Scandium-REE Preliminary**

Economic Assessment by the numbers

written by InvestorNews | March 21, 2023

Last week [Imperial Mining Group Ltd.](#) (TSXV: IPG | OTCQB: IMPNF) released the results of a [Preliminary Economic Assessment](#) (PEA). The [results are impressive](#) with a projected 25-year mine life for its Crater Lake TG Zone Scandium-Rare Earth Element (Sc-REE) deposit 200 km NE of Schefferville, Quebec. Of particular note is Imperial Mining's CEO Peter Cashin, who has been in mining for decades and has been involved in rare earths and scandium for over a decade which puts him in a strong position to understand the idiosyncrasies of these critical materials.

Scandium is an element that has huge potential in automotive, aerospace, military, and applications where weight is critical without sacrificing other properties. Scandium has the ability, when added in < 1% levels to aluminum, to produce a metal that is one-third the weight of steel but has the strength of steel. The main scandium production is in China and Russia, and major companies are looking for a reliable, long-term supply from a favorable jurisdiction before committing to a design using scandium-aluminum alloy. Scandium can be welded which is of interest to aircraft companies as it has been said that eliminating the rivets which is the current practice would reduce the weight of a plane by as much as 20%. The challenge is designing a new airframe can take up to a decade. Therefore other applications are needed near term to generate cash flow in the early stages of a project. A new car can take 2-3 years to produce from scratch but with the drive to EV vehicles where weight is a major consideration, this is a key area for product development. Being in Quebec, Imperial is well situated to work with the aluminum smelters in the province.

According to Imperial Mining's PEA, gross revenues projected are CA\$15.2 billion with gross earnings about 50% at CA\$6.25 billion. The NPV is just under CA\$3 billion at a 10% discount rate and an IRR (after-tax) of 32.8%. The initial CAPEX is projected at CA\$870.9 million with a payback of 2.5 years. Impressive numbers.

Regarding the scandium itself, the drill results have shown grades that rate among the highest globally, if not the highest.

The mine is an open-pit design, which will minimize costs, and the concentration phase would be done on-site with final processing being planned to take place in Sept-Iles. The strategy is to produce a master Sc-Al alloy in Sept-Iles along with a REE concentrate. The other notable calculation is Imperial Mining uses US\$1,500/kg for Sc203 which is significantly lower than other PEAs for scandium in the marketplace. In addition, the Sc(2%)-Al alloy is discounted by 40% from the US Geological Survey 5-year trailing average, which is another conservative approach and refreshing to see instead of reporting extreme numbers which would be difficult to defend.

As noted earlier, Imperial Mining plans to produce a rare earth concentrate. This is priced at a 70% discount to market prices in March 2022, which is realistic as the main target customer would be China, which is currently buying concentrate from MP Materials out of California. This discount is in keeping with how the Chinese would calculate the value, and even then the lanthanum would not be a significant contributor. The other key point of this revenue calculation was that it is based only on the 4 key magnetic elements plus lanthanum, which is realistic as the magnetic elements are where the main value is in all REE deposits globally. It is nice to see a company not running economics on separated REEs and saying it can sell everything it produces, which is not possible. This concentrate would help defray the scandium OPEX to a certain degree.

Overall, scandium is a situation of build it and they will come. The full report should be available by end of July.

Peter Cashin of Imperial Mining talks about scandium's importance and the need for domestic supply

written by InvestorNews | March 21, 2023

In this InvestorIntel interview with host Byron W King during PDAC 2022, [Imperial Mining Group Ltd.](#) (TSXV: IPG | OTCQB: IMPNF) President and CEO Peter Cashin talks about the growing recognition and demand for scandium in specialized manufacturing, and the need for securing a reliable domestic supply.

In the interview, which can also be viewed in full on the InvestorIntel YouTube channel ([click here](#)), Peter describes the importance of scandium as an industrial metal: "As an alloy agent for aluminum in very, very small quantities of 0.2 to 0.4 percent you can increase the the mechanical properties of the alloy by 800%." Peter also talks about the importance of scandium, used in defense, aerospace and automotive industries where strong, lightweight, heat and corrosion resistant metals are needed.

Peter goes on to say that only 35 tons of scandium are produced a year, mostly by Russia and China, but Imperial Mining – which

just published a new PEA on its Crater Lake TG Zone Scandium-Rare Earth Element (Sc-REE) deposit – is located in Quebec, Canada. “We know that the consumers both in the the military establishment, the automotive industry and the aerospace industry have been looking for this stuff... and our intention is to produce and develop this thing to production to be able to satisfy the western and certainly North American manufacturing market.”

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Peter Cashin on the “earth

shattering” PEA for Imperial Mining’s Crater Lake Scandium-REE deposit

written by InvestorNews | March 21, 2023

In this InvestorIntel interview with host Tracy Weslosky during PDAC 2022, [Imperial Mining Group Ltd.](#) (TSXV: IPG | OTCQB: IMPNF) President and CEO Peter Cashin talks about the company’s recent PEA announcement, which confirms that its Crater Lake TG Zone Scandium-Rare Earth Element (Sc-REE) deposit has “the potential to be a long-term provider of critical Scandium and magnet Rare Earths to world markets.”

In the interview, which can also be viewed in full on the InvestorIntel YouTube channel ([click here](#)), Peter discusses how with the new PEA “people will look at the financial metrics of this project, and they they stand up against any project that’s out there currently.” He talks about the results of the new PEA, which include a pre-tax net present value (NPV) of \$2.97 billion with a pre-tax internal rate of return (IRR) of 42.9%, with annual net revenues averaging \$608 million from the sale of high-purity scandium oxide (Sc₂O₃), scandium-aluminum Master alloy (ScAl) and rare earth element (REE) hydroxide concentrate, and a pre-tax capital payback of 2.5 years from the start of production.

Peter also talks about the importance of scandium, used in defense, aerospace and automotive industries where strong, lightweight metals are required, and when added to other metals in small amounts it makes them heat and corrosion resistant. Its lightness makes it an attractive “green” metal reducing vehicle weight for lower fuel consumption. “What we’ll ultimately end up doing is significantly reducing the carbon footprint of most

manufactured platforms they have right now.”

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Peter Cashin on Imperial Mining developing the highest-grade scandium deposit in the world in Quebec

written by InvestorNews | March 21, 2023

In a recent InvestorIntel interview, Tracy Weslosky spoke with Peter Cashin, President and CEO of [Imperial Mining Group Ltd.](https://www.imperialmining.com) (TSXV: IPG | OTCQB: IMPNF) about the scandium supply chain

challenges and about Imperial Mining's [R&D initiatives](#) to work with a top alloy producer to develop new scandium-modified aluminum alloys and applications, as they work towards securing off-take agreements with strategic end-user partners.

In this InvestorIntel interview, which may also be viewed on YouTube ([click here to subscribe to the InvestorIntel Channel](#)), Peter Cashin pointed out the limited scandium production capacity globally and went on to highlight that China and Russia are today the two primary scandium producers in the world. As "a North American source of the highest-grade scandium opportunity," Peter highlighted the competitive advantages of Imperial Mining's Crater Lake Scandium-Rare Earth property located in Canada's aluminum capital – Québec. He went on to explain how scandium alloys can help reduce carbon footprint and also increase the range of electric vehicles making Imperial Mining attractive to ESG investors.

To watch the full interview, [click here](#)

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Byron King and Jack Lifton discuss Scandium's bright future with Peter Cashin of Imperial Mining

written by InvestorNews | March 21, 2023

In this episode of **Critical Minerals Corner**, Jack Lifton and Critical Minerals Corner Co-Host & InvestorIntel Columnist Byron King are joined by Peter Cashin, President and CEO of [Imperial Mining Group Ltd.](#) (TSXV: IPG | OTCQB: IMPNF) to discuss “miracle metal” scandium and how Imperial Mining is positioned to become the “largest scandium producer in the world...”

Byron King pointed out that Russia is one of the primary sources of scandium, and he went on to highlight the supply chain concerns for scandium because of the current Ukraine-Russia conflict and sanctions against Russia. Speaking about the lack of sustainable supply of scandium, Peter Cashin went on to provide an update on Imperial Mining's Crater Lake Scandium-REE Project in Québec. Peter also provided an update on Imperial Mining's collaboration with Eck Industries to prototype a scandium-aluminum battery box for a global automotive manufacturer.

To access the complete episode of this Critical Minerals Corner discussion, [click here](#)

Imperial Mining is set to announce a Resource Estimate that will Highlight Significant Grades of Scandium and Related Technology Metals

written by InvestorNews | March 21, 2023

[Imperial Mining Group Ltd.](#) (TSXV: IPG | OTCQB: IMPNF) (“Imperial”) is due to shortly release a 43-101 preliminary Resource Estimate for their 100% owned Crater Lake Scandium-Rare Earth Project in northeastern Quebec, Canada. What can investors expect?

The Crater Lake Project consists of 57 contiguous claims covering 27.8km². The Project has [~14 km of potential mineralized horizon](#) (only 1/4 drill tested) spread over several zones, some of which have drill tested high-grade scandium and some rare earths deposits, including and yttrium. There is also potential for niobium and tantalum.

Imperial Mining’s Crater Lake location showing excellent infrastructure nearby



Drilling has defined several mineralized zones of over 600m in total strike length and from surface to a vertical depth of up to 200m.



Source: [Company presentation](#)

Excellent drill results at Crater Lake continue in 2021

Past drilling has shown some excellent long length, high-grade, scandium oxide results ranging from 0.0235% to 0.056% (235-506 g/t).

For example, in April 2021 the Company [announced](#) excellent drill results at Crater Lake that included **92.5 m @ 291g/t scandium oxide (Sc_2O_3)**. Elevated levels of total rare earth oxides plus yttrium of up to 0.42% were also found. There is also a parallel niobium target showing grab assay results of between [0.20% and 1.42% Nb205](#) which sits 250m west of the scandium target.

Then in May 2021, Imperial [announced](#):

- “Assay results from the first four drill hole continue to return impressive intercepts of **111.9 m (367.0') grading 298 g/t scandium oxide (Sc_2O_3)**, including 40.5 m (132.8') grading 336 g/t Sc_2O_3 and 34.77 m (114.0') grading 321 g/t Sc_2O_3 .
- Elevated levels of **total rare earth oxides plus yttrium (TREO+Y) of up to 0.38 %.**”

More recent drill results [announced](#) in June 2021 included:

- “**99.8 m (327.3') grading 299 g/t scandium oxide (Sc_2O_3)**, including 24.2 m (79.4') grading 331 g/t Sc_2O_3 and 77.3 m (253.5') grading 313 g/t Sc_2O_3 .
- Elevated levels of **total rare earth oxides plus yttrium (TREO+Y) of up to 0.46%** characterize the scandium-bearing intercepts.”

Crater Lakes' critical minerals mean a 10MT resource can potentially be very valuable

Imperial's 'target' at Crater Lake is to define a scandium-REE mineral resource of a minimum of 10 Mt, sufficient for a 25-year operating model. What some investors miss is that a small relatively shallow resource-rich in valuable metals such as scandium, niobium, and rare earths can be highly valuable. The chart below highlights this by expressing the results as 6.5 to 12.0 g/t 'gold equivalent'. If Imperial Mining was able to achieve 10MT of ore at say 6.5 g/t Au equivalent (lower range) that would be equivalent to 65 million grams (2.1 million troy ounces) of gold in terms of value. If the grade was in the higher range then the gold equivalent would be almost double. Of course, the 10MT is a 'target' and not yet a reality, as we will have to wait to see what the upcoming resource estimate is.

The Crater Lake TG Zone drill results are equivalent to 6.5 to 12.0 g/t gold equivalent



Source: [Company presentation](#)

Once a resource is grown the other important issue is the extraction method and recovery rates. In June 2021 news Imperial [announced](#) that they had developed a "high-recovery extraction process for scandium and rare earth elements for Crater Lake mineralization...as part of its current Phase 3 Hydrometallurgical Development Program." Scandium extraction was at **84-87%**, and total rare earth elements, including yttrium (TREE+Y) was **84%**. This is excellent news.

Near term stock catalysts

Imperial President & CEO, Peter Cashin, [stated](#) in August: "We

are now in the final stages of the surface evaluation of our Crater Lake property. In addition to delivering the inaugural 43-101 resource estimation on our TG Zone later this month, we look forward to delivering on the results of the remainder of the targets present on the Crater Lake property. We clearly believe that much additional critical metal potential remains to be evaluated on our property as we have only drill-tested one-quarter of the favourable 14-km-long mineralized horizon. We also intend to assess a high-grade niobium-tantalum mineralized area identified in 2010, north and northwest of the scandium-bearing Crater Lake Complex.”

Imperial will now embark on a Summer 2021 campaign that will include surface evaluation of additional high priority scandium rare earth exploration targets outside of the drilled TG Zone mineralized area. 50-tonne bulk samples at the STG mineralized Zone will be used in a pilot plant study to further test and optimize Imperial’s metallurgical process method. Next, a detailed assessment of historical high grade rare earth, niobium, tantalum occurrences at the Crater Lake Extension property area will be undertaken. Following this will be a pilot plant study and a Preliminary Economic Assessment.

Closing remarks

Imperial Mining trades on a market cap of a mere C\$20 million. Considering the outstanding drill results over the past year, outstanding hydromet recovery rates achieved to date, and the impending 43-101 preliminary Resource Estimate due out any day now the stock looks likely to be potentially re-rated higher soon. Don’t wait too long!

Imperial Mining's Peter Cashin update on building a North American supply chain for scandium and niobium

written by InvestorNews | March 21, 2023

In a recent InvestorIntel interview, Chris Thompson speaks with Peter Cashin, President and CEO of [Imperial Mining Group Ltd.](#) (TSXV: IPG | OTCQB: IMPNF) about Imperial's Crater Lake scandium and rare earths project. Touching on why these critical materials are valuable for an ESG investor to consider in their portfolio, Analyst Chris Thompson asks a wide range of compelling questions from extraction technology to where Imperial Mining is in the process towards building a North American supply chain for scandium.

Starting with an overview on the competitive applications for scandium and niobium, which includes the lightweighting of steel and aluminum for use in the automotive and aerospace sectors, Peter explains that Imperial Mining is anticipating a 43-101 resource estimation on the TG Zone expected in the next few weeks. Highlighting Crater Lake's high-grade surface scandium mineralization and 'very high grades of niobium and tantalum', Peter explains that a strategic marketing effort in conjunction with a sustainable supply source of these critical materials will most assuredly affect the demand.

To watch the full interview, [click here](#)

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Peter Cashin on Imperial Mining's high-recovery extraction process for rare earths and scandium

written by InvestorNews | March 21, 2023

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In this InvestorIntel interview, which may also be viewed on YouTube ([click here to subscribe to the InvestorIntel Channel](#)), Peter went on to say that Imperial is not just a scandium play as its Crater Lake Project has a diversified commodity base with significant quantities of rare earths and niobium. He also

provided an update on the latest [drill results](#) from Crater Lake and added that Imperial Mining's objective is to create a sustainable scandium supply chain.

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