

Scandium Canada's Guy Bourassa on One of the Largest Primary Scandium Projects in the World

written by InvestorNews | March 19, 2024

In an insightful interview with InvestorNews host Tracy Weslosky, Guy Bourassa, CEO and Director of [Scandium Canada Ltd.](#) (TSXV: SCD | OTCQB: SCDCF), highlighted their unique position in the global scandium market as the owner of "...one of the largest primary scandium projects in the world". Bourassa emphasized that this distinction is particularly significant given the current scarcity of scandium, which is primarily sourced as a byproduct from regions such as Russia and China. The scarcity of scandium underscores the strategic importance of Scandium Canada's Crater Lake Project, as industries worldwide are increasingly in need of reliable and scalable sources of scandium to meet the growing demand for this high-performance metal.

Bourassa discussed how scandium offers remarkable benefits when added to aluminum alloys, significantly enhancing their properties. These enhanced scandium-aluminum alloys exhibit increased strength, improved thermal resistance, and greater weldability compared to their standard aluminum counterparts. This combination of traits makes scandium-alloyed materials highly sought after, especially in sectors where material performance and weight reduction are critical, such as aerospace, automotive, and defense industries. Bourassa explained that incorporating scandium leads to significant weight reduction, facilitating more efficient aircraft and vehicles which, in turn, contributes to a reduction of greenhouse gas emissions.

Bourassa drew an intriguing parallel to the history of niobium, an element that revolutionized the steel industry by enhancing steel's properties when alloyed. He added, "Scandium Canada is going to do the same thing for the aluminum sector." Furthermore, the strategic initiatives undertaken by Scandium Canada, including leveraging significant grants and government programs available for critical mineral projects in Canada, position the company advantageously for rapid project advancement with minimal shareholder dilution. This financial acumen, coupled with the project's significance in providing a primary source of scandium, places Scandium Canada in a strong competitive position.

To access the complete interview, [click here](#)

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About Scandium Canada Ltd.

Scandium Canada is a Canadian technology metals company focused on advancing its flagship Crater Lake scandium and rare earth project in Québec.

To learn more about Scandium Canada Ltd., [click here](#)

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Groundbreaking Research Report on Scandium by Hallgarten Shines a Light on Imperial Mining's Crater Lake Project

written by Tracy Weslosky | March 19, 2024

In the ever-evolving world of mining and mineral exploration, certain elements periodically spring into prominence, reshaping industry landscapes and investment priorities. One such element, Scandium (Sc), has recently been thrust into the spotlight, thanks to a groundbreaking report by Christopher Ecclestone of Hallgarten + Company. This report shines a light on Imperial Mining Group Ltd. (TSXV: IPG | OTCQB: IMPNF), a company poised to become the first primary Scandium miner in North America.

Unlocking

Scandium's

Potential: Jack Lifton with Imperial Mining Group's Pierre Neatby

written by InvestorNews | March 19, 2024

In a recent interview, host Jack Lifton sat down with Imperial Mining Group Ltd.'s (TSXV: IPG | OTCQB: IMPNF) President and CEO, Pierre Neatby, to discuss the potential and importance of Scandium. Lifton noted that while Scandium is undervalued and underrated by the public, its true significance lies as a soon-to-be invaluable commodity.

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

written by InvestorNews | March 19, 2024

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.

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Imperial Mining Patents its Process in Next Steps to Become a Leading-edge Supplier of Scandium and Rare Earths

written by InvestorNews | March 19, 2024

The race is on. It seems like there are a lot of junior miners out there working on new or improved technology to process or refine their commodity in a better, more efficient manner. This makes a lot of sense when you think about it. Obviously, the world is on a decarbonization kick, so it's only a matter of time before the carbon footprint of the raw materials starts to come into focus. It will help differentiate you from any competitors out there mining the same mineral, assuming you have any. If you happen to be fortunate enough to be located in a jurisdiction that is close to the demand centers and has abundant clean energy (like hydroelectric power) then that could make you the #1 supplier of a commodity.

One entity looking to control its own destiny, while being fortunate enough to be located in a key jurisdiction, is [Imperial Mining Group Ltd.](#) (TSXV: IPG | OTCQB: IMPNF). Imperial is a Canadian mineral exploration and development company focused on the advancement of its technology metals projects in Québec, Canada. The Company's flagship [Crater Lake Scandium-Rare Earth property](#) is located 200 km northeast of Schefferville, Québec, and is accessible via fixed-wing aircraft or helicopter. The property consists of 96 contiguous claims covering 47.0 km², owned 100% by Imperial. The Company 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.

In mid-2022, Imperial [announced the results](#) of a positive Preliminary Economic Assessment (PEA) for the Crater Lake TG Zone Scandium (Sc) – Rare Earth Element (REE) deposit from Imperial's independent consultants WSP Canada. The results show positive cash flow, strong Internal Rate of Return (IRR), and positive Net Present Value (NPV) metrics at discount rates of up to 15% for a potential mining operation at the Crater Lake project. Highlights of the PEA include: a pre-tax NPV of C\$2.97 billion and an after-tax NPV of C\$1.72 billion (10% discount rate); pre-tax IRR is 42.9% and an after-tax IRR of 32.8%; and a pre-tax capital payback of 2.5 years from the start of production.

All of the PEA information was completed prior to the summer drilling program where the Company completed a total of 8 drillholes for 1,663.0 m. [Results](#) were encouraging and give inference to grade and tonnage increases to the TG North Lobe Deposit resource. Drilling indicates that the southern portion of the TG scandium Zone is composed of two different Sc bearing ferrosyenites and hosts a higher proportion of the higher-grade pyroxene-rich ferrosyenite. The mineralization of both Sc-bearing ferrosyenite zones is open at depth below the 200 m vertical level and along strike and appears to show great potential for additional scandium mineralization. With all of the results in, Imperial plans to undertake an updated 43-101 Mineral Resource Estimate with the goal of converting all of the Inferred Mineral Resources into the Indicated or Measured Mineral Resources category.

With all that said, the Company's latest news is my main focus today. Imperial Mining just [announced](#) the filing of patent applications for its two-stage hydrometallurgical methods and processes for the extraction of scandium and rare earth elements

from Crater Lake project mineralization titled “HIGH PRESSURE CAUSTIC LEACH METHODS AND PROCESSES FOR RECOVERY OF SCANDIUM AND RARE-EARTH OXIDES”. Imperial also provided an update on the Crater Lake Scandium Project flowsheet development program which commenced in early 2022 at SGS Canada, Quebec City and Peterborough and is partially financed by a \$245,355 grant from the Quebec Ministry of Energy and Natural Resources. The flowsheet development program was focused on further optimization of the mineral processing flowsheet by rejecting olivine, a non-Sc-REE-bearing mineral from the mineral concentrate and processing the olivine-depleted mineral concentrate through the patent-pending high-pressure caustic leach process for recovery of Sc and REE. During the flowsheet development program, Imperial invented a patentable process for rejecting olivine from the scandium-bearing mineral concentrate.

I won't begin to try and explain the science of what this all means other than to say simpler is usually better. The easier and more efficiently you can do something typically equates to a lower carbon footprint and less of an environmental liability. Just having the right, in-demand resource isn't good enough anymore, at least in most parts of the world. The production of that resource has to be done in a responsible, sustainable manner. This C\$15 million market cap company is taking steps to be a leading-edge processor of Sc and REE which could help propel them to the top of the supply chain.

Peter Cashin on Imperial

Mining's newly discovered high-grade scandium zone

written by InvestorNews | March 19, 2024

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 19, 2024

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 Sc2O3 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 19, 2024

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

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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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Quebec, Canada set to become a critical battery materials' production hub

written by InvestorNews | March 19, 2024

Imperial Mining's world-class Crater Lake Scandium-Rare Earth Project in Quebec will soon complete a PEA

There have been some great news releases recently of new lithium ion battery materials projects coming to Quebec, Canada. The first was [BASF's cathode active materials and recycling facility](#) planned to be located in Bécancour, Quebec. The second was [General Motors and POSCO Chemical's \\$400 million facility](#) to produce cathode active materials for vehicle batteries, also in Bécancour, Quebec. It is looking like Bécancour in Quebec is to become Canada's battery cathode manufacturing hub. This bodes well for the development of an EV manufacturing industry in Quebec at some stage.

Today's company has key EV related metals, scandium and the magnet rare earths, as well as gold exploration; with three projects located in Quebec, Canada.

[Imperial Mining Group Ltd's.](#) (TSXV: IPG | OTCQB: IMPNF) (Imperial) three projects in Quebec are the:

- [Crater Lake Scandium-Rare Earth Project,](#)
- [the Opawica Project](#) (gold exploration), and the
- [La Roncière Project](#) (gold exploration)

Imperial has progressed significantly over the past 6 months,

announcing a Maiden Resource, drill results, and commencement of a PEA at their 100% owned Crater Lake Scandium-Rare Earth Project. Today we will look at the Crater Lake project and at what's next for the Company.

Crater Lake Scandium-Rare Earth Project

Maiden Resource

As [announced](#) in September 2021, Imperial's NI 43-101 Maiden Resource estimate for the TG Scandium-Rare-Earth Zone at its Crater Lake Scandium-Rare Earth Project is an **Indicated Resources of 7.3 million tons grading 282 g/t Sc_2O_3** and **Inferred Resources of 13.2 million tonnes grading 264 g/t Sc_2O_3** . This is an excellent result putting the Crater Lake Project [among the top scandium resources in the world](#). The Resource estimate also highlighted valuable magnet rare earths Nd, Pr, Dy and Tb. The Resource remains open to further expansion.

Maiden Resource estimate and Resource Model for the TG Zone at the Crater Lake Scandium-Rare Earth Project



Source: [Imperial Mining Group company presentation](#)

Recent drill results

Since the Maiden Resource, Imperial has had some stellar drill results including:

- [115.8 m \(379.9'\) grading 252 g/t scandium oxide \(\$\text{Sc}_2\text{O}_3\$ \)](#) at the STG Zone. There are also elevated levels of total rare earth oxides plus yttrium (TREO+Y) of up to 0.475 %. The STG Zone is a new discovery, 2km south of the TG North Lobe Resource.

PEA

Work on a 43-101 Preliminary Economic Assessment (PEA) on the TG Zone scandium-rare earth zone resource is advancing well, despite some delays. The PEA results were targeted for Q1, 2022, but now look like being in Q2, 2022.

Imperial's Crater Lake Project location map and highlights



Source: [Imperial Mining Group company presentation](#)

Next steps and targets

- Q2, 2022 – PEA results for the Crater Lake Scandium-Rare Earth Project to be announced.
- Late June 2022 – [A 2,500m drill program](#) on the TG Zone (Northern Lobe and Southern Lobe) to commence.
- End Q3, 2022 – Hydrometallurgical flowsheet development program results due.
- H2, 2022 – An update to the previous 43-101 Maiden Resource Estimate of the TG Zone.
- Late 2022 – Engineering design for Imperial's pilot plant program.
- Mid-2023: Definitive Feasibility Study (DFS), IBA, receipt of construction permits.
- Late Q4, 2025/Early Q1 2026: Delivery of first product (subject to permits and funding).

Closing remarks

Imperial Mining Group is making good progress and has already delivered a solid Maiden Resource at their flagship 100% owned Crater Lake Scandium-Rare Earth Project. The PEA is expected to be out soon in Q2, 2022, with numerous catalysts to follow.

Meanwhile, the magnet rare earths prices keep rising. All of this bodes well for the Company, as shown by the successful recent raise of [C\\$3 million](#) and a [C\\$245,355](#) Quebec Government award to optimize their Crater Lake Scandium recovery process.

Scandium is the rarest of the “rare earth” metals. Small additions of scandium to alloys with aluminum give properties of corrosion resistance, tensile strength, ductility, and low weight that make them ideal for weight reduction and safety in large scale battery boxes for EVs and in load bearing aircraft parts.

Imperial Mining Group trades on a market cap of [C\\$26 million](#) and looks to be in the right place at the right time. And let’s not forget their gold exploration potential. Stay tuned.