

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

In a recent InvestorIntel interview, Tracy Weslosky spoke with Peter Cashin, President and CEO of Imperial Mining Group Ltd. (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](#)

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.

To learn more about Imperial Mining Group Ltd., [click here](#)

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If you have any questions surrounding the content of this interview, please contact us at +1 416 792 8228 and/or email us direct at info@investorintel.com.

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

In this episode of **Critical Materials Corner**, Jack Lifton and Critical Materials 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 Materials

Corner discussion, [click here](#)

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

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

In a recent InvestorIntel interview, Tracy Weslosky speaks with Peter Cashin, President, CEO and Director of Imperial Mining Group Ltd. (TSXV: IPG | OTCQB: IMPNF) about Imperial's recent milestones including their new high-recovery extraction process for rare earths and scandium. Additionally, they discuss Imperial's recent news around their collaboration with Eck Industries to develop scandium-modified aluminum alloys.

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.

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

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Clausi, Cashin and Kovacevic on the rising demand for scandium in aluminum alloys

In a recent InvestorIntel interview, Peter Clausi speaks with Peter Cashin, President and CEO of Imperial Mining Group Ltd. (TSXV: IPG) and Gianni Kovacevic, CEO of CopperBank Resources Corp. (CSE: CBK), about growth opportunity in the scandium space and the factors affecting demand.

In this InvestorIntel interview, which may also be viewed on YouTube ([click here to subscribe to the InvestorIntel Channel](#)), Gianni went on to say, "Scandium is a market, that in my opinion in this decade can grow 20 fold." Peter added, "There is just not enough production capacity in the world to be able to satisfy what the potential growth in demand could be." Peter then went on to talk on the primary uses of scandium and explained that the factor holding back demand is limited supply of the metal. He continued, "If you can find the supply, I think the players and consumers are there waiting for it."

In the interview Peter also provided an update on Imperial

Mining's Crater Lake Scandium project in Quebec and explained how the project benefits from being located in Quebec, which is the aluminum capital of Canada.

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

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The White House Executive Order on critical materials heightens scandium interest

The September 30, 2020 White House Executive Order ('EO') on critical minerals is just what was needed to give a huge boost to the mining sector. Not sure why 'scandium' and the 'rare earth group' was listed separately in the EO, since scandium is considered a rare earth, but the end result is that this has escalated market interest in this critical material.

One of the 35 critical minerals is 'scandium', used mostly for

the purpose of lightweighting, scandium-modified aluminum alloys have equivalent yield and tensile strength to steel and titanium alloy but are **1/3 the weight of steel and 40% lighter than titanium.**

Declaring this “a national emergency”, the EO states that the US intends to support companies that have “projects that support domestic supply chains” and “the establishment of secure critical minerals supply chains”, which could reasonably be expected to include Canadian projects such as Imperial Mining Group Ltd. (TSXV: IPG).

Peter Cashin, President, CEO and Director of Imperial Mining Group, which own their flagship **scandium-rare earth** Crater Lake Property in northeastern Quebec, commented to InvestorIntel when asked on their thoughts on the EO with the following:

“President Trump’s Executive Order should force an orderly build-up of the necessary steps required to secure a domestic supply chain for rare earth materials. In addition to the European Unions expressed push to lessen Chinese import dependence, our hope is that the order will apply to development of the significant critical mineral resources that exist in Canada.”

What is driving this market demand? Available scandium oxide supply today is estimated at just 25 to 35 metric tonnes per year, insufficient for widespread adoption of scandium-aluminum (“Sc-Al”) alloys for automotive, aerospace and defense sectors where they can be used for high-strength applications and in sectors in which lightweighting is essential. In addition to Sc-Al alloys, scandium is used in the Solid Oxide Fuel Cell (“SOFC”) industry because of its heat stabilization and electrical conductivity characteristics. In essence, the competitive advantage of scandium is as a hardener in aluminum alloys, which is what renders them **corrosion-and thermal-resistant.**

If your not familiar with the Imperial Mining Group Ltd. (TSXV: IPG), Imperial's Crater Lake Property has a large diameter complex which is host to high-grade scandium and niobium deposits. Scandium oxide grades to date have been very good ranging from 0.0235% to 0.0319% (235-319g/t). Other drill results have included 528g/t scandium oxide over 8.8 meters, showing the high grade potential of the Crater Lake Project.

The company expects the Crater Lake Project to be a small open-pit operation with an on-site magnetic concentrator and/or sensor-based sorting. It is anticipated that the project will be low CapEx, OpEx due to the higher grades and expected simple process recovery methods.

Imperial Mining is currently working to expand the resource and have recently discovered several new areas of scandium mineralization. These new showings lie within the same 14-km arcuate magnetic trend hosting the three previously defined mineralized zones (Boulder, TGZ and STG) on the property. Assay results are expected very soon.

Crater Lake's 14-km arcuate magnetic trend hosting the three previously defined mineralized zones (Boulder, TGZ and STG)

Demand for scandium set to rise and Imperial Mining offers an early stage high grade project

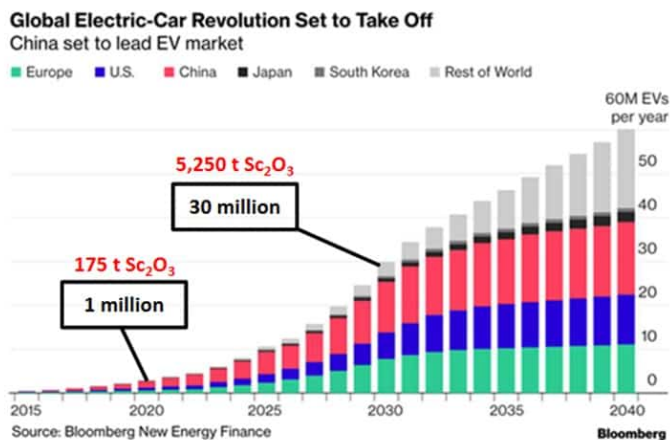
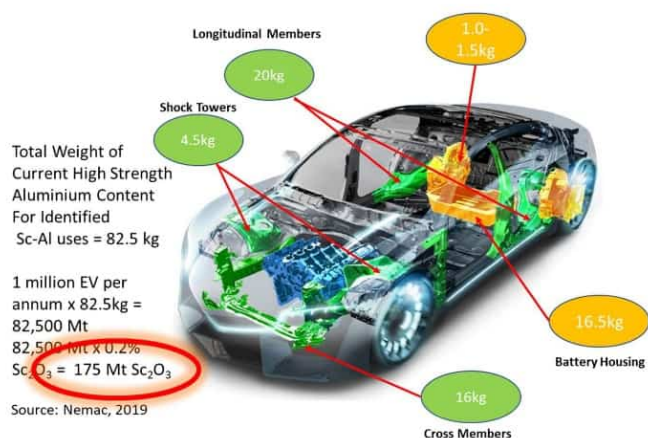
Scandium is the key to lightweight electric vehicle boom

With the electric vehicle boom set to take off this decade, expect a surge in demand for the 'lightweighting' of key materials. An essential part of reducing the weight of electric vehicles (EVs) is scandium, which mixed with aluminum creates lighter and stronger alloys for EVs. Lighter weight means extending battery range in EVs and improving fuel efficiency and reducing greenhouse gases in combustion engines.

The current scandium market size is estimated to be about 35 tonnes per year, however Bloomberg forecasts this could grow to reach 1,800 tonnes pa by 2035 – a 51 times increase in demand. However, if the sales of electric vehicles surge as some forecast and reach 30 million by 2030, the demand for scandium would jump to a staggering 5,250 tonnes pa – a 150-fold increase on today's demand based on just a 0.2% scandium oxide-aluminum alloy in each EV.

This exponential increase in demand for scandium does not include its additional consumption by key industries such as solid oxide fuel cells, aerospace & defense, aviation, electronics, sporting goods, and ceramics.

Building 30 million new electric cars a year by 2030 will require an additional 5,250 tonnes of scandium oxide every year to achieve 100% lightweighting



Source: Imperial Mining Group investor presentation

Imperial Mining Group Ltd. (TSXV: IPG) owns a diverse portfolio of high-grade assets including gold, base metals and scandium-rare earth projects. The company's focus is on development of its high-quality scandium-rare earth Crater Lake property in northeastern Quebec, Canada. The property has a large 6km diameter complex that is host to high-grade scandium and niobium deposits.

The Crater Lake scandium rare earth project

The 100% owned Crater Lake Project is located 200km northeast of Schefferville, Québec, 95 km from the end of the Trans-Labrador Highway. The property consists of 57 contiguous claims covering 27.8km².

Crater Lake location map



Source: Imperial Mining Group investor presentation

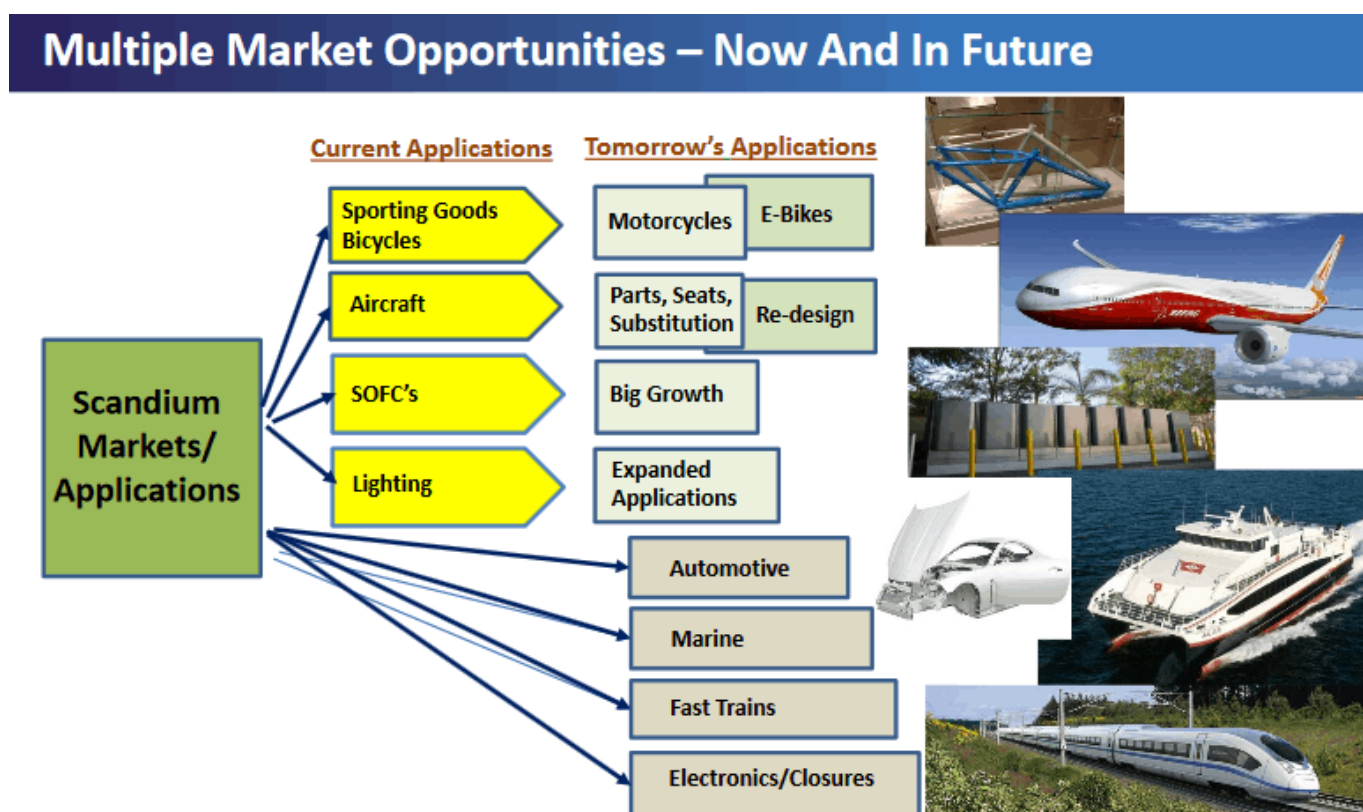
Imperial Mining Group is currently working to expand the resource. Previous drilling has defined a mineralised zone over 250 meters in strike and 170 meters in depth. Scandium oxide grades ranged from 0.0235% to 0.0319% (235-319g/t), which is pretty good. Scandium is not rare, however finding commercially viable grades (>200-300g/t) of scandium is very rare. More recent drill results have included 528g/t scandium oxide over 8.8 meters, showing the high grade potential of the Crater Lake Project.

The company expects the Crater Lake Project to be a small open-pit operation with an on-site magnetic concentrator and/or sensor-based sorting. This should reject 50-60% of mined material, resulting in high scandium recoveries and

lessening transportation risks and costs. It is anticipated that the project will be low CapEx, OpEx due to the higher grades and expected simple process recovery methods.

Future catalysts will include planned further metallurgical work, a PEA expected by Q1 2021, permitting, and an anticipated FS by Q3 2023, subject to financing.

Multiple market opportunities ahead as the demand for scandium increases dramatically



Source

Closing remarks

I have no doubt that the EV boom will take off, which means lightweighting will become essential for electric cars to boost performance, especially range. In the meantime there are plenty of other areas that demand scandium, so I expect the scandium sector to perform well this decade.

Imperial Mining Group has an exciting early stage high grade

scandium-niobium project in northeastern Quebec. Also of interest is their 100%-owned Opawica Gold Project in the Abitibi region of northwestern Québec where recent drilling discovered 1.21 g/t gold (Au) over a 13.3 meter length.

Risks are always high with junior mining stocks at the early stages and in this case the scandium market is another risk as it is yet to be fully developed. Of course with high risk comes the chance for high reward. Imperial Mining Group trades on a current market cap of just C\$9 million. One to follow closely, especially since securing a source of North American scandium could soon be very much in demand.