

Pat Ryan on Ucore's Engineering Advantage in the Production of Heavy Rare Earths for Permanent Magnets

written by InvestorNews | March 15, 2024

At PDAC Toronto 2024, [Critical Minerals Institute](#) (CMI) Co-Chairman Jack Lifton interviewed Pat Ryan, the Chairman and CEO of [Ucore Rare Metals Inc.](#) (TSXV: UCU | OTCQX: UURAF), discussing Ucore's advancements in the rare earths' permanent magnet supply chain. Ryan highlighted the company's focus on mid-market separation technologies, particularly their RapidSX technology, which significantly improves throughput rates for extracting rare earths essential for high-temperature applications like electric vehicles. With a commercial demo plant in Kingston, Ucore is engineering a full-scale system capable of producing heavy rare earths, including dysprosium, at purities above 99%. Ryan emphasized the strategic importance of heavy rare earths, noting, "The one critical thing we're really focused on is that heavy rare earth element...the permanent magnets really only work because the heavy rare earth allows it to operate at very high temperature."

Ucore's approach to securing feedstock for these valuable minerals is noteworthy, as Ryan mentioned sourcing from the Asian market outside of China. This strategic sourcing is part of Ucore's broader vision to disrupt China's control over the North American rare earth supply chain. With plans to operationalize a full-scale plant in Louisiana by 2025, Ucore is poised to become a significant player in the rare earths market. The company's engagement in joint ventures rather than

traditional buy-sell agreements reflects a collaborative strategy aimed at strengthening the western rare earths supply chain. This initiative is further supported by Ucore's recent announcement of successfully separating a range of heavy rare earth elements using its RapidSX technology, marking a critical step towards establishing a domestic rare earth processing capability.

Ucore's commitment to innovation and strategic partnerships underscores its potential to influence the North American rare earths market significantly. By focusing on the production of heavy rare earths and employing advanced separation technologies, Ucore aims to reduce dependence on foreign rare earths and contribute to the resilience of critical supply chains. With a seasoned executive like Ryan, who has extensive experience in manufacturing and supply chain management, Ucore is well-positioned to navigate the complexities of rare earth processing and meet the growing demand for these essential components in various high-tech applications.

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

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About Ucore Rare Metals Inc.

Ucore is focused on rare- and critical-metal resources, extraction, beneficiation, and separation technologies with the potential for production, growth, and scalability. Ucore's vision and plan is to become a leading advanced technology company, providing best-in-class metal separation products and services to the mining and mineral extraction industry.

Through strategic partnerships, this plan includes disrupting

the People's Republic of China's control of the North American REE supply chain through the near-term establishment of a heavy and light rare-earth processing facility in the US State of Louisiana, subsequent Strategic Metal Complexes in Canada and Alaska and the longer-term development of Ucore's 100% controlled Bokan-Dotson Ridge Rare Heavy REE Project on Prince of Wales Island in Southeast Alaska, USA.

To learn more about Ucore Rare Metals Inc., [click here](#)

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Defense Metals Signs MOU with Ucore to Ship Rare Earth

Carbonate to RapidSX™ Facility in Ontario

written by Tracy Weslosky | March 15, 2024

Defense Metals Corp. (TSXV: DEFN | OTCQB: DFMTF) and Ucore Rare Metals Inc. (TSXV: UCU | OTCQX: UURAF) have entered into a non-binding Memorandum of Understanding (MOU) to explore joint efforts in establishing a North American rare earth element (REE) supply chain. As a significant step under this MOU, Defense Metals will send a mixed rare earth carbonate sample from its Wicheeda REE project in British Columbia to Ucore's RapidSX™ Commercialization and Demonstration Facility (CDF) in Kingston, Ontario.

Jack Lifton with Mark Chalmers on Energy Fuels Rare Earth Deal and Increasing US Uranium Production

written by InvestorNews | March 15, 2024

In a comprehensive interview, Jack Lifton, Co-Chair of the [Critical Minerals Institute](#) (CMI) and Host at InvestorNews, engages with Mark Chalmers, CEO of [Energy Fuels Inc.](#) (NYSE American: UUUU | TSX: EFR). They discuss key issues in the critical minerals sector, focusing on Energy Fuels' transformative [MOU](#) with Astron Corporation. This agreement

signifies a major shift toward establishing a U.S.-centric rare earths supply chain. Central to this collaboration is the processing of rare earth concentrates from Australia's Donald Project at Energy Fuels' Utah facility, a critical step for the nation's future needs.

Chalmers also highlights Energy Fuels' strategic decision to ramp up [uranium production](#) at various U.S. mines. He outlines the company's initiatives to leverage favorable market conditions and supportive government policies, aiming for a significant increase in uranium production in the near future. This expansion is integral to Energy Fuels' broader commitment to playing a key role in the energy transition, showcasing their expertise in handling natural radioactive minerals.

The dialogue with Lifton further explores the wider implications of Energy Fuels' projects, particularly in aligning with U.S. strategies to reduce dependence on foreign critical minerals. Chalmers emphasizes the substantial impact these initiatives are poised to have on the U.S. electric vehicle and clean energy sectors. He underscores Energy Fuels' crucial contribution to creating a sustainable, competitive, and independent supply chain for these vital resources. To access the complete interview, [click here](#)

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About Energy Fuels Inc.

Energy Fuels is a leading US-based critical minerals company. The Company, as the leading producer of uranium in the United States, mines uranium and produces natural uranium concentrates that are sold to major nuclear utilities for the production of carbon-free nuclear energy. Energy Fuels recently began

production of advanced rare earth element (“**REE**”) materials, including mixed REE carbonate, and plans to produce commercial quantities of separated REE oxides in the future. Energy Fuels also produces vanadium from certain of its projects, as market conditions warrant, and is evaluating the recovery of radionuclides needed for emerging cancer treatments. Its corporate offices are in Lakewood, Colorado, near Denver, and substantially all its assets and employees are in the United States. Energy Fuels holds two of America’s key uranium production centers: the White Mesa Mill in Utah and the Nichols Ranch in-situ recovery (“**ISR**”) Project in Wyoming. The White Mesa Mill is the only conventional uranium mill operating in the US today, has a licensed capacity of over 8 million pounds of U_3O_8 per year, and has the ability to produce vanadium when market conditions warrant, as well as REE products, from various uranium-bearing ores. The Nichols Ranch ISR Project is on standby and has a licensed capacity of 2 million pounds of U_3O_8 per year. The Company recently acquired the Bahia Project in Brazil, which is believed to have significant quantities of titanium (ilmenite and rutile), zirconium (zircon) and REE (monazite) minerals. In addition to the above production facilities, Energy Fuels also has one of the largest NI 43-101 compliant uranium resource portfolios in the US and several uranium and uranium/vanadium mining projects on standby and in various stages of permitting and development.

To learn more about Energy Fuels Inc., [click here](#)

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Ucore's Strategic Leap: Pat Ryan Discusses the First Mover Advantage in Rare Earths Processing at Louisiana's Strategic Metals Complex

written by InvestorNews | March 15, 2024

In a recent InvestorNews interview with host Tracy Weslosky, Pat Ryan, Chairman and CEO of [Ucore Rare Metals Inc.](https://www.ucore.com) (TSXV: UCU | OTCQX: UURAF), shared insights into the company's latest strategic developments, particularly focusing on the Louisiana Strategic Metals Complex (LA-SMC) discussed in Ucore's most recent [news release](#). Central to Ucore's progress is the support from Louisiana Governor Jon Bel Edwards, who has played a pivotal role in advancing the LA-SMC project through the execution of a contract for exemption of ad valorem taxes. This move is part of a larger \$15 million incentive package from Louisiana Economic Development and is expected to yield an estimated \$8.2 million in tax savings over ten years,

significantly aiding the project's progression.

The recent visit by Ucore's team to the Kingston, Ontario, RapidSX™ Demo Plant marks a key step in the transition process of replicating the plant's technology in Louisiana. This initiative is part of Ucore's broader strategy to establish a strong operational base in North America, positioning itself as a critical player in the rare earth processing industry.

Additionally, Ryan discussed the potential collaborations Ucore is exploring with both government support in [the US](#) and [Canada](#); along with various industries, emphasizing the company's focus on strengthening the supply chain for metal alloy making and catering to sectors such as automotive, wind energy, and national defense.

Also in the interview, there was a discussion surrounding feature coverage of Ucore in a Reuters' [article](#) titled *Insight: Western start-ups seek to break China's grip on rare earths refining*, dated December 4, 2023, Ucore Rare Metals stands out for its innovative approach in the rare earths sector. Ucore aims to revolutionize rare earths processing by mid-2025 using RapidSX technology, which is touted to be thrice as fast as the traditional solvent extraction process, without generating hazardous chemical waste, and requiring significantly less physical space. Ucore's initiative is a part of a broader movement among Western companies to establish a non-Chinese supply chain for these critical minerals, essential for numerous electronic devices and the clean energy transition.

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

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Through strategic partnerships, this plan includes disrupting the People's Republic of China's control of the North American REE supply chain through the near-term development of a heavy and light rare-earth processing facility in the U.S. State of Louisiana, subsequent Strategic Metal Complexes in Canada and Alaska and the longer-term development of Ucore's 100% controlled Bokan-Dotson Ridge Rare Heavy REE Project on Prince of Wales Island in Southeast Alaska, USA.

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Energy Fuels, a Leading Force in the Critical Minerals Market, Announces Q3-2023 Financial Results

written by Tracy Weslosky | March 15, 2024

Energy Fuels Inc. (NYSE American: UUUU | TSX: EFR), a prominent player in the uranium and rare earth industries, unveiled its financial results for the quarter ending September 30, 2023. And I must say, as a keen observer and a staunch supporter of Energy Fuels, it thrills me to witness the company's exponential growth and remarkable achievements. Not to mention, Energy Fuels is by far my favorite company in this domain.

Pat Ryan on Ucore's \$4M Department of Defense Award and Plans in Louisiana

written by InvestorNews | March 15, 2024

In this InvestorIntel interview, Chris Thompson talks with [Ucore Rare Metals Inc.](#)'s (TSXV: UCU | OTCQX: UURAF) CEO and Chairman Pat Ryan about being [awarded US\\$4 million](#) from the US Department of Defense (DoD) to demonstrate rare earth element (REE)

separation technology capabilities at its RapidSX™ Commercialization and Demonstration Facility in Kingston, Ontario.

Pat believes the award signifies recognition and credibility for Ucore's work in the past years and its ability to process both heavy and light rare earths. He also comments that the DoD contract is open-ended, providing an opportunity for further commercial-level contracts in the future.

Providing an update on ramping up production at their Louisiana Strategic Metals Complex, Pat discusses how Ucore is securing US-friendly feedstock sources for its processing facility for converting heavy and light REEs feedstock sources to salable individual rare earth products. Ucore aims to be a first mover in delivering rare earth oxides to the North American market, proving commercial viability and insuring a domestic supply.

Pat remarks that investors can anticipate upcoming news regarding feedstock arrangements, potential off-take agreements, ongoing government support, and additional government funding opportunities.

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

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Through strategic partnerships, this plan includes disrupting the People's Republic of China's control of the North American REE supply chain through the near-term development of a heavy and light rare-earth processing facility in the US State of Louisiana, subsequent SMCs in Canada and Alaska and the longer-term development of Ucore's 100% controlled Bokan-Dotson Ridge Rare Heavy REE Project on Prince of Wales Island in Southeast Alaska, USA.

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Ucore Awarded \$4M from the US DoD to Support Rare Earths Separation Facility in North America

written by InvestorNews | March 15, 2024

Ucore Rare Metals Inc. is building a North American rare earths supply chain, with an initial focus on the midstream refining process of rare earths in North America. To achieve this the Company has been making excellent progress with the help of government support in both Canada and the USA.

Jack Lifton on the Critical Minerals Crisis

written by Jack Lifton | March 15, 2024

We are now at an inflection point for our society. If we can secure the supplies and the processing capacity for the minerals critical for the technologies we now take for granted in our daily lives, then our nations will flourish and grow. If not, then our standard of living will decline, and those who have the critical minerals and the industrial bases to refine and fabricate them surge ahead of us. Our politicians and policymakers are woefully ignorant of this reality. This is the greatest danger of all to our lifestyle and security.”

A profitable Energy Fuels acquires a rare earth project in Brazil and leads the way for critical minerals in the USA

written by InvestorNews | March 15, 2024

Energy Fuels Inc. (NYSE American: UUUU | TSX: EFR) (“Energy Fuels”) has been going from strength to strength in 2023. As the leading US uranium producer, recent expansion to rare earths processing has made Energy Fuels a leading US supplier of

critical minerals.

Pat Ryan Discusses Ucore's Competitive Edge in the North American Rare Earths Supply Chain

written by InvestorNews | March 15, 2024

In this InvestorIntel interview, Tracy Weslosky talks with [Ucore Rare Metals Inc.](#)'s (TSXV: UCU | OTCQX: UURAF) CEO and Chairman Pat Ryan about Ucore's first planned [rare earths separation and oxide production facility](#) within the England Airpark in Alexandria, Louisiana.

Pat explains that the selection of the 80,800 square-foot facility was based on critical success markers such as streamlined logistics, access to chemicals and reagents, attractive energy costs, labor pool robustness, and community support, including technical education infrastructure.

Highlighting the absence of a rare earths oxides separation facility in North America, Pat discusses how Ucore is focused on high-margin, individual rare earth oxide production using its proprietary RapidSX™ rare earths separation technology in an ESG-friendly manner.

Pat explains how RapidSX™ technology delivers more throughput per square foot with reasonable capital expenditures, and quicker processing time using less chemicals and power than

conventional solvent extraction.

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

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About Ucore Rare Metals Inc.

Ucore is focused on rare- and critical-metal separation technologies targeting production, scalability, and growth. Ucore's vision and plan are to become a leading advanced technology company, providing best-in-class metal separation products and services to the nascent North American rare earths (REE) supply chain. This plan includes the near-term development of a heavy and light rare-earth processing facility in Louisiana, with subsequent facilities in Canada, Alaska and the longer-term development of Ucore's heavy-rare-earth-element mineral-resource property at Bokan Mountain on Prince of Wales Island, Alaska. Ucore is listed on the TSXV under the trading symbol "UCU" and in the United States on the OTC Markets' OTCQX® Best Market under the ticker symbol "UURAF."

To learn more about Ucore Rare Metals Inc., [click here](#).

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