

As dynaCERT strives for cleaner air, a partnership through Cipher Neutron's deal with Strategic Resources offers a greener steel

written by InvestorNews | August 16, 2023

There has long been a debate about the pace at which we should move away from fossil fuels. While many advocate for an immediate zero fossil fuel transition, the reality is much more complex. As [Dean Bristow argues](#), people in cold climates, covering most of North America, Europe, and parts of Asia, still rely on fossil fuels for warmth. Immediate alternatives, such as transitioning from coal to natural gas, are often dismissed, even though they can serve as crucial interim solutions.

An area of contention remains the transportation sector. Although electric vehicles (EVs) have gained traction, fully replacing all combustion engines with EVs remains a challenge due to infrastructural and [resource constraints](#). Meanwhile, [dynaCERT Inc.](#) (TSX: DYA | OTCQX: DYFSF) presents a compelling solution for reducing emissions from diesel engines. By producing hydrogen and oxygen on-demand, their technology, when added to diesel engines, improves combustion, reducing greenhouse gas emissions, particulate matter, and fuel consumption. This innovation is powered by distilled water and the vehicle's battery, making it an attractive interim measure until EV infrastructure becomes pervasive.

dynaCERT's HydraGEN™ system offers potential benefits not just from an environmental standpoint but also from a financial

perspective. The system's ability to enhance combustion translates to less fuel consumption and a decrease in maintenance costs, such as engine oil replacements. Recent test results from the company indicate a significant reduction in various emissions, including up to 88.7% reduction in NOx and 55.3% in particulate matter.

Further emphasizing dynaCERT's commitment to cleaner energy solutions, their partnership with Cipher Neutron Inc., a company focused on Anion Exchange Membrane (AEM) Electrolysers for Green Hydrogen production, has taken a significant stride. Earlier today ([August 16, 2023](#)), Cipher Neutron and [Strategic Resources Inc.](#) jointly announced [a collaboration](#) to explore supplying the BlackRock Project's metallurgical facility in Saguenay, Québec with AEM Electrolysers. These electrolysers are intended to produce Green Hydrogen, marking a step towards the transition to Green Steel production.

The BlackRock Project, spearheaded by Strategic Resources, is set to benefit immensely from this collaboration. Cipher Neutron's AEM Electrolysers are noted for their efficiency, cost-effectiveness, and environmental benefits. Given the project's location, the deployment of these electrolysers is strategically ideal. This venture promises to reduce greenhouse gas emissions further, with plans to deploy a significant number of AEM Green Hydrogen Electrolysers for Green Steel production.

Cipher Neutron's AEM technology represents a potential game-changer in the steel industry, which currently accounts for roughly 7% of global carbon dioxide emissions. By reducing emissions, this collaboration signifies a bold step in the transition towards a greener global economy.

In conclusion, the intersection of dynaCERT's innovations with the forward-thinking approach of Cipher Neutron and Strategic

Resources showcases the potential of technology and collaboration in driving the world towards a greener future. As the transition continues, such integrated solutions may pave the way for a more sustainable and cleaner world.

dynaCERT is trying to help us all breathe a little easier

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EVs also aren't going to be providing 100% of our transportation needs anytime soon. It is going to take time to build out the infrastructure to manufacture all those replacement vehicles, as well as acquire all the resources that go into them. But what if there was a low-cost, easy to install solution for every single diesel engine on the planet that would reduce all greenhouse gas emissions, reduce particulate matter (the black smoke you see billowing out of the exhaust pipes) and also reduced fuel consumption

Jim Payne of dynaCERT Explains Carbon Emission Reduction

Technology in the Mining Industry

written by InvestorNews | August 16, 2023

In this InvestorIntel interview during PDAC 2023, Chris Thompson talks to Jim Payne President, CEO, and Director of [dynaCERT Inc.](#) (TSX: DYA | OTCQX: DYFSF) about the use of its Carbon Emission Reduction Technology (“CERT”) in the Mining Industry.

Jim explains that the company’s technology enhances the burn of an internal combustion engine and initially focused on diesel engines in transport trucks. However, the mining industry is now dynaCERT’s largest market, and the company is seeing phenomenal results with its technology, improving fuel economy by 10-15% and reducing toxic gas emissions by over 50%, particularly NOx emissions, which are reduced by up to 88%.

Finally, he discusses how dynaCERT’s technology is unique, producing hydrogen on demand from water through a patented electrolysis system that determines the proper flow rate of gas to maximize the burn and reduce emissions. dynaCERT’s tracks the fuel economy and reduction in greenhouse gases with its proprietary HydraLytics Telematics and converts it into carbon credits, which is a big part of the company’s future.

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

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About dynaCERT Inc.

dynaCERT Inc. manufactures and distributes Carbon Emission Reduction Technology along with its proprietary HydraLytics™ Telematics, a means of monitoring fuel consumption and

calculating GHG emissions savings designed for the tracking of possible future Carbon Credits for use with internal combustion engines. As part of the growing global hydrogen economy, our patented technology creates hydrogen and oxygen on-demand through a unique electrolysis system and supplies these gases through the air intake to enhance combustion, which has been shown to lower carbon emissions and improve fuel efficiency. Our technology is designed for use with many types and sizes of diesel engines used in on-road vehicles, reefer trailers, off-road construction, power generation, mining and forestry equipment.

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

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Selling carbon credit futures by way of a convertible note, dynaCERT offers an innovative way to raise capital

written by Tracy Weslosky | August 16, 2023

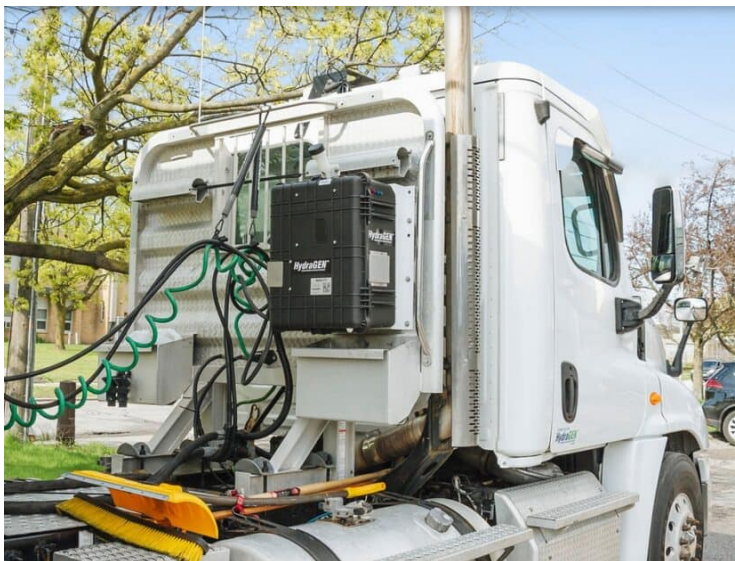
We all know that companies can sell our data and how valuable data has become. Now a company is aiming to sell 'emissions reductions data in the form of carbon credit futures'.

[dynaCERT Inc.](https://www.dynacert.com) (TSX: DYA | OTCQX: DYFSF) recently [announced](#) a unique way to raise capital by selling up to CAD\$10M of Carbon Credit Convertible Notes. The concept is quite simple.

dynaCERT's will issue a convertible note that is convertible into carbon credit 'futures' after 5 years, so is effectively raising capital from the future carbon credit proceeds to come from the carbon credits potentially earned by dynaCERT's emission reduction product, HydraGEN™.

dynaCERT's HydraGEN™ system and HydraLytica™ software creates hydrogen and oxygen on-demand through a unique patented electrolysis system and supplies these gases through the air intake of internal combustion engines to enhance combustion, resulting in lower carbon emissions and greater fuel efficiency. The main target market is heavily polluting diesel engines. HydraLytica™ is able to create the data to show the carbon reduction/credit. (see [video](#) 3 minute 50 second mark)

dynaCERT's HydraGEN™ hydrolysis unit reduces emissions and improves fuel efficiency



Reducing Greenhouse Gases

Our Green Initiative focuses on reducing the amount of Greenhouse gases (GHG) emitted by the combustion of carbon based fuels. Our technology works with internal combustion engines used for industrial production processes, such as power generation, and for transportation, which includes tractor-trailers, rail, marine and off-road construction equipment. As more opportunities open for us to validate our technology, the more impact we will have in these areas.

Reducing the amount of GHGs provides benefits to the environment, to communities, to businesses and to our shareholders.

Source: [dynaCERT website](#)

The dynaCERT announcement [stated](#): “The offering is not convertible into the Company's common shares and is non-dilutive to shareholders of the Company. Each Carbon Credit Convertible Note is priced at \$1,000 (Canadian) with a maturity date of ten

(10) years after the date of issue. Commencing at the fifth (5th) anniversary after the date of issue, the Carbon Credit Convertible Notes will be convertible, at any time thereafter, at the option of the holder, into Carbon Credits generated by *dynaCERT's* proprietary HydraGEN™ Technology. The Carbon Credit Convertible Notes are currently designed to be offered as a non-brokered private placement to institutional investors that wish to be the first to gain long term exposure to Carbon Credits.....”

The ‘methodology’ of the Carbon Credit Convertible Notes has been approved by [VERRA](#); however full approval is still in the final stages as you can read [here](#). VERRA certify and manage the world’s leading voluntary carbon markets program, the Verified Carbon Standard (VCS) Program. VERRA [state](#): “The Verified Carbon Standard (VCS) Program is the world’s most widely used greenhouse gas (GHG) crediting program. **It drives finance toward activities that reduce and remove emissions**, improve livelihoods, and protect nature.....”

Jim Payne, President, CEO, and Director of *dynaCERT*, [stated](#): “Carbon Credit Convertible Notes are an innovative structure offering premium Carbon Credit futures **derived from measured and verified emission reductions from the data received from internal combustion engines.**”

Note: Bold emphasis by the author.

Quite amazing that the ‘data showing emissions reductions’ nowadays potentially qualifies for carbon credits.

dynaCERT obtained VERRA Verified Carbon Standard ‘methodology’ approval in 2021

Verra Carbon Credits



Source: [dynaCERT company presentation](#)

dynaCERT plan to use the raised funds towards “working capital of its currently available HydraGEN™ Technology business and fulfill timely delivery of sales of its products and to expedite current and new potential deliveries globally.”

dynaCERT is making inroads with sales into the mining industry

dynaCERT's emission reduction HydraGEN™ product continues to gain traction in terms of sales into the mining industry. The mining industry is under significant ESG pressure to reduce emissions. As [announced](#) on November 15, 2022, dynaCERT's distributor has reported sales and/or pilot trials with multiple leading global mining companies including Vale, Codelco, Nexa Resources, Arauco, Antamina, and a Mexican multinational food processing and distribution company Sigma Alimentos.

dynaCERT is also working on technology to develop Green Hydrogen (5:30 mark in the [video](#)), but we will leave that story for another day.

Closing remarks

Selling carbon credit futures by way of a convertible note is certainly an innovative way to raise capital. It potentially indicates a very strong demand by carbon emitting companies to be able to buy carbon credits (in this case carbon credit futures) to help offset their carbon emissions, otherwise face hefty fines.

InvestorIntel will circle back and keep investors updated on this one and see how dynaCERT goes with their offering.

You can learn more by watching the recent dynaCERT CEO video interview moderated by Byron W King [here](#).

dynaCERT trades on a market cap of C\$69 million.

dynaCERT's Jim Payne on generating carbon credits and a 'fleet management system on steroids'

written by InvestorNews | August 16, 2023

In this InvestorIntel interview, Byron W King interviews [dynaCERT Inc.](#)'s (TSX: DYA | OTCQX: DYFSF) President, CEO, and Director Jim Payne about dynaCERT's proprietary HydraGEN™ Technology. Proven to be effective in improving fuel economy and significantly reducing greenhouse gases in internal combustion engines, Jim provides an update on how six of the largest mining

companies in the world [are adapting](#) dynaCERT's HydraGEN™ Technology.

Jim says that in addition to reducing particulate matter and toxic gases by more than 50%, dynaCERT's HydraGEN™ Technology results in up to 88% reduction in nitrogen oxides right at the combustion. With growing concerns around climate change, Jim discusses how “dynaCERT has a technology right now that can make a substantial difference” by reducing emissions. Describing dynaCERT's HydraLytics™ Telematics as a “fleet management system on steroids” that measures fuel savings and provides emission reduction, Jim explains how this technology generates carbon credits.

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

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About *dynaCERT* Inc.

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To know more about dynaCERT Inc., [click here](#)

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Byron W King with Jim Payne on dynaCERT's \$10M of Carbon Credit Convertible Notes Offering

written by InvestorNews | August 16, 2023

In this InvestorIntel interview, host Byron W. King interviews [dynaCERT Inc.](#)'s (TSX: DYA | OTCQX: DYFSF) President, CEO, and Director Jim Payne about how dynaCERT recently launched an offering of up to \$10,000,000 of Carbon Credit Convertible Notes under private placement exemptions in Canada. Providing an overview and update on how the Carbon Credits generated by dynaCERT's proprietary HydraGEN™ Technology works, Jim explains how Carbon Credit Convertible Notes offer a way to raise capital that is non-dilutive for shareholders.

In this interview, Byron has Jim explain how dynaCERT's proprietary HydraGEN™ Technology carbon emission reduction technology works and how it has been proven around the world. Jim adds that the carbon credits generated by HydraGEN™ Technology is data driven and is audited and certified by Verra – one of the largest carbon credits certifying body, Verra. This exploratory interview touches on the impact of the reduction of carbon emissions from the logistics industry (trucking) and how dynaCERT is well positioned for both growth and revenue

potential.

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

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dynaCERT puts its carbon

emission reduction technology to the test

written by InvestorNews | August 16, 2023

Getting companies to adopt climate change initiatives is no easy task. Many economists believe that carbon pricing – either through carbon taxes or cap-and-trade programs – is the most efficient way to reduce greenhouse gas emissions. Carbon taxes provide a financial incentive for businesses and households to reduce their energy use and switch to cleaner fuels.

Carbon pricing provides across-the-board incentives to reduce energy use and shift to cleaner fuels and is an essential price signal for redirecting new investment to clean technologies. The carbon emissions and credit game is tricky, but pricing carbon is critical in deterring fossil fuel use and reducing greenhouse gas emissions.

Technology is going to play a vital role in the facilitation of climate change initiatives. There is an enormous opportunity for companies with climate change and carbon credit technologies. [McKinsey](#) reported that the carbon credit market could be worth \$50 billion by 2050.

One company that has been involved in carbon credits and carbon reduction is [dynaCERT Inc.](#) (TSX: DYA | OTCQX: DYFSF). dynaCERT was one of the first companies to focus on carbon credits, and they have been working with [Verra](#), the largest governing body for carbon credits, for over two years. dynaCERT's Carbon Emission Reduction Technology (CERT) creates hydrogen and oxygen on-demand through a unique electrolysis system and supplies these gases to engines to enhance combustion, resulting in lower carbon emissions and greater fuel efficiency.

Verra “[announced](#) to dynaCERT that it’s Methodology in respect of its Carbon Credit Certification has reached a new important stage.” This technology can be a significant benefit for companies looking to offset their carbon emissions, and dynaCERT is at the forefront of this rapidly growing industry.

[InvestorIntel interviewed](#) dynaCERT’s President, CEO, and Director Jim Payne about its recent efforts and technology to reduce carbon emissions and generate carbon credits. Payne is excited about the commercial prospects for his company’s innovative technology. He noted that several large corporations have expressed interest in using dynaCERT’s products to reduce their emissions. These companies are attracted by the potential for significant reductions in emissions – up to 50 percent – as well as the carbon credits that will be generated.

On [August 22nd](#), dynaCERT announced a new customer as both a showcase of their technology and one that could further their long-term prospects. The city of Timmins in Ontario, Canada, is committed to conducting a comprehensive pilot program to determine the city’s economic, social, and governance (ESG) objectives. As part of this program, the city has installed ten of dynaCERT’s HydraGEN™ units on various diesel-powered city vehicles. The units are expected to reduce fuel consumption, greenhouse gas emissions footprint, and carbon and NOx emission. Significantly, the pilot project will run and test the technology well into the Canadian winter months.

The program is planned to begin in September 2022, where equipped municipal vehicles will be analyzed to determine the impact of dynaCERT’s technology on emission reductions and fuel savings. The city expects to install HydraGEN™ Technology on buses, landfill equipment, garbage trucks, and other diesel-powered equipment. The results of the pilot program will be closely monitored to assess the potential benefits of dynaCERT’s

technology for the City of Timmins, as well as a test case for other municipalities and potential commercial customers, which will be closely monitoring the results of the program in Timmins, which is considered a hub of the progressive mining and forestry community.

Although dynaCERT also recently announced the departure of two directors and a change of auditors, at publication date the company's stock has seen a steady increase over the past two weeks from \$0.10 to about \$0.22. There is clearly a growing appetite at many levels for carbon emission reduction technologies.

dynaCERT's Jim Payne on Ranking #1, Eric Sprott's Investment and Carbon Credits

written by InvestorNews | August 16, 2023

In an InvestorIntel interview during [PDAC](#) last week, Tracy Weslosky secures an interview update with President, CEO & Director Jim Payne on [dynaCERT Inc.](#) (TSXV: DYA | OTCQB: DYFSF), a manufacturer and distributor of Carbon Emission Reduction Technology for use with internal combustion engines.

Jim started by saying that dynaCERT is the number 1 ranked company across all sectors on 2020 TSX Venture 50. He added that dynaCERT has a global solution to reduce pollution that people can adopt right now. The company is at the forefront of the carbon credits market and has recently attracted investors

like Eric Sprott and Dr. Joerg Mosolf of Mosolf SE & CO. AG who have invested in the company. Jim continued, "Sustainability is a big thing today – with our technology, we have a solution now. We are reducing emissions very significantly for any internal combustion engine."

The company is well capitalized and has a continued revenue stream. Jim also revealed that he has been asked to speak at the World Climate Summit in November in the UK on the future of the world's carbon credits.

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

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