

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

written by InvestorNews | August 16, 2023

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

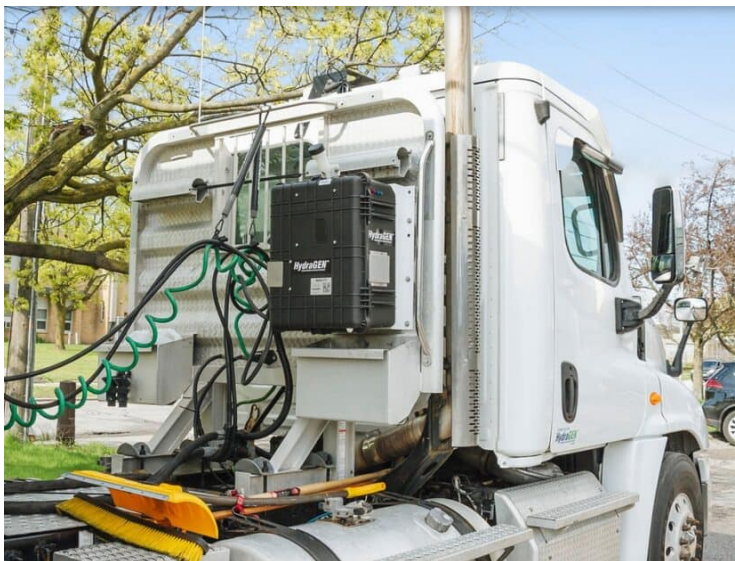
We all know that companies can sell our data and how valuable data has become. Now a company is aiming to sell 'emissions reductions data in the form of carbon credit futures'.

[dynaCERT Inc.](#) (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 HydraLytics™ 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. HydraLytics™ 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.....”

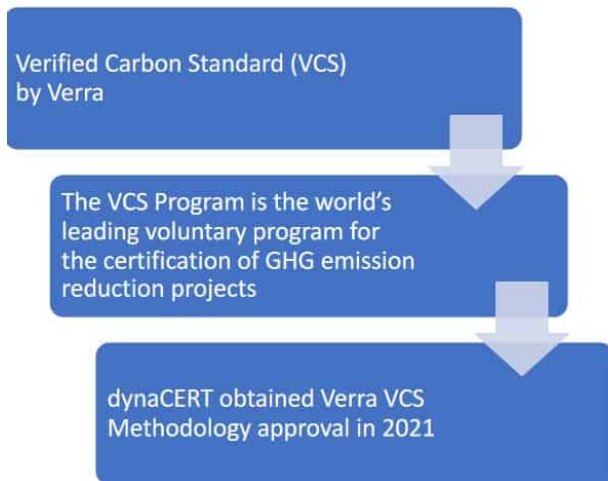
Jim Payne, President, CEO, and Director of *dynaCERT*, [stated](#): “Carbon Credit Convertible Notes are an innovative structure offering premium Carbon Credit futures **derived from measured and verified emission reductions from the data received from internal combustion engines.**”

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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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.

Jim Payne of dynaCERT talks about creating fuel efficiency and generating carbon credits

written by InvestorNews | August 16, 2023

In this InvestorIntel interview with host Tracy Weslosky, [dynaCERT Inc.](#)'s (TSX: DYA | OTCQX: DYFSF) President, CEO, and Director Jim Payne talks about its patented technology for carbon emission reduction to meet ESG goals.

In the interview, which can also be viewed in full on the InvestorIntel YouTube channel ([click here to access InvestorChannel.com](https://www.investorintel.com)), Jim tells Tracy that “dynaCERT was going to be at the forefront of the carbon credit world long before even carbon credit was something anybody was talking about.” He explains how *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. Jim says that dynaCERT has been working with Verra, the largest governing body to approve and register carbon credits, for over two years.

Talking about commercializing and expanding dynaCERT’s customer base, Jim continued, “we have some of the largest companies in North America that have been talking to me for quite some time. They want they want the carbon credits, they want the bragging rights, they want to be able to say that they have adopted our technology for the carbon credits.” These include municipalities in Canada and in Europe and some of the largest power supply companies in Canada, and also fleets of diesel vehicles. “We improve the fuel economy, more importantly we reduce the emissions right at the source, right at the combustion and we reduce the emissions north of 50 percent,” he says. “By adopting our technology they meet and exceed their goals for the emission reductions, so there’s a lot of excitement there.”

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

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Nano One Strives For Sustainability and a Total Domestic North American Lithium Ion Battery Supply Chain

written by InvestorNews | August 16, 2023

My biggest takeaway from COP26 is not so much climate action and emission reduction, but the message of sustainability. Without focusing on the importance of sustainability one risks thundering down a path of unintended consequences. What do I mean by this? Several years ago I read that if we could convert all coal fired power generation to natural gas it would achieve the Kyoto emission target. I can't confirm if this is completely

accurate or not, regardless it would have been a large step in the right direction (despite still being a fossil fuel based solution). At the time it would also have been achievable with existing, available resources and bought the world some time to continue building out renewable resources, which is the ultimate end game. However in 2021, with the lack of energy investment over the last several years due to a combination of factors, that isn't the case today, and we are starting to see parts of the world where renewables haven't developed enough by themselves to even keep people warm this winter. Meanwhile, the fossil fuel alternatives aren't any longer as readily available as backup and may still not even provide enough for home heating. I understand the urgency of eliminating coal fired power, but if there aren't enough alternative power options to keep people warm then who knows what happens next.

That's why I think in order to successfully green our economy and reduce our global carbon footprint, the focus has to be on how to do it sustainably. One company that has to be at or near the top of the list in the transition to clean energy in a sustainable way is [Nano One Materials Corp.](#) (TSX: NANO). Nano One is a clean technology company with a patented, scalable and low carbon intensity industrial process for the low-cost production of high-performance lithium-ion battery cathode materials. The technology is applicable to electric vehicle, energy storage, consumer electronic, and next generation batteries in the global push for a zero-emission future. Nano One's One-Pot process, its coated nanocrystal materials, and its Metal to Cathode Active Material (M2CAM) technologies address fundamental performance needs and supply chain constraints while reducing costs and carbon footprint.

Another facet of sustainability that is very applicable today is the supply chain. Currently, the cathode supply chain is long and complex. Nano One manufactures its cathode materials

directly from nickel, manganese, and cobalt metal powder feedstocks rather than metal sulfates or other chemical salts. The metal powders used are one fifth of the weight of metal sulfates, avoiding the added costs, energy, and environmental impact of first converting to sulfate and then the shipping and handling of waste. The manufacturing process for all of its Cathode Active Material (CAM) uses lithium feedstock in the form of carbonate rather than of (lithium) hydroxide, which is costly, corrosive and harder-to-handle. The process is feedstock flexible which enables improved optionality of sourcing of raw materials. Nano One's technology aligns it with the sustainability objectives of automotive companies, investment communities and governmental infrastructure initiatives.

On Tuesday, November 10, 2021, [Nano One announced](#) the goal of building a fully integrated and resilient battery supply chain in North America, which must include responsible mining of battery metals, onshore refining, environmentally favorable cathode material production, and recycling. The Company believes there is a once-in-a-generation opportunity to create a secure and cost competitive supply chain that is domestically integrated with a low environmental footprint. Accordingly, Nano One is shifting its LFP (lithium-iron-phosphate) cathode material strategic direction to large emerging markets outside of China, starting in North America, and has ceased joint development activities with Pulead Technology Industry.

LFP production is free from the constraints of nickel and cobalt, and although its origins are deeply rooted in Canada, its growth over the last decade is almost entirely based in China. Recent LFP cell-to-pack innovations have driven costs down and enabled greater EV range, setting the stage for EV pioneers to shift to LFP. The need has never been greater for a sustainable, responsible, and secure supply of LFP materials and batteries, to be established and supported in North America and

Europe, proximal to where the EV's are manufactured. Canada has clean energy assets, responsibly sourced critical minerals, and a rich history in LFP technology and manufacturing. By leveraging these opportunities with the Company's simplified low-cost approach to cathode production, Nano One seeks to create a resilient value-added North American LFP supply chain in a collaborative ecosystem with a smaller environmental footprint.

There you have it. A company that sees the bigger picture and embraces sustainability in an effort to advance clean technology while reducing both costs and the overall carbon footprint. If this were a video, at this point I would simply drop the mic and walk away. Since it's an article and I need a conclusion I'll finish off by saying Nano One has the potential to have its technology in every EV built in North America and Europe, and that's going to be a pretty big number in the not too distant future.

dynaCERT's Carbon Emissions Reduction Technology (CERT) is revved and ready, as the world eyes the upcoming UN Climate Change Conference in Glasgow

for updates on emissions reductions commitments

written by InvestorNews | August 16, 2023

As the world gears up for the UN Climate Change Conference (COP 26) in Glasgow, UK, on November 1-12, 2021, all eyes will be on country's emissions reductions commitments. It will also be a good time for those companies that are focused to help reduce emissions, such as [dynaCERT Inc.](#) (TSX: DYA | OTCQX: DYFSF | FRA: DMJ).

dynaCERT is focused on reducing emissions and improving fuel efficiency with their Carbon Emission Reduction Technology (CERT) used with internal combustion engines. Their flagship product is HydraGEN™, an electrolysis unit that produces hydrogen (H₂) and oxygen (O₂) gases to optimize the fuel burn, resulting in a [6-19%](#) increase in fuel economy and dramatic reduction in emissions. dynaCERT has spent C\$70 million and 17 years developing the HydraGEN™ technology.

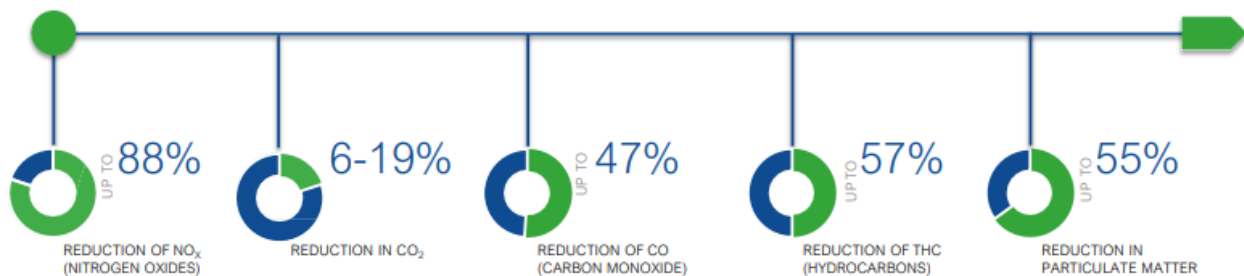
HydraGEN™ emissions benefits

Emission Benefits

HydraGEN™

HydraGEN™ Lowers Emissions Substantially

The following results have been acquired from accredited third party verification performed by PIT Group in Montreal, Quebec, Continental EMITEC in Germany and performance testing at the UOIT ACE in Toronto, Ontario.



Source: [Company presentation](#)

dynaCERT gives a good business description [stating](#):

“The Company is engaged in the design, engineering, manufacturing, testing, and distribution of a transportable hydrogen generator aftermarket product, currently in use in the heavy Class 6-8 tractor trailer industry, the smaller Class 2-5 trucks, stationary power generation, off-road construction machinery, and mining and targeted for use in refrigerated trailers and containers, and forestry industries, with potential for application in the ocean shipping and trans-continental rail industries.”

Despite the COVID-19 disruption, dynaCERT has signed up 7 new global dealers

Unfortunately, the last year or so has seen a severe disruption to dynaCERT's business both in terms of the supply chain disruption and also the global sales distribution. During Q2 2021, dynaCERT [shipped 74 HydraGEN™ units](#) to dealers and clients.

For the second quarter to June 30, 2021, the Company recognized sales of C\$414,503 (compared to [C\\$19,805](#) a year ago) and for the six months ended June 30, 2021, the Company recognized [sales of C\\$464,296](#). These figures are below expectations due to the COVID-19 impact.

On a brighter note, dynaCERT now has [47 qualified agents and dealers](#) operating in over 38 countries worldwide. The dynaCERT HydraGEN™ line of products is ready to be presented to a market potential of more than [100 million vehicles](#). Despite the disruptions, dynaCERT has been able [to sign up 7 new dealers](#) – 6TAVADA LDA (Portugal), SSiE (Canada), ESAMETAL S.r.l. (Italy), SIMMAX Power Generation (Canada), Simply Green Ltd (Canada), GridFix, (Australia), and ACR Industrial Supplies (Colombia and Peru).

In addition, Alltrucks GmbH & Co. AG (Germany) [has initiated promoting](#) dynaCERT's HydraGEN™ technology to 300 of Alltrucks partner establishments in Germany.

In Q1 2021, dynaCERT received purchase orders with advanced payment of 20 HG1B units for the North American continental trucking customers of KarbonKleen which is furthering its successful trials to its trucking and logistics clients. This is not part of the subscription program for 3,000 units.

The city of Woodstock has had a conventional public transit bus and a recycling packer truck installed with HydraGEN™ HG2R technology units. dynaCERT is also working with Provincial and Federal Governments, several municipalities and power utility providers across Ontario supplying quotes and extensive analyst reports for their fleets showing the potential fuel savings, as well as the emissions reductions and greenhouse gas reductions that could potentially be realized with the utilization of HydraGEN™ units.

Finally in the key North American market dynaCERT recently [stated](#): “In Q2 2021, dynaCERT has received purchase orders of the Company’s newest 2021 models HG1 and HG2 units through several Dealers continuing to penetrate the North American logistics, trucking and consumer markets, including smaller commercial delivery/service vehicles.”

dynaCERT expertise in Hydrogen Clean Technology

In recent times dynaCERT has increasingly become known as an expert in Hydrogen Clean Technology. This was seen back in March 2021 when it was [announced](#) that dynaCERT had achieved Local and Global milestones and became part of the Ontario Hydrogen Strategy Coalition, effectively attending meetings of the Hydrogen Strategy Working Group.

Then in June dynaCERT [announced](#) that they had accepted a strategic collaboration to advise Galaxy Power, from time to time, on general innovative Hydrogen Clean Technology advancements throughout Canada.

dynaCERT investment highlights

Investment Highlights

- Proven Carbon Emission Reduction Technology
- Proprietary know-how & Patents = Leader in Canadian Hydrogen Technology
- Carbon Credits can be measured and monetized
- High Barriers to Entry
- Strong Balance Sheet with approximately C\$13.5 million & Very Liquid Stock
- Near-term growth potential
 - Global Strategy: Canada, USA, South America, Europe, South Asia, Middle East
 - Diversified vertical market segments: trucks, reefer trailers, buses, heavy construction, mining equipment, electrical power generators, marine & locomotive
- Compelling Value Proposition to end-users of products = under 1 year payback
- Strong Margins = Attractive Business Model



Source: [Company presentation](#)

Closing remarks

dynaCERT has been impacted by COVID-19 and as a result, the Company's revenues have been lower than what was expected. On the positive side, the global number of dealers has increased, which better positions dynaCERT to capitalize when the market recovers. Also, we are rapidly approaching the COP 26 UN Climate Change Conference in November 2021 when all eyes will turn towards emissions reductions.

For investors, the stock price is less than half of where it was a year ago and trades on a market cap of C\$108 million. Given the enormous demand to reduce vehicle emissions and boost fuel efficiency then dynaCERT should recover soon.

Adding dynaCERT to Your CleanTech Portfolio

written by InvestorNews | August 16, 2023

After spending 16 years and over \$60 million to develop its CleanTech technology, [dynaCERT Inc.](#) (TSX: **DYA** | OTCQX: **DYFSF** | FSE: **DMJ**) hit major milestones in 2020, with the potential for an even better 2021.

As part of the growing global hydrogen economy, dynaCERT manufactures and distributes Carbon Emission Reduction Technology (CERT) for use with diesel engines.

Its flagship product, HydraGEN™, uses a patented process to generate hydrogen and oxygen on-demand, through an electrolysis system and supply the gases through the air intake to enhance combustion, reduce pollution emissions (by up to 50%), and improve fuel efficiency (by up to 19%).

dynaCERT estimates that a unit will pay for itself in fuel savings in about a year.

Key 2020 milestones included:

- In May, dynaCERT [received](#) a purchase order for 3,000 HydraGEN™ units from KarbonKleen Inc. and signed KarbonKleen as a dynaCERT's Preferred Service Provider, covering the trucking market in the United States.
- In August, dynaCERT [signed](#) a Dealer Agreement with Sparta Group's (TSXV: SAY) affiliate TruckSuite Canada Ltd. and **received an order for 150 HydraGEN™ units** from TruckSuite.
- In June, the Company [closed](#) an **C\$8.4 million stock offering** and, as of its latest financials, had \$16.2 million in cash.

- In July, dynaCERT [reopened](#) an updated Assembly Plant in Toronto, Ontario, Canada that was retrofitted with a **new semi-automated assembly system that can assemble up to 6,000 units per month, representing potential sales of almost \$445 million per year at full capacity.**
- The city of Woodstock, Ontario, Canada [signed](#) a deal with dynaCERT to equip Woodstock's diesel-powered vehicles with HydraGEN™ Technology. **Woodstock is the first major North American city to sign an agreement with dynaCERT.**
- dynaCERT also [established](#) a 100%-owned subsidiary called dynaCERT International Strategic Holdings Inc. ("DISH") that will be used to strategically invest in CleanTech companies directly involved with dynaCERT's solutions, including funding a monthly subscription option to facilitate sales of HydraGEN™ units.
- dynaCERT also [launched](#) its freight management software, HydraLytics™, as a new stand-alone offering into the FreightTech industry. The Company's PaaS (Platform as a Service) solution aggregates vehicle data to create actionable intelligence and presents the information in an easy to use interface.
- In order to broaden the company's appeal to a larger shareholder base, including institutional shareholders, dynaCERT [graduated](#) its stock listing to the TSX from the TSX Venture Exchange and, in the United States, graduated to the OTCQX Best Market.

Diesel Engine Market

The diesel engine market is massive – an estimated 1 billion diesel engines operate around the world.

dynaCERT's technology works with many types of diesel engines used in various industries including construction, forestry, mining, power generation, and transportation (trucks, marine,

railroad), to name a few.

dynaCERT has over 45 dealers around the world selling its HydraGEN™ technology to truck owners, commercial fleets, and governments that use diesel engines.

Even with the advent of electronic and hydrogen vehicles, it is estimated diesel engines will still dominate the commercial vehicle market due to factors such as durability, reliability, and low-cost operation. According to [a report by IHS Markit](#), by 2040, 60% of new medium and heavy commercial vehicles sold in the United States will still be fueled by diesel.

Environmental Pressures

After the coronavirus pandemic passes and with president-elect Biden campaigning on a pro-environment platform, greater air pollution restrictions are likely to be enacted in 2021.

Reductions in carbon dioxide (CO₂), nitrogen oxides (NO_x), and particulate matter (PM) are keys to cleaner diesel engines and dynaCERT's technology can help lower these toxic emissions.

Two Hundred Million Dollar Market Cap – Billion Dollar Opportunity

In November 2019, famous Canadian mining investor [Eric Sprott](#) made his first significant CleanTech investment by investing \$14 million in dynaCERT.

With a market cap of only C\$205 million and the current billion-dollar size of the market, there is still plenty of upside for dynaCERT's stock price. The analyst's estimate target price is C\$2.20, which represents a potential return of over 300%.



[Source:](#)