

SASKATCHEWAN

2023

# energy

REPORT



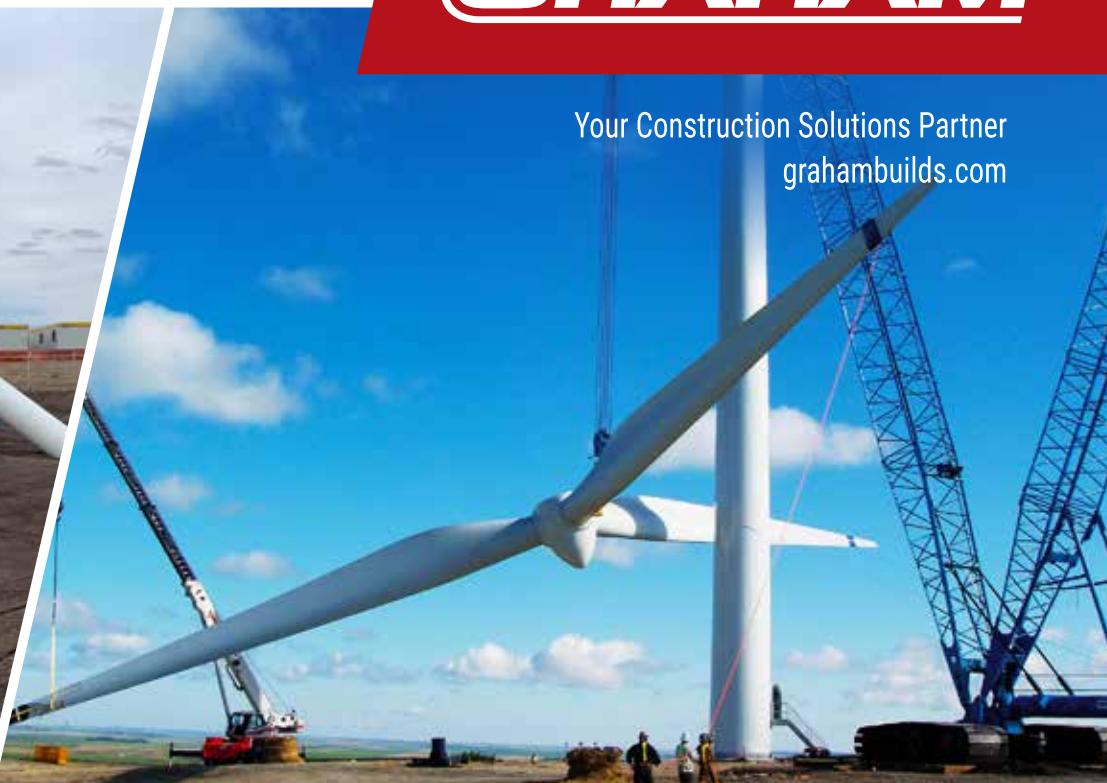
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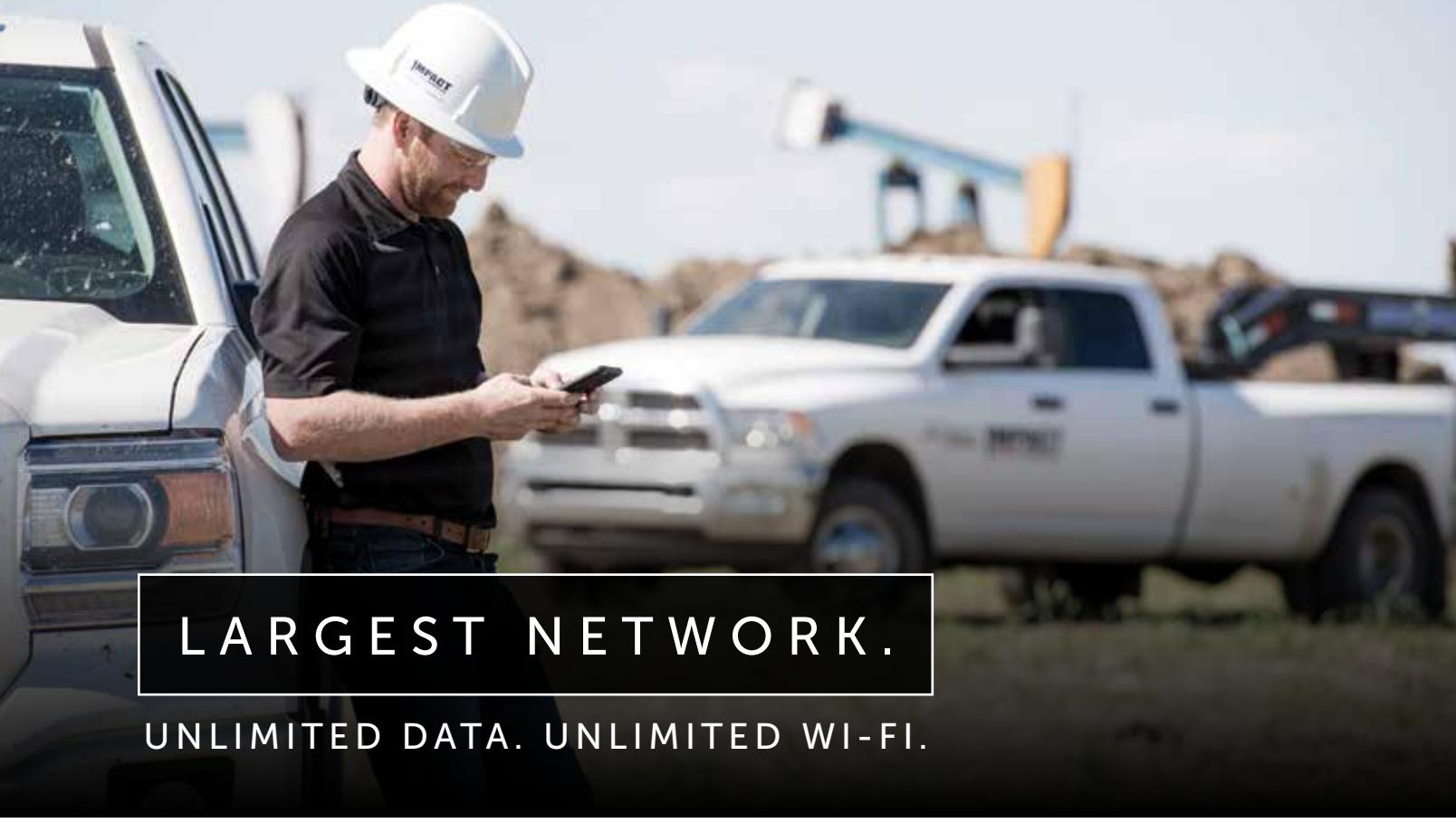
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## MESSAGE FROM THE PREMIER OF SASKATCHEWAN

# SCOTT MOE



On behalf of the Government of Saskatchewan, it is my pleasure to welcome you to the 2023 issue of the *Saskatchewan Energy Report*.

With global food and energy security top of mind, Saskatchewan has the natural resource products, the technology and the skilled people that the world needs. Now more than ever Saskatchewan's industries are in a position to step up and fill the market gaps left as a tragic consequence of the war in Ukraine.

Saskatchewan is the world's largest producer of potash, one of the largest global producers of uranium, and the only uranium producer in Canada. We are also proud to be the second largest oil producer and third largest gas producer in Canada, and the sixth largest oil producer in North America. Saskatchewan is also the largest helium producer in Canada and an emerging leader in lithium development and has 23 of the 31 critical minerals identified as essential for Canada's sustainable economic success.

The oil and gas industry in Saskatchewan represents over 15 per cent of our GDP and provides tens of thousands of jobs, supporting many communities across our province. Our oil and gas sector is one of the most reliable and environmentally friendly in the world. We commend our industry on their great success in reducing emissions from venting and flaring by 6.5 Mt CO<sub>2</sub>e, or 60 per cent, from 2015 levels in 2021. In our provincial Growth Plan, released in 2019, we committed to increasing Saskatchewan oil production by 20 per cent over the next decade. As demand for oil is expected to continue increasing and remain high, we are well positioned to see this growth in our sector.

We are seeing investment in other new energy sources that will further diversify our energy and resource sector, including drilling for lithium, hydrogen, and geothermal energy. The Government of Saskatchewan, in partnership with Whitecap Resources and Federated Co-operatives Limited, is providing

funding for a foundation report investigating the potential for a hydrogen hub in the Regina-Moose Jaw region. The report will be developed by the Transition Accelerator and Saskatchewan Research Council. This will align with our government's commitment to advance new and expanded carbon capture, utilization and storage projects in the province and will accelerate the private sector's interest in a hydrogen economy province-wide.

Companies are exploring for lithium development opportunities in Saskatchewan. After successfully completing their pilot project to extract lithium from Saskatchewan brine minerals, Prairie Lithium drilled their own dedicated lithium wells to further develop Saskatchewan's lithium resource. Prairie Lithium has been able to advance its project, in part, with help from our Saskatchewan Petroleum Innovation Incentive and the Saskatchewan Advantage Innovation Fund.

The highest-grade uranium deposits in the world are in northern Saskatchewan, and uranium production is ramping up. Recently, Cameco Corp. announced they will be re-opening their McArthur River and Key Lake facility, which will add hundreds of jobs. We are excited about the large role Saskatchewan uranium will play in powering small modular reactors in the future. Small modular reactors will provide safe, reliable and zero-emissions energy to help power our province, our country, and the world.

The Government of Saskatchewan is committed to ensuring Saskatchewan remains a top global jurisdiction to invest and innovate. By maintaining the competitiveness and long-term sustainability of our traditional and emerging energy sectors, we will continue to build a stronger, more resilient Saskatchewan.

A handwritten signature in blue ink, appearing to read "Scott Moe".

**Scott Moe**

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## MESSAGE FROM THE SASKATCHEWAN MINISTER OF ENERGY AND RESOURCES

### JIM REITER



As Saskatchewan's Minister of Energy and Resources, I am happy to submit a message for the 2023 issue of the *Saskatchewan Energy Report*.

Our government is very proud of Saskatchewan's energy story. There have been a lot of exciting updates as we are entering a new era of energy that includes promoting diversification, while also growing our traditional sectors in the province. In a time when global energy security is a growing concern, the world is looking to Saskatchewan as an ethical and reliable source of the essential products they need.

The Government of Saskatchewan is working hard with industry in the energy space to incentivize investment. We have a number of initiatives that continue to support companies in their various projects. Our Oil Infrastructure Investment Program (OIIP), for example, offers transferable oil and gas royalty/freehold production tax credits, at a rate of 20 per cent of eligible costs, for qualified infrastructure projects that significantly increase provincial pipeline capacity. Last year, the OIIP was expanded to include pipelines transporting carbon dioxide (CO<sub>2</sub>), whether for carbon capture utilization and storage (CCUS) or enhanced oil recovery (EOR). Saskatchewan is a world leader in CCUS EOR, which produces approximately 82 per cent fewer emissions than traditional oil and gas extraction methods.

Recently, the Saskatchewan Ministry of Energy and Resources, Whitecap Resources, and Federated Co-operatives Limited (FCL) announced support for a foundation report study, developed by the Transition Accelerator and the Saskatchewan Research Council (SRC), to provide investors with a thorough analysis of commercial-scale hydrogen opportunities and synergies with carbon capture utilization and storage (CCUS) infrastructure in Saskatchewan. The hydrogen market

is expanding globally, with increasing use in power generation, transportation fuel, and feedstock in the chemical industry. 'Blue hydrogen' projects are enabled using CCUS technology.

There has also been an increased interest in critical minerals in Saskatchewan. Saskatchewan is truly poised to be a critical minerals powerhouse. We are already a significant producer of three – potash, uranium, and helium – and have near-term production potential for several others, including lithium, copper, and zinc. There are also strong prospects for longer-term production of nickel and rare earth elements (REE), such as lanthanum, neodymium, and gadolinium. Mineral production in Saskatchewan, especially lithium and uranium, will be essential to the future of low carbon energy development.

The Accelerated Site Closure Program continues to see success as it enters its final year. The Government of Saskatchewan recently announced an additional \$10 million available under the First Nations Stewardship Fund (Stewardship Fund) within the program. This new funding, which builds on the \$20 million already committed in January of 2021, will result in additional abandonment and reclamation activities at inactive oil and gas sites in First Nations communities. A related program, the Indigenous Business Credit Pool (Credit Pool), supports the participation of Indigenous oil and gas service companies in the ASCP. If fully subscribed, the Credit Pool will result in a \$30 million spend on eligible Indigenous oil and gas service companies.

Saskatchewan has the food, fuel, and fertilizer the world needs, and our industry is stepping up in a big way to meet growing global resource demand. The government of Saskatchewan thanks our oil and gas sector, as well as our emerging energy sectors for the incredible work they do. 



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## MESSAGE FROM THE MINISTER OF NATURAL RESOURCES CANADA

# JONATHAN WILKINSON



I was in Saskatchewan once again just a couple of weeks ago. It is always a pleasure for me to be back in the province in which I grew up. In fact, I went to elementary and high school in Saskatoon and did my undergraduate work at the U of S. After graduate school, I returned to work for several years as a policy advisor and a constitutional negotiator with former Saskatchewan Premier Roy Romanow.

Most recently I came to participate in the opening of a 10MW solar energy facility that has been in development, with federal government support, by the Cowessess First Nation. I also had very thoughtful and productive discussions with Ministers from the provincial government and with labour representatives.

Previously I have spent significant time with the Saskatchewan business community – very much including the energy sector.

In each of the various meetings I have had in Saskatchewan over the past several months, the core message I shared was the same – a view underpinned by my view that Canada is uniquely placed to take advantage of major areas of growth that will be driven by the transition the world is going through towards a lower carbon future.

Certainly, the brutal, illegal invasion of Ukraine by Russia

has created significant upheaval in energy markets and has brought to the fore issues around energy security. These are very important and need to be thoughtfully addressed by policy makers at all levels of government.

However, even before the events of this year, the global economy was changing, and changing rapidly.

Around the world, financial markets are increasingly pricing climate risk into investment decisions. Smart money is flowing away from assets that are not compatible with a transition to a net-zero world, and toward opportunities that are.

Just as any successful business must be capable of interpreting and reacting to changes in the business environment, countries must also be capable of thoughtful response and action to sustain and enhance their level of prosperity.

It is in this context that Canada can choose to be a leader in the global economic shift – or we can let it happen to us – with all the attendant consequences of being a late mover.

A key question on which we must collectively focus is how to build on Saskatchewan's comparative advantages in a manner

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that will create jobs, economic opportunity, and prosperity.

My job, as I see it, is to work with you to determine how to best utilize the abundance and variety of resources, technology, and experience that exist in communities and regions across Canada, and to pursue those opportunities that will drive significant job creation and economic growth.

Such opportunities will indeed be different in each province and territory – the major opportunities for example that are available to Saskatchewan will be quite different from those readily available to Nova Scotia.

Seizing these regional opportunities and developing place-based economic strategies is why we recently launched the Regional Energy and Resource Tables.

The goal of these tables – which are to be set up with each individual province and territory – is to align the resources of federal and provincial governments to pursue the most significant three to five areas of economic opportunity – opportunities which are enabled through the transition to a low carbon future.

These tables are intended to discuss important areas such as regulatory and permitting alignment. They are also intended

to facilitate discussions about growing and expanding the electricity grid.

The tables are intended to engage industry, labour, and Indigenous partners.

In Saskatchewan, key economic priorities for a table could include: the deployment of carbon capture technology, mining and processing of critical minerals, hydrogen, biofuels, small modular reactors, and more. These are on top of the enormous opportunities available to the vibrant Saskatchewan agricultural sector.

If one reflects thoughtfully on key economic and environmental trends, it seems clear that Saskatchewan is extremely well placed to take advantage of major areas of growth that will be driven by the transition to a lower carbon future.

What I think we need at this moment in our history is a thoughtful, collaborative, and ambitious economic strategy that will create wealth in every region in this country – while ensuring we achieve our ambitious climate and nature goals.

I am committed to working with all of you to build this more sustainable, affordable, and prosperous future. 

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# BRINGING RARE EARTHS CLOSER TO HOME

Saskatoon's new rare earth extraction facility is making waves in the mineral exploration industry.

According to David Connelly, vice-president of strategy and corporate affairs for Vital Metals and Cheetah Resources, the purpose of the facility is to process rare earth elements from Canada's first and only rare earth mine. The Nechalacho Rare Earth Mine was developed because its ore is amenable to very low-impact mining and had local support. From the Northwest Territories, the beneficiated ore is shipped by barge, rail, and truck to Saskatoon.

"In Saskatoon, we produce a cerium-reduced, mixed rare earth carbonate," Connelly explains. "Rare earths occur

together in a group of 17 elements, and there are two steps to separating them."

First, the process involves removing everything but the mixed rare earths. That is what Vital does in Saskatoon. The next step in the supply chain is performed by REEtec in Norway. It involves separating mixed earth carbonate into high-purity individual rare earths, most of which are sold to Germany for manufacturing electric vehicle motors. Norway's innovative separation technology and plentiful hydro power ensure a low carbon footprint.

As of 2022, commissioning has already started, and it is an 18-to-24-month process. Official unveiling of the plant

A ceremonial rare earth supply chain was linked together at the Saskatchewan Rare Earth Summit in Saskatoon September 20. Delegates from Norway, the USA, Australia and Germany joined with Indigenous, territorial and provincial leaders and corporate executives and Vital Metals' interim CEO, Russell Bradford, to mark the unveiling of the company's Saskatoon Rare Earth Metallurgical Facility.

PHOTO: VITAL METALS/BILLBRADENPHOTO.

took place in September, with the first product expected to be shipped to Norway before year-end. Vital expects to double the output of their Saskatoon facility within two years.

Currently, over 80 per cent of rare earths are either obtained or passed through China, so Canada and its friends and allies have decided it is important to develop its own supply chain.

"The supply chain that passes through Saskatchewan is the first and, to our knowledge, only rare earth supply chain that is independent of China and Russia, and that is quite a significant accomplishment," Connelly says.

Saskatchewan is emerging as a continental hub for rare earth



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Vital Metals hosted diplomats from 30 countries at its Saskatoon Rare Earth Metallurgical Processing Plant in early October. The Heads-of-Mission delegation learned about the importance of rare earths in today's digital and green energy economy, and how it may impact industry in their countries. The plant, now in the completion stages, will process rare earth concentrate from Vital's Nechalacho Mine in the NWT into a mixed rare earth carbonate for our friends and allies to separate into individual rare earths. PHOTO: VITAL METALS/STOBBE PHOTO.



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processing, research, and education. There is hardly a technological device people use that doesn't employ rare earths. In fact, about 80 per cent of rare earths make powerful magnets. EVs cannot exist without rare earth magnets. The generators and turbines; motors in high-energy efficiency air conditioners and elevators; magnets in MRIs; and mobile phones and speakers all contain a significant percentage of rare earths.

"Those are just a few examples of industries Saskatchewan could attract with the benefit of having rare earths that enable many of the technologies of a green economy," Connelly says. "Now, Saskatchewan is an alternative to China for industry to come to source rare earths."

For more information, visit [vitalmetals.com.au](http://vitalmetals.com.au) or [cheetahresources.com](http://cheetahresources.com). 



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# PTRC AGAIN AT THE FOCAL POINT OF CCUS AND GEOTHERMAL INITIATIVES

*History of excellence in CO<sub>2</sub> utilization and storage tapped by companies looking to take advantage of new federal investment tax credits*

*Aquistore has 13 surface monitoring super stations that have helped collect world-class datasets.*



*Both the Aquistore and the Weyburn oil field in relation to CO<sub>2</sub> supplied from SaskPower's Boundary Dam. PTRC has been involved in research at both locations.*

What a difference a year makes. With the Government of Canada announcing in its April 2022 budget direct tax credits on capital expenditures for companies thinking of capturing, transporting, and storing CO<sub>2</sub> from large set point sources, carbon capture, utilization, and storage (CCUS) is again a growing concern in Canada. Add new incentives in the United States that saw direct tax breaks for deep saline geological storage rising from \$50 to \$85 dollars per tonne, and CCUS has suddenly become economically viable.

*"For a while there, CCUS seemed to be less and less likely to occur at scale," noted Erik Nickel, the director of operations at the Petroleum Technology Research Centre (PTRC). "But I think the realization has set in, with governments needing industries to reduce emissions quickly, that the logical strategy for doing so involves CO<sub>2</sub> capture and storage."*

*Cross-well seismic surveys at Aquistore use downhole geophones and generate data of interest to new CCUS projects globally.*

The Canadian tax credits on capital expenditures are incentivized to encourage construction of capture and storage facilities quickly, with credits being at their highest between 2022 and 2030. Companies that delay capture from their large set point sources until the 2031 to 2040 period will see the tax incentives drop by half.

"The Government of Canada really wants to see impacts from CCUS quickly," notes Ran Narayanasamy, the CEO of the PTRC. "As a result, PTRC has found itself at the focal point of consultations and planning for different projects and clients."

Neither Narayanasamy nor Nickel is able to discuss – owing to confidentiality agreements – some of the companies that have already sought PTRC's input. However, the PTRC's ongoing experience with measurement, monitoring, and verification (MMV) technologies at its Aquistore CO<sub>2</sub> deep saline storage site is a large draw for projects in Saskatchewan – and increasingly for the hub locations in Alberta – who need to submit MMV plans as part of their operations. Over 500 Kt of CO<sub>2</sub> is currently sequestered 3.2 kilometres underground at Aquistore.

"Aquistore and the Science and Engineering Research Committee that developed the MMV program for the project are much in demand," notes Nickel. "And we've also discovered PTRC's extensive knowledge of the subsurface in Saskatchewan carries other potential projects for us."

## **GEOOTHERMAL DEVELOPMENTS**

The PTRC has recently developed, in consultations with two municipalities, feasibility studies looking at the potential for geothermal heating in city buildings (both residential and



commercial spaces). With most municipalities looking to hit "net-zero" targets by 2040 or sooner, geothermal heating has become an attractive possible means of doing so.

"We've developed two geothermal scoping studies – one in cooperation with Estevan and the surrounding municipalities in the Southeast Saskatchewan Economic Partnership, to identify the best potential sources in the subsurface for geothermal heating," says Nickel.

A year ago, PTRC funded an additional project for the University of Regina to look at integrating geothermal, solar, and other heating/power sources for a company called Evolution Growers – a First Nations start-up with plans to build greenhouses in the Estevan area. These scoping studies may help move that more focused research along.

The projects are the first steps in more extensive Front End Engineering and Design (FEED) studies that may arise once the sources and economic feasibility of the sources are examined. Early days, yes, but PTRC continues to find innovative ways to help Saskatchewan reduce emissions and move the economy forward. 



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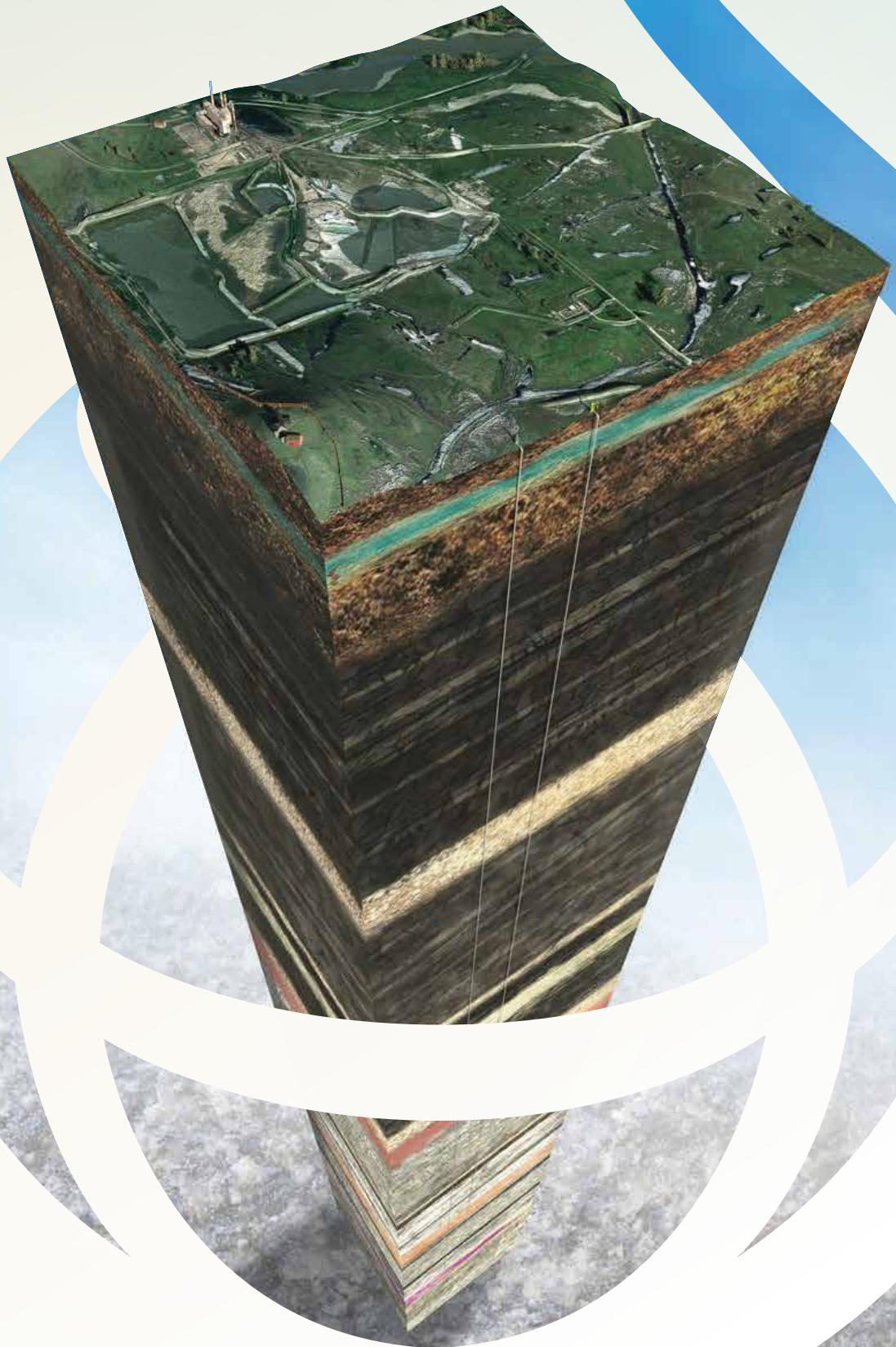
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# SASKENERGY WINS BIG FOR ENVIRONMENTAL SUSTAINABILITY INNOVATIONS

*The team who won for Operating Practices for their work on the Environmental Screening Tool. From left to right: Travis Schaeffer, Tara Sample, Daniel Dietrich and Daniel Carr.*

It was an exciting night for SaskEnergy at the inaugural Canadian Gas Association (CGA) Energy Nexus event and awards ceremony earlier this year. The company—Saskatchewan’s government-owned natural gas distribution utility—had plenty to celebrate after taking home three national awards for environmental innovation.

SaskEnergy’s commitment to reducing carbon emissions was the star of the evening, earning two awards at the Vancouver event. The company was also recognized for its outstanding operating practices.

“I’m thrilled that SaskEnergy’s commitment to innovative, environmentally sustainable operating practices and to reducing emissions through innovation garnered national recognition from the CGA,” said Mark Guillet, SaskEnergy’s acting president. “These three awards are a testament to the hard work and dedication demonstrated by all SaskEnergy employees.”

Starting the night off right, SaskEnergy’s environmental screening tool was the first to win an award. The web-based geographic system was launched in 2020. This innovative technology allows the company to analyze new gas-line projects and prescreen for potential environmental, heritage, and geohazard impacts. The custom-built tool has already screened nearly 6,000 projects, ranging from major gasification projects to smaller maintenance projects. By adding this impressive software to SaskEnergy’s screening process the company can continue to exceed customer service delivery time targets.

The company’s second win of the night came in the Innovations in Emissions Reduction category. SaskEnergy scored the award for employing cutting-edge technology that captures vented natural gas from the company’s transmission compressors. The captured gas is then redirected into the compressor engines as a supplemental fuel. This groundbreaking technology could save up to 10 per cent in fuel when installed on larger compressors.

Rounding out the night’s wins, SaskEnergy was recognized for



its dedication to helping its customers reduce their impacts on the environment.

The company took home the award for providing rebates for those looking to upgrade their old natural gas equipment to new high-efficiency models. The program began in 2019 with rebates for furnaces but has since expanded to include boilers, combi-boilers, heat recovery ventilators, and water heaters.

Since 2019/20, SaskEnergy has invested an impressive \$7.5 million in residential and commercial rebates. These programs help homeowners and businesses save money and energy while reducing emissions. As a result of the expanded rebate programs, customer emissions savings in 2020/21 were five times higher than those in 2018/19.

The trio of awards is a source of pride at SaskEnergy, which places sustainability at the centre of its corporate identity, all while maintaining one of North America’s most safe, reliable and affordable energy delivery systems. This commitment powers the company’s initiative to reduce operating emissions by 35 per cent by 2030.

“SaskEnergy plays a pivotal role in reducing greenhouse gas emissions while providing critical energy to Saskatchewan residents, businesses, and industry,” said Guillet. “Moving forward, we will continue to help our customers become more efficient in their use of natural gas while focusing on innovation and sound environmental practices to reduce emissions from our own operations.”

This is not the first time the CGA has honoured SaskEnergy. The association has awarded the company the Michael Mulcahy Award for Excellence and Innovation in Customer Care and Service for the past three years. That award acknowledges significant achievements in innovation and service to natural gas users and customers. 



## Saskatchewan Petroleum Innovation Incentive

The Saskatchewan Petroleum Innovation Incentive (SPII) offers transferable oil and gas Crown royalties and freehold production tax credits for qualified innovation commercialization projects at a rate of 25 per cent of eligible program costs.

The program targets a broad range of innovations deployed across all segments of Saskatchewan's oil, gas, helium, or lithium industries.

Saskatchewan offers competitive incentives to help your next project succeed.

# U OF R TO LAUNCH NEW ENERGY SYSTEMS ENGINEERING PROGRAM IN FALL 2023

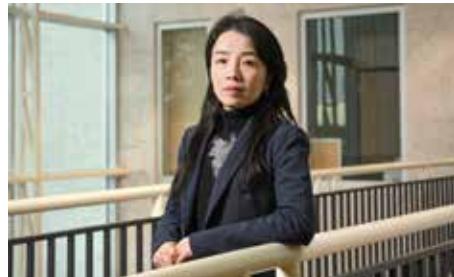
*Students can choose to study Petroleum Engineering, Sustainable Energy Engineering, or Energy Transportation and Storage*

Starting in the fall of 2023, students will have the option of applying and enrolling into the newly created Energy Systems Engineering Program (ERSE) in the Faculty of Engineering and Applied Science. This dynamic and innovative program gives students the choice of three different areas of study: Petroleum Engineering, Sustainable Energy Engineering, and Energy Transportation and Storage.

"The energy landscape in not only this province, but nationally and even globally, is rapidly changing and as a faculty we need to be proactive in our programming to ensure our students have the skills and training they need to be successful in this increasingly demanding field," said Dr. Phillip Choi, Dean of the Faculty of Engineering and Applied Science. "No university in Canada offers an energy-related curriculum as comprehensive as the Energy Systems Engineering program."

The ERSE program will offer a Bachelor of Applied Science in Energy Systems Engineering degree in the student's choice of program. Undergraduate admission to the current Petroleum Systems Engineering (PSE) program is suspended, but current PSE students will be able to continue in the program through to graduation. The PSE Program at the graduate level will remain available to Faculty of Engineering and Applied Science. In the 2023 fall semester, admission to the Energy Systems Engineering program will be open to second-year undergraduate students.

"We are very excited and proud to take the lead in educating a new shape of engineers who will contribute to the energy industry's seamless transition into a new era of renewable resources," said Dr. Na (Jenna) Jia, Petroleum Systems Engineering program chair. "Our graduates will play a significant role in achieving net-zero emissions while eliminating the energy gap in the path of reducing the



*Jenna Jia,  
program chair.*

PHOTO CREDIT:  
TREVOR HOPKINS,  
U OF R PHOTOGRAPHY.

traditional use of fossil fuels. The new program helps our students respond quickly and flexibly to the fluctuating energy industry with a comprehensive understanding of the energy resources that energy companies will demand."

Students pursuing the Petroleum Engineering option will learn about the responsible extraction of underground oil and gas presently dominating the energy sector. Students in the Sustainable Energy Engineering option will be introduced to the technologies that support climate action through the development of renewable energy resources, such as solar, wind, geothermal, hydro, and nuclear energy. The Energy Transportation and Storage option will help students develop knowledge in energy distribution, conversion, as well as the storage systems essential for sustaining the increasing energy demands. All three options will produce career-ready grads prepared to take on the transition into the future market of energy.

"I congratulate the U of R for this bold and forward-thinking decision – one which still acknowledges the importance of oil and gas in the energy mix of the future, but offers a transformative view of energy for students, one based on economic need and climate change mitigation that requires sustainable energy," said Ranjith (Ran) Narayanasamy (MENG'05 and MBA'11), president and CEO of the Petroleum Technology Research Centre. "This program and its students will help shape the energy economy of Saskatchewan."

The U of R is committed to climate action through education and research initiatives, as well as ecological and economic sustainability through responsible stewardship of the land and resources. Through the implementation of the Energy Systems Engineering Program, students are poised to become leaders in creating a better tomorrow for future generations. 



# ENERGY SYSTEMS ENGINEERING



Our Energy Systems Engineering (ERSE) program offers you a one-of-a-kind opportunity to study a comprehensive energy-related curriculum that is the first of its kind. Other programs under the title "Energy" mainly focus on sustainable energy engineering with limited additions of energy storage courses – the ERSE program offers the Petroleum Engineering, Sustainable Energy Engineering, and Energy Transportation and Storage options simultaneously.

The **multidisciplinary curricula will allow you the flexibility of switching among the three options or graduate with the skills in more than one discipline** required in the energy industry.

## PROGRAMS

- Bachelor of Applied Science in Energy Systems Engineering
- Bachelor of Applied Science (Co-op) in Energy Systems Engineering
- Bachelor of Applied Science (Internship) in Energy Systems Engineering

## POTENTIAL CAREERS

### Petroleum Engineering:

Well Logging Engineer  
Petrophysicist

Production Engineer

### Sustainable Energy Engineering:

Energy Engineer

Field Service Engineer

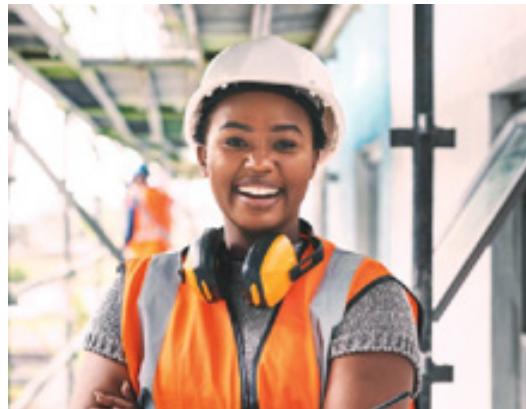
Renewable Energy Project Engineer

### Energy Transport and Storage:

Pipeline Engineer

Refining Engineer

Process Engineer



## SYSTEMS APPROACH

Our Systems Engineering approach combines classes in areas such as business, economic, social, environmental, and professional awareness and focuses on the range of skills you need to be a professional engineer in the modern world. Combining the human elements of engineering with the technical side prepares you to work in the broader context of multi-disciplinary, team design approach.



## LEARN BY DOING!

The ERSE program offers hands-on learning with real-world experience. Plus, you'll have access to hands-on laboratories and the opportunity to make close connections with dedicated instructors.

### CO-OPERATIVE EDUCATION AND INTERNSHIPS

Earn while you learn! As an ERSE student, Co-op work placements allow you to earn between \$8,000 and \$13,000 per semester while gaining valuable real-world experience. Plus, after completing the required number of work terms, your degree will have a co-op designation.

### HANDS-ON LABS

- Crescent Point Petroleum Lab
- Future Sustainable Energy Lab

### RESEARCH AREAS

During your studies, you'll have the opportunity to participate in cutting-edge research.

### WHAT IS THE DIFFERENCE BETWEEN THE THREE STREAMS OF ERSE?

The Petroleum Engineering option focuses on exploiting oil and gas resources.

The Sustainable Energy Engineering option focuses on developing and enhancing the required clean energy technology.

The Energy Transportation and Storage option focuses on knowledge and skills of safe, clean, and energy-efficient transportation and storage.

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# BUILDING THE RARE EARTH ELEMENT SUPPLY CHAIN: CHALLENGES AND OPPORTUNITIES

PHOTOS COURTESY OF SRC.

By **Rebecca Gotto, Manager, Government Relations, SRC & Dr. Muhammad Imran, Vice-President, Rare Earth Elements, SRC**

The rare earth element (REE) market has experienced impressive and unprecedented growth over the past couple years, and it is expected to continue that growth in the coming few years. There are many reasons for this growth including a move toward electric vehicle adoption, net-zero goals at both domestic and international levels, and a secured supply of REE's that is no longer dependent on foreign sources.

The Saskatchewan Research Council (SRC) hopes to be a contributing factor in this continued industry growth as it builds its rare earth processing facility and REE hub. But with growth in any sector, particularly a relatively new sector, there are both challenges and opportunities. For the REE industry, the key to success will come from the development and security of its own independent supply chains

which include mining, beneficiation, hydrometallurgy, separation, metal alloys, magnets, original equipment manufacturers (OEM), and finally, end use.

However, the development of new supply chains does not come easy. One real challenge that is being observed worldwide is the speed at which upstream operations can get up and running to the point where the beginning of a supply chain can develop. These types of exploration projects typically require both time and significant financial backing in order to get to production.

Currently, the biggest risk for the REE industry is market sustainability – will prices continue to trend up, will they level out, or will they drop? What is evident is that the swift development of transparent and secure supply chains will lead to more certainty and



less volatility for the RE industry going forward.

While there are many challenges to building a new supply chain, it also presents many opportunities. This starts with the demand. The annual demand for rare-earth metals is projected to at least double by 2030, creating both enormous pressure and opportunity for global production. In order to meet this demand, international collaboration will be required – something we are already seeing on many levels already.

Scaling up and commercializing new technologies can often be a challenge, however, research and development (R&D) is actually well-positioned to address long-term solutions to the REE supply chain. SRC is especially experienced to help validate and demonstrate new technologies in its research laboratories and pilot-scale facilities – led by some of the world's leading experts in REE processing and separation technologies.

Finally, the vulnerabilities in the REE supply chain can be addressed through a variety of mechanisms including a focus on exploration, production, alternatives, recycling, reprocessing, industry incentives, international collaboration, and R&D investment. All of these areas create opportunities and, in the end, will help reduce the dependence on foreign sources, encourage technological innovation, support job creation, and, most importantly, will foster a strong and vibrant REE industry for years to come.

In Canada, SRC's facility is playing a leading role in addressing some of the issues in the supply chain, providing rare earth producers with a potential route to market and completing the important mid-stream piece of the supply chain by completing concentration and separation at the early stage of project development – a

previous place of bottleneck for industry within the supply chain. As a first-of-its-kind in North America, the facility will lay the foundation for an REE supply chain in Saskatchewan and form an industry model for future REE resource expansion in the province.

SRC's facility is currently being completed in two phases. The first, which includes a Monazite Processing

Unit, will process the ore and produce mixed rare earth, and be operational in early 2023. The second phase, which includes a Separation Unit and a Metals Unit that will produce rare earth metals, a key ingredient used to manufacture permanent magnets. These will be operational in early 2024.

For more information, go to [www.src.sk.ca/ree](http://www.src.sk.ca/ree). 



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# MESSAGE FROM THE EXPLORERS AND PRODUCERS ASSOCIATION OF CANADA (EPAC)

By Tristan Goodman, President and CEO, the Explorers and Producers Association of Canada

EPAC represents over 80 upstream oil and natural gas producers from start-ups to multi-billion-dollar public companies. EPAC members have their head offices in Canada and produce about 40 per cent of all hydrocarbons in the country. On an annual basis, our members directly support over 45,000 jobs and over \$40 billion in capital and operational spending. These companies are the engine of the industry and invest billions of dollars each year developing new energy reserves while providing the North American market with secure, reliable, and responsibly produced energy sources.

As we enter 2023, a renaissance in our Canadian energy sector is starting to take shape – the future will be cleaner and look different than in the past, but it will also include many old friends. This renaissance represents a massive opportunity: our producers can supply the responsible, clean, and secure energy the world needs while also helping Canada achieve its climate goals, its Indigenous reconciliation goals, and respond to inflation and affordability concerns for Canadians.

EPAC member companies are delivering real emissions reductions and are producing more with less GHG emissions than just a few years ago. Our members

have collectively invested hundreds of millions of dollars in abatement technologies, including the deployment of three of the four large-scale CCUS projects in Canada. Others are actively investing in clean tech ventures, including potential future hydrogen development and methane reductions. All of these are being accomplished with an unprecedented level of engagement and participation of Indigenous communities who see huge economic opportunities associated with responsible resource development.

While many in our sector are delivering strong business performance and emissions reductions, the world has entered a period of energy crisis. To ensure the sector can continue to produce needed energy for home and abroad, while continuing to lower emissions, we need increased competitiveness in government policy and balanced, realistic policy discussions – because investors consider this as they determine whether they should bring their business to Canada or move it to other countries (like the United States whose recent Inflation Reduction Act has tilted the balance in favour of U.S.-based clean technology investment).

It is important for all Canadians to understand that to improve energy

security and affordability, mitigate inflation, and continue reducing emissions – investment in our sector must occur. For this to happen, international investors need to stop seeing Canada as an environment where projects take too long to get approved and built and where regulatory goalposts are uncertain.

Energy security, inflation, and affordability challenges are likely to remain for the foreseeable future. So too are the challenges around the implementation of climate policy and the continuation of the long journey toward Indigenous reconciliation.

The good news is that if we can improve Canada's competitiveness for investment, our energy sector is well positioned to help Canada navigate these challenges. EPAC member companies will continue emissions reductions while generating the good paying jobs, government revenues, and economic contributions to help Canada's economy weather storms – like we have in the past, only cleaner.

In summary: A Canadian energy renaissance is poised to occur in a manner that all Canadians can support. There is enormous opportunity ahead as the world increasingly recognizes Canadian energy production can be a solution to climate challenges and energy security – the key to realizing this opportunity is making Canada the most competitive jurisdiction for investment. 

The good news is that if we can improve Canada's competitiveness for investment, our energy sector is well positioned to help Canada navigate these challenges.



## HISTORY

The Explorers and Producers Association of Canada (EPAC) was founded in 1986 as the Small Explorers and Producers Association of Canada. Today EPAC is the voice of Canada's conventional energy producers and advocates on behalf of its entrepreneurial members for sound government policy that promotes a thriving energy sector. The association represents over 139 member oil and gas companies ranging from start-ups to juniors and large producers operating in Canada. EPAC's focus is on non-oil sands and gas development. These companies are the engine of the industry as members invest billions of dollars each year developing new energy reserves while providing the North American market with a secure reliable energy source. EPAC members produce 35% of Canada's natural gas and 30% of Canada's conventional oil. EPAC members manage over \$150 billion in assets. EPAC's core Producer Members are supported by a strong contingent of Associate Member companies supplying technology products and services to the upstream oil and gas industry.

## MISSION

**Advocate** to governments policy makers and regulators to ensure that the interests of our members are reflected in a fiscal and regulatory framework that encourages investment and supports a prosperous oil and gas industry

**Communicate** essential industry news events and information to our members and communicate our Association's views on oil and gas issues to the public community leaders and the news media; and

**Educate** Canadians about the important contribution of our member companies to ensure Canada's present and future energy needs are met while creating jobs and opportunities in the communities where our members operate.



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[www.explorersandproducers.ca](http://www.explorersandproducers.ca)

# NYC BILLBOARDS TO FEATURE MESSAGE ABOUT IMPORTANCE OF CANADA'S ENERGY TO RECONCILIATION

*Partnerships with Canada's energy sector offer an incredible opportunity to pull our next generation out of poverty*

By CEC staff



A Canadian Indigenous leader lent his voice to a Manhattan billboard campaign this past September, hoping it will bring global understanding that the country's energy industry is playing an important role in bettering the standard of living of many First Nations people in Canada.

"Partnerships with Canada's energy sector offer an incredible opportunity to pull our next generation out of poverty," said Dale Swampy, president of the National Coalition of Chiefs. "These partnerships advance the path of Reconciliation."

Swampy, whose organization represents about 80 First Nations communities across Canada, hopes his message during New York's Climate Week – one of the largest environment-focused events in the world – helps shine a light on the strong relationship many Indigenous communities have with Canada's oil and gas and clean tech industries, and the role economic and environmental partnerships have in the pursuit of Reconciliation.

"It's important people also understand that the oil and gas industry is taking

*The Canadian Energy Centre ran a \$65,000 campaign in New York's Times Square this past September to promote Indigenous partnerships with oil and gas to advance the path of Reconciliation.*

its commitment to tackle climate change seriously and that the inherent relationship our people have with the environment is helping projects to be developed more responsibly," said Swampy.

Canada ranks number one among the world's top oil reserve holders in all three areas of ESG – environmental protection, social progress, and governance – according to international third-party assessments, and oil and gas employs more Indigenous people than any other industry in the country.

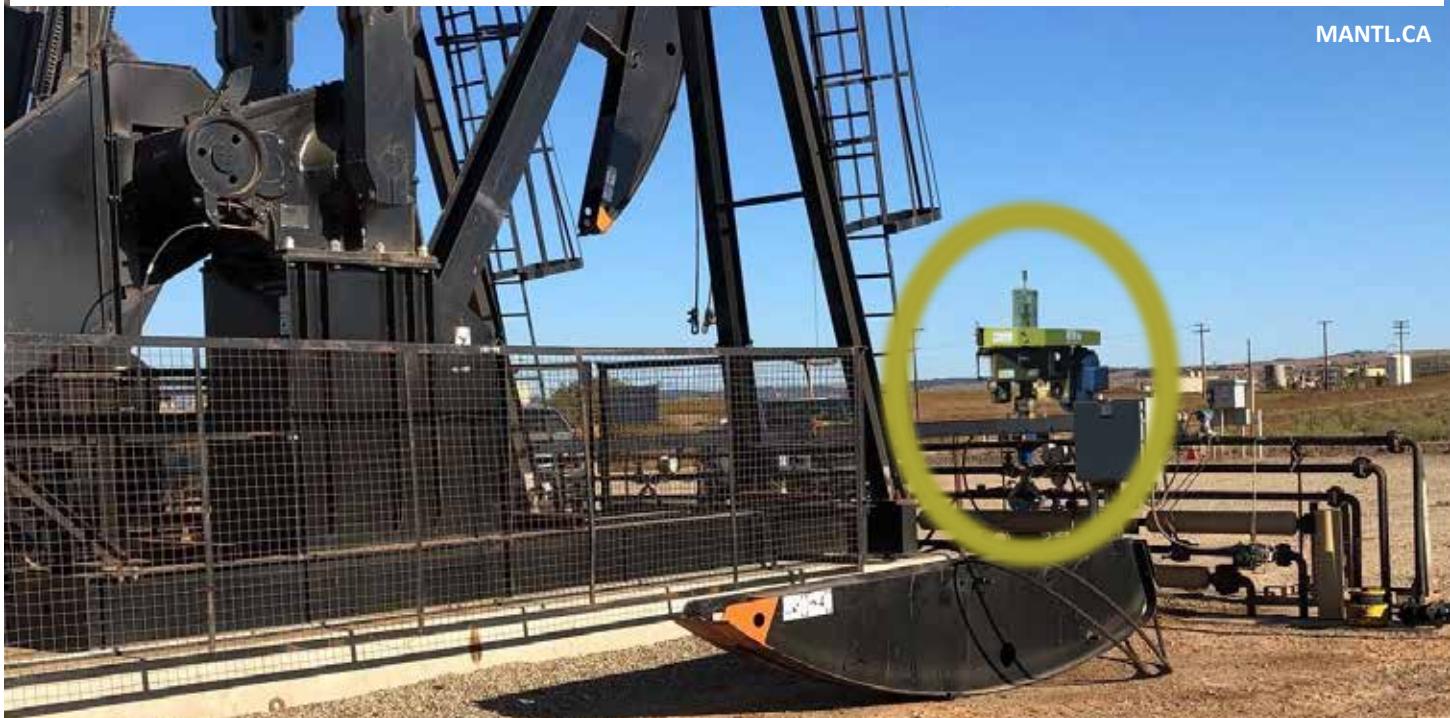
In fact, overall Indigenous representation in the oil and gas sector was more than six per cent in 2019, according to Statistics Canada. For comparison, Indigenous peoples make up about 3.3 per cent of Canada's total workforce.

More and more First Nations communities and businesses are entering into equity partnerships and mutual benefit agreements on major

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**"Yet unfortunately there are some coordinated groups who are preying on the desperation of some of our people to turn world opinion against Canada's oil and gas industry," said Swampy.**

pipeline and energy infrastructure projects. And Canada's oil sands producers have spent \$15 billion with Indigenous businesses since 2012, reaching a record \$2.4 billion in 2019, according to the Canadian Association of Petroleum Producers.

"Yet unfortunately there are some coordinated groups who are preying on the desperation of some of our people to turn world opinion against Canada's oil and gas industry," said Swampy, a member of the Samson Cree Nation.

As a result, Indigenous communities lost out as governments have in the past bowed to extremist pressure and denied projects such as the Keystone XL and Northern Gateway pipelines, which would have brought hundreds of millions of dollars of economic growth to communities, he said.

The \$65,000 campaign, sponsored by the Canadian Energy Centre (CEC), features Swampy and the simple message "Indigenous partnerships with oil and gas advance the path of Reconciliation."

The campaign ran September 20 to 25 on three large outdoor electronic billboards in high traffic New York locations at Times Center, targeting Climate Week speakers, delegates, and media.

CEC president and CEO Tom Olsen said Swampy has been an integral voice for Canadian First Nations involvement in beneficial equity partnerships.

"Dale has been a courageous voice for many years now on the important role

First Nations leaders, businesses, and monitors can play in supporting stronger and more sustainable projects," said Olsen.

"It's time the world gained that understanding too."

#### **QUICK FACTS:**

- The oil and gas and mining sectors represent eight of the top 10 highest-paying occupations for Indigenous peoples for Canada, according to a report by the Macdonald Laurier Institute.
- Indigenous women earned three to four times more in wages from occupations in oil and gas than from median wages across all industries, according to the same report. In fact, oil and gas related occupations represent the top six highest-paying occupations for Indigenous women in Canada, with pipeline transportation the highest.
- The Trans Mountain Expansion Project from Alberta to the British Columbia coast has signed mutual benefit agreements with 69 First Nations valued at over \$600 million.
- The project has spent more than \$3.2 billion with Indigenous-owned businesses (\$1.3 billion in 2021 alone) and employed more than 2,100 Indigenous workers.
- Indigenous groups are seeking an ownership stake in Trans Mountain when the expansion is completed.
- Also in B.C., all 20 elected First Nations along the Coastal GasLink pipeline have signed project agreements. And 16

B.C. Indigenous communities signed an historic agreement to become equity owners in the Coastal GasLink pipeline, once it's up and running.

- Together the LNG Canada project and Coastal GasLink have spent more than \$5.1 billion with Indigenous and local businesses.
- The Haisla Nation on B.C.'s north coast is approximately 50 per cent owner of Cedar LNG, a proposed \$2.4-billion floating export terminal that if built will be the largest First Nations-owned infrastructure project in Canada.
- Ksi Lisims LNG is a \$10-billion proposed new Canadian natural gas export project near the Alaska border on the B.C. north coast owned jointly by the Nisga'a Nation, Rockies LNG and Western LNG.
- The B.C.-based First Nations Major Projects Coalition and Miawpukek First Nation on Canada's East Coast are working together on the first-ever Indigenous equity participation in an Atlantic offshore project, called LNG Newfoundland and Labrador.
- Canada receives No. 1 rankings in all three areas of environmental protection, social progress and governance among the world's top oil reserve holders, according to assessments of reputable third-party performance indexes including the Yale Environmental Performance Index, Social Progress Imperative Index, and World Bank Worldwide Governance Indicators.

More examples of equity partnerships with First Nations communities can be found at the campaign website at [responsiblecanadianenergy.com](http://responsiblecanadianenergy.com).

*Republished with permission from the Canadian Energy Centre.* 

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# WHY NOT WEYBURN?



With a four per cent growth increase in the 2021 Census, Weyburn is proving to be one of the fastest growing communities in Saskatchewan and is recognized as one of the more desirable places to live and work. Weyburn is a dynamic community with a long history of dedication to providing an exceptional quality of life for residents. Weyburn's economic fundamentals such as population growth, median age, employment growth, high income rates, and a strong housing market have all contributed to the ideal investment conditions currently existing in the area.

Weyburn is ideally located in the heart of Southeast Saskatchewan and is situated at the crossroads of a few key highways, including Highway 13, 39, and 35. Highway 13 provides interprovincial trading, while Highways 39 and 35 provide access to international borders. The main route along Highway 39 provides access to the 24-hour Canada/USA border crossing at North Portal. While roads are a solid infrastructure in our area, Weyburn is served by the CP

Railway that connects Western Canada's main rail lines at Moose Jaw with the American rail centres in Minneapolis and Chicago. Weyburn Municipal Airport, located in the Rural Municipality (RM) of Weyburn, averages about 96 flights per month, including RCMP, air ambulance, crop spraying, commercial chargers, and recreational flying. Weyburn is only one hour from the international airport in the city of Regina.

Weyburn's commercial property tax is among the top-five lowest rates among Saskatchewan, while the residential municipal property tax is the second lowest in the province. The City of Weyburn offers a Commercial Incentive Program to promote a strong local economy and support the expansion of businesses to create more employment opportunities. And the RM of Weyburn offers a Commercial/Industrial Bare Land Tax Exemption for up to a maximum of five consecutive years.

Weyburn is a leader in fiscal responsibility and is in a position to effectively manage the infrastructure

and service demands of growth without interruption to the pace of the development. The two municipalities, the City of Weyburn and the RM of Weyburn, have taken a proactive approach to planning and development with the establishment of the Weyburn District Planning Commission in 2010. This is a model of excellence for inter-municipal cooperation and planning, ensuring that there is a clear dedication from all stakeholders to removing any barriers to growth and development in the region.

The capital investment of the Credit Union Spark Centre, a multi-purpose sports, culture, and recreation facility, can offer residents a quality of life, while the announcement of a new hospital will bring more growth and development to Weyburn. With a diverse collection of key industry and corporate headquarters, including Whitecap Resources, Viterra, and Nexans Canada, Weyburn is truly the opportunity city.

With numerous advantages of demographics, location, resources, and initiatives, investors should be asking themselves, "Why not Weyburn?". The Weyburn Regional Economic Development office, located at 113rd Street in Weyburn, Sask. is able to facilitate economic growth by identifying needs, coordinating resources, and developing partnerships. Contact our office for more information at 306-842-4738. 

This is a model of excellence for inter-municipal cooperation and planning, ensuring that there is a clear dedication from all stakeholders to removing any barriers to growth and development in the region.



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  - Equipment Installations
  - Demolition

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  - Structural Pipe Racks
  - Stairways & Landings
  - Safety Ladders
  - Platforms
  - Stiles
- Equipment Bases
- Torqueing
- Blasting & Painting
- Demolition

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  - Concrete Piling
- Grouting (Cementitious and Epoxy)
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# WE ARE SUSTAINABLE

By Eric Anderson, Executive Director, Saskatchewan Industrial and Mining Suppliers Association (SIMSA)



We've heard a lot of statements like, "Saskatchewan has the most sustainable mining and energy sectors".

But what does sustainable mean and is this true?

Well, first of all, sustainability includes protecting the environment and a lot more. A sustainable business is one that also has societal and economic goals, in addition to environmental goals.

It is a business strategy that balances long-term growth and profit, with the protection of and caring about people and the planet.

For example, Cameco, in addition to being safe and profitable, is the largest industrial employer of Indigenous persons in Canada.

And Nutrien, in addition to producing the lowest carbon footprint potash on Earth, also does 80 per cent of its purchasing from local suppliers.

Recently, the data has been rolling out on our environmental portion. As an example, if all oil-producing countries in the world adopted environmental regulations similar to Saskatchewan's, greenhouse gas emissions from oil production would be cut by almost a quarter.

Saskatchewan's potash mines produce half the emissions per tonne of potash as competing jurisdictions – yes half of the emissions. But, we achieve well over 30 per cent of global potash production. So, that makes us the world's largest and greenest potash producer. That's sustainability.

12.8 million tonnes is how many tonnes of carbon Saskatchewan farmers sequestered in their land in 2020 due to zero-till practices. That's about the same as taking 2.78 million cars off the road for a year. So, they fed the world while actually reducing carbon.

Further, to match the number of tonnes of CO<sub>2</sub> captured at SaskPower's Boundary Dam 3 power plant, you'd have to plant more than 69 million trees and let them grow for 10 years.

We've seen a 60 per cent reduction in our methane emissions in 2021 (from 2015 levels) from vented and flared gas at upstream oil facilities in Saskatchewan – that's roughly 6.5 million

tonnes of CO<sub>2</sub>. You'd have to plant more than 97 million trees and let them grow for 10 years to get those kinds of results.

Saskatchewan's nuclear energy potential could fulfill 170 per cent of all of Canada's total annual electricity demands. That's all from clean nuclear power.

To learn more about this and other benefits from our resource sector, check out [www.prosperitysaskatchewan.ca](http://www.prosperitysaskatchewan.ca). That's the website to a daily radio commentary on Saskatchewan's mining, energy, and industrial sectors, as well as its economy. The items are researched, written, and voiced by myself, Eric Anderson.

A sustainable company will balance purpose with profit – and balance the needs of employees, customers, and society with the needs of shareholders.

It will balance the needs of the environment, with people and profits.

That's what Saskatchewan does. 

**That's about the same as taking 2.78 million cars off the road for a year. So, they fed the world while actually reducing carbon.**

# Value That Runs Deep

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# WORKERS' COMPENSATION: MANAGING AND MITIGATING ENERGY SECTOR CLAIMS COSTS IN SASKATCHEWAN

By Rebecca Ingram

You might think that the oil and gas industry would be high on the list of the most dangerous occupations in Canada, but in fact, according to Avetta's research (which used statistics from 2017 to 2019), the energy sector actually comes in 10th on the list. While this might seem like good news – and speaks to the industry's adherence to safety principles – the reality is that work-related accidents and incidents still happen, and the associated costs of workers' compensation claims are a significant concern for employers.

For most employers, work-related injuries and illnesses are a harsh reality of doing business, and not just because of the lost productivity that is involved, but for financial reasons as well. Disruption of operations is one ramification of an on-the-job accident or incident, but the cost of every

Workers' Compensation Board (WCB) claim can also have a negative effect on a company's WCB premium rate.

Workers' compensation premiums are an unavoidable operational expense that can contribute to financial hardship for a company, or exacerbate an already precarious financial situation. However, there are steps employers can take to minimize the impact WCB premiums may have on their bottom line. One of the most effective ways to lower WCB premiums and keep them that way is by managing claims costs.

The key to managing claims costs starts long before a work-related injury ever happens, and continues long after a claim is closed. Claim costs begin accumulating the moment an accident or incident occurs, so time is of the essence, and delays can be very costly.

Whether those delays are in reporting the incident, seeking medical attention, referrals for medical treatment, implementing return-to-work plans, or addressing workplace hazards, organizations need to be prepared to take action.

Keeping all these balls in the air may seem overwhelming but this is where utilizing an effective employer representative can be invaluable.

Since 1988, BCL Consulting Group Inc. has been working with employers to minimize WCB and disability costs associated with work-related, personal injury and illness claims. We have assisted well over 3,000 organizations, which is why we are currently the leader in this field in Western Canada. In addition to being dedicated to cost control, we are committed to keeping

Since 1988, BCL Consulting Group Inc. has been working with employers to minimize WCB and disability costs associated with work-related, personal injury and illness claims.

The BCL team will work with your organization and employees to identify and solve problems to mitigate claims costs affecting your future assessments.

abreast of any new developments, trends, articles, and projections that might have a significant effect on how businesses operate.

Our dedicated team consists of injury and disability consultants, with backgrounds in WCB, physiotherapy, nursing, safety, law, and more.

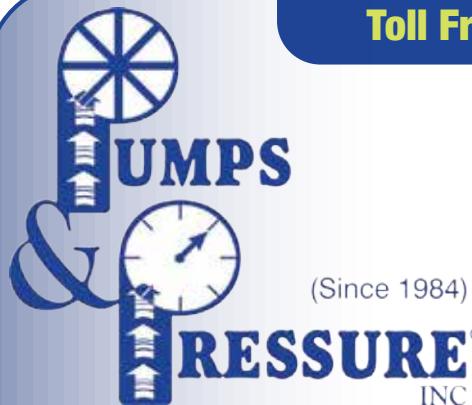
The BCL team will work with your organization and employees to identify and solve problems to mitigate claims costs affecting your future assessments. We will also provide you with the tools and expertise to avoid risks and unnecessary costs related to disability. When an accident does occur, it is an indication there is an internal problem that requires attention. Similarly, when an employee is frequently ill and absent from work, it is a sign that intervention is required. Though illness cannot always be prevented, multiple cases of the same illness or condition often require intervention. Many organizations do not consider these aspects of absence management.

BCL will also review your history of claims for possible cost relief/premium savings to potentially improve the position of your account. We provide this service on a contingency basis, meaning absolutely no cost to your organization, unless and until we are successful in realizing premium savings.

Put the BCL team to work for you today! For more information, please visit our website at [bclconsulting.ca](http://bclconsulting.ca) can contact us directly at [BCL.Calgary@bclconsulting.ca](mailto:BCL.Calgary@bclconsulting.ca), [BCL.Edmonton@bclconsulting.ca](mailto:BCL.Edmonton@bclconsulting.ca), by phone at 1(844) 377-9545, or you can connect with us on Facebook, Twitter, or LinkedIn. 



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# TALENT STRATEGIES TO DRIVE BUSINESS AND OPERATIONAL SUCCESS

*Agents of Change  
national conference.*  
PHOTO CREDIT: PETER POWER.

How do we manage the valuable institutional knowledge that is heading out the door and invite youth and diverse talent in?

As Saskatchewan's electricity system transitions to a sustainable energy future, the critical common denominator linking today to tomorrow is the industry's most important asset – its people.

Generation, transmission, and distribution – all participants in our sector – continue to experience critical labour shortages. Canada's labour market is tighter than it's been since the 1970s. Driven by an aging population, recruitment challenges have been intensified by an industry-wide shortage – one-million unfilled jobs across Canada

month-over-month for a year add up to a historically low unemployment rate.

The complexity continues to surge as our sector faces extreme talent competition with other industries – including current pressures to hire cybersecurity specialists, data analysts, and tradespeople.

On the flip side, youth representation in the electricity industry remains chronically low. Labour market intelligence generated by Electricity Human Resources Canada (EHRC) reveals that only five per cent of our total labour force is under 25 years of age, compared to an average of 10.6 per cent in all industries. Many young people aren't connecting big vision actions – changes to address climate

change and Canada's zero carbon future – with actual electricity industry work opportunities and all the positions that exist beyond the iconic lineman and line woman.

This all takes place at a time when power generation must expand to meet rising consumption demands and the increased need for electrification of the economy.

How do we manage the valuable institutional knowledge that is heading out the door and invite youth and diverse talent in? This is a dominant concern for CEOs, executive teams, HR leads, and education leaders. Tracking valuable labour market intelligence, understanding trends, drawing on industry HR best practices and

taking advantage of the funding and resources that will drive effective talent strategies are all critical to business and operational success.

As the industry leading the charge to bring reliable, renewable clean energy to Canadians, EHRC is committed to defining the talent investments and providing the best-in-class HR practices to empower a world-class electricity workforce that thrives on innovation.

Talent planning and forecasting decisions by leadership teams are informed by sector research results and analysis, as well as the industry's first competency framework – a shortcut to understanding the skills, knowledge,



and abilities required for various job functions across our evolving sector. SaskPower was represented on the steering committee that shaped these national occupational standards.

Youth initiatives to increase this important talent pipeline include the Empowering Futures program offering

financial incentives up to \$10,000 for employers to create work-integrated learning opportunities as the industry entry point.

Achieving diversity, equity, and inclusion objectives is made easier when readily available EHRC resources are integrated into HR activities. Our

**At 4% per year,  
the electricity sector's  
retirement rate  
is twice the  
national average.**

**Empowering Futures** is Canada's Student Work Placement Program for the electricity industry, preparing students and first-year apprentices for the future of work. The program will create new work-integrated learning (WIL) opportunities by providing subsidies of up to \$10,000 per student or apprenticeship position to employers who create these new opportunities.

Find out more details at [ehrc.ca](http://ehrc.ca)

Canada

**EHRC**



EHRC's Agents of Change national conference.  
PHOTO CREDIT: PETER POWER.

Leadership Accord on Diversity, Equity and Inclusion provides the proven roadmap for employers to build a workforce that is truly representative of Canada. The Women and Gender Equity (WAGE) project, also with SaskPower's participation as a national steering committee member, is advancing the recruitment, onboarding, and retention of women in our sector.

Recognizing the importance of Indigenous peoples as employers that fill key labour gaps led to the Bright Futures Energy Camps initiative to inspire interest among Indigenous youth and electricity career possibilities.

As both convener and collaborator, EHRC's unique standout value is bringing together the key stakeholders – employers, labour organizations,

policymakers, and educators to set industry HR priorities and inspire solutions.

The resources, wage incentives, and forums integral to industry transition and growth are in place as EHRC stewards a range of business-enabling initiatives that are making a difference to address both short and long-term labour demands, including Small Modular Reactors deployments as Saskatchewan enacts its plan to reach zero emissions. Together, we will continue to shape the industry's future so that Canadians can continue to power their world. 



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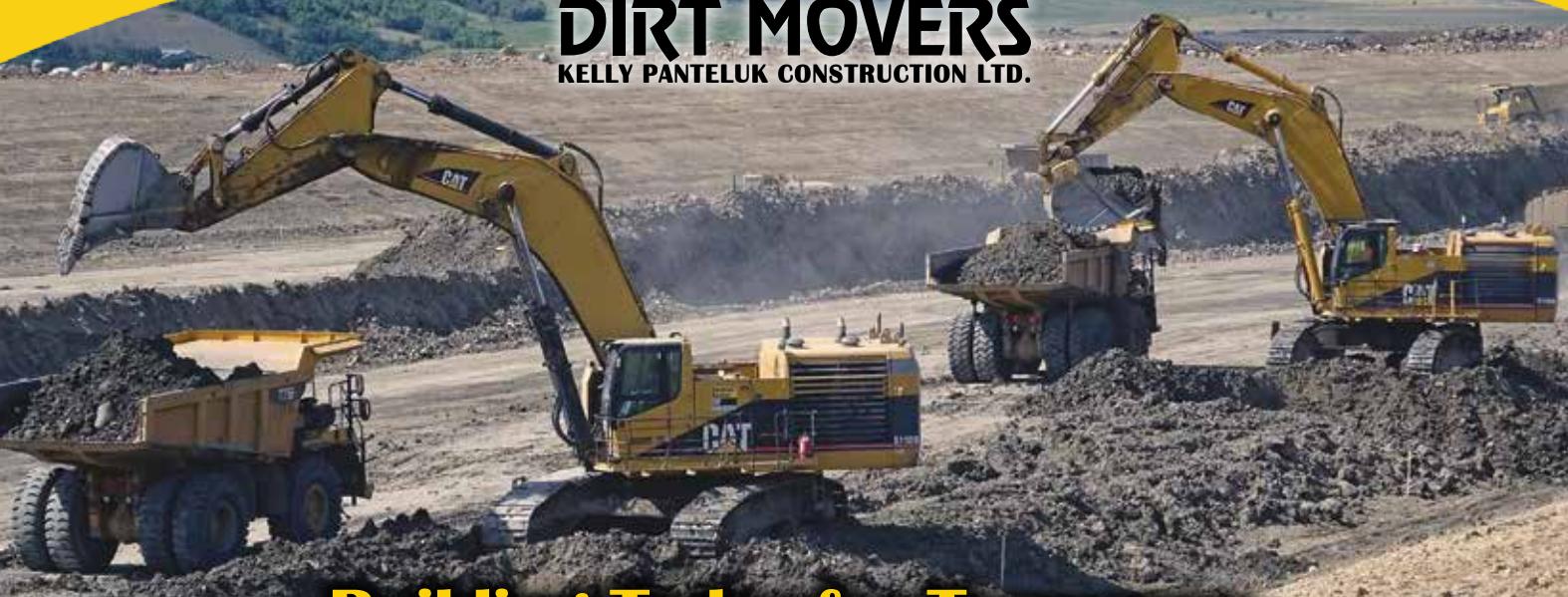


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# WILLISTON BASIN CONFERENCE A DOUBLE-GO FOR 2023 IN REGINA

*Conference usually alternates between Regina and Bismarck, North Dakota*



The Williston Basin Petroleum Conference has been shared for more than 20 years between hosts in Canada and the United States, with the North Dakota Petroleum Council organizing events during even-numbered years, and the Petroleum Technology Research Centre and Saskatchewan Geological Survey managing the conference on odd-numbered years in Canada.

Premier Scott Moe was one of the featured speakers at the 2022 event.

The pandemic put a crimp in that pattern with the 2020 event in North Dakota cancelled outright. With border restrictions still tight in 2021, but a desire in the United States for a full event, the PTRC turned over hosting WBPC 2021 to Bismarck, where a successful convention and conference happened.

After the 2022 conference in Regina, discussions between the two organizing groups on both sides of the border led to U.S. organizers requesting the return of even-numbered years to North Dakota. As a result, the WBPC will again be in Regina May 2 to 3, 2023.

"I think our North Dakota colleagues have found even-numbered years correspond better with the legislative assembly agendas in their state," notes Norm Sacuta, Director of Communications for the PTRC. "That means greater likelihood of getting top-level government officials in even-numbered years."

Whatever the reasons, the end result for Regina is a double-go for hosting WBPC again in 2023.

The event has been broadening its focus for a number of years, with a significantly higher number of presentations, networking opportunities, and booths with focuses beyond just oil and gas.

"Of course, oil and gas is still a big focus of the technical presentations over the two days," notes Erik Nickel, director of operations at the PTRC. "But the rise of multiple commodities in Saskatchewan and North Dakota's subsurface, like lithium, helium, and rare-earth elements, has created in many ways a more dynamic event."

Increasingly, it's not just these commodities, but also geothermal heating and electricity production that are drawing the interest of companies, governments, and researchers. And of course, with all the buzz in both Saskatchewan and Alberta



Over 400 participants attended in 2022.

on hub proposals for CO<sub>2</sub> storage, this year's WBPC will have a special Summit on CCUS. As usual, a core workshop will be offered again on May 1 at the Saskatchewan Geological Survey's Core Lab.

Registrations and booth purchases are now open for the conference. Visit [www.wbpc.ca](http://www.wbpc.ca), or contact [sales@eventworx.ca](mailto:sales@eventworx.ca) for information on sponsorship, presenting, and exhibiting. The downtown Delta in Regina is again host venue. 



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# HEAVY EQUIPMENT OPERATOR TRAINING IN SOUTHEAST SASKATCHEWAN

After a long hiatus, 2021 marked the return of the Heavy Equipment Operator program to Southeast College. Based out of the Estevan Campus, the program can accommodate eight to 10 students per cohort of study. The program is scheduled to run from spring to fall each year pending student demand.

State-of-the-art simulation technology combined with newly developed current and relevant curriculum are two significant advantages to Southeast's program. Another significant advantage is program length. Instead of the previous industry standard six-week program, our new program is a full 12 weeks. This is consistent with other leading programs offered in western Canada. Twelve weeks of training include classroom instruction, simulator training, work/job readiness, and,

*The Heavy Equipment Operator program at Southeast College is a full 12 weeks.*

most importantly, seat time that was developed with the student's safety and muscle memory skills in mind. Students can safely operate, through simulation, six different pieces of equipment in various settings, including night operation, snow, and rain.

A stone's throw away from the Estevan Campus is the practical training ground for the Heavy Equipment Operator program. The training ground is a 67-hectare parcel of land owned by the City of Estevan. The land consists of on-site training and equipment that mimics the simulation training and equipment. Students will complete several competencies on all six pieces of equipment. Competencies include learning to safely and efficiently dig

basements, dig trenches, efficiently move dirt, road building, and much more.

The Saskatchewan Heavy Construction Association has provided Southeast College with varied supports throughout the initial planning and curriculum development stages through to providing financial support for students through training bursaries, and finally, additional training and employment opportunities for graduate students. Two awards valued at \$2,000 each are presented to students in each cohort of programming.

Funding for this program was made possible through several partnerships. The Government of Canada's

Western Economic Diversification Program pledged \$800,000 in late September 2020 with the Estevan and area's Provincial Transition Funding Committee for Economic Development committing an additional \$100,000 to the project. The City of Estevan donated the use of the land for practical training in addition to supplying all fuel for the road construction project. Additional partners include Southern Plains Co-op - Fuel Storage Container; Turnbull Excavating - usage of Rock Truck.

Southeast College has a solid and proven history of delivering programming that is relevant, timely, and connected to the labour market in Saskatchewan. This program is no exception. We look forward to delivering this program and training many heavy equipment operators for years to come. 



A stone's throw away from the Estevan Campus is the practical training ground for the Heavy Equipment Operator program.



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# SASKATCHEWAN OIL & GAS SHOW RETURNED FOR 2022



2022 Saskatchewan Oil & Gas Show awards ceremony.



Southeast Saskatchewan Oilman of the Year recipient Derek Big Eagle (left) and Dan Cugnet at the 2022 Saskatchewan Oil & Gas Show awards ceremony.

On June 1 & 2, 2022, Weyburn, Sask. was home to the 19th biennial Saskatchewan Oil & Gas Show. After having to cancel the show in 2021, the board dedicated their time to bring the show back in 2022.

"The show continues to be a vital part of the southeast Saskatchewan energy sector calendar and a platform for us to come together and learn about our industry and collectively be proud of what we do and how we do it," says Dan Cugnet, Weyburn Oil Show board chair. "As a board, we were incredibly happy with the 2022 Saskatchewan Oil & Gas Show."

Over 215 booths were occupied this year at the show, which included two indoor hockey arenas and the outdoor grounds of the Weyburn Exhibition Association facilities.

"The Western Canadian Oil Sector is at the forefront of innovation, technology and environmental initiatives and we get to showcase all of those things together at the show," mentioned Cugnet, adding that a lot of time and effort goes into being able to provide a show the size of the Saskatchewan Oil & Gas Show. "The board strives to provide an event that creates lasting connections between vendors and businesses with existing or new clients."

The 2022 show featured speakers such as Canadian commentator Rex Murphy, and Rafi Tahmazian, a director and senior financial portfolio manager at Canoe Financial.

"It is a real opportunity for us to bring in world-class speakers and create an environment for the industry to engage with

different levels of provincial and federal governments that are elected or in administration," says Cugnet.

With over 3,000 attendees coming through the gates for the two-day show, volunteers are a necessity, and Cugnet mentions that the Weyburn Oil Show Board appreciates the combined efforts of so many service groups and clubs along with the interests of the Southeast Saskatchewan community to help pull this event off time and time again.

"It takes hundreds of volunteers to make it all go and we are thankful to so many people stepping forward each show to make it the tremendous success it has become."

While the show provides ample networking opportunities, there is also some prestigious awards presented to industry leaders that paved the way to what the oil and gas industry are today. Without these leaders and their determination and passion to the industry, the industry would not be where it's at today. If you know someone in Southeast Saskatchewan that is deserving of becoming inducted into the Southeast Saskatchewan Legends or the Southeast Saskatchewan Oil Person of the Year, consider nominating them for the 2024 show. Nominations can be found on their website at [oilshow.ca](http://oilshow.ca).

Planning for the 20th Biennial Saskatchewan Oil & Gas Show has started already with the dates set for June 5 and 6, 2024. If your company is interested in being part of the show, contact their office at 306-842-3232, or email [sk.oilshow@sasktel.net](mailto:sk.oilshow@sasktel.net). Follow them on Facebook, Instagram, Twitter, and LinkedIn for updates. 



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# PRAIRIE LITHIUM INTRODUCES ITS DIRECT LITHIUM EXTRACTION TECHNOLOGY

By Cindy Chan

*Prairie Lithium is currently operating a pilot plant in the works in Emerald Park, Saskatchewan, just outside of Regina.*

Although it's a fairly new company, Prairie Lithium is changing the direct lithium extraction technology game.

Incorporated in 2019, Prairie Lithium was originally built on academic research that was completed by Zach Maurer, the company's president and CEO, at the University of Regina to understand the origins of lithium in the Williston Basin.

"We started off as a resource company developing assets in southeast Saskatchewan," says Matthew Dreis, supply chain and sustainability co-ordinator, adding that Prairie Lithium was looking for technology to extract lithium as they were doing that externally.

However, back in 2019 to early 2020, those companies weren't far along commercially with their direct lithium extraction technology to deploy it onto Prairie Lithium's resource. As a result, Prairie Lithium took it upon themselves to develop in-house proprietary technology that they call "Prairie Lithium Ion Exchange", otherwise known as PLIX, to extract lithium for brine and make a product.

So, what is direct lithium extraction technology? It is a highly selective material that pulls lithium ions out of a source brine that has a relatively low concentration.

"Lithium concentrations from the first exploration well we drilled ranged from 48 mg/L in the lowest concentrated zone to 173 mg/L in the highest zone," Dreis explains. "Direct lithium extraction pulls lithium out while rejecting other ions and transfers the lithium to a concentrated solution. Eventually the lithium can be used in batteries for vehicles, for example."

The technology has numerous benefits. Dreis says the technology is incredibly fast as it can extract in a matter of minutes to hours. With traditional evaporative brines, it can take up to 12 months for it to become a concentrated solution, whereas direct lithium extraction technology can concentrate quickly, and it doesn't carry all the contaminants over into the concentrated stream.

"As the lithium demand grows in the world of EVs, we



Prairie Lithium took it upon themselves to develop in-house proprietary technology that they call "Prairie Lithium Ion Exchange", otherwise known as PLIX, to extract lithium for brine and make a product.

can extract lithium from resources that were previously uneconomic or unfeasible," Dreis says.

In addition to developing their own technology in-house, Prairie Lithium is also evaluating other direct extraction lithium technologies to make sure they are getting the best technology for their resource.

"If there's something that comes along for us that works better, we have no problem using it," Dreis says. "We evaluate external

technologies while developing our own; the goal is to maximize the value of the resource."

Prairie Lithium is not only enjoying the lithium momentum, but is also looking towards the future. It currently operates a pilot plant in the works in Emerald Park, Saskatchewan, just outside of Regina. They are finetuning the pilot plant before they move it to a commercial-scale facility.

For more information, visit [prairielithium.ca](http://prairielithium.ca). 

An advertisement for Spartan Controls. The top half features a blue banner with the company logo and the tagline "Creating a Sustainable Modern World with Innovative Automation". Below the banner is a photograph of a field of yellow canola flowers with several oil pumps in the background. To the right are four smaller images showing industrial equipment: a control panel, a refinery, a red pipe, and a truck. The bottom half contains text about the company's 60-year history and its focus on process industries. It includes a QR code and a "LEARN MORE" button. The footer provides contact information: "REGINA • SASKATOON • MIDALE" and the website "www.spartancontrols.com // info@spartancontrols.com".

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In addition to the Twin Otter and the ATR 42, Rise Air's fleet includes 30-seat Saab 340s operated in all-passenger, all-cargo and passenger/cargo combi versions, 19-seat Beech 1900D all-passenger and all-cargo aircraft, and eight-seat Beech King Air B200s, operated in passenger, cargo, and medevac configurations. All aircraft can land on gravel runways.

"Safety is core to everything we do," says Derek Nice, Rise Air's CEO. "We are a BARS Registered Aircraft Operator meeting the

standards of Part 705 of the Canadian Aviation Regulations, including a company-wide safety management system. You can be comfortable knowing our safety standards meet global best practice."

Some of Saskatchewan's largest energy companies have been Rise Air customers for more than 40 years, testifying to the excellent service the airline delivers in one of the most challenging regions anywhere in the world.

Part of why Rise Air appeals to our customers is because we have a workforce with strong Indigenous representation – team members who live and work in the communities they serve. We are committed to partnerships that are creating training and employment opportunities for First Nation community members, including pathways toward careers as pilots, flight attendants, and maintenance engineers.

"We are Saskatchewan's largest Indigenous-owned company," says Nice. "Our shareholders include 16 First Nations across the province, and that's reflected in our inclusive culture and commitment to supporting employment and economic development in our northern communities. This is a key driver for both Rise Air and our customers."

Rise Air invests in its shareholder communities through direct financial returns, local development initiatives, and support for cultural traditions. 



Rise Air is the only airline with the capability to move people and goods to and from virtually any location in Saskatchewan and beyond. Rise Air is Saskatchewan's largest Indigenous-owned company.

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*Led by a core group of local managers and tradespeople, ServcoCanada has put down roots in Regina and invested in a fabrication facility that their core group will expand on and grow into the future.*



*ServcoCanada specializes in mechanical and electrical installations for new builds and expansions, maintenance turnarounds, and plant relocations.*

# DMS INDUSTRIAL CONSTRUCTORS REBRAND AS SERVCOCANADA

DMS Industrial Constructors Inc. has re-branded as ServcoCanada. As the company continues to expand and grow into a diverse and multifaceted business, the time was right to unify under one name. The ServcoCanada name resonates and communicates the company's vision to expand in new markets across the country. This rebrand provides a better understanding of their broad range of expertise and how they differentiate from the competition as they continue to grow.

In line with this vision for the future of the company, in 2022 ServcoCanada purchased a facility in Regina. The ownership group based in the prairies believes in the province's vision to expand upon its strong industrial roots and are committed to investing in its future potential. Led by a core group of local managers and tradespeople, ServcoCanada has put down roots and invested in a fabrication facility that their core group will expand on and grow into the future.

The ServcoCanada team and ownership group are 100 per cent committed to the province of Saskatchewan as an

emerging industrial sector, and they envision ServcoCanada as part of this growth. They are committed to hiring locally and to provide their customers the option to source locally.

ServcoCanada specializes in mechanical and electrical installations for new builds and expansions, maintenance turnarounds, and plant relocations. They provide a comprehensive range of engineering, fabrication, construction, procurement, and project management services in sectors such as oil and gas, mining, petrochemical, hydro generation, and food processing.

ServcoCanada brings several innovations – particularly during the pre-commissioning phase – that ensures both process and work scopes are delivered seamlessly and effectively as planned. Their experience has enabled the development of a strong knowledge base of lessons learned and associated solutions that can be deployed early across multiple work scopes to mitigate risks, delays, and commercial concerns.

As a leader in mechanical and electrical services since 2001, ServcoCanada

has developed a reputation as an industry leader for Indigenous inclusion by developing strong partnerships and joint ventures based on trust.

These partnerships provide economic prosperity, social well-being, and deep respect for the communities and land where they work. The team has taken the time to earn community trust by following through with commitments and working directly with the leadership of communities beyond their construction expertise.

Not only does ServcoCanada believe in Indigenous inclusion, but they believe in being an inclusive organization as a whole. This inclusion is characterized by affirmative action, where any impact of bias, discrimination, or unequal opportunity is negated. ServcoCanada is committed to workforce diversity with members from all minority groups as a part of their team.

Today, ServcoCanada can be found executing projects across Canada with over 1,000 employees based out of offices in Saskatchewan, Manitoba, and British Columbia. 

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# MERIDIAN SECONDARY CONTAINMENT: TOP QUALITY ENVIRONMENTAL PROTECTION

Backed by 65 years of experience, Meridian Manufacturing Inc. is a proven leader in quality storage products for the energy sector, continuing to innovate and develop economical, reliable, and environmentally responsible options with unsurpassed customer service. Although Meridian is best known for the iconic SmoothWall lineup and patented powder coating system, Meridian has over 35 years of experience building corrugated bins for all industries. Made of 100 per cent galvanized steel construction and built utilizing computer-assisted manufacturing processes, every sheet is accurately rolled, precision cut, and punched, allowing tighter seals at all connection points. With this experience, Meridian is proud to offer a full line of Secondary Containment systems for all industries requiring environmental protection from spills and leaks.

Meridian's Secondary Containment Systems are designed to offer uncompromised environmental protection against hazardous spills or storage tank failures. Modular in componentry, galvanized steel secondary containment systems offer exceptional value, durability, and quality. Meridian Secondary Containment is

precision engineered with galvanized paneling for ultimate product integrity while providing on-site environmental protection.

Meridian galvanized panels are manageable in panel size and weight, allowing trouble-free and straightforward assembly in the field. With the ease and affordability of shipping, systems can be installed in as little as a day and dismantled to move from site to site. Galvanized steel has been proven to resist rust and corrosion even in the harshest environments with virtually no maintenance. The 12- and 15-gauge panels are ASTM A653 Grade 50 (50,000 psi minimum yield strength, 65,000 psi minimum tensile strength), and all galvanized material components are coated to ASTM A653 standards. Meridian galvanized panels can consist of long, medium, or short panels with bolted coverage, offering heights ranging from 17 to 67 inches, the highest in the industry. Top mount liners are usable with corrosive liquid applications such as liquid fertilizer, and base mount options are usable with flammable liquids such as fuel. Meridian galvanized panels allow for multiple different configurations and layouts to best fit on-site containment

requirements in addition to seamless expansion.

Meridian Secondary Containment Systems are professionally engineered to offer uncompromised environmental protection against hazardous spills or storage tank failures. Meridian engineers utilize 3D modelling and Finite Element Analysis (FEA) software to ensure that stress points are designed to meet or exceed structural regulations. Meridian's engineers design the systems to exceed the Environmental Protection Agency (EPA) Standards and the Alberta EUB G55 guideline for oil spill prevention and counter measures. These designs are in full compliance with both the Canadian Standards Association's Specification for the Design of Steel Structures (S16) and the American Iron and Steel Institute's Specification for the Design of Cold-Formed Steel Structural Members (S136).

Meridian continues to grow and evolve its innovations in storage and containment. Utilizing decades-long experience, Meridian advances its product offerings and technology to provide unbeatable quality and customer service. Its Secondary Containment Systems offers precision-manufactured environmental solutions in any climate for superior durability and setup ease. Whether utilized in an oil facility, liquid fertilizer retail facilities, highway anti-icing spray brine, or any other application, trust the quality of Meridian-engineered Secondary Containment for environmental peace of mind. 

Meridian's Secondary Containment Systems are designed to offer uncompromised environmental protection against hazardous spills or storage tank failures. Meridian engineers utilize 3D modelling and Finite Element Analysis (FEA) software to ensure that stress points are designed to meet or exceed structural regulations.

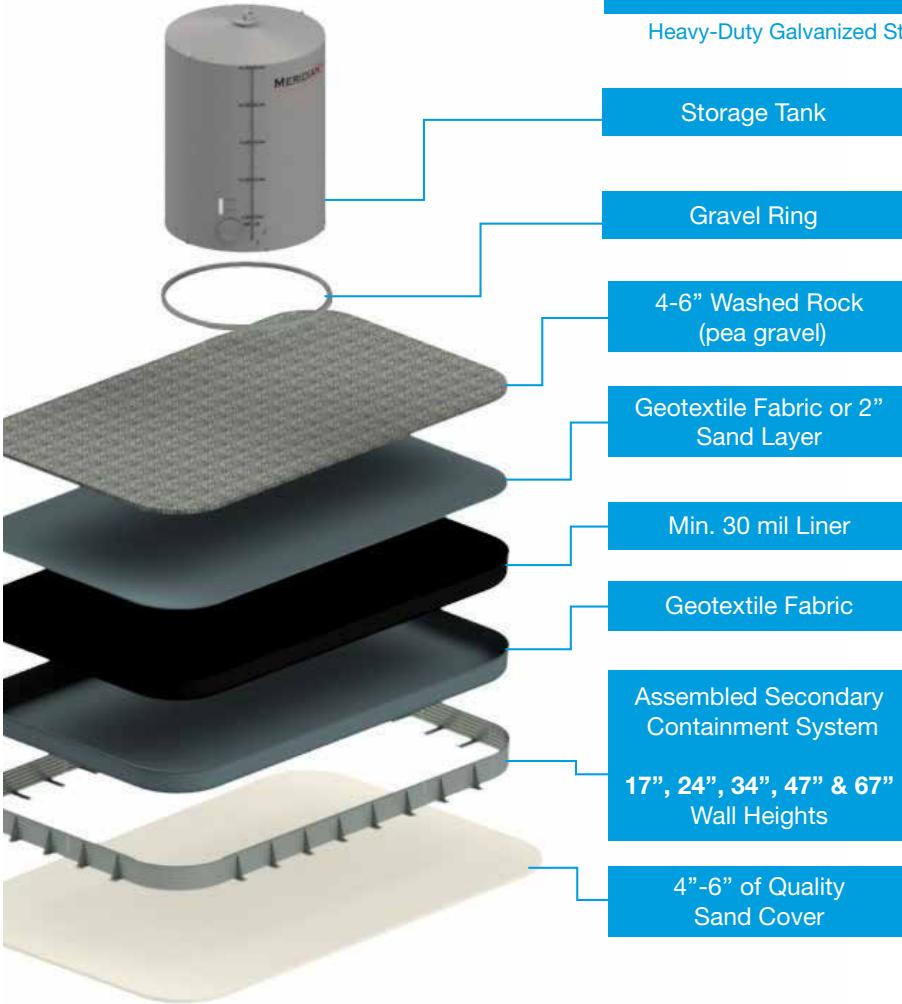


# SECONDARY CONTAINMENT



## ENGINEERED PROTECTION

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Meridian's Secondary Containment Systems are designed to offer uncompromised environmental protection against hazardous spills or storage tank failures. Meridian Secondary Containment is precision engineered for ultimate product life cycle & integrity while delivering environmental protection peace of mind by the minute for your application

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*Brother's Specialized Coating Systems Ltd. provides high-quality specialized internal and external applications for equipment such as fabricated pipe spools, pipelines, pressure vessels, and tanks.*

For the past 35 years, Brother's Specialized Coating Systems Ltd. has garnered a solid reputation for applying high-quality coating applications for the oil and gas, water and wastewater treatment industries.

Located in Edmonton, AB, Brother's is known as one of Western Canada's most trusted providers of high-quality protective coating systems to industry to ensure their investment remains protected from corrosion, erosion, and harsh environmental conditions.

Brother's provides high-quality specialized internal and external applications for equipment such as fabricated pipe spools, pipelines, pressure vessels, and tanks. They also do below-grade pipeline coatings as per the most current CSA Z245.30 Specification.

Brother's has maintained a positive

reputation throughout the industry for their high level of service, communication, and quality. These values are driven throughout the company with well-trained, long-term staff who provide consistent output each time, allowing the quality to stay the same with each job completed.

Brother's experienced staff can assist in determining the best system to protect your investment.

"We pride ourselves on a high level of customer service and believe that effective levels of communication are key to making the jobs go smoothly," says Brian Payne, general manager and president. "That means providing the best possible solutions to your inquiry, discussing the design parameters, or keeping you updated along the way on the delivery schedule, as we feel these are all important aspects of a successful

job being completed by Brother's".

Brother's can apply a complete range of internal and external spray on coatings. When assisting a client in putting together a job-specific coating specification, each coating has a chemical, temperature, pressure, and abrasion-resistance consideration for the specified service. Our in-house experts can also assist in design applications by providing input for lengths, configuration, and access to various pieces of equipment.

"We take pride in telling our customers what they need to know and not what they want to hear. This isn't always an easy conversation; however, we are not doing our job if we don't have that conversation," says Payne. "What is important is that our clients have all the correct information and the best recommendation in order to make an informed buying decision when putting together a job."

In oil and gas, Brother's provides coatings to combat corrosion and erosion problems that often occur in piping systems, tanks, and vessels due to high concentrations of chlorides or chemicals under pressure and high temperatures. In treated water systems, Brother's provides coatings used in piping in water treatment plants that meet NSF ratings for potable water



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Brother's is dedicated to safety by maintaining COR status through the Alberta Construction Safety Association. Inset: Brother's can apply a complete range of internal and external spray on coatings.

for drinking and bathing. In wastewater systems, Brother's applies coatings that will prevent corrosion or erosion issues due to the process by-products contained in the fluid or the solids contents that can erode piping systems under pressure.

The company also has internally lined piping for several firewater systems in large refineries and treatment plants, using coatings for freshwater.

"The staff at Brother's take their jobs seriously, they take pride in the work they do and they genuinely care about the products we deliver to our customers. The end results matter and it shows," says Payne.

Brother's is dedicated to safety by maintaining COR status through the Alberta Construction Safety Association. They are also registered with vendor management systems such as

Complyworks, ISNetworld and Avetta.

"Making sure your equipment remains free of corrosion is why we're around, so it's safe to say we take quality assurance extremely seriously," says Payne. "Before anything leaves our hands, we scrutinize every square inch."

As an organization dedicated to high-quality coating applications, Brother's follows industry-standard protocols set out by two main organizations: NACE & SSPC. These two organizations recently merged into one under the AMPP banner.

Having their own in-house NACE Level 3 Inspectors & In-House Train the Trainer, this enables Brother's to maintain the highest level of quality that their customers have come to expect from them over the years. Also, being a smaller shop allows Brother's to have their eyes and hands on each and every job that comes through.

In 2020, due to the many requests that Brother's has received for field work, they felt a need to create a new division for doing just that. Brother's can successfully apply coating to internal tanks and vessels, external coating systems to piping, as well as below-grade coatings on piping such as integrity digs for major pipelines.

"We built out two blasting trucks and a spray truck for thick film coatings," says Payne. "Although we have other pieces of equipment to complement the fleet, these are our main flagship pieces of equipment."

Brother's does work with an array of clients ranging from engineering firms, EPCM's, fabricators to end users, and owners. Their quality does not discriminate and they provide the same level of quality and service to all their clients. 

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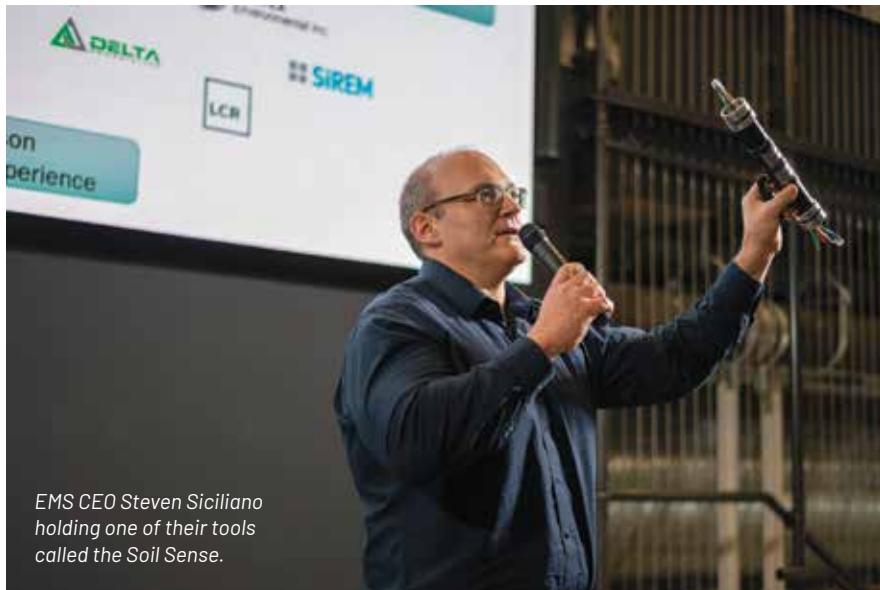
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# 30 YEARS IN THE SOIL



EMS CEO Steven Siciliano holding one of their tools called the Soil Sense.

In business, some people are visionaries, while others are executors. Occasionally, you get a person who is both. Fortunately, for Environmental Material Science (EMS), its founder and chief executive officer, Dr. Steven Siciliano, falls into the latter category.

As one of the world's top experts in contaminated soils, Siciliano is industrial research chair at the University of Saskatchewan's Department of Soil Science. Of course, Siciliano understands soil, and is determined to use this understanding to ensure the planet is healthy for future generations.

In 1992, Siciliano studied how acid rain was poisoning plants and, subsequently, how plants could clean up hydrocarbons. Over the following decades, he would continue to research soil remediation across the world with a focus on how humans and soil poison one another. This learning provided Siciliano will clues on how to clean it.

A key innovation that came from his work was the "bio-lodestone", which is a mineral-rich fluid that speeds up

the degradation of hydrocarbons by organisms when injected into soil.

Given Siciliano's reputation in the field and his status as a Saskatchewan local, Federated Cooperatives Limited (FCL) approached him for assistance with the problem of contamination. The sustainability challenge posed by oil and gas-polluted soil is staggering; there are more than 38,000 Olympic-sized-swimming pools of polluted soil in Canada, and more than 10-million worldwide. Remediating this soil with traditional approaches would lead to the emission of five years' worth of global carbon emissions. This, combined with Canada's liabilities estimated at \$117 billion, represents a monumental challenge of how to sustainably clean our soils.

FCL knew that if it could help develop a solution, it would not only benefit their cooperative members but also the world. Through the power of collaboration, Siciliano and his University of Saskatchewan team worked with FCL specialists to develop a technology that would clean polluted

soil without excavation or by using toxic chemicals. After many trials, the science and prototype technology was successful and was rolled out for field trials.

While this was going on, an Alberta-based investment fund, Genesis Capital, was grappling with a soil contamination liability at one of their investment properties. By way of mutual contact, they were introduced to Siciliano.

Combining Siciliano's proven technology with the seed capital and business know-how of Genesis, EMS was founded in January 2018. Its challenge was clear: EMS needed to provide a technology platform that could sustainably remediate soils using a scalable business model. This was achieved by creating a suite of interconnected technologies driven by site-specific data to facilitate remediation. Sites were being cleaned at a fraction of the cost and time while reducing water use by 95 per cent, greenhouse gas emissions by 99 per cent, and soil destruction by 130 per cent.

The flagship tool in EMS's offering is the "soil sense", a solar-powered sensor pack that is installed directly into the soil. It provides constant soil feedback to a client and estimates contaminants within the soil. With 48 estimates a day—or a staggering 17,472 each year—the client has the power to make informed and timely decisions.

EMS is no longer considered a start-up. It's now a growing Saskatchewan company that helps a multitude of customers in the energy sector with sustainable, cost-effective site clean-ups. If you are interested in learning more about how EMS can help you, visit their website to connect. 



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# FORT GARRY FIRE TRUCKS: TOUGH TODAY, TOUGH TOMORROW

By Trevor Robb, Marketing Manager

*Fort Garry Fire Trucks is Canada's oldest and largest manufacturer of firefighting apparatus.*

Our motto at Fort Garry Fire Trucks is "One Tough Truck". Just how tough are we talking? Many of the vehicles that roll out of our Canadian manufacturing plant will be called upon to work in some of the most inhospitable conditions on the planet. That includes everything from bone-chilling lows of -60 degrees Celcius in Canada's north to blistering highs of 50 degrees Celcius in desert climates halfway around the world. And they often have to travel on some of the most treacherous roads known to man to get to where they need to go.

Fort Garry Fire Trucks is Canada's oldest and largest manufacturer of firefighting apparatus, and we sell more than 100 rigs in a typical year. While the bulk of those sales are here in Canada, where we supply equipment to every province, we also serve our neighbours to the south in the United States and as far away as China, Chile, Cuba, Costa Rica,

Pakistan, the Bahamas, and the United Arab Emirates. We boast one of the largest fire apparatus engineering departments amongst our competitors, devoted to the design and production of equipment for the most extreme conditions in the world.

Except for the commercial chassis used in some of our trucks, every aspect of design and construction is handled by our employees, from painting — we offer more than 160 shades of red — to pump assembly. As our company has grown over the years, so too have our product lines. We build everything from small rescue trucks all the way up to our top-of-the-line Bronto Skylift, with an articulating aerial device that can reach hard-to-access spots. In fact, we now offer 130 product lines and over 10,000 options for our customers to choose from.

One of our keys to success has been our willingness to listen to what our customers need, rather than telling them what we think they need. Our sales team undertakes an extensive consultation process with each new or existing customer, which can take as little as a few weeks or as long as a year. It's part of an effort to determine what the customer's precise needs are, whether it's command lights that can illuminate an entire football field or cameras that offer facial recognition from as far as a mile away. Fort Garry Fire Trucks can customize it for you.

Our full-framed aluminum extruded bodies utilizing 5,083 saltwater marine-grade aluminum include rescues, pumpers, pumper tankers, fire tankers, and aerial ladders. Our walk-in rescues, command rescues, and walk-around rescues are engineered for the harshest road conditions and environments in



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**Fort Garry Fire Trucks** is the largest fire apparatus manufacturer in Canada and are proud builders of fire trucks, custom-built pumpers, aerial ladders, and related fire-fighting equipment. Our customers emanate from cities, towns, and municipalities throughout Canada, the U.S., and abroad with the harshest weather, climates, and terrain.

Every aspect of design and construction is handled by Fort Garry employees, from painting to pump

assembly. As we have grown over the years, so too has our product lines. Fort Garry Fire Trucks builds everything from small rescue trucks all the way up to our top-of-the-line Bronto Skylift rescue ladder platform, with an articulating aerial device that can reach hard-to-access areas. In fact, Fort Garry now offers 130 product lines and over 12,000 options for customers to choose from for the most extreme conditions in the world—which is why we design *“One Tough Truck.”*

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Except for the commercial chassis used in some of our trucks, every aspect of design and construction is handled by our employees.



Our emergency rescue bodies provide fire departments with the performance of a pumper and the storage of a rescue.



the world, while our Emergency Rescue (ER-X) bodies are customized for flexibility and maximum performance with side-mount, top-mount, and top-mount enclosed options available and incorporating other world-class features into your apparatus. Our emergency rescue bodies provide fire departments with the performance of a pumper and the storage of a rescue. Be confident knowing you're properly equipped for nearly any possible situation with our full-framed custom bodies.

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# BUILDING UP COMMUNITIES

## Triton Environmental Consultants Ltd.



Left: Triton specializes in biophysical assessments, construction implementation services, environmental monitoring and inspection, permitting, and regulatory applications related to fisheries and aquatics, wetlands, wildlife, vegetation, species and ecological communities at risk, soils, reclamation and remediation, and air and acoustics. Right: Triton has numerous employees who call Saskatchewan home.

Triton Environmental Consultants Ltd. was proud to announce the opening of our new office in Regina in 2021. For over three decades, Triton has grown and adapted to meet the changing needs of clients and the marketplace, as well as become one of Western Canada's leading multi-tiered environmental consulting firms.

### WHAT WE DO

Triton is a 100 per cent Canadian, 100 per cent employee-owned firm. We specialize in biophysical assessments, construction implementation services, environmental monitoring and inspection, permitting, and regulatory applications related to fisheries and aquatics, wetlands, wildlife, vegetation, species and ecological communities at risk, soils, reclamation and remediation, and air and acoustics.

We pride ourselves on our client focus, flexibility, and ability to provide

pragmatic solutions that are relevant for construction. Triton's reputation as an environmental leader has been earned from our clients who rely on us to successfully steward their projects from inception through approval to final completion.

Our project history includes providing environmental services to oil and gas, mining, power, renewables, forestry, agriculture, and transportation sectors.

### LOCAL HIRING AND COMMUNITY BENEFITS

From executives and managers to field staff, Triton has numerous employees who call Saskatchewan home. Triton is committed to a business model that encompasses employing local qualified professionals to work in the various regions we operate. We are proud of this model as there is value in employing people with a personal stake in the development of their own region.

In addition to local hiring practices, Triton contributes to many aspects of community development, including direct revenue from office expenditures, sponsorships, charitable donations, bursaries and scholarships, and volunteer efforts by Triton staff in the community.

### INDIGENOUS OPPORTUNITIES

Triton has a 30+ year history of maximizing access to employment, training, and contracting opportunities for local and Indigenous people and businesses on all our work. Our commitment to Indigenous inclusion, including robust employment and procurement programs, has resulted in over 2 million hours of employment, training, and countless contracting opportunities for Indigenous communities and businesses.

Triton has formed several majority Indigenous-owned partnerships and

# TRITON

Environmental Consultants

Triton is an employee owned environmental consulting firm with over 30 years of experience.

Our clients have relied on us to successfully steward over 4,500 projects from inception through approval to final completion.

We provide a wide range of scientific, technical and management expertise that merge to provide practical environmental solutions



Regina Office: 306-450-4993

[triton-env.com](http://triton-env.com)



Triton has a 30+ year history of maximizing access to employment, training, and contracting opportunities for local and Indigenous people and businesses on all our work.

we also maintain positive working business relationships through various commercial agreements with a multitude of Indigenous communities and businesses throughout Western Canada.

These business relationships support our ongoing public commitment to our clients and Indigenous communities alike, to maximize Indigenous inclusion and engagement throughout each phase of the project. Our Indigenous

inclusion and decades-long experience continue to contribute to our clients' project successes and build sustainable capacity for the local and Indigenous communities and businesses we work with. 



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## WHO WE ARE

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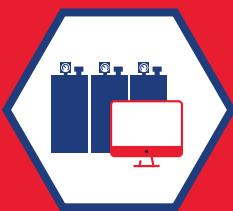
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# WLCS 2022 YEAR IN REVIEW



GGFN main road stabilization.



Climate Observatory Weather Station.

2022 was another busy and exciting year for Wicehtowak Limnos Consulting Services LP (WLCS). We got our environmental monitors working, tackled projects throughout Alberta, British Columbia, and Saskatchewan, and continued to manage projects on George Gordon First Nation (GGFN).

The past year has also seen new opportunities for the City of Regina, including with organizations SaskEnergy and SaskPower. WLCS is part of the project management team for the water treatment plant for GGFN, as well as manages its climate monitoring station. It is our hope to break ground on the GGFN water treatment plant in 2023.

WLCS is proud to have our environmental monitors, many of whom are GGFN community members, to help with various endeavours, including:

- Working throughout Alberta, British Columbia, and Saskatchewan to install 12 monitors for various projects with BHP, the City of Regina, Enbridge, K+S Potash mine, SaskEnergy, SaskPower, and Steel Reef;
- Developing the Environmental Resources Management (ERM) and BHP community readiness study for the Jansen Mine;
- Creating the SaskPower Wolverine Project, a traditional

knowledge and protocol study for a proposed natural gas power station near Wolverine, Sask.;

- Assisting the City of Regina with a parks master plan for the Indigenization of green spaces and parks in the city; and
- Supporting the Steel Reef pipeline project in southeast Saskatchewan.

Upcoming projects in 2023 will include Indigenous engagement for an ATCO and George Gordon Developments Ltd., and solar power projects near the K+S Potash Canada Bethune mine.

## GGFN CLIMATE OBSERVATORY

The GGFN Climate Observatory was awarded funding in 2021 for three more years. In 2021 to 2022, the climate observatory purchased Saskatoon and raspberry shrubs to grow. The past two to three years have seen wild berry harvests in decline for GGFN due to extreme weather events and drought. Saskatoon berries, goose berries and raspberries are mainly being affected. Our monitoring plots, when fully matured, will provide a close and safe berry picking for GGFN members to harvest, as getting to the sites in the pastures and bushes can be unsafe due to wildlife. Shrubs were also made available to community members wanting to plant them in their own gardens and



Existing water treatment plant.



GGFN Climate Observatory Greenhouse.

yards. We planted the shrubs in three plots located throughout the community, with the main location being located near the GGFN health centres' two greenhouses. The community gardens were not planted in 2022, but we look forward to the following season and a bountiful harvest for the community. The greenhouses will provide fresh produce like lettuce, tomatoes, and bell peppers, as well as strawberries.

The state-of-the-art climate monitoring station is still in

operation for GGFN and managed by WLCS. It also provides real-time weather data available to view on an app or through the hydromet website. Water monitoring and testing is still being carried out during the spring and summer field season. The HOBO data loggers are still deployed at our three monitoring sites and will be brought up in 2023 to download the data. Traditional plant and medicine sites throughout GGFN continue to be monitored as well, with the most important areas mapped and safeguarded for future generations. 

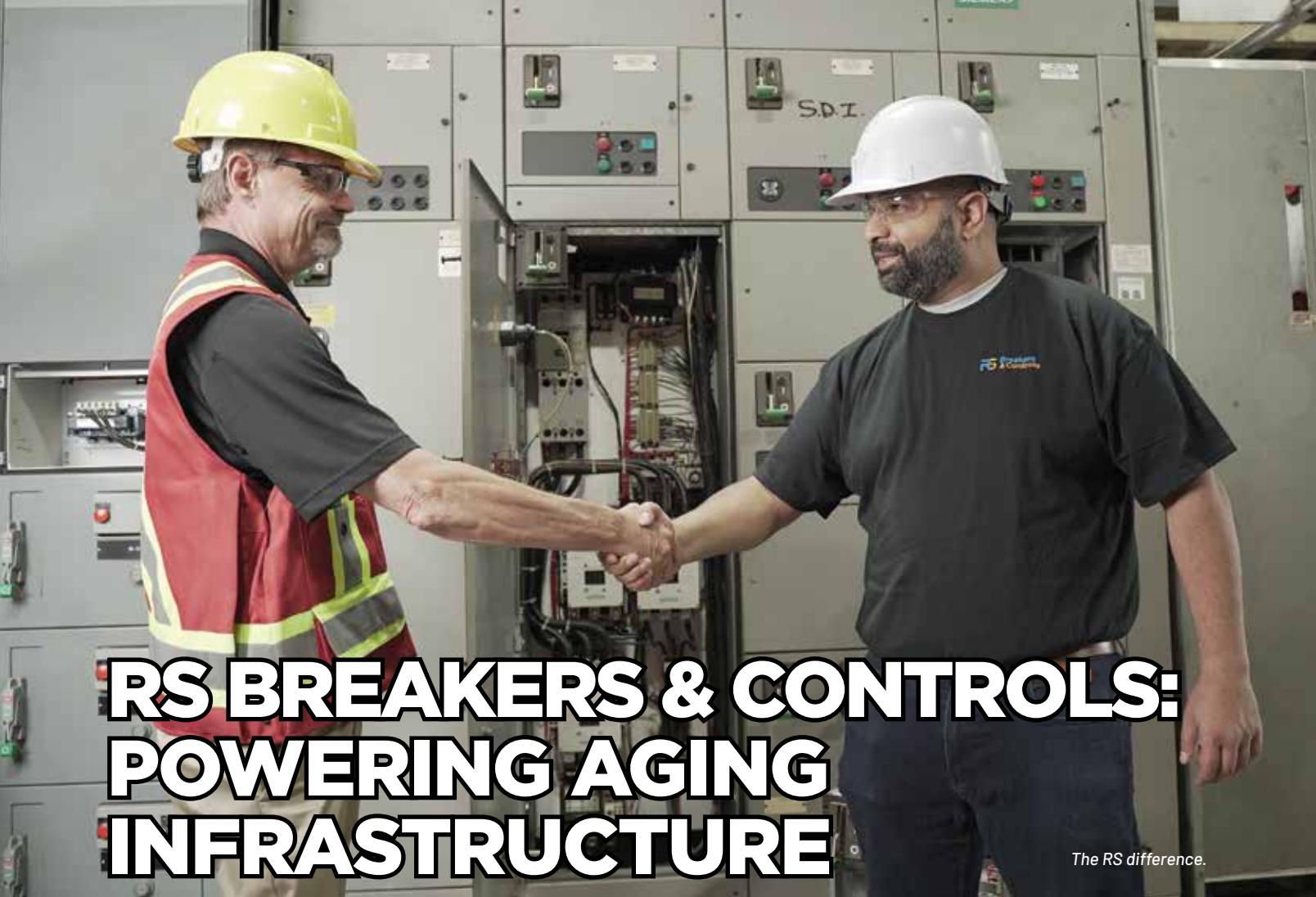


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# RS BREAKERS & CONTROLS: POWERING AGING INFRASTRUCTURE

*The RS difference.*

The global polycrisis has placed tremendous pressure on those in the electrical and energy sectors to find strategic power solutions. Intersecting issues of economic and geopolitical instability, climate change, and energy scarcity have heightened the burden on essential services. Unreliable equipment means interruptions to the continuity and quality of services in our hospitals, mines, and utilities. Industrial and commercial sectors are faced with high-demand and low-supply for electrical parts, leading to unprecedented outages and lengthy downtimes waiting for replacements. Combine that with aging apparatus, dated facilities, rising energy costs, and an increased global demand for finite materials, these factors inevitably lead to high prices for new products and unsustainable operational costs.

## ONE-STOP-SHOP

RS Breakers & Controls has been stepping up to critically address the needs of aging electrical infrastructure. Since 2006, RS has grown to become one of Canada's largest original equipment suppliers, proving itself as an exceptional resource for electrical engineers, property managers, wholesalers, electrical contractors, and consulting firms alike. As a PEARL Accredited Company, RS operates its own in-house testing facility where all reconditioned or used products are tested to ANSI standards, backed by comprehensive test reports and multi-year warranties to ensure strict safety and quality control within the Canadian market.

RS carries every major manufacturer for both new and vintage product

lines of molded case circuit breakers, MCC buckets and motor controls, air/vacuum/power breakers, panel switches and distribution panel boards, bus plugs, transformers, and more. Not only does RS offer a massive inventory of over 500,000 in-stock products and parts, but they pair this with knowledgeable, qualified technical staff capable of providing custom, electrical solutions—start to finish.

## RS LIFE EXTENSION SOLUTIONS

A key concern in aging facilities is the complex maintenance of mixed power distribution systems. There are sometimes up to three generations of electrical apparatus running within a single facility, increasing the demand for on-site evaluations and custom solutions. Budget gaps are widening between the high financial investment



# The RS™ Difference

CARE   SUPPORT   GUARANTEED



## POWERING AGING INFRASTRUCTURE WITH LIFE EXTENSION SOLUTIONS

Extensive tear-outs are not always the answer. Upgrade aging switchgear with hybrid life extension solutions. Avoid costly downtime with Retrofit/ Retrofit options, "Like-for-Like" replacements, and modernize durable, proven OEM products by integrating new technology! Life Extension solutions and targeted upgrades have the potential to extend the lifespan of aging switchgear another 20-25+ years!

### FEATURED PRODUCTS:



#### MCC Buckets / Motor Controls / Motor Control Centres

New+Vintage+MCC Life Extension hybrid solutions to replace/ upgrade internal components to newer available products.



#### Molded Case Circuit Breakers

Massive IN-STOCK inventory of new-in-box and used-tested breakers. Every Major Manufacturer, from 3 to 5000 amp!



#### Air Circuit Breakers / Vacuum Breakers / Power Breakers

New+Vintage+Air Breaker Life Extension retrofit upgrades with AC-PRO relays for better performance, monitoring, and safety.



#### Panel Switches / Panel Distribution Boards

New+Vintage+Life Extension distribution board upgrades and custom rebuilds within the same facility footprint.



#### Transformers

New Available & Custom-built in days/weeks. Dry-Type, Pad-Mount, Substation, Distribution transformers.

[WWW.RSBREAKERS.COM](http://WWW.RSBREAKERS.COM)

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 1-866-980-7376

WE TEST TO ANSI STANDARDS!

MCC Bucket before and after.



required to repair or replace this equipment, and the operational needs to keep systems running efficiently and safely.

RS offers a third option: upgrade and modernize with hybrid life extension solutions.

Instead of tearing out an entire system at once, or assuming that "new" is the only option, RS provides strategic and scalable options. Targeted upgrades have the potential to prolong the lifespan of aging switchgear an additional 20 to 25+ years in many cases. This not only ensures the highest ROI for existing, durable OEM equipment, but it also allows for the integration of new technology for better monitoring and safety. On-site visits and consultations allow RS to create fully customized builds utilizing the same footprint within a facility, lessening downtime and alleviating supply chain woes with its readily available inventory.

#### **MCC LIFE EXTENSION – RETROFIT AND RETROFILL UPGRADES**

Retrofit and retrofill upgrades to MCC wrapper units provide a scalable approach to updating motor control

centres over time. Internal components can be upgraded to newer available products, along with complete turn-key refacing of the entire MCC. RS carries current and legacy MCC buckets of all manufacturers and vintages, as well as being experienced in creating fully customized builds. Integrating smart communications is often possible by installing ethernet capabilities onto the MCC overloads, thereby enabling monitoring from a remote, central platform. "Like-for-Like" replacements of circuit breakers offers peace of mind due to little-to-no modification by using existing cells. Functionality and performance of MCCs can be achieved by upgrading handle operators and mechanisms, along with upgrades to features such as soft starts, VFDs, PLCs, and metres.

#### **AIR BREAKER LIFE EXTENSION – RETROFITS WITH AC-PRO RELAYS**

RS-certified retrofits of OEM Air Breakers with high-quality AC-PRO relays by Utility Relay Company provide a safer, more efficient platform for centralized system monitoring. Universal protection relays offer easy installation and maintenance across a

variety of OEM breakers and vintages. Retrofit conversion kits are available for both AC and DC circuit breakers. It is the most economical option to extend the life of equipment and bring the breaker back to top performance. Enhanced communications allow a universal platform that can be used across a distribution network—regardless of manufacturer or vintage. System protection and safety of personnel can also be managed through features such as Ground Fault and Arc Flash Mitigation. AC-PRO relay retrofits allow engineers to have a standardized trip-curve and only require one test set.

#### **THE RS DIFFERENCE**

In today's world, it is increasingly apparent that not all suppliers are the same. Partnering with a trusted, skilled electrical supply company is a vital asset, and RS understands the importance of added value for its customers. RS is committed to finding creative, adaptive solutions to keep communities running smoothly and safely into the future.

It's all part of the RS difference.

**Care. Support. Guaranteed.** 

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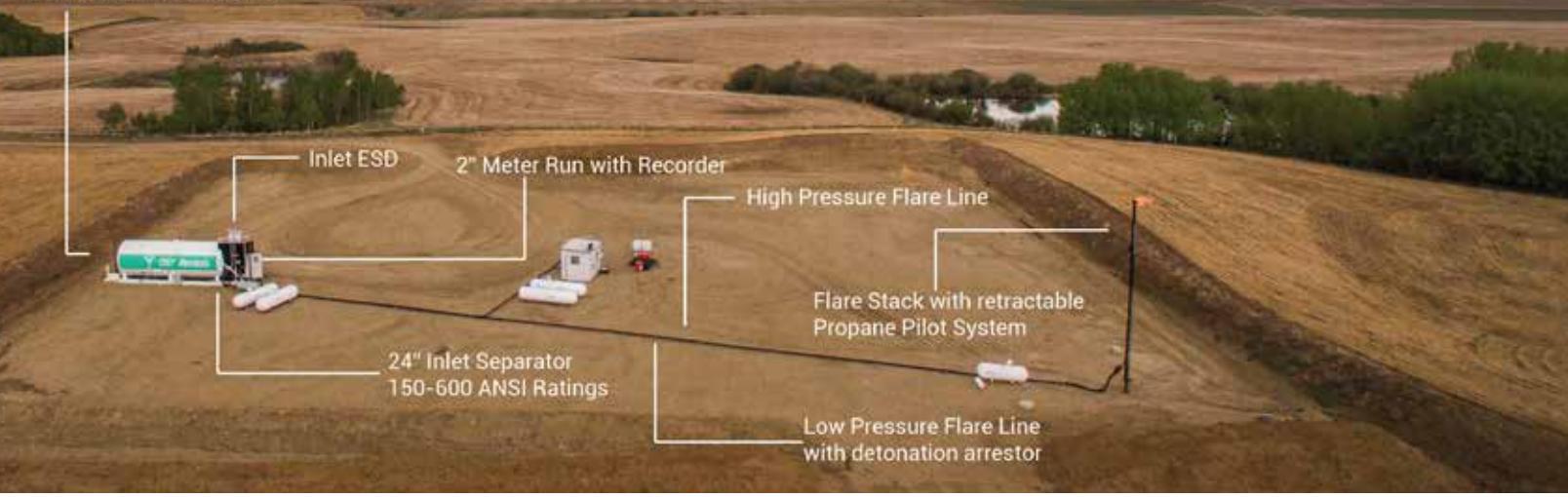


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