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REPORT

2026



Enbridge advances wind energy in the Weyburn area

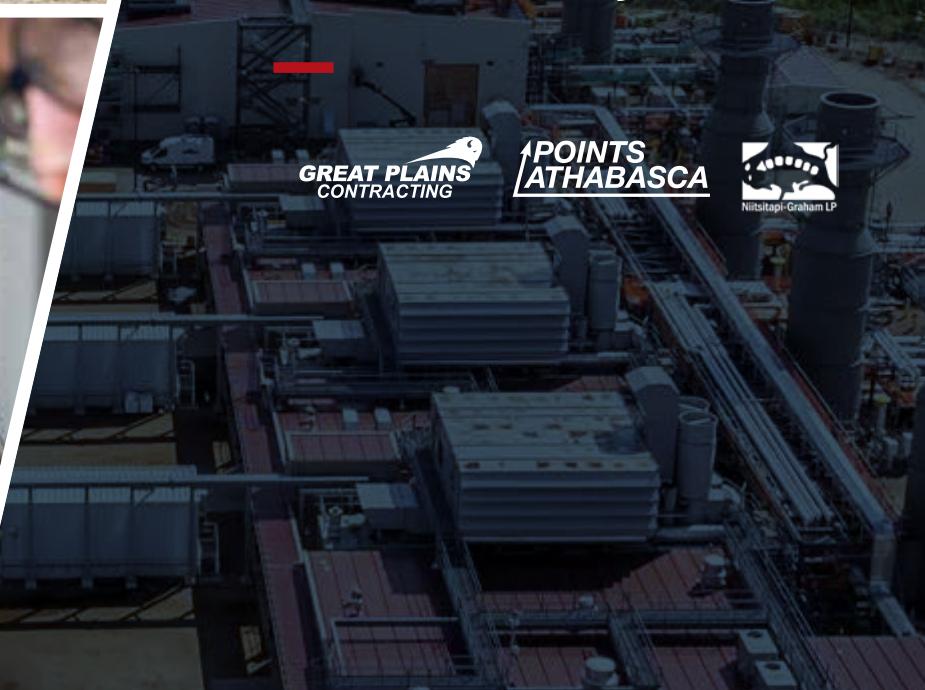
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MESSAGE FROM THE PREMIER OF SASKATCHEWAN

SCOTT MOE



On behalf of the Government of Saskatchewan, thank you for reading this year's edition of the *Saskatchewan Energy Report*.

The oil & gas sector continues to be a major economic engine for Saskatchewan. In 2024, the sector invested \$3.5 billion in exploration and development, produced oil & gas valued at \$13.5 billion and employed over 26,000 people in communities across the province. Our government remains focused on growing the oil & gas sector.

New initiatives, including the Multi-Lateral Oil Well Program and the Low Productivity and Reactivation Oil Well Program, have strengthened an already competitive business climate. Our stable, responsive and outcomes-based regulatory approach improves investment certainty. The Fraser Institute continues to rank Saskatchewan as the best jurisdiction in Canada for energy sector investment competitiveness. Saskatchewan is committed to our Growth Plan goal of 600,000 barrels of oil produced per day by 2030.

Several challenges, some old and some new, have impacted Saskatchewan's energy sector this year. Along with other provincial, territorial and federal counterparts, we have regularly engaged U.S. officials to highlight the mutually beneficial nature of our integrated energy systems. While I expect the U.S. to remain our largest energy sector trading partner, market access and diversification have never been more important.

In February 2025, we announced that all pipeline permits in Saskatchewan will be considered pre-approved. We also recently extended the Oil Infrastructure Investment Program, which supports construction of new oil pipeline capacity. In May 2025, I sent the Strong Saskatchewan, Strong Canada plan to Prime Minister Mark Carney, outlining 10 key policy changes to create a strong Saskatchewan, several that touched on the energy sector. These measures each send an important signal to industry: policy matters.

We are encouraged by several recent actions taken by the federal government, including passing The Building Canada

Act and establishing the Major Projects Office, to streamline projects deemed to be in the national interest. However, to restore investor confidence and unlock the full potential of our oil & gas sector, other federal changes are needed. This includes repealing the proposed oil & gas emissions cap, transferring responsibility for industrial emissions to the provinces, and eliminating impediments to the movement of energy products from coast to coast to coast.

The world needs more sustainably produced Saskatchewan oil, not less. This province is a leader in carbon capture technology and carbon dioxide (CO₂) enhanced oil recovery (EOR), permanently sequestering roughly 50 million tonnes of CO₂ to date and increasing production of low-emissions-intensity oil. Saskatchewan is committed to exploring opportunities to grow CO₂ EOR production. This will require that the federal government finally remove the unnecessary prohibition on CO₂ EOR from their Carbon Capture Utilization and Storage Investment Tax Credit.

The province is also seeing continued development of our heavy oil in northwest Saskatchewan. Several new Steam Assisted Gravity Drainage projects have come online in recent years, with more expected in the near-term. Multi-lateral drilling also presents an enormous opportunity for Saskatchewan's heavy oil reserves.

Finally, the oil & gas sector continues to support other resource development opportunities in Saskatchewan, including helium, lithium and growing interest in hydrogen, which rely on the same skills, data and technologies. The positive impacts of the sector on Saskatchewan people cannot be understated.

Looking ahead, Saskatchewan's oil & gas sector is well-positioned for growth. We are a ready, willing and able partner to help Canada become a world-leading energy superpower. The Government of Saskatchewan is committed to the oil & gas industry, the people and communities that it supports and contributions the sector makes to funding high quality services that citizens expect and deserve, including health care, education and roads. 



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MESSAGE FROM THE SASKATCHEWAN ENERGY MINISTER

COLLEEN YOUNG



Greetings from the Saskatchewan Ministry of Energy and Resources. It's an honour to contribute to another edition of the *Saskatchewan Energy Report*.

Through the latter half of 2025, I spent time visiting resource production sites and processing facilities around Saskatchewan to learn more about the province's strong and diverse energy sector. I toured the Weyburn project, operated by Whitecap Resources Inc., which utilizes captured carbon dioxide for low emissions enhanced oil recovery.

I also toured Steel Reef Infrastructure Corp.'s Viewfield gas processing plant near Stoughton, which now uses methane produced in association with oil in the region for power generation. Last but not least, I had the opportunity to tour Cardinal Energy's ceremonial opening of their Reford Steam-Assisted Gravity Drainage (SAGD) oil project with our Premier Scott Moe. This project will add an additional 6,000 barrels of oil a day to our provinces totals.

These projects are just a few examples of the innovation happening in Saskatchewan's oil & gas sector to help drive future growth. I applaud the leadership of these companies and other efforts to develop new and innovative technologies that will continue to help Saskatchewan supply sustainable energy products to domestic and global markets.

Saskatchewan continues to offer a stable and predictable investment climate for oil & gas development, including several targeted incentive programs that support innovation, value added processing and infrastructure development. I'm proud to say the Government of Saskatchewan remains committed to supporting Saskatchewan's energy sector, along with several emerging opportunities that rely on oil & gas knowledge and expertise, like helium, lithium, and natural hydrogen.

The Multi-Lateral Well Program (MLWP) is now in its second year, and interest continues to grow. Current production from multilateral wells approved under the program is

in excess of 10,000 barrels of oil per day. We hope to see continued strong program uptake and production growth over the winter drilling season. Multi-lateral oil well drilling is an exciting new opportunity that will help the province move closer to its 2030 goal of 600,000 barrels of oil produced per day.

This year, our government launched the Low Productivity and Reactivation Oil Well Program (LPRP). LPRP is a volumetric incentive for companies looking to extend the life of low-producing or inactive horizontal oil wells. I encourage all producers to consider these programs as they plan their investments for the year ahead.

I am also proud to showcase the government's commitment to expand Saskatchewan's pipeline infrastructure, which is critical to getting our energy products to market. This year, we renewed the Oil Infrastructure Investment Program (OIIP) for another four years. This program supports the construction of new oil, natural gas liquids and carbon dioxide pipelines. As more of these infrastructure projects come to fruition, demand for metal fabrication, welders, pipe fitters and other trades people will remain strong.

As our resource sector continues to diversify, our government is committed to supporting this work. That's why we launched new critical minerals incentives to spur innovation and processing in the sector. These incentives, now in their second year of operation, are seeing stable uptake and interest from our industry partners.

Looking to the future of oil & gas in Saskatchewan, I remain optimistic. This industry's skills, knowledge and technological advances have positioned Saskatchewan as the top jurisdiction in Canada in oil & gas sector investment competitiveness. That achievement, coupled with the Government of Saskatchewan's continued support for the sector, can only mean success in the years ahead.

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Saskatchewan's place in Canada's energy superpower ambition



By Lisa Baiton, President & CEO,
Canadian Association of Petroleum Producers

By any measure, Canada is already a global energy heavyweight. As the fourth-largest oil producer and fifth-largest natural gas producer in the world, our nation can become the world's next energy superpower – with Saskatchewan as a key element.

Prime Minister Mark Carney's vision of Canada as a global energy superpower in both conventional and clean energy is both bold and achievable. But to realize this vision, we must recognize and empower the provinces that are already doing the heavy lifting.

Growing up in Swift Current, I have seen firsthand Saskatchewan is a strong yet understated force in Canada's energy landscape.

In 2024, the province produced approximately 500,000 thousand barrels of oil equivalent per day, representing six per cent of Canada's total hydrocarbon output. Notably, 90 per cent of this production came from

conventional oil sources, including light, medium, and heavy grades. This positions Saskatchewan as a critical contributor to Canada's secure, reliable, and exportable energy supply.

Saskatchewan's oil & gas industry is more than a source of energy; it's a cornerstone of the provincial economy. In 2024, it contributed \$11 billion – approximately 13 per cent – of the province's total GDP. It directly employed over 16,000 people and supported an estimated 40,000 jobs when indirect employment is included. These aren't just numbers. They reflect livelihoods, communities, and futures built on responsible resource development.

Moreover, in the last 50 years, Saskatchewan's oil & gas sector has paid over \$45 billion in royalties. In 2024 alone, it contributed \$1.6 billion in royalties and \$0.3 billion in rural municipal property taxes. These revenues fund hospitals, schools,



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infrastructure, and social programs. They are the dividends of responsible development, and they underscore the sector's role as a public good.

The province's oil & gas resource is geographically and geologically diverse. From the Bakken and Torquay formations in the southeast to the Shaunavon and Viking plays in the southwest, and heavy oil-rich Mannville in the west, Saskatchewan's subsurface is a mosaic of opportunity. Technologies like steam-assisted gravity drainage (SAGD) are already being deployed to extract heavy oil in the Lloydminster area, and this area is increasingly important for carbon dioxide enhanced oil recovery (EOR), particularly at Weyburn-Midale. This demonstrates the province's commitment to innovation and environmental stewardship.

But Saskatchewan's value proposition goes beyond barrels. It's a jurisdiction that understands the importance

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of policy alignment, regulatory efficiency, and investment attraction. The Government of Saskatchewan's Growth Plan targets an increase in oil production to 600,000 barrels per day by 2030. Achieving it would bolster Canada's energy security, enhance our export capacity, and grow our role as a dependable global supplier.

To support this ambition, Saskatchewan has introduced a suite of forward-thinking policy tools designed to stimulate private sector investment. The Low Productivity and Reactivation Oil Well Program and the Multi-Lateral Oil Well Program incentivize capital deployment in mature fields. The Saskatchewan Petroleum Innovation Incentive and the Oil and Natural Gas Processing Investment Incentive offer transferable royalty credits for projects that commercialize new

technologies or expand processing capacity. These are precisely the kinds of mechanisms that align with Prime Minister Carney's call for a modern, competitive, and sustainable energy sector.

Yet, challenges remain. Capital expenditures in Saskatchewan's upstream oil & gas sector have declined from a peak of \$6.6 billion in 2014 to \$2.5 billion in 2023. This drop mirrors a broader trend across Canada primarily driven by policy uncertainty, regulatory complexity, and intensifying global competition for energy investment.

If Canada is serious about becoming an energy superpower, Saskatchewan is essential to that ambition.

The province leads in carbon capture technology and is making significant strides in small modular

nuclear reactor technology, which has the potential to redefine low-emission power generation. These advancements can help the country achieve both its economic and climate objectives, aligning economic prosperity with emissions reductions.

Prime Minister Carney's vision is not a pipe dream, but it will only be realized if we unlock the full potential of provinces like Saskatchewan. I know from experience this is a province that produces its resources responsibly, innovates relentlessly, and contributes meaningfully to Canada's economy, environment, and energy future.

When Canada claims its place as a global energy superpower, Saskatchewan will not be on the sidelines. Let's show the world what happens when prairie grit meets global ambition. 



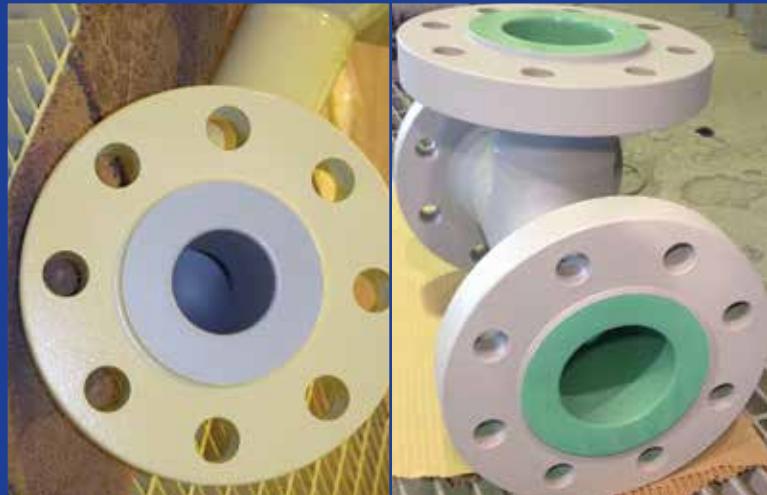
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Saskatchewan Oil & Gas Show 2024: A resounding success, and a look ahead to 2026



The 2024 Saskatchewan Oil & Gas Show once again proved why it's one of the most anticipated energy events in Western Canada. Held in the vibrant city of Weyburn, the show welcomed over 175 exhibitors and more than 4,000 attendees, creating a dynamic hub of innovation, collaboration, and industry pride.

From cutting-edge technologies to insightful keynote speakers, the 2024 show delivered on every front. Elected officials from all levels of government were in attendance, engaging directly with industry leaders and reinforcing the vital role oil & gas continues to play in Canada's economy and energy future.

Last year's keynote speakers brought both gravitas and inspiration. The Right Honorable Stephen J. Harper offered a national perspective on energy and policy, while Tyler Smith – survivor of the Humboldt Broncos bus crash – delivered a moving message of resilience, leadership, and community. Their voices added depth and humanity to the technical and economic conversations taking place throughout the show.

One of the most inspiring highlights? The Saskatchewan Oil & Gas Show Board's commitment to giving back. In 2024,

the board proudly contributed over \$210,000 in community donations – a powerful reminder that this event isn't just about business, but about building stronger communities across the province.

The show also opened its doors to the next generation of energy leaders. Educational tours welcomed school groups from across the region, offering students a hands-on look at the technologies and careers shaping the future of energy. These tours sparked curiosity, inspired ambition, and planted the seeds for tomorrow's innovators.

Networking was at the heart of the event. Whether it was a handshake on the show floor, a conversation over coffee, or a connection made during evening receptions, the opportunities to build relationships and share ideas were everywhere.

Adding to the excitement, a world-class saddle bronc event ran in conjunction with the show, featuring elite horses and riders seen at the National Finals Rodeo in Las Vegas. This high-energy spectacle drew crowds and added a distinctly Western flair to the week's festivities – a celebration of both industry and prairie spirit.

And now, all eyes are on what's next: the Saskatchewan Oil

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Photos on this page capture the energy of the show floor, the buzz of networking events, and the excitement of live demonstrations.

& Gas Show returns June 3 & 4, 2026 – and you won't want to miss it.

With even more exhibitors, expanded programming, and new opportunities to connect, the 2026 show promises to be bigger, bolder, and more impactful than ever.

Exhibitors, take note: registration is now open at www.oilshow.ca! Secure your space early and be part of the momentum that continues to drive Saskatchewan's energy sector forward.

Whether you're a seasoned industry veteran, a policymaker, a student, or simply passionate about the future of energy, the Saskatchewan Oil & Gas Show is where the conversation happens – and where the future begins.

Join us in Weyburn in 2026. We'll see you there! ⚡

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Enbridge advancing wind energy in Weyburn area

Conceptual view of operating turbines.

Seven Stars project will play an important role in driving regional economic growth and development



Enbridge delivers the energy that fuels quality of life, safely connecting millions of people to the energy they rely on every day through our four core businesses – liquids pipelines, natural gas pipelines, gas utilities and storage, and renewable energy.

Our roots run deep in Saskatchewan, all the way back to 1949 when the first pipe was laid for the Enbridge Mainline pipeline network. For the past 75 years, Enbridge has been working collaboratively with our neighbours in southern Saskatchewan. Our people live and

work in the communities where we operate, we have a strong history of responsibly developing projects, and we're proud of our reputation as a good neighbour.

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Enbridge, Indigenous partners and government officials announced the Seven Stars project in 2024.

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Engagement with the community has been robust, leading to a number of enhancements to the project.

tax revenue to build schools, hospitals and roads, stimulates local economies, and provides grants and volunteer labour that strengthens communities.

A good example of this approach is the proposed Seven Stars Energy Project in southern Saskatchewan. Enbridge plans to invest more than \$500 million in the Seven Stars Energy Project. The proposed 46 wind turbines are expected to have a combined

capacity of approximately 200 MW, which, based on average household electricity use in Saskatchewan, could supply the annual energy needs of about 100,000 homes.

This scale of development is expected to create significant and sustained economic benefits for more than 30 years within the Rural Municipality of Weyburn, the Rural Municipality of Griffin, and the City of Weyburn – including employment, contracting

and business opportunities, annual tax revenues, lease payments to landowners, sponsorship of community-driven programs and initiatives, spin-offs from spending locally, and rural road upgrading.

Announced in June 2024, the Seven Stars Energy Project will involve a partnership between Enbridge and Indigenous communities including Cowessess First Nation, George Gordon First Nation, Kahkewistahaw First Nation, Métis Nation-Saskatchewan, Pasqua First Nation and White Bear First Nations, with the First Nation and Métis partners together having the opportunity to acquire at least a 30 per cent interest in the Project. Financial participation of the partners will be supported, in part, by loan guarantees of up to \$100 million from the Saskatchewan Indigenous Investment Finance Corporation.

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Enbridge anticipates having the project up and running by 2028 and is currently working through securing the necessary regulatory and environmental approvals. In November 2025, Enbridge filed separate development permit applications with the RM of Weyburn and RM of Griffin, where the project will be located on privately owned lands.

Local development approvals are required in addition to Provincial environmental approval before project construction could proceed. Enbridge expects to submit its environmental permit application in early 2026 with an expected decision timeline of mid-2026.

COMMUNITY INPUT IMPORTANT

Over the past 16 months, Enbridge has made it a priority to actively listen and respond to feedback from residents and property owners, local businesses and the municipalities. We've also engaged with Indigenous Nations and groups, the Province of Saskatchewan, SaskPower, and other interested parties.

Throughout this time, we have sought to maintain open communication with the goal of building trust and addressing concerns in good faith. While we understand that views on large energy projects like this will typically vary, we remain committed to open communication and collaboration.

This robust engagement activity has led to an innovative wind power development that we believe will help meet Saskatchewan's growing energy needs and aligns with community values and priorities. Since the project

was originally proposed, Enbridge has made a number of enhancements based on public feedback, including:

- Expanding the project land base in areas with fewer residences to maintain a minimum turbine setback of 1,500 metres from residences
- Increasing the number of benefiting landowners in both RMs
- Use of an Aircraft Detection Lighting System and confirming no interference with STARS Air Ambulance operations
- Covering the cost of necessary road upgrades
- Commitments related to decommissioning and reclamation
- Designing the project to meet strict standards for noise and shadow flicker
- Committing to avoid the use of work camps to ensure utilization of local hospitality offerings

- Application of dust control on main delivery routes within the RMs during construction
- Establishing a community investment fund that will be provided annually throughout the life of the project. The RMs will have the opportunity to share their insights and recommendations to ensure funds are allocated where they will deliver the greatest impact.

Enbridge remains excited about the potential of the Seven Stars Energy Project to contribute positively to the province and the Weyburn region over the long term. As we continue to advance the Seven Stars project through the development permit phase, we welcome continued dialogue and look forward to the opportunity to build a project residents of Saskatchewan can be truly proud of. 



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Wicehtowak Solar: How a Saskatchewan First Nation is shaping Canada's clean-energy future

By Lyndon McLean

Canada's path to a low-carbon future is increasingly being built in partnership with Indigenous communities – and in the plains northeast of Regina, a new project is showing just how transformative that collaboration can be. The George Gordon First Nation, working through its wholly owned company Wicehtowak Solar Ltd., is set to build one of Saskatchewan's most ambitious renewable energy projects: a 32.4-megawatt solar farm that will feed clean power into the provincial grid and supply a major industrial customer under a first-of-its-kind arrangement.

The federal government is backing the project with more than \$33 million, announced by Energy and Natural Resources Minister Tim Hodgson in August. The funding comes from the Smart Renewables and Electrification Pathways Program (SREPs), a \$4.5-billion national initiative aimed at strengthening Canada's electricity systems with cleaner, more reliable and more affordable power. Additional support – just over \$432,000 – has flowed from Indigenous Services Canada through its Strategic Partnerships Initiative and Community Opportunity Readiness Program.

For George Gordon First Nation, the Wicehtowak Solar Project represents more than a power plant. It's a

strategic, long-term investment in economic sovereignty, community capacity, and the growing Indigenous clean-energy economy. Equipped with 66,175 bifacial solar photovoltaic panels that capture sunlight from both sides, the facility is designed to generate consistent, emissions-free electricity for decades. Its output will be sold indirectly to K+S Potash Canada under a 30-year power purchase agreement – a structure made possible by SaskPower's Exclusive Franchise Rights waiver, granted in April 2023.

This arrangement is groundbreaking in Saskatchewan, where electricity sales traditionally flow only through SaskPower. By enabling private developers to sell power to industrial customers via the provincial grid, the project is piloting a model that could reshape how large-scale renewables are financed and built in the province. It also gives K+S, one of Saskatchewan's globally significant potash producers, a reliable source of low-carbon electricity to support the long-term future of its operations – operations that are critical to both export earnings and international food security.

Federal ministers are framing the project as a clear example of how Indigenous leadership is accelerating

the clean-energy transition. Hodgson called it a demonstration of what happens "when we work hand in hand with Indigenous communities and the energy sector," emphasizing that such partnerships "get more energy to market, reduce costs to Canadians and businesses and enable Indigenous-led economic opportunities."

Mandy Gull-Masty, Minister of Indigenous Services, echoed that praise, saying George Gordon First Nation is showing what modern Indigenous clean-energy leadership looks like: "smart, forward-thinking and rooted in community." With the Wicehtowak project, she added, collaboration is delivering lower energy costs, job creation and "a cleaner future for everyone."

For the First Nation itself, the project is a milestone in an economic strategy years in the making. Don Ross, CEO of George Gordon Developments Ltd., says the solar farm "represents what's possible when Indigenous leadership and industrial innovation come together." Beyond electricity generation, he stresses, the project will create employment, generate long-term revenue and build capacity that will support future ventures.

SaskPower, for its part, sees the

Mandy Gull-Masty, Minister of Indigenous Services, echoed that praise, saying George Gordon First Nation is showing what modern Indigenous clean-energy leadership looks like: “smart, forward-thinking and rooted in community.”

pilot as a signal that customer expectations are shifting. Industrial buyers want more renewable options and more flexibility in how they secure them. “The RAS shows that SaskPower is evolving to meet these changing needs while supporting economic reconciliation and renewable power development,” says president and CEO Rupen Pandya.

For K+S Potash Canada, the project aligns with its decarbonization strategy. President Sam Farris says Indigenous-led renewable projects like Wicehtowak Solar show how companies can lower emissions while participating in

economic partnerships that benefit local communities. As he put it, “This initiative demonstrates how Indigenous-led renewable projects and strong partnerships can help industries such as ours decarbonize... while providing economic benefits for future generations.”

Taken together, the Wicehtowak Solar Project is more than a clean-energy development: it is a case study in how policy, industrial demand and Indigenous self-determination can intersect to accelerate Canada’s transition to a net-zero electricity grid. It shows the practical value of reconciling energy development

with Indigenous ownership, and the economic upside of bringing new players – and new models – into the power system.

As Canada moves toward its 2035 clean-electricity target, the country will need far more projects like this one: community-driven, commercially viable and grounded in long-term partnership. On the prairie lands of Treaty 4 Territory, the George Gordon First Nation is proving that such projects aren’t just possible – they’re already taking shape under the Saskatchewan sun. 



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Saskatchewan funds growing research and innovation partnership



The Government of Saskatchewan is strengthening the foundation of a unique research partnership that will support energy and mineral research and help make Saskatchewan a global leader in clean energy. The province has committed \$780,000 so far to help establish and support the operations of the Global Institute for Energy, Minerals and Society (GIEMS).

GIEMS is a research and training partnership between Saskatchewan Polytechnic, the University of Regina, and the University of Saskatchewan that began to create a collaborative pipeline of innovation and talent. As a result of Saskatchewan's ongoing international engagement efforts, a memorandum of understanding establishing the collaboration was first announced at COP28 in Dubai in 2023. The partnership aims to promote and align research and innovation in the province's energy and mineral sectors.

"GIEMS is already opening up new opportunities to accelerate research and innovation and train future leaders in these critical sectors," Advanced Education Minister Ken Cheveldayoff said. "This partnership will support our labour market and significantly advance Saskatchewan's Growth Plan goals. It will help position Saskatchewan to be at the forefront of clean energy."

The partnership will play a key role in supporting the transition to clean energy by coordinating research efforts and fostering collaboration between the post-secondary sector, government, industry and Indigenous groups. GIEMS recently hired Executive Director Tom Kishchuk, who is building a team to help coordinate and advance its work. Mr. Kishchuk has extensive experience in the energy sector at the provincial and national levels including leadership roles and board appointments at organizations such as the Sylvia Fedoruk Canadian Centre for Nuclear Innovation.

"GIEMS will unlock the full potential of the people and organizations advancing the province's energy and minerals sectors," Kishchuk said. "By engaging with academia, industry, government, and Indigenous organizations to understand their needs, GIEMS will act as a bridge that

connects ideas, capabilities and opportunities to achieve shared provincial goals."

Through GIEMS, post-secondary researchers will combine resources and share knowledge to help address education and research gaps in energy and mineral sectors. The partnership will also enable them to leverage research grants to continue advancing work in these areas.

"At the University of Regina, we see GIEMS as a powerful catalyst for collaboration and innovation, promoting interdisciplinary perspectives to ensure that social innovations are developed alongside technical solutions," noted Dr. Chris Yost, University of Regina Vice President of Research. "Our researchers are advancing knowledge that supports a more sustainable energy future, while our students gain the experience and skills needed to become future leaders who will drive Saskatchewan's energy and mineral sectors forward."

"GIEMS is developing sustainable solutions that will positively impact both people and the planet," said University of Saskatchewan Vice President of Research Dr. Baljit Singh. "Combining expertise and infrastructure from our three institutions positions GIEMS as a unique pipeline of innovation that will benefit Saskatchewan. The University of Saskatchewan is proud to contribute our research enterprise, infrastructure, and leadership to the advancement of GIEMS."

"GIEMS reflects Sask Polytech's strategic commitment to advancing industry-driven innovation," Saskatchewan Polytechnic Vice-Provost Susan Blum said. "As Saskatchewan's premier institution for applied research, our involvement in the GIEMS partnership ensures that our work-integrated learning programs are directly informed by current and emerging industry needs, helping employers access skilled talent and drive economic growth in the energy and mineral sector."

For more information on GIEMS and its work, visit: www.giems.ca.



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- ▶ Saskatchewan Petroleum Innovation Incentive

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U of R's Energy Systems Engineering Program prepares for first graduates and expands into graduate studies

The University of Regina's Faculty of Engineering and Applied Science is celebrating a major milestone in its newly launched Energy Systems Engineering (ERSE) program. Introduced in Fall 2023, the program welcomed its first cohort of students and is now preparing for its first graduating class in Spring 2026. This marks a significant step forward in the university's commitment to innovative, multidisciplinary education in the energy sector.

The ERSE program offers a Bachelor of Applied Science in Energy Systems Engineering with three distinct options:

- Petroleum Engineering (repurposed from the former Petroleum Systems Engineering program),

- Sustainable Energy Engineering, and

- Energy Transportation and Storage.

Students can choose one option or take electives across all three, gaining a broad and flexible skill set tailored to the evolving energy industry. The final cohort of students from the original Petroleum Systems Engineering program is expected to graduate by Spring 2026 (for co-op and internship students), after which the curriculum will fully transition to the ERSE structure.

This year, the ERSE program is also undergoing accreditation as a new undergraduate offering, further



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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.**

Energy Systems Engineering is a new program that will be included in our next accreditation cycle with our other approved programs.

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.

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.

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
- Doctor of Philosophy (PhD) in Energy Systems Engineering
- Doctor of Philosophy (PhD) in Energy Systems Engineering
- Doctor of Philosophy (PhD) in Energy Systems Engineering
- Master of Applied Science (MASc) in Energy Systems Engineering
- Master of Engineering (MEng) in Energy Systems Engineering
- Master of Engineering (MEng) in Energy Systems Engineering



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 \$14,400 and \$21,100 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.



The program's Sustainable Energy Engineering option covers geothermal, wind, solar, hydro, and nuclear systems, while the Energy Transportation and Storage option includes pipeline integrity maintenance and design, pressure vessel design, energy conversion and storage, and machine learning applications

solidifying its place among Canada's most comprehensive energy-focused engineering programs. Unlike other Canadian programs that focus narrowly on sustainable energy, the U of R's ERSE program integrates petroleum, renewable energy, and energy infrastructure into a single, adaptable curriculum.

In Spring 2025, the university received approval to launch Master's and Doctoral programs in Energy Systems Engineering. The first graduate students began their studies this fall, expanding the program's reach into advanced research and innovation.

Dr. Na (Jenna) Jia, Chair of the Energy Systems Engineering program, emphasized the importance of this transition:

"Our graduates will play a significant role in energy generation, conversion, transportation, and storage, while helping reduce greenhouse gas emissions. The ERSE program supports both the University's strategic climate action goals and Saskatchewan's Growth Plan for a stronger economy and sustainable communities."

The program's Sustainable Energy Engineering option covers geothermal, wind, solar, hydro, and nuclear systems, while the Energy Transportation and Storage option includes pipeline integrity maintenance and design, pressure vessel design, energy conversion and storage, and machine learning applications. The Petroleum Engineering

option continues to offer expertise in oil & gas exploration, enhanced oil recovery, and carbon capture and utilization technologies.

To support hands-on learning, the ERSE program is developing a state-of-the-art undergraduate lab featuring a lab-scale wind turbine, professional photovoltaics trainer, and advanced geothermal and fuel cell systems with simulation capabilities. These facilities will provide students with practical experience in renewable energy systems and energy infrastructure.

The program also benefits from cutting-edge research led by faculty members such as Dr. Arthur Situm, Canada Research Chair in Safety and Licensing. Dr. Situm's work focuses on developing waste management strategies for Small Modular Reactors (SMRs), a promising technology for clean and scalable nuclear energy. His research, supported by federal funding, aligns with the ERSE program's mission to advance sustainable energy solutions for Canada and beyond.

With its unique curriculum, expanding graduate programs, and commitment to sustainability and innovation, the University of Regina's Energy Systems Engineering program is positioning itself as a national leader in energy education. As the first ERSE graduates prepare to enter the workforce in 2026, they will be equipped to lead the transformation of Canada's energy landscape. 

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Williston Basin Petroleum Conference Canada set for spring 2027



The Williston Basin is one of those rarest of assets. A geological formation stretching across the mid-western portions of both the United States and Canada, it's remained an important economic driver for both countries. So much so that the Williston Basin Petroleum Conference – founded from humble beginning over 30 years ago – has flourished as an event that brings together Canadians, Americans, geologists, engineers, entrepreneurs, researchers, and political leaders.

It's not hard to see why. The basin itself is home to so many subsurface commodities beneath three different states (North and South Dakota, Montana) and provinces (Manitoba, Saskatchewan, and Alberta) that the early focus solely on oil & gas has expanded to all kinds of economic opportunities.

The importance of the basin is reflected in the dual nature of the conference, with hosting the event alternating between Regina, Saskatchewan (odd-numbered years) and Bismarck, North Dakota (even-numbered years) with



each host city offering unique sets of adjacent events, workshops, and technical presentations.

In the spring of 2027, the WBPC again returns to Regina, with a renewed commitment to enhanced oil recovery research, plenary/ technical presentations, and important news from regulators, technical experts, and political leaders. The tradeshow also returns, with reasonably priced booths and networking opportunities.

Adjacent workshops, including The Dr. Don Kent Core Workshop offered by the Saskatchewan Geological Society and a planned one-day session on enhanced oil recovery (EOR) technology at the PTRC's Energy Innovation Hub are also in the works.

For more information about WBPC 2027, visit wbpc.ca. Booth and individual registrations begin in late 2026. And follow us for updates as additional news about the conference, including finalized dates and events, become available at our LinkedIn page: <https://www.linkedin.com/showcase/76566819/> 

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Wind-battery and solar: SRC builds a trifecta power generation station for Cowessess First Nation

By Francois Biber

The ebbs and flows of wind bring about some volatility challenges when it comes to power generation, but wind remains a significant source of renewable energy generation. Wind energy, and other renewable sources like solar, rely heavily on weather patterns. This unpredictability can be hard to manage when it comes to renewable energy projects and managing an electricity grid.

This was the challenge the integrated energy systems experts at the Saskatchewan Research Council (SRC) chose to tackle head-on as part of a unique multi-year collaboration with Cowessess First Nation, a Treaty 4 Nation located near Broadview.

In 2006-07, in response to Cowessess First Nation's plan for a wind farm in southern Saskatchewan, SRC conducted a wind resource

assessment for the First Nation. Following that assessment, SRC proposed an alternative renewable energy project that would be the first-of-its-kind in North America, combining wind power and battery backup, later known as a microgrid demonstration.

HARNESSING THE POWER OF PRAIRIE WIND

In 2013, SRC, alongside Cowessess First Nation, trail-blazed a new utility-scale wind-battery microgrid project located four kilometres east of Regina.

The goal for the project was to demonstrate the reliability of renewable energy through this microgrid demonstration and provide Cowessess with a project that would enable them to enter into a power purchase agreement with SaskPower

The Cowessess wind-battery-solar site generates power year-round (Copyright SRC)

and allow them to participate in the renewable sector.

"The 800-kilowatt wind turbine stands 73 metres tall, with the diameter of the blades spanning 53 metres, so altogether from the peak to the ground you're looking at a structure over 100 metres tall," says Ryan Jansen, Manager of SRC's Energy and Process Solutions.

At the base of the towering turbine is a series of lithium-ion batteries with 400 kilowatts of power, and 744 kilowatt-hours of storage.

"This project was the first wind-battery system co-located behind the power meter, and it's been generating power since 2013," Jansen notes.

The microgrid produces approximately 175 megawatt-hours

of energy each month, generating revenue for the First Nation through its agreement with SaskPower. Also, greenhouse gas emissions are reduced by the equivalent of approximately 1,300 tonnes per year. The wind turbine alone generates enough electricity to meet the annual energy requirements of approximately 250 homes.

In 2018, SRC worked with Cowessess on a federal proposal to bolster the Cowessess wind-battery project, adding 1,400 solar panels, taking advantage of the sunny Saskatchewan skies to produce another 500 kilowatts of power and transforming this microgrid into a trifecta power generation station.

"There is no single technology that will bring us into the future of green

energy. It has to be an 'all-of-the-above' solution, and right now I think Saskatchewan's advantage does include wind and solar," Jansen says.

REMOTE MONITORING, TRAINING AND EDUCATION FOR FUTURE MICROGRIDS

Since the microgrid upgrades and the addition of solar panels, the relationship between SRC and Cowessess continues as SRC experts work with the First Nation, offering training and education to individuals to maintain the microgrid. This ensures the First Nation can continue to supply SaskPower with clean, renewable power.

SRC also installed a sophisticated remote monitoring system at the microgrid site, where Jansen and his team can monitor the microgrid,

collecting thousands of data points across the system including the inverters from the solar arrays, the anemometer tower, and the wind turbine, all accessible from SRC headquarters in Saskatoon.

ABOUT SRC'S INTEGRATED ENERGY SYSTEMS SERVICES

SRC's smart-grid and microgrid solutions provide real and practical opportunities that help industries and communities transition to cleaner renewable sources of energy, while promoting energy autonomy and reliability. To learn more about SRC's services and expertise, visit <https://www.src.sk.ca/services/decentralized-energy-solutions>.

This is a condensed version of a longer article. To read the full article, visit src.sk.ca/blog. 

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- CCUS

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- Biofuels and Waste to Energy
- Waste Valorization

► Climate Resilience

- Climate Adaptation Planning
- Data Management Solutions



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For more information, please visit src.sk.ca/energy



Saskatchewan uranium will power a nuclear future

Government releases the Saskatchewan First Energy Security Strategy and Supply Plan

The Saskatchewan First Energy Security Strategy and Supply Plan is the Government of Saskatchewan's path for a reliable and affordable power future placing Saskatchewan at the center of the North American energy grid.

"The Government of Saskatchewan is committed to a nuclear future utilizing our amazing Saskatchewan uranium resource to power our province and provide a secure energy future," Crown Investments Corporation Minister Jeremy Harrison said. "We're going to get to that future by extending the life of our coal facilities and utilizing our Saskatchewan coal reserves that have kept the lights on in this province for generations. This plan is based in reality."

The strategy also lays out a new path going forward on grid reliability and transmission investments.

"The plan places a strategic focus on transmission – both

for intra-provincial and external connections that will provide us the opportunity for export power and give us a great deal of flexibility in building new industries here in Saskatchewan," Harrison said.

SaskPower has partnered with GE-Hitachi on their BWRX-300 small modular reactor (SMR) as the Crown corporation's first SMRs. As work continues to build nuclear and strengthen energy security, in addition to pursuing the BWRX-300 technology, Saskatchewan will continue to consider large-scale reactors and advanced SMRs to meet growing industrial and regional demand for electricity.

"We are pleased to see the provincial government's ongoing commitment to introducing nuclear energy in Saskatchewan," said Cameco CEO Tim Gitzel. "Jurisdictions around the world are turning to nuclear power to address the pressing issues of energy security, national security and

As work continues to build nuclear and strengthen energy security, in addition to pursuing the BWRX-300 technology, Saskatchewan will continue to consider large-scale reactors and advanced SMRs to meet growing industrial and regional demand for electricity.

climate security. Nuclear energy – fueled by Saskatchewan uranium – can provide reliable, carbon-free baseload power to help meet increasing electricity demands into the future.”

As a part of the strategy and supply plan, people and partnerships are an essential component. The provincial government, through its Crown corporations, ministries and agencies, will prioritize Indigenous partnerships, procurement, and training and employment, in the development of electricity projects, while also utilizing building trades and education partners.

“The Saskatchewan First Energy Security and Supply Plan

reflects a new era of partnership – one where First Nations are builders, owners, equity partners, and decision-makers in shaping Saskatchewan’s energy future,” said Sheldon Wuttunee, Saskatchewan First Nations Natural Resource Centre of Excellence President and CEO. “By advancing both provincial and First Nations energy security, it turns reconciliation into action – driving economic growth while protecting the lands and waters that sustain us all.”

Saskatchewan’s Crown corporations are focused on the government’s four strategic priorities for the sector which are affordability, reliability, economic growth and strong fiscal management. 

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Opportunity meets innovation in Estevan



In the heart of southeast Saskatchewan lies a city that's not just keeping pace with the energy transition, it's leading it. Estevan, proudly known as Saskatchewan's Energy City, is a dynamic hub where legacy industries like coal and oil meet cutting-edge technologies. With a bold vision, strategic investments, and a community rooted in resilience, Estevan is emerging as one of Canada's most exciting places to live, work, and invest.

OIL & GAS: A THRIVING BACKBONE

Estevan is Saskatchewan's oil & gas powerhouse. In 2025, the region led the province in Crown land sales, generating millions from exploration leases and licenses. These numbers reflect not only the region's rich petroleum reserves, but also investor confidence in Estevan's infrastructure, workforce, and regulatory environment.

The area is home to advanced oil recovery operations and natural gas processing facilities, leading the charge in oil and gas innovation. These projects exemplify the regions' ability to blend traditional energy production with modern efficiency and environmental responsibility.

COAL: PRESERVING A LEGACY, POWERING THE FUTURE

Coal remains a cornerstone of Estevan's energy identity, with its coal-fired power plants supplying a significant share of Saskatchewan's electricity. Estevan is home to the world's first power station to successfully deploy Carbon Capture and Storage technology, which – after a decade of operation – has prevented millions of tonnes of CO₂ from

entering the atmosphere. The CO₂ has been repurposed for enhanced oil recovery in the region, demonstrating a commitment to innovation and practical solutions. This milestone shows that modernized coal infrastructure can meet today's challenges while continuing to provide reliable baseload power.

Estevan's energy portfolio is rapidly expanding, with the community selected as the site of Saskatchewan's first Small Modular Reactors. SaskPower's partnership with GE-Hitachi reflects a long-term commitment to advancing nuclear energy in Saskatchewan in support of grid reliability and strategic transmission investments. This nuclear future also prioritizes Indigenous partnerships, training, and employment opportunities – both during construction and throughout the operational life of the SMRs.

This nuclear future showcases a shift from traditional coal-fired power, but it has been planned with a long-term, responsible, transition in mind. Rather than replacing the region's identity, it builds on more than a century of energy expertise, ensuring that the skills, knowledge, and workforce of Southeast Saskatchewan continue to play a central role in powering the province.

During this transition, the Saskatchewan government has committed to refurbishing Estevan's coal-fired power plants, safeguarding energy security and preserving hundreds of local jobs. This refurbishment provides a chance to innovate, while serving as a bridge to



10 Reasons To Do Business in Estevan

1**Strong Community**

Estevan sits in the heart of the Bakken Formation, rich in oil, coal, and natural gas with growing renewable energy potential. These abundant resources create strong opportunities for businesses in energy and mining.

2**Transportation and Distribution**

As the commercial hub of Southeast Saskatchewan, Estevan connects easily to major North American markets. With access to key highways, CPKC rail, and CANPASS airport services, the city is ideal for transportation and logistics.

3**Investment Opportunities**

Estevan's economic initiatives make it attractive for business expansion and relocation. Companies benefit from tax exemptions and abatements that encourage growth and modernization.

4**Supportive Infrastructure**

Estevan's modern infrastructure provides reliable water, utilities, and digital connectivity. A revitalized downtown and strong transport links give businesses the foundation to grow confidently.

5**Business-Friendly Environment**

Forward-thinking policies and competitive tax rates make Estevan welcoming to entrepreneurs. The city's economic development team provides hands-on support for new and growing businesses.

6**Evolving Industries**

Estevan is advancing energy innovation through projects like lignite-to-graphite and coal-to-hydrogen. These initiatives are driving the transition toward sustainable industrial growth.

7**Supportive Business Networks**

Estevan's active Chamber, Economic Development Board, and regional partners foster collaboration and mentorship. Together, they help businesses at every stage of development succeed.

8**Available Workforce and Skilled Labour**

Estevan offers a skilled workforce in energy, mining, and emerging industries. Local post-secondary training ensures employers have access to ready, qualified talent.

9**Real Estate**

The city provides affordable, fully serviced industrial and commercial lots for sale or lease. These spaces make expansion simple for companies of any size.

10**Quality of Life**

Estevan blends small-city charm with big-city amenities, from recreation to cultural events. With low living costs and a welcoming spirit, it's a great place to live, work, and invest.

Saskatchewan's nuclear future. The investment ensures Estevan continues to fill power generation gaps, sustains the local economy, and protects local jobs until nuclear comes online.

While coal is sticking around for power production, it's also evolving. Estevan is pioneering a lignite-to-graphite project that converts lignite coal into high-performance graphite, a critical material for electric vehicle batteries and advanced manufacturing. With global supply chains ever changing overseas, Estevan is in the process of offering a North American alternative. Research partnerships with leading universities and industry players are accelerating commercialization, while hydrogen production from lignite adds another layer of opportunity for industry.

RENEWABLES

Estevan is advancing renewable energy through projects like the Turning Sun Solar Project, a 100 MW facility southwest of the city that will power thousands of homes under a long-term agreement with SaskPower. Combined with wind potential and geothermal prospects, these

initiatives position Estevan as a leader in clean energy development. Water security from Boundary and Rafferty Reservoirs further strengthens Estevan's suitability for large-scale energy projects.

WHY ESTEVAN

Estevan offers world-class infrastructure, a skilled workforce, and competitive business incentives. Investors can access up to three years of municipal tax exemption, plus additional incentives for sectors like renewable energy, manufacturing, and agri-value processing. The city's commercial and residential tax rates are competitive in the province, and its strategic location near the U.S. border ensures seamless access to North American markets.

Estevan is resilient in managing legacy energy industries as well as transition. Its cohesion, skills and assets are key advantages for investors. Estevan is not just adapting; it's setting the pace for Canada's energy transformation. For investors seeking a foothold in a future-focused energy economy, Estevan is more than a city – it's where opportunity meets innovation. 



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 **OPTI OPTRAFFIC**

Saskatchewan Research Council and REAlloys sign historic rare earth partnership agreements, advancing North American independence in rare earths and positioning the province as a global critical minerals hub



The Government of Saskatchewan and the Saskatchewan Research Council (SRC) signed a suite of historic contracts with REAlloys Inc. (REA) in December, reinforcing Saskatchewan's leadership in establishing the first fully integrated rare earth supply chain in North America.

This partnership between SRC and REA is anchored by a five-year offtake agreement under which REA will purchase the vast majority of annual production of Neodymium-Praseodymium (NdPr) metal and Dysprosium (Dy) and Terbium (Tb) oxides from SRC's Rare Earth Processing Facility in Saskatoon. The agreement will deliver strong commercial returns to SRC and the people of Saskatchewan while enabling REA to meet regulatory compliance in its delivery of rare earth metals to its U.S. defence industrial base clients.

In addition to the offtake agreement, REA has partnered with SRC to conduct a feasibility study for a large-scale rare earth processing, separation and metallization complex in Saskatoon. The large-scale facility would be one of the largest and most advanced in the world and would further solidify Saskatchewan as a global hub for rare earth technology

development, material production and midstream processing capabilities, with the potential to bring hundreds of high-quality jobs to Saskatoon.

"This historic agreement confirms that companies around the world recognize the value of doing business in Saskatchewan and reinforces our province's growing position as a world-leading rare earth hub," said Warren Kaeding, Minister Responsible for SRC. "The Government of Saskatchewan remains committed to advancing critical minerals development, attracting private-sector investment, and strengthening North American supply chain independence in this globally strategic sector."

SRC's Rare Earth Processing Facility will be North America's first fully integrated, commercial-scale rare earth processing and metals facility when fully operational in early 2027. It's designed with monazite processing, state-of-the-art AI-controlled rare earth element (REE) separation, and metal smelting capabilities – anchoring a complete supply chain.

Once in full operation, SRC's facility will produce 400 tonnes of high-purity NdPr metal per year – increasing to 600 tonnes per year

– along with significant quantities of Dy and Tb oxides and metals. REA will purchase most of this output, providing a stable, long-term anchor customer for the facility. The remaining production output will be available to other domestic and international customers, supporting broader market development and diversification opportunities

"One of the core goals of SRC's processing facility has always been to help build a rare earth supply chain in North America," noted SRC President and CEO Mike Crabtree. "By developing our own solvent extraction and metal smelting technology – and now securing a major offtake partner – Saskatchewan is demonstrating real leadership in building a resilient and strategically vital supply chain."

"These agreements position REAlloys as the only fully integrated rare earth platform in the Western Hemisphere capable of advancing light and heavy rare earth metals at commercial scale on an accelerated timeline," REAlloys CEO and Founder Lipi Sternheim said. "By aligning Canadian innovation with U.S. defence needs, we are strengthening the security of the Western world and building the first scalable alternative to China's rare earth dominance." A small, stylized lightning bolt icon, consisting of a dark blue or black shape with a white or light blue outline, positioned at the end of the quote.

PTI Transformers carbon-reduced power transformers

PTI Transformers (PTI) is proud to have been the first North American power transformer manufacturer to offer Bluemint® steel in our transformers! Each Bluemint® transformer is produced using the Bluemint® Powercore® electrical steel, produced by Thyssenkrupp Electrical Steel GmbH (TKES) and manufactured into transformer cores by our local core partner, JFE Shoji Canada (JFE), out of Burlington, Ontario.

Each transformer manufactured with Bluemint® Powercore® offers a 1.9X reduction of CO₂ based on the weight of the core, compared to conventional electrical steel. This represents an approximate 50 per cent reduction of CO₂ in each core and 10 per cent in each power transformer.

PTI Transformers has committed to over 4.2 million pounds of Bluemint® Powercore® in our power transformers through 2025. Each Bluemint® Powercore® transformer delivered will come with a carbon reduction certificate.

WHAT IS BLUEMINT® POWERCORE® STEEL?

The electrical steel has the same properties and performance as traditional electrical steel but uses hydrogen in its blast furnaces and direct reduction plants versus traditional coal.

ABOUT PTI

Established in 1989, PTI Transformers is a North American leader in transformer technology with plants in Regina, Saskatchewan (distribution and small power transformers up to 40MVA and 138kV), and Winnipeg, Manitoba (medium and large power transformers up to 600MVA and 525kV). PTI also has a dedicated Field Service team and a distribution transformer Service Centre.

PTI Transformers is adding 90,000 square feet of power transformer manufacturing capacity to the Regina location with dedicated vapour phase drying technologies, isolated and environment-controlled testing laboratory and a climate-controlled winding room. This expansion is scheduled for completion in November 2026!

ABOUT JFE SHOJI CANADA

JFE Shoji Power Canada (formerly Cogent Power Inc.) has been a leader in processing electrical steel for utility transformers for more than 50 years. Our manufacturing company has been in Burlington, Ontario since the beginning. We are today, the largest supplier of materials and core components for power and distribution transformers in North America. JFE Shoji Power Canada is very committed to the needs of PTI Transformers for a resilient supply of carbon reduced materials, and our society's need for clean electrical energy.

ABOUT THYSSENKRUPP ELECTRICAL STEEL GMBH

As one of the leading companies worldwide our Business Unit Electrical Steel produce and sell powercore®, a complete range of high-quality grain oriented electrical steel products.

The use of Electrical Steel's innovative high-tech powercore® C and powercore®H electrical steels in distribution and power transformers goes a long way towards minimizing core loss in the transmission and distribution of electrical energy. Our powercore® material makes a significant contribution to protecting the environment throughout the world and to the sustainability of energy resources. 

CARBON REDUCTION CALCULATOR

Weight of Core (lbs)	x	1.9 (CO ₂ reduction)	=	Total transformer CO ₂ reduction
i.e. 50,000 lbs	x	1.9	=	95,000 lbs CO ₂ reduction



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West End Radiators' mobile technicians repair a back-up generator heat exchanger on-site at a compressor station in Saskatchewan.



A clogged and corroded back-up generator heat exchanger – the kind of issue West End Rad's custom-manufactured aluminum coolant reservoirs are designed to prevent.

Three reasons why your compressor station's generator is leaking

When a back-up generator's heat exchanger fails, oil & gas operations are suddenly at risk. From potash mines to open pit, reliable power is critical for production and team safety.

West End Radiators (West End Rad | WER) – a Manitoba-based heat exchanger repair, rebuild and manufacturing shop – specializes in repairing cooling systems for all oil & gas OEMs, including CAT, Cummins, Onan, Detroit, and Perkins.

With 65 years of experience repairing heat exchangers for oil & gas equipment and compressor station generators, they have a thing or two to share.

So we asked West End Rad's Director of Plant Operations & Co-Owner Justin Feeleus to share the three most common reasons heat exchangers in oil & gas back-up

generators start to fail. Here's what he had to say.

REASON 1: LACK OF GENERATOR USE

Because back-up generators (often referred to as gensets) are designed to protect operations during unpredictable outages, they often sit unused for long periods of time. Ironically, not running your backup generator is actually one of the leading causes of heat exchanger leaks.

Why? Because when a genset isn't run regularly, coolant sits inside the system instead of circulating throughout it. When the coolant stays in the same spot, it can quickly corrode internal metal surfaces in the heat exchanger.

"By the time an oil & gas site needs emergency power, the heat exchanger may already be weakened and

susceptible to cracking and leaking from lack of use," says Feeleus.

West End Rad's shop technicians recommend running your backup generator for at least 30 minutes every month to confirm everything's working as it should.

REASON 2: INTERNAL RUSTING

The metals inside a heat exchanger are constantly exposed to coolant, air, and fluctuating temperatures. Unfortunately, this creates the perfect environment for rust.

Over time, small amounts of oxygen and moisture can get trapped in the cooling system and react with metal surfaces, forming rust. Once rust starts, it quickly eats away at the metal inside of the generator's heat exchanger.

"Rust is one of those things you don't see until it's too late," Feeleus says. "By

the time we open the unit, the damage is already done on the inside."

Even minor rust buildup can cause the generator to run hotter, potentially pushing its heat exchanger past its limits.

REASON 3: CONTAMINATION FROM IMPROPER FLUID LEVELS

Maintaining the correct coolant level is one of the simplest ways to protect a generator's heat exchanger.

Low coolant exposes parts of the heat exchanger to air instead of fluid. This creates two problems. First, those exposed surfaces begin to oxidize much faster. And second, air pockets reduce the system's ability to transfer heat.

On the other hand, overfilling the system can create excessive pressure as the coolant heats and expands. That

pressure forces stress onto the heat exchanger tanks and core, increasing the risk of cracks and leaks.

"This is a perfect example of why back-up generators need custom-built heat exchangers," Feeleus says. "OEM parts can work for light or moderate conditions, but backup generators operate at a completely different level."

WEST END RADIATOR'S SOLUTION: CUSTOM ALUMINUM COOLANT RESERVOIRS

Luckily, West End Rad has a long-term, cost-effective fix. Custom aluminum coolant reservoirs. The company manufactures these at their Winnipeg plant.

"These reservoirs not only solve existing leaks, but help prevent future failures caused by rust, contamination, or long periods of

inactivity," notes Feeleus.

WER starts by visiting your site to take precise measurements of the existing heat exchanger, ensuring the new components fit exactly as they should.

Using those measurements, their team manufactures a custom reservoir and returns to install it along with a new heat exchanger core as needed.

DEALING WITH A LEAKING BACKUP GENERATOR?

If your business is experiencing issues with your on-site generator's cooling system, WER's safety-certified mobile service technicians can come to your site to assess your heat exchanger.

West End Radiators services heavy-duty industries across Canada.

Learn more on their website westendrad.ca.



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SeeLeveL by Garnet Instruments: Precision measurement built for Canada's energy sector



From left to right: SeeLeveL Flair 808-BT3; SeeLeveL Octane 812; and SeeLeveL Sender Bar 810-TX.

In Alberta's energy sector, precision is not a luxury – it's a requirement. From upstream production to downstream transport, accurate liquid level measurement underpins safety, regulatory compliance, and operational efficiency. For more than 30 years, Garnet Instruments Ltd., based in Sherwood Park, Alberta, has been quietly helping the industry meet those demands with rugged, reliable instrumentation designed for real-world conditions.

Founded in 1993, Garnet Instruments emerged with a clear purpose: to engineer dependable digital fluid measurement systems capable of performing in harsh industrial environments. Its early innovation, the SeeLeveL™ tank truck gauge, marked a turning point for oilfield transport operations by providing continuous, accurate liquid level readings – replacing estimation with data. The

result was improved safety, reduced risk of overfills, and better operational decision-making for fleet operators across Western Canada.

ENGINEERING WITH THE OPERATOR IN MIND

What sets Garnet apart is its integrated approach to product development. Engineering, manufacturing, testing, and customer support are closely aligned, allowing the company to respond quickly to evolving industry needs. This structure has enabled Garnet to expand beyond its original transport focus into overfill protection systems and monitoring solutions used in marine, wastewater, and recreational vehicle applications.

Despite this diversification, energy transport remains a core strength. Garnet's systems are designed not just to function, but to endure – a critical consideration for Alberta operators

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- Built-in alarm outputs for overfill protection.
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MODERNIZING TRANSPORT MEASUREMENT

As Alberta's energy logistics grow more complex, instrumentation must keep pace with advances in connectivity, data management, and compliance reporting. Garnet's latest transport product updates reflect this shift.

The upcoming SeeLeveL Flair™ Model 808-BT3, scheduled for release in second quarter 2026, represents the next generation of dual-compartment tank monitoring. With built-in Bluetooth connectivity and enhanced data logging, the system supports remote configuration and diagnostics – reducing downtime and simplifying fleet maintenance.

For multi-compartment vehicles, the SeeLeveL Octane™ Model 812 provides expanded functionality, including

programmable alarms, temperature monitoring, and integrated communications. These features give operators greater visibility into tank conditions during transport, improving safety and logistical efficiency.

Garnet has also focused on strengthening the foundation of its systems with the introduction of the Model 810-TX Sender Bar to deliver improved accuracy and introduce field-replaceable battery modules, minimizing service interruptions. Intrinsically safe fiber-optic connections ensure reliable operation in hazardous environments – a key consideration for energy transport across the province.

AN ALBERTA COMPANY WITH GLOBAL REACH

While rooted in Alberta, Garnet Instruments operates on a global stage, with U.S. operations in Texas and European sales support serving international markets. This global

reach is grounded in Alberta-based engineering expertise – a model that reflects the province's broader role as a supplier of energy technology and innovation.

As Alberta's energy sector navigates regulatory evolution, infrastructure expansion, and ongoing market uncertainty, dependable measurement systems will remain essential. Garnet Instruments' continued investment in practical, operator-focused innovation demonstrates how Alberta companies can support safer, more efficient energy operations – not through headline-grabbing disruption, but through steady, measurable improvement.

In an industry where every litre matters, precision makes the difference. Garnet Instruments Ltd. continues to prove that Alberta-built solutions belong at the center of the energy conversation. 



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Cardinal Energy Ltd. hosts Reford SAGD project ribbon-cutting ceremony with Saskatchewan Premier Scott Moe



Delegates left to right: Kim Gartner (MLA), Tim McPike (Propak), James Thorsteinson (MLA), Scott Moe (Premier of Saskatchewan), Scott Ratushny (Cardinal), Heath Williamson (Cardinal), College Young (Saskatchewan Energy & Resources Minister), Jeremy Stauth (Propak), and Conrad Metz (Cardinal).

In October, Cardinal Energy Ltd. announced the ceremonial opening of their Reford Steam-assisted Gravity Drainage (SAGD) oil project in Southwest Saskatchewan. To celebrate this significant milestone for the company and the province, Cardinal hosted a ribbon-cutting ceremony that included Saskatchewan Premier Scott Moe, Saskatchewan Minister of Energy and Resources Colleen Young, and several key partners who were instrumental in the planning, regulatory process, construction, commissioning and operation of this new 6,000 bbl/d project.

Cardinal announced in September that construction of the project was brought in ahead of schedule and on budget and that they'd commenced injecting steam into it on August 21, 2025.

Developing a new thermal fairway in

Saskatchewan is expected to bring long-term benefits to Cardinal, its shareholders and stakeholders, and the local community and to demonstrate the compelling investment destination that Saskatchewan is. The project has already added direct job opportunities, elevated economic activity for ancillary services provided in the local community and will generate decades of meaningful and predictable royalty revenue for the Province of Saskatchewan.

"This project highlights the leadership that western Canadian companies bring to the energy sector," Premier Scott Moe said. "Investments like this strengthen our economy, ensure Saskatchewan remains a dependable source of sustainable and responsibly produced energy, and support our goal of producing 600,000 barrels of oil per day by 2030."

"By advancing new projects and growing production, Cardinal Energy is helping to ensure that our province remains a dependable source of sustainable and responsibly produced energy for decades to come," noted Minister Colleen Young.

Scott Ratushny, Cardinal's Chairman & CEO, thanked the Premier and the Saskatchewan government for delivering a supportive regulatory and business environment that enabled us to complete this project on time and on budget.

"The constructive engagement that the government extended to our company gives Saskatchewan a clear competitive advantage in developing projects like Reford," he said. "We look forward to announcing the completion of additional projects in the future."

For Cardinal and its shareholders, the Reford SAGD project represents an exciting step change in production, cash flow, and corporate break-even costs that offers distinguished upside at mid-cycle oil prices, while also better insulating the company in challenging oil price environments. The company's growing inventory of Saskatchewan thermal projects are poised to further enhance Cardinal's long-term outlook.

In the first quarter of 2026, Cardinal expects production to average between 26,500 to 27,500 boe/d versus current production of approximately 20,600 boe/d, an approximate 30 per cent increase to start 2026. 

Parts you trust, service you rely on

In Western Canada's energy sector, operational reliability is essential. Facilities need partners who can keep equipment performing, schedules on track, and downtime minimized. That's where Surepoint delivers.

Proudly employee-owned and recognized as a CCIB Certified Indigenous Business, Surepoint provides integrated solutions supporting construction, commissioning, inspection, automation, and gas compression services. With a multidisciplinary team working across Western Canada, Surepoint responds quickly where their clients need assistance most.

ELECTRICAL & INSTRUMENTATION

Surepoint's E&I services support new construction, maintenance, and turnaround work. Field crews

provide commissioning, inspections, troubleshooting, and project management to keep systems safe and compliant. The E&I Sales division supplies advanced instrumentation, field devices, and control panels to improve accuracy and efficiency.

AUTOMATION

As operations modernize, automation drives performance. Surepoint provides SCADA, PLC programming, and system integration, enabling real-time visibility and smarter decision-making. Remote monitoring reduces unplanned service calls and improves safety across the field.

MEASUREMENT

Measurement accuracy supports regulatory compliance and production accounting. Surepoint's specialists deliver inspections, verification,

and audit support to ensure clients can trust their data and optimize performance.

GAS COMPRESSION SOLUTIONS

Downtime on compressors, engines, and generators can be costly. Surepoint offers parts distribution, rentals, and sales backed by technical expertise, helping operators maintain reliable power and performance.

As an employee-owned company, pride of ownership drives safety, accountability, and customer-focused service. Across electrical, instrumentation, automation, measurement, and gas compression, the message remains clear:

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TRANSFORMING INNOVATION

POWER TRANSFORMERS

PTI Transformers is one of North America's leading manufacturers of transformer technology. Our facilities can produce transformers up to 600MVA and 525kV. In collaboration with TKES and JFE, we have produced the first carbon-reduced transformer in North America for SaskPower using bluemint steel.

All transformer design and engineering is completed in-house and our decades of experience help us to provide solutions that meet and exceed the most stringent customer specifications. PTI Transformers uses numerous software applications to verify the designs and simulate field conditions.

FIELD SERVICES

PTI Transformers provides a comprehensive range of services for transformers including installation, maintenance, testing, refurbishment and disposal. Our team of transformer experts is fully trained and has the required safety qualifications and certifications necessary to carry out your project.

The service division can carry out on-site inspections, diagnostics and maintenance activities in addition to on-site refurbishment and repair work whenever possible.



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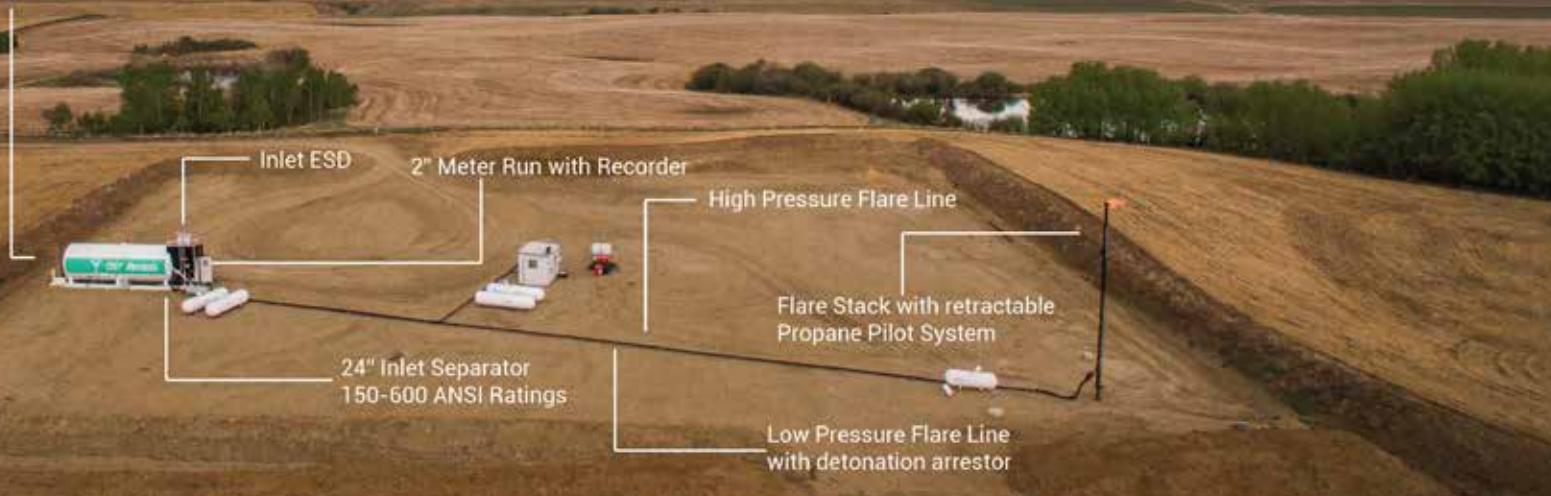


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