

Plain & Valley

November 2022 • Page 29

Covering Southeast Saskatchewan and Southwest Manitoba



Nutrien's Scissors Creek site

Potash prices have tripled from last year, and production is up: Sask Potash mines bringing in billions more

BY KEVIN WEEDMARK

With potash prices soaring and capacity increasing, Saskatchewan's potash industry, including the two largest potash mines in the world—Nutrien Rocanville and Mosaic Esterhazy—are bringing in billions more in potash sales than a year ago.

The potash sector in Saskatchewan hit all-time record highs in 2021, with production reaching 14.2 million tonnes K₂O and the value of sales hitting \$7.6 billion.

With the Russian invasion of Ukraine and subsequent sanctions against Russia and Belarus, the price of potash has more than tripled this year from last year—from \$245.95 a tonne in May of 2021 to \$749.27 a tonne in September, 2022. The potash price soared from \$278.79 in January of this year to \$498.27 in February to \$712.42 in March, and has remained elevated, and on an upward trend, since then.

With the higher prices, potash producers are ramping up production.

Nutrien will be ramping up annual potash production capability to 18 million

tonnes by 2025, up 5.0 million tonnes, or 40 per cent, compared to 2020.

Mosaic is also taking steps to increase its annual potash capacity by a further 1.5 million tonnes at the Esterhazy K3 operation and the Colonsay mine.

"In 2021, we produced five million metric tonnes at the Rocanville site," said BJ Arnold of Nutrien. "The site currently runs at capacity and our production will be similar for 2022 and through to 2025."

The five million tonnes produced at Nutrien Rocanville in 2021 is more than a third of total production in Saskatchewan last year.

Mosaic's K3 mine continues to ramp up production.

"The K3 is mine designed to provide annual production of 6 million product tonnes," according to Mosaic. "This means moving 17-19 million tonnes of ore per year from K3, which is conveyed to the K1 and K2 mills for processing"

"We have hoisted more than 11.5 million tonnes this year, with two-thirds of that being cut in autonomous mode, and

we continue to increase production."

Saskatchewan is the largest potash producer in the world and the sole producer in Canada, typically accounting for about 30 per cent of global potash production. Over the last 15 years, the potash industry has committed approximately \$30 billion of investment for new mines and expansions.

While Nutrien says it plans to increase potash production capability by nearly one million tonnes across its Saskatchewan mines in 2022, it also says it is looking at long term plans

"Nutrien is responding to this period of unprecedented market uncertainty by safely expanding potash production to help provide our customers with the crop inputs they need. We continue to closely monitor market conditions and will evolve our long-term plans to ensure we utilize our assets in a safe and sustainable manner that benefits all our stakeholders," said Ken Seitz, Nutrien's Interim President and CEO.

Nutrien's 2022 potash production is ex-

pected to increase by nearly 20 per cent compared to 2020 and account for more than 70 per cent of global production added over this period.

Nutrien says it "continues to evaluate additional low-cost brownfield (existing mine) expansion opportunities at its Saskatchewan mines that would supply longer-term market demand growth."

Elsewhere in the province, K+S Potash plans to increase production to 4.0 million tonnes per year over the next few decades at their Bethune facility and BHP is looking to accelerate the timeframe for the construction of its \$12 billion Jansen project, the largest investment in Saskatchewan's history.

Saskatchewan's potash sector accounts for approximately 11 per cent of provincial GDP and supports roughly 6,000 direct and indirect jobs.

The Saskatchewan potash sector accounts for about 30 per cent of world production, which comes from ten mines operated in the province by Nutrien, Mosaic, and K+S Potash.

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Saskatchewan adjusts potash royalties for 2023

Millions of farmers around the world depend on potash, and Saskatchewan is the world's largest potash producer, followed by Russia and Belarus. As the sole producer in Canada, the Saskatchewan potash sector accounts for about 30 percent of global production.

Production in the Saskatchewan potash sector hit all-time record highs in 2021, reaching 14.2 million tonnes and sales hitting \$7.6 billion. Despite this achievement, Saskatchewan potash production is expected to grow even more in 2022. Potash has become "geopolitically essential" internationally following Russia's invasion of Ukraine, according to Canadian Finance Minister Chrystia Freeland. In response to increasing global demand and growing concerns about food security, the Saskatchewan government has pledged to ramp up potash production to fill any market gaps left as a result of the sanctions placed on Russia and Belarus.

In light of this commitment, on September 15, 2022, the Saskatchewan legislature introduced The Subsurface Mineral Royalty Amendment Regulations, 2022, and The Potash Production Tax Amendment Regulations, 2022. These new amendments amend The Crown Minerals Act, The Subsurface Mineral Royalty Regulations, 2017 and The Mineral Taxation Act, 1983. Combined, these new amendments reduce the amount of royalties payable on potash production for eligible new mines.

In order to qualify as a new mine under the amendments, a potash mine must begin commercial production on or after January 1, 2023, and



The Nutrien Scissors Creek site.

achieve an initial annual production capacity of over two million tonnes. Eligible new mines will receive reduced royalty payments for a period of 36 months, subject to prior written approval by the Minister of Energy and Resources.

The royalty reduction will be determined on an annual basis, with the specific amount calculated for individual potash producers according to (a) the overall quantity of potash they produced in the year (in K2O tonnes), and (b) the average price of potash received by the producer in the year.

The amendments will come into force on January 1, 2023.

Overall, these amendments represent the Saskatchewan government's

continued commitment to encouraging investment into the province's robust potash-mining industry. The incoming royalty regime will have potash producers enjoying a lighter royalty burden on new mining investments in the province.

One of the objectives identified in Saskatchewan's

Growth Plan, published in 2019, was to increase the annual value of potash sales to \$9 billion by 2030. With the already record-breaking performance of the potash sector bolstered by these newly announced legislative changes, Saskatchewan is positioned to achieve this objective well before 2030.



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Coach of all-female mine rescue team wants to empower women

BY SIERRA D'SOUZA BUTTS
LOCAL JOURNALISM INITIATIVE REPORTER

Co-founder and managing director of Diamonds in the Rough, Kari Lentowicz, said the reason behind creating the all-female mine rescue team was to encourage and showcase the talent women in the field have.

"I'm hoping young women can see that they can do jobs like these too," Lentowicz said.

"In order to visualize yourself in a position, you need mentorship and you need to see people who look like you in that role.

"We just want to go and show people on a world stage that we were competent at doing it. That it wasn't just a job for big burly men because the mining industry is no longer an industry of 350 pound men slamming a pickaxe, there's a lot of smaller stature men now who can do it too, so why can't we?"

Lentowicz has been working in the mining industry for about 20 years. She said it was not until 2016 that she saw a female captain attend one of the International Mines Rescue competitions.

"When I started up at one of the mine sites in a permanent position, I joined mine rescue right away which was in 2006," said Lentowicz.

"I love helping people and one of the benefits to me was knowing that if something happened, I could help and be trained to do so. Also knowing that the people I was training with were competent and would have my back was another reason.

"In 2007, my coach, myself, and my provincial mine rescue co-ordinator spoke about how wonderful it would be to have an all-female team.

"We had enough people at the site that I worked at, but it just never worked out. It was something we talked about over the years. Then in 2016, we saw the first female captain at the International Mines Rescue Competition in Sudbury, Ontario.

"Now that they're willing to put women in that leadership role, (we thought) maybe there is something that we can do.

"Over the course of the next couple years, we figured if we could get some interest, then we could form a team and we did. We found a whole bunch of women who were willing to take a chance and join the team we formed, Diamonds in the Rough."

The first competition Diamonds in the Rough attended was in Russia.

"We got together in August and trained for four days, then headed off to Russia a month later and kicked some butt," Lentowicz said.

"It's been very rewarding. I just love it so much. You learn something every time you help out, you love to learn more because it makes you a better responder. It became a life passion of mine, so much so that I decided to pursue a mas-



Kari Lentowicz, founder and managing director of the all-female mine rescue team Diamonds in the Rough.

ters degree in Disaster and Emergency Management which I finished in 2017 and absolutely loved."

She was asked where she sees the team going in the future.

"We're going to be number one eventually," she smiled.

"Winning hardware is nice when you go to these competitions, but it's not the goal. If we finish middle in the pack then I'm perfectly happy because that shows we're competitive.

"We can't do this without the men either, we need allies, we need that support. It's still very much a man's world.

"As long as we have that camaraderie, that trust, that respect, and bring the knowledge that shows we can do it. We're not trying to say we're better than anyone, we just want to show that we are equally as important and contributing members to the team."

More women in the field of mining

Although she has noticed an increase of women who

have joined the mining industry, Lentowicz said there is still a long way to go.

"I have seen more women, even at the competition level more women have joined," Lentowicz said.

"In Russia in 2018, there was only us (Diamonds in the Rough) and two other women at the whole competition. This year, there was probably 15 teams that had women on them. It was really good to see. This year was probably double the amount of women, still only 10 or 12 women, but better than it was before."

Lentowicz was asked what it is like working in a field with predominantly men for more than 20 years.

"It can be intimidating for a lot of people, it wasn't for me because I had a really good coach," she said.

"He didn't care if you had an inny or an outty, as long as you had the passion to do it and you were willing to develop your skills so you could become competent at it, he welcomed you with open arms.

"He has been fantastic, that's Bruce Coley he's the co-founder of the organization. There's myself, him and Randy De Cecco."

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Diamonds in the Rough at the 2022 International Mines Rescue Competition, in West Virginia.

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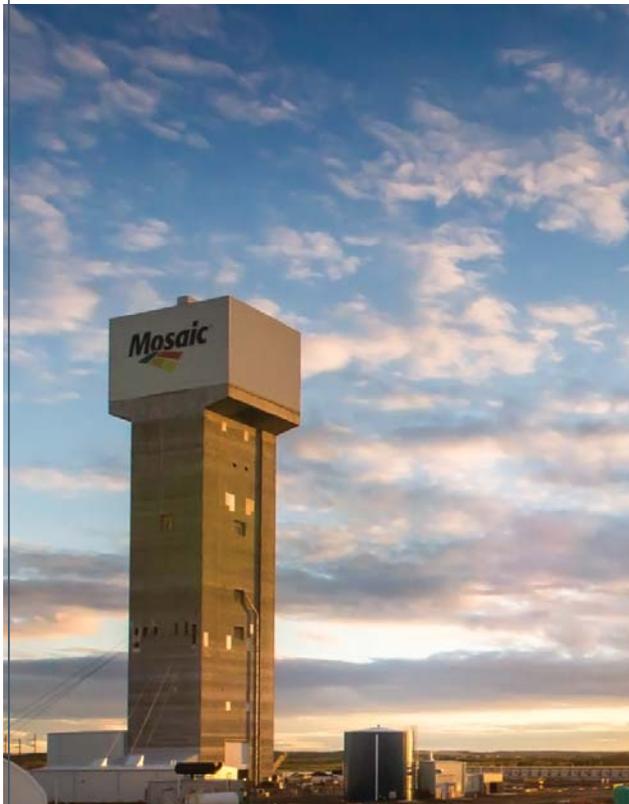
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Mosaic Invests in potash digital skills training for Indigenous students

The Mosaic Company invests \$1 million dollars in economic reconciliation through partner Morris Interactive's digital transformation in potash mining training program for the next five years.

This summer Mosaic's senior leaders and board of directors were in Saskatchewan to meet with stakeholders and tour the company's Esterhazy potash operations, where innovative technologies move potash cut by autonomous mining machines to surface and across miles of enclosed conveyor belts to two massive processing mills. Most of the process is managed from a digitally powered Integrated Operations Center (IOC).

While much of the process now runs with less human intervention, behind the screens and scenes are digital experts—and their skills are in high demand in the mining industry.

Building a talent pipeline

In 2020, Morris Interactive received support from the International Minerals Innovation Institute (IMII), and in consultation with Mosaic, Cowessess First Nation and other Nations, various Indigenous scholars and industry sponsors, developed training program curriculum for driven First Nations, Métis and Inuit individuals to hone their digital skills used in the potash industry.

Supporting the training program aligns with Mosaic's Environmental, Social and Governance (ESG) targets. Mosaic's Esterhazy operations neighbor several First Nations communities. In 2018, Mosaic announced targets to ensure the company reflects and supports the Indigenous communities that sur-



Mosaic's senior leaders and board of directors were in Saskatchewan this summer to meet with stakeholders.



Mosaic's Esterhazy operations neighbor several First Nations communities. A pilot program was hosted on, and in partnership with, Cowessess First Nation and surrounding Nations in early 2022.

round its operations—aiming to increase Indigenous new hires, procurement spend and community investments by 15 per cent by 2025.

Recently, Mosaic went a step further, strengthening their commitment to diversity and inclusion by releasing targets to increase representation of women and underrepresented groups, leadership diversity and community investment focused on diversity and inclusion initiatives globally by 30 per cent by 2030.

Digital transformation in potash mining training program

Grounded in Truth and Reconciliation Call to Action #92, the 10-week training program is built on Morris Interactive's 10 years of authentic and meaningful relationships with Indigenous and industry clients. The course is designed to be community-specific with an overall training philosophy of student success, long-term fulfilling careers, mutual respect, and shared economic benefit.

A pilot program was hosted on, and in partnership with Cowessess First Nation and surrounding Nations in early 2022. The pilot included a two-week practicum at Mosaic's Esterhazy operations and resulted in nine Indigenous graduates, five of which have acquired jobs in mining.

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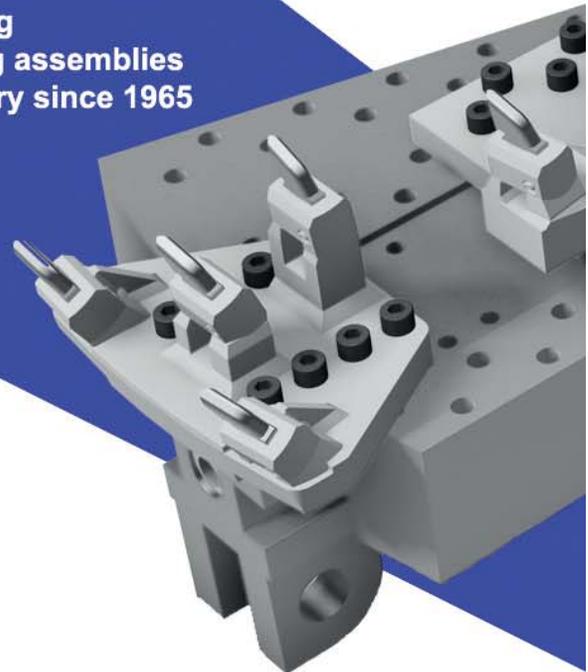
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Prairie Lithium signs 21-year mineral leases

Prairie Lithium signed a 21-year mineral lease which is a direct result of the exploration work undertaken in 2021 to better understand the distribution of lithium in the Duperow Aquifer in Southeast Saskatchewan.



Prairie Lithium has converted two crown mineral exploration permits with a combined area of 6,795 acres, into 21-year mineral leases. To the company's knowledge, the mineral leases SML001 and 002 are the first crown mineral leases issued for lithium by the province.

This is important because leases are required before companies are allowed to produce a resource at commercial scale production rates.

This achievement illustrates the progress Prairie Lithium has been making towards readying its resource for deployment of direct lithium extraction technology (DLE) on its lithium-rich brine resource in Saskatchewan.

Conversion to a lease is only possible when a company has met the minimum work requirement expenditure associated with an exploration permit.

Prairie Lithium's conversion of mineral permits to 21-year mineral leases is a direct result of the exploration work undertaken in 2021 to better understand the distribution

of lithium in the Duperow Aquifer in Southeast Saskatchewan.

The exploration program included drilling a new well (14-33-002-12 W2M) and re-completing a well at (01-02-001-12 W2M).

Representative fluid samples were collected from eight separate zones in the well at 14-33 and three separate zones in the well at 01-02.

In addition to collecting fluid samples, the 14-33 well was flow-tested for overall productivity because long-term sustainable production of brine will be necessary for project viability.

The permit to lease conversion allows Prairie Lithium the opportunity to advance their research and development at a meaningful scale in the field at the appropriate time. Prairie Lithium intends to scale-up and deploy DLE technologies that will maximize the long-term value of its resource.

In parallel to its own DLE technology development, the company is also actively assessing external DLE technologies to ensure that it is utilizing the most cost effective DLE process for long-term production of its resource.

The company acknowledges that DLE technologies are not yet ready to be commercially deployed. The permit to lease conversion will allow Prairie Lithium the opportunity to test DLE technologies on its resource in real world conditions.

Additionally, Prairie Lithium continues to advance their exploration program in 2022, securing Panther Drilling and Independent Well Services Ltd. to perform re-entry work on one of the newly acquired wellbores.

This well is being completed to measure lithium concentrations across Prairie Lithium's main target intervals within the Duperow Formation and to understand the productivity across these intervals to ensure a sufficient volume of lithium-rich brine can be produced for long term development. The workover and flow testing are expected to be completed by Dec. 1, 2022.

About Prairie Lithium:

Prairie Lithium is a private lithium resource and technology developer situated in the heart of the resource-rich Williston Basin in Saskatchewan. For more information about the company, please visit www.prairielithium.ca or contact info@prairielithium.ca.

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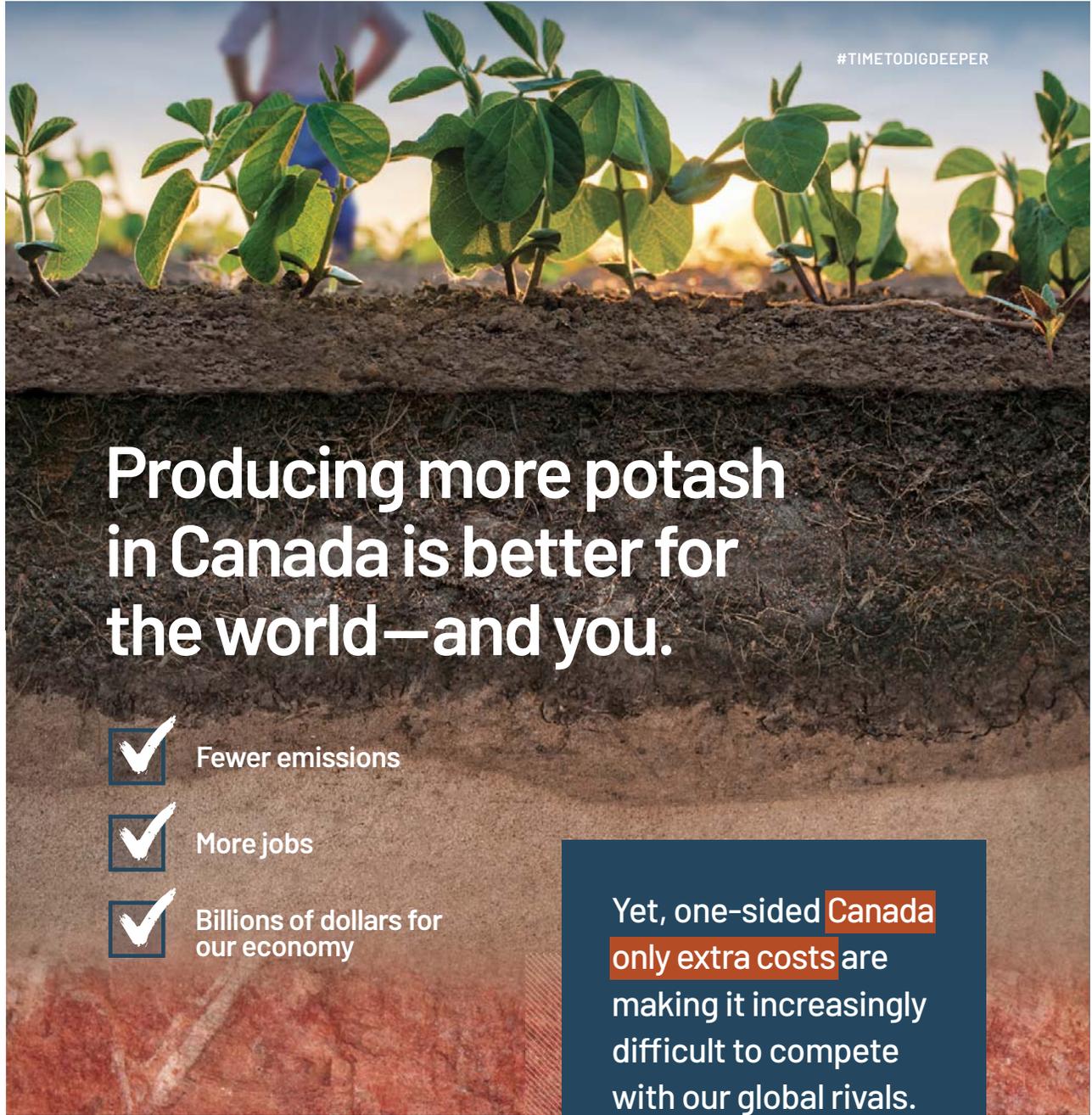


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Coach of all-female mine rescue team wants to empower women

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What is in the future for Diamonds in the Rough?

Lentowicz said the board chooses different members for the Diamonds in the Rough team every year to encourage as many women as possible to be part of the experience.

"We don't want to take the same women every year. We set the guidelines that we'll have women come on for two years maximum because we want to build more women up," she said.

"We want to be able to engage more women. This year, we're starting an ambassador program. That way we can keep some of the best competitors and trainees from previous years involved."

"In such a short time, it becomes a very tight-knit group. You make friends for life, even if it's in such a short time. These ladies from this year they met on Sept. 5, trained together for four days and seven days later, they ran through three-days of competition and they're joined at hip now. They never met each other before, they're from all different mine sites across Canada and different mining companies."

Lentowicz said having a diverse group helps strengthen the team.

"It's proven that diverse workplaces, diverse environments increase safety, and that's very important to the team because you have different thought processes."

Lentowicz was asked how the board determines which women are qualified for the team.

"We picked women that applied and were engaged, ones that really showed they had a passion for it," she said.

"Women who really wanted to do something a little different and who were passionate about increasing diversity, and inclusion in the workplace."

"We found a lot of really engaged, strong women who didn't have to be that experienced. We accepted anyone who was passionate about it."

"This year, for example, out of the eight women, four of them had less than three years of experience in mine rescue. Two had four years of experience and our captain, Heather Willis, had 16 years, but she was



In September at the 2022 International Mines Rescue Competition, Diamonds in the Rough placed second in High Angle Rope and third in Theory and Tech. They placed sixth overall out of the 22 teams.

actually the first female captain that we had ever seen in Internationals in 2016.

"She did kick it off for me when seeing her at that competition. We never officially met until 2019 and I think she knows how much she's influenced me, but she's a strong, tenacious woman. She's just amazing and I was so happy she was able to lead our team to a sixth place finish, she did such a good job."

Two of the women chosen for this year's team came from southeast Saskatchewan. Justine Fuchs, from Mosaic Esterhazy Mine Rescue, and Kirstin Hanson of the Nutrien Rocanville Mine Rescue.

The team attended the International Mine Rescue Competition this year in September, where they placed second in Rope Rescue, third place in Theory and Tech, fourth in Firefighting, and sixth overall out of 22 teams from around the world.

Lentowicz was asked how proud she was for the team placing sixth overall.

"I cried," she laughed. "I cried every day of the competition just because of proud they were."

"It feels awesome, it's so nice to be able to help support these women and to help

them achieve some of their goals as well. With the organization it's been really good with building their confidence, their leadership ability, their skill level, and all of that transfers to every part of their life and in their career."

One of the main reasons Lentowicz advocated for an all-female mine rescue team was to encourage women's confidence in themselves.

"It's great to help build women and sup-

port them because we come from a society where we're taught to be competitors," she said.

"In the business world, often women see only a few places at the top that they can fill because it's mostly men. But, we want them to realize that every one of those seats, at the top of every company, can be filled by women."

"Unfortunately that's not the way society has influenced us to think that way, but we're going to change that."

"One of the main things I want people to understand is I wouldn't be doing what I'm doing if it wasn't for Bruce Coley and Randy De Cecco."

"They're men, they're a bit older than me, but they have been fantastic supports and fantastic allies. They've been nothing, but champions for what we're doing. We need more men like that who are mentors."

Lentowicz said the goal for Diamonds in the Rough by 2026 is to have an all-Indigenous team from Canada.

"Female Indigenous women in Canada are the most underrepresented in the mining industry. It would be great to show young Indigenous women from across Canada that they can do this as well," she said.

"Right now I'm the first Indigenous competitor on this team and we had one lady who's Metis on the team this year. We're hoping to find a couple more. I say women, but we really want to get those diverse groups, we're trying to encourage people who are non-binary as well, because they're underrepresented too."

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Enbridge releases Indigenous Reconciliation Action Plan

Enbridge has released its inaugural Indigenous Reconciliation Action Plan (IRAP).

"We recognize that Indigenous people across North America have been systematically excluded from the social and economic landscape and acknowledging this is an important next step in our ongoing efforts toward Indigenous engagement, relationship building and inclusion," said Enbridge.

One of the first of its kind in North America, the IRAP was developed with input and insights from 50 individuals from Indigenous groups in the U.S. and Canada.

"It outlines 22 commitments that form the next stage of our journey towards reconciliation, partnership and collaboration with Indigenous peoples as we work to build a better future together," Enbridge says.

These tangible actions are focused on six categories or 'pillars': Employment and Education; Community Engagement and Relationships; Economic Inclusion and Partnerships; Environmental Stewardship and Safety; Sustainability, Reporting and Energy Transition; and Governance and Leadership.

A few examples of these commitments include:

- Formalize existing financial partnership processes that help create more opportunities for Indigenous economic participation;
- Establish an Indigenous Advisory Group to provide advice and Indigenous insight to Executive Management at Enbridge; and,
- Increase Indigenous representation within Enbridge's permanent workforce.

Kevin Weedmark spoke with Kim Brenneis, Director, Community and Indigenous Engagement with Enbridge, about the new Indigenous Reconciliation Action Plan. The full interview follows.

Can you tell me how involved Enbridge has been with Indigenous communities over the years up to this point?

We've been engaging with Indigenous communities for years and years. As you



can imagine with energy infrastructure that spans North America, we regularly engage with hundreds of Indigenous First Nations, government groups, treaty organizations, Native American tribes in the USA—so right across North America.

We've done that to make sure that we can build and maintain respect for relationships, build and maximize economic inclusion, and engage with those communities—not only just when we have projects, but increasingly what we want to do is build those relationships over the life of the whole project. We call it a life cycle. It's really about building enduring relationships and making sure that they're part of our work and the things that we do as we bring energy across North America.

How has that changed over the years? I know when the Line 3 Replacement Project was on across the prairies, there was a lot of engagement with the First Nations

along the line. Has it always been that way or is that something that was developed over the years?

With anything, it evolves over the years, but Enbridge has done a great job engaging with communities, First Nations, governments and Métis governments for a long time on our projects.

What's changed, or evolved over the last eight to ten years is engaging over the life cycle of our assets.

So not just when we're going through a repertory process but while we're building it, while we're operating it, and until we retire that asset. So it's about having an enduring relationship with the nations, governments and communities, so we can talk about what we're doing so we can make sure that there's understanding and so that there's participation.

You brought up Line 3, Kevin, and that's a great example. We did over a billion dollars of work with Indigenous communities,

contractors and individuals for contract opportunities and work over the course of that project on both sides of the border.

That was a great example of where we made sure that there was economic inclusion for the communities during that project.

That is part of that evolution—from project focus, to life cycle throughout our operations and down—that's all part of our journey and reconciliation. This Indigenous Reconciliation Action Plan (IRAP) is that next step on a very important journey.

Tell me how the Reconciliation Action Plan came to be. What was the impetus for this?

Like I said, it mostly came from an evolution, and Enbridge has been on a journey of reconciliation for years. It's not just something that we decided to publish, but really it's a step along our journey, albeit an important one, where we can talk about our commitments made and we can hold ourselves accountable.

We're going to report on them annually through our sustainability reports and update the IRAP on a regular basis. That way our commitments are up front and we can make sure we hold ourselves accountable as we talk about progress.

So what sort of work went into creating the action plan? What was the process for putting it together?

It's really a step along our journey—getting the commitments out and being held accountable to it.

It was developed over the last year, with input and insights from 50 individuals from Indigenous groups from the USA and Canada.

They helped provide direction on what was important in reconciliation and IRAP. Of course we did recognition with Indigenous rights and title and treaties, thinking about that, and the Declaration of Rights of Indigenous Peoples from the UN and also the Canadian Truth and Reconciliation Commissions Call to Action 92, which is about corporations playing their role.

Continued on Page 43

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Mosaic invests in potash digital skills training for Indigenous students

Continued from page 33

Program alumni Robert Kay Jr. says the program gave him the knowledge he needed to start a career in the potash industry.

"The course helped me understand the potash mining process. I now work with Noble, a Mosaic contractor, where I often find myself sharing pieces of knowledge that I learned in the program with my colleagues," he says.

An Investment in a future workforce

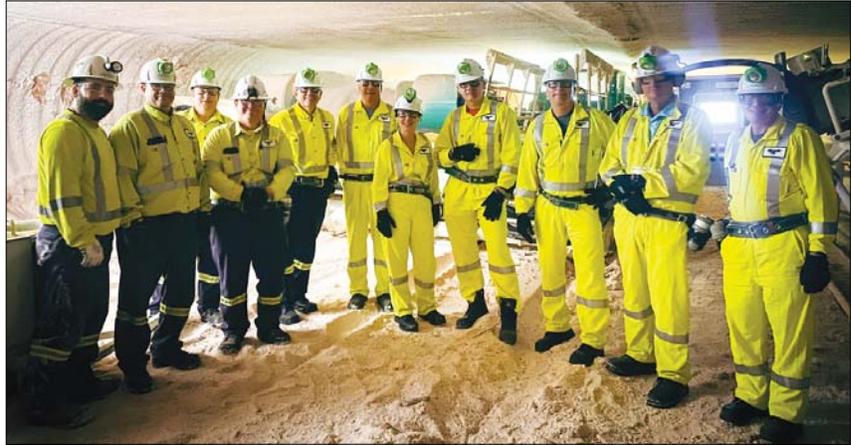
On August 17, Mosaic held a reception where CEO and President, Joc O'Rourke, and Board Chair, Greg Ebel, announced a long-term investment of \$1 million dollars to further expand the Digital Transformation in Potash Mining training program to more Indigenous students for the next five years.

"Mosaic's role in Saskatchewan is far bigger than just the potash we produce. Investing in the community is a cornerstone of how we do business," said Joc O'Rourke. "We believe it is our responsibility to be true partners to the Indigenous communities near our operations. This is an investment in Saskatchewan, the potash industry and in Indigenous people and the communities they call home."

Morris Interactive's CEO, Mathew Cey, shared how this significant investment will support the program's development.

"Over the next five years, Mosaic's investment will help us deliver collaborative, culturally appropriate, pre-employment training for driven First Nations, Métis, and Inuit individuals to prepare for careers in the potash industry," he says. "This includes mentorship, elder support, and post-course career support far beyond the 10 weeks."

The next Digital Transformation in Potash Mining course will be delivered in partnership with the Gabriel Dumont Institute (GDI) this fall. The course will take place in Saskatoon, Treaty 6 Territory and Homeland of the Métis, with practicums at Mosaic's Colonsay facility.



Mosaic's senior leaders and board of directors were in Saskatchewan this summer to meet with stakeholders and tour the company's Esterhazy potash operations.

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Surging global coal use highlights opportunity for Canadian LNG

There are 2,449 coal-fired plants operating around the world, 189 are under construction and a further 292 are planned for the near future.

Coal use around the world is rising in what the head of the International Energy Agency (IEA) calls "a sobering reality check" for targets to reduce emissions.

Against that backdrop, global demand for liquefied natural gas (LNG) is soaring, in part because it can help displace coal power and reduce emissions by half – or more, if the LNG comes from Canada.

"Global electricity generation from coal this year will be the highest ever in history," IEA executive director Fatih Birol said at the virtual launch of the agency's latest report on the state of global coal in December 2021.

"The numbers are really worrying when you look at it from a climate change point of view," he said.

Total global coal consumption is now well above where it was before the Covid-19 pandemic, reaching a record 7.9 billion tonnes in 2021 compared to 7.8 billion tonnes in 2019, the IEA reports.

The growth is expected to continue, with consumption reaching a new high of eight billion tonnes in 2024.

IEA says it will be driven by India and China, where coal power is expected to increase despite the roll out of "impressive amounts" of solar and wind capacity to generate power.

There are 2,449 coal-fired power plants operating around the world, according to Global Energy Monitor. Another 189 are under construction, and a further 292 are in "pre-construction" or planned for the near future.

"This is a major challenge," Birol said. "In par-

ticular from the perspective of emerging and developing countries, where you see coal might be playing a critical role in providing electricity and keeping the affordability of electricity prices."

A solution is LNG or the global trade of natural gas by ocean tanker.

According to Shell's latest report, even with COVID lockdowns, world LNG demand rose to 380 million tonnes in 2021 from 360 million tonnes in 2020. That's expected to nearly double and cross 700 million tonnes by 2040.

Using natural gas instead of coal to fuel power plants reduces emissions by about 50 per cent on average, IEA says.

LNG from Canada can deliver an even more significant decrease, reducing emissions by up to 62 per cent, according to a 2020 study published in the Journal of Cleaner Production.

That's partly because Canada's LNG projects are



Deborah Jaremko

expected to have the lowest emissions intensity—or emissions per unit of LNG—in the world.

The LNG Canada project under construction, for example, is expected to have emissions of 0.15 per cent CO2 per tonne of LNG, less than half the global average

of 0.35 per cent, according to Oxford Energy Institute.

Proposed LNG projects in British Columbia that would use more hydroelectricity from the province's power grid are expected to have even lower emissions intensity: 0.08 per cent for Indigenous-led Cedar LNG

and 0.03 per cent for Wood-fibre LNG.

"We do have cheap, plentiful supplies of natural gas both in northeast B.C. and throughout Alberta, and we do have shorter shipping distances to Asia," says Ian Archer, associate director of gas, power and climate solutions with S&P Global.

"But what we have is very limited infrastructure to connect those two points."

Deborah Jaremko is director of content for the Canadian Energy Centre, an Alberta government corporation funded in part by taxes paid by industry on carbon emissions.

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Mining, Energy and Manufacturing



Enbridge releases Indigenous Reconciliation Action Plan

Continued from Page 39

All of that helped formulate a draft of IRAP which we also shared with Indigenous leaders to be able to review it and give feedback on whether we were on the mark. We got great feedback.

All of that was processed internally with our colleagues, Indigenous and non-Indigenous folks, within our company to get feedback on what mattered to them and what we could do take that next step along our journey of reconciliation.

That all culminated with the document that was released last week.

What would you say are the most important parts of the action plan? What would you say are the stand-out points?

The stand-out points are the commitments themselves, and the opportunity to be held

accountable and be able to talk about them on an ongoing basis.

We've always been on this journey and we've been doing, we think, great work in partnership with communities.

I think a big part of it for us is the ability to hold ourselves accountable, take that next step, report on it and improve on it as we go forward.

As you're aware, there are six pillars in the plan. Those six pillars each have commitments under them which I think are all very important.

The financial partnerships commitment is an important one. It's an extension of our continuing commitment to economic inclusion with Indigenous communities. That is something that we are very committed to continuing, like with Line 3 and our outcomes from economic inclusion there. Finan-

cial partnerships are our next step along that.

We've made some announcements about that East-West Tie Transmission Line out in Ontario where the Indigenous communities there have two and a half per cent interest and have the option to go to 20 per cent equity interest.

Then in Alberta we've announced our Wabamun Carbon capture project which will be co-developed and co-owned by Indigenous communities there. I think that partnership and economic inclusion is an important pillar, as all of them are.

Another one I'd highlight is the Indigenous advisory group. You asked who helped develop this IRAP and this is a living process and we made a commitment to an Indigenous advisory group which will provide ongoing advice to executive management going forward on our business and the IRAP execution itself. That's the enduring, continuing part of this commitment is that it's not just a static point in time.

Will that group be responsible for monitoring this over time or determining if you're meeting these goals and what you need to do to meet them?

That Indigenous advisory group will be there to provide perspective and advice on how we're doing with the IAG and how we're doing on our business. You want to make sure that you have Indigenous perspective and advice coming into your organization. We've always had that with many of our communities that we've partnered with and worked with for years. They provide great advice and great perspectives.

This provides a little more formal structure to gain those perspectives and we're going to make sure that those representatives on that Indigenous advisory group are from different parts of North America

where we operate and will be able to provide different regional perspectives for that Indigenous perspective.

Is this a document, where 10 years from now, Enbridge looks back and says yes, we accomplished everything we set out to do, we're good—or is this a document where you adjust it over time as things change?

Great question, thanks. We're going to report on it annually and every two years we're going to update the IRAP.

It's a living document in that we're going to report on it on a regular basis but we're going to update it. So some items may drop off because we've achieved them or we'll add new ones on, all of which will be done as we see how we do towards those commitments with advice from that Indigenous advisory group and others on our progress for these commitments.

How important do you think it is that companies like Enbridge have a plan going forward for Indigenous engagement?

I think it is critical that companies enter into this journey of reconciliation. We believe that we can play a critical role in advancing reconciliation. Truth and Reconciliation Call to Action 92 asked corporations to do that. So that means stepping forward and we believe that we're a leader in this space. We want to be a leader in partnership with communities and we want to walk this journey together. We think this is critical.

This is about walking the talk. We're a values-based organization, so we think we need to walk that talk about building these relationships and working with Indigenous communities toward reconciliation.

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