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# Mining, Energy and Manufacturing



## 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 per cent 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 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 writ-



The Nutrien Scissors Creek site.

ten 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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# Mining, Energy and Manufacturing



## All-female mine rescue team:

# Diamonds in the Rough do well at IMRC

BY KEVIN WEEDMARK AND SIERRA D'SOUZA BUTTS

Justine Fuchs, from Mosaic Esterhazy Mine Rescue, and Kirstin Hanson of the Nutrien Rocanville Mine Rescue, attended the International Mine Rescue Competition in Beckley, West Virginia September 11-16 as members of the Diamonds in the Rough mine rescue team.

This is an all-female team that is made up of women from all across Canada, from various mines.

Diamonds in the Rough received second place in Rope Rescue and third place in Theory, fourth in Firefighting and sixth overall out of 22 teams from around the world.

Hanson said the Diamonds in the Rough are a very different Mine Rescue Team than most, which come from a single mine.

"Most mine rescue teams compete together quite often and they practice for say 3-4 weeks prior to a

competition so they're in sync going into it. As for the Diamonds, we all met a week prior to competition. We had some Ontario women, a woman from New Brunswick, a woman from B.C., a Manitoban, myself, and Justine. We had to meld quite quickly and we were lucky actually the whole group of us got along amazingly. It was hard leaving because you become so close that short time you are living together, practicing together."

Members of the Diamonds in the Rough team come from a wide variety of mining backgrounds.

"I am with Rocanville, Nutrien and Justine is with Mosaic. The other girls, there were two of the girls on the same team in Ontario, and the rest were all from different mines. We had girls from nickel, gold, potash, and diamond mines."

Members of Diamonds in the Rough have different levels of experience.



Diamonds in the Rough is an all-female team that is made up of women from all across Canada, from various mines.

"A couple of girls on the team had never actually competed before, but we all had the same base of training," says Hamilton. "Ontario had some slight differences, but generally it's all fairly similar. Our captain had quite a few competitions she had partaken in.

Our vice had taken part in a couple, but the rest of us only had one or two and then a couple didn't have any."

Hanson said it feels great to have done so well at the international competition.

"Oh, it's amazing. We got second in rope rescue, third in theory, fourth in firefighting, and sixth overall out of the 22 teams competing. It is an amazing feeling. You go in and you're not sure what to expect because you are competing against the world's best.

"These are male dominated teams we were competing against. A couple of the teams had some women on them, but they were mostly men and we were an all female team that had just met. You're very intimidated going into it. We practiced hard and we felt confident, but it all depends on your opponents as well.

"It was amazing, I can't even describe the feeling of how well we did. After every event we were just excited. We know we executed it as best as we could. It was an amazing team."

Continued on Page B7

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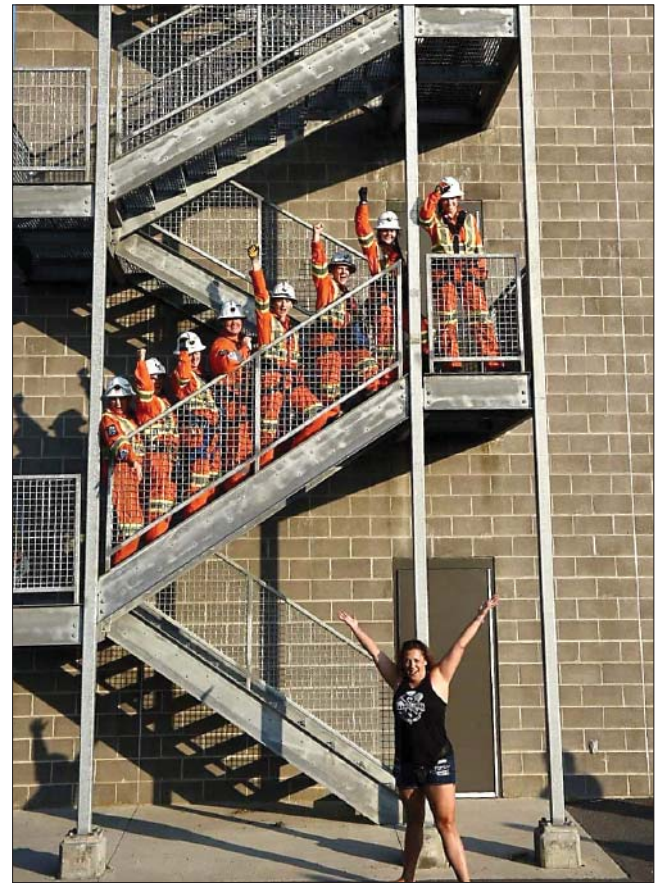
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In September at the 2022 International Mines Rescue Competition, Diamonds in the Rough placed second in High Angle Rope and third in Theory and Tech. They placed sixth overall out of the 22 teams.

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

# 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 masters 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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# Mining, Energy and Manufacturing



## Indigenous peoples can choose development

If First Nations are to have a chance at seeing real self-determination, equity deals in natural resource development must be part of the conversation. Having ownership of the projects taking place on our land not only gives us own-source revenue but also gives us the ability to have a seat at the table and be part of the conversation with industry.

On September 22, Hydro One announced a new equity partnership with First Nation leaders across Ontario. This announcement offers our people in Ontario a 50 per cent equity stake in all future large-scale capital transmission line projects exceeding \$100 million in value.

This agreement, signed with eight First Nations represented by the Gwayakocchigewin Limited Partnership (GLP) for the Waasigan Transmission Line project, shows that the appetite for industry to work with First Nations is there. In total, nine First Nations will have the opportunity to invest in a 50 per cent stake in the Waasigan Transmission Line project, putting those Nations that invest in a financially independent position.

This partnership is a step in the right direction. As Indigenous people, we sometimes see development and projects take place without receiving any benefits. Industry working with First Nations is a step forward in reconciliation.

This is not the first time an equity agreement has happened between industry and First Nations. In March this year, Coastal Gaslink signed a 10 per cent equity option with First Nations along the pipeline corridor.

Chief Justin Napoleon of Saulteau First Nations said of that agreement: "We want to be partners; we want to be involved in the lifecycle of the project from groundbreaking to reclamation. Having the option to get involved in equity opens up the opportunity to have long-



Robert Merasty

term economic benefit from a project that will be there for years."

Having this long-term economic benefit provides opportunities for our First Nations that we could not have considered 10 years ago.

Our communities can no longer rely on the federal government to provide Indigenous with quality and culturally-centred education and health care services. Often at times, federal funding agreements come with strings attached, forcing First Nations to spend more on administration and professional services. Generating our own revenue with ownership in projects gives us control and allows us to spend our revenue how we see fit. That is what real self-determination looks like.

Additionally, equity ownership in projects allows us to have control of the projects on our land, allowing our people to determine the trajectory of a project by giving us a seat at the table with industry. Not only will First Nations be partners in the project we will also be environmental regulators.

Our people know best when it comes to taking care of the land. What the Creator has provided us is sacred to our people and our culture. It is essential for our people that when we develop our natural resources, we do so responsibly and ensure the project meets our high en-

vironmental standards. We are keepers of the land, and we have a responsibility to ensure that the projects we engage in are reliable and sustainable.

This equity deal with Hydro One is just the beginning for our First Nations in Ontario. There will be more opportunities like this as long as the government gets out of the way and lets First Nations and industry work together.

However, some Nations have a hard time raising the capital to invest in projects. Having a National Indigenous Guaranteed Loan Program will help Nations raise the capital necessary to invest in projects taking place on their land.

If we want to see First Nations truly thrive and experience genuine self-determination, we must allow for equity agreements to happen and invest in tools that facilitate growth and access to capital. Early last year, the Indigenous Resource Network announced its 'ownership changes everything' campaign. This campaign advocated for a National Indigenous Guaranteed Loan Program, a tool the government can implement right now to offer more Nations access to capital to invest in resource development. A guaranteed loan program can be a very helpful tool for Nations as they raise the capital necessary to invest in projects.

Our people are faced with a choice between development and poverty. We are looking for solutions for our people, and this one is staring us in the face. We hope other Canadians and Indigenous can come together to support Indigenous ownership in these projects. We believe it is a real win-win for industry and our Indigenous communities.

*Bob Merasty is the Executive Director of the Indigenous Resource Network.*

## October oil and gas rights public offering generates \$5.4 million

Saskatchewan's public offering of Crown petroleum and natural gas rights held on Tuesday, October 4, 2022, raised \$5,426,564.36 for the province, which more than doubled the October 2021 offering. This brings the current total for the 2022-23 fiscal year to \$34,188,370.54 in revenue for the province.

The single exploration license and 72 of the 78 parcels posted received acceptable bids. The Estevan area saw the

most interest, bringing in \$4,346,574.09 for 49 leases totaling 4,125.495 hectares.

The highest bonus bid received in this offering is \$608,172.96 for a 161.287 hectare lease south of Oxbow, which was awarded to Adonai Resources II Corporation. A parcel north of Lampman received highest dollar per hectare bid of \$6,433.42 per hectare with Scout Energy Ltd. bidding \$419,414.00 for the 65.193 hectare lease. The single

exploration license received a bonus bid of \$352,333.55 for a 4,345.505 hectare block of land west of Kindersley. The successful bidder was Millenium Land (333) Ltd.

The October sale is the fourth of six oil and gas public offerings scheduled for this fiscal year. The next sale will be held on December 6, 2022, and will feature 133 leases covering 18,541 hectares and three exploration licenses covering 5,349 hectares.



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# Mining, Energy and Manufacturing



## All-female mine rescue team: Diamonds in the Rough do well at IMRC

Continued from Page B4

She said there are many different events the teams compete in.

"You have a mine rescue problem which imitates usually a fire or a lost employees. There's always lost employees where you have to go find where they are. There could be a fire, there could be smoke, there could be dangerous gases.

"For this particular event, there were a couple employees in a refuge station on one level with gases. We had to ventilate the mine so we could clear it out and walk these individuals out. On the second level there was actually smoke and they had a smoke machine so you couldn't see anything and then there was another person up there so we had to vent it out and rescue that employee. It's a really great simulation for real life events."

She said there is serious competition at the event, and the organizers put a lot of effort into making the mine problems as realistic as possible.

"There is a lot of money put into it. A lot of time, different groups and organizations put a lot of time organizing it and putting it on. It was amazing just how real each event was. There were people watching everywhere. People on the teams would also go and watch each event. It was throughout three or four days of competition. You only did a couple of the problems per day."

She said the competition was demanding.

"It is hard work. You're exhausted when you are done because it is very physically demanding, you are wearing your air packs, you have a 40 pound backpack on supplying you with your oxygen. You are very active, but I love it. I feel that is probably the general consensus. Absolutely everyone loves it, and it's very important, and that's why we are all there."

One part of the competition that was new for Hanson was the Rope Rescue event.

"Rope rescue is for example an employee has fallen down the shaft. We actually send an-

other employee down there in harness gear. During the event it was a person that fell three storeys so we had to send a lady to that level through a hole. Send the stretcher down to her and she was able to load the dummy onto the stretcher, tie the person onto the stretcher and then we had to hoist this person up three levels to where we were. So you hoist that stretcher, send both of our ropes back down to her and bring her up. It was my first time doing any rope rescuing so I didn't go down in the hole. We had some ladies who had been experienced with it, but it was really awesome learning. That was a brand new skill for myself and now I have that confidence if something were to happen and we had to do something like that at work, I can get in there and know exactly what to do."

What does Hanson enjoy about competing in Mine Rescue?

"I enjoy the physical labour of it, but I enjoy the knowledge. Everything you learn in Mine Rescue is great to take outside to the rest of your life.

"It teaches you to keep control of your mind, to keep calm, to work through problems and be prepared for anything coming your way. You also learn your first-aid and it's really good hands on training, and it really builds your confidence. You feel great when you're done—like you really made a difference."

She hopes to stay on the team for next year's competition.

"Usually a person can compete on the Diamonds for two years and then Kari, the director, will rotate it and more women will have the opportunity. Our team is fairly new so it's possible we could all be competing with each other on the next event, but that is all depending on everyone's careers, their lives. We probably have one more year together, I hope. It was definitely a great team and I miss everybody already."

Hanson said that, while mining has traditionally been a male-dominated industry, that is changing.



Justine Fuchs of Mosaic Esterhazy and Kirstin Hanson of Nutrien Rocanville compete as part of the team.

"It is definitely a male dominated industry, but there are a lot more women coming into the mining industry. I noticed Nutrien just posted something about one job site that has a 60 per cent women crew. Diamonds in the Rough is kind of breaking down those barriers, showing it doesn't matter whether you are man or woman you can still do the job and still save lives."

She said she is grateful to have taken part in the mine rescue competition.

"It was an unreal experience and I personally feel now in the event of an emergency, I feel I am dialed in and able to just go in to do the job and make sure everyone gets home safe."

Justine Fuchs, from Mosaic Esterhazy Mine Rescue, explained how she became part of the all-female mine rescue team.

"I competed against Diamonds in the Rough at Saskatchewan Mining Association (SMA) in June," Fuchs said.

"Kari was there, she was a judge. It was brought to my attention that they were looking for new members. A friend of mine who was actually on the Mosaic team down in West Virginia said I should apply for the team.

"With what was going on in life I thought that I was too

swamped and didn't really have time to fully dedicate myself. Then some time passed and Greg Sweet, our mine rescue manager at Mosaic, brought it to my attention again and then my fellow rescue members also said I have this opportunity to represent Mosaic in Diamonds in the Rough.

"I think it was in that moment where I thought that I need to take this opportunity for what it is and embrace it, and I'm really glad I did."

With the limited amount of time the group of women had to get to know each other and prepare for the competition, Fuchs said she is proud of how well the team did.

"We melded so well, which was awesome. We had everyone with different skill sets, we had women who haven't competed ever, many of us actually have under three years of experience with mine rescue," she said.

"We all had our specialties, we just brought together what we could and we just executed with the knowledge that we previously had and that was brought from our own jurisdictions."

Participating in the competition and working closely with other women across Canada made Fuchs learn things about herself as a mine rescue worker.

"This (competition) did show me that from what I do know and what I've been taught from my fellow mine rescue members, that I can do this, even though I may not feel prepared, I am," she said.

"With the tools and knowledge that I've already been taught, I just needed to have more faith in myself, which was actually a great eye opener because everyone was telling me to go for the experience and bring home some hardware. It was sort of funny in that regard."

She explained how she first got into mine rescue.

"I think there was one other woman that was involved (in the mine rescue team), and I didn't know if it was something I would be interested in," Fuchs said.

"Then a few years ago Mosaic hosted this (event) where women could go and see what it was all about. Everything was set up at the Churchbridge rink (where local mine rescue competitions are held in a mock mine) and I just thought I would give it a try.

"From that point forward it's been amazing. I've learned so much at Mosaic. There's a couple other women, but generally speaking the guys are phenomenal. They have so much patience, they taught me everything and it turned out to be something I absolutely love.

"There have been more women working at the mine, I feel it's constantly increasing over the last few years which is really good to see.

"We do have a few women in mine rescue, but I do think that from these experiences, more people will definitely see the potential they have to get involved, and that it's something they can do too."

She said it was great working with other women in the field.

"We're all just normal women, but especially the fact that we were from all different types of mines and from all over, we got to learn about so many different ways for doing things. It really opens up your perspective to what can be done."



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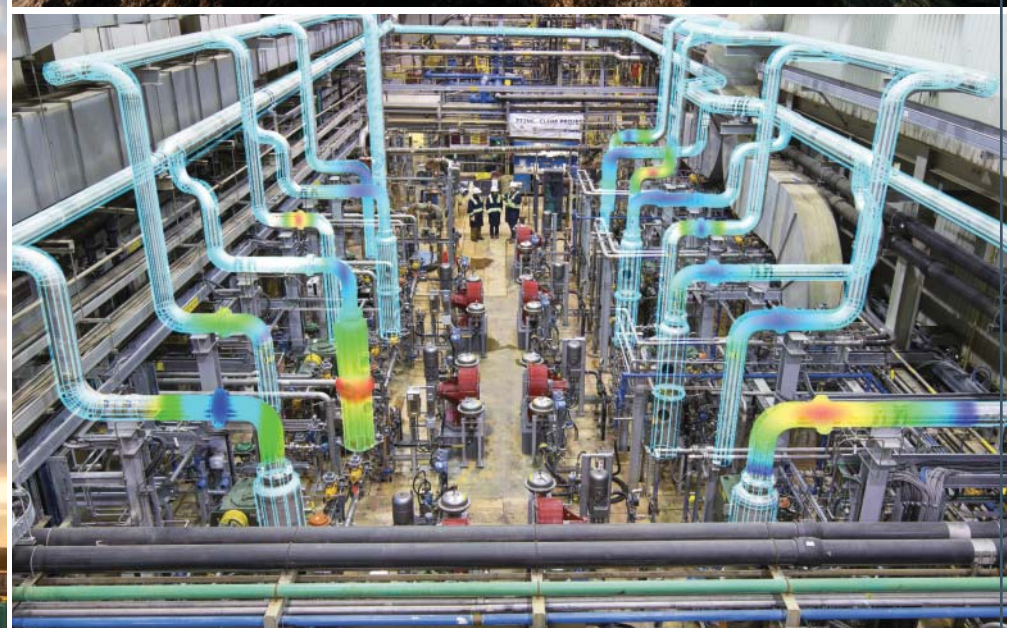
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# Mining, Energy and Manufacturing



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



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

Continued from Page B5

### 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 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 competi-

tion 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 support 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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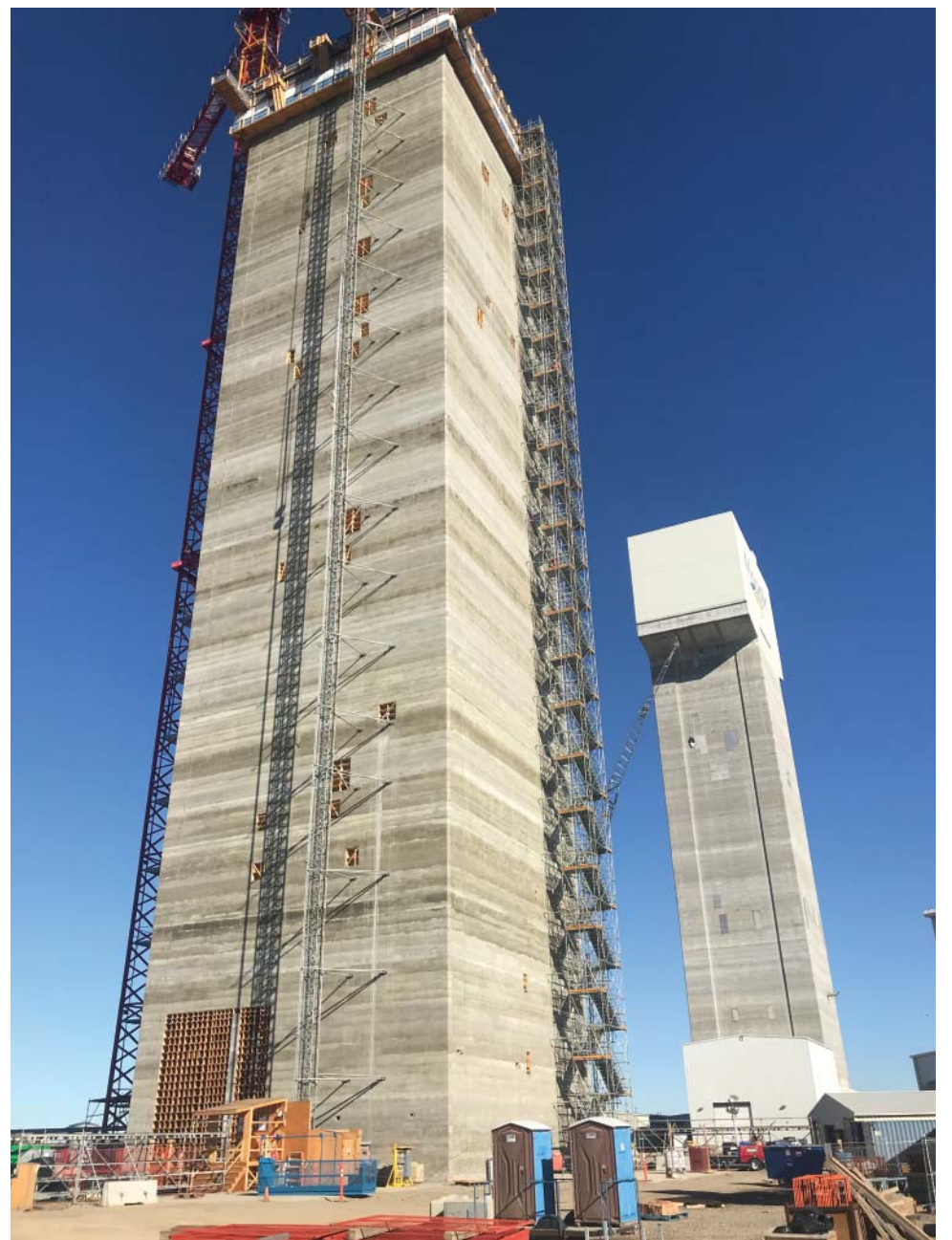


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**Mining, Energy and Manufacturing**



# Mosaic Esterhazy second overall in international mine rescue competition

From September 11 to 16, members from the Esterhazy mine rescue team competed at the International Mine Rescue Competition that was held in Beckley, West Virginia.

Esterhazy finished second overall of the 22 teams at the competition. They competed against teams from Australia, Canada, Columbia, India, Poland, United States, Zambia, Finland and India.

A few days prior to the competition, the teams trained at MSHA (Mine Health and Safety Academy), where the competition was being held.

They competed in multiple events throughout the competition which included Mine Rescue Simulation and Skills, First Aid, Firefighting, Theory Exam, Rope Rescue and the Technician Event.

Mosaic Esterhazy had a very strong competition, placing second place in First Aid, and Clint Hollingshead won first place in the Technician event.

Following is an interview with Greg Sweet, one of the local team members:

**How did Mosaic Esterhazy win the right to compete at the international competition?**

It all started in 2019. This team won the Saskatchewan Provincial Competition in 2019. That gave them an entry into the competition in Fernie, the National Western Region Mine Rescue Competition in 2019 and they won that one. With winning both of those competitions it gave them a place in the international competition that was supposed to happen in 2020. But it was postponed until this September.

This was the same team that won in 2019 but we were able to add a couple more people because of the way that they do their competitions—you can have a maximum number of 10 people at this competition. Our Saskatchewan group limit is seven.

*Continued on Page B12*



## Mosaic Esterhazy finishes second overall in International Mine Rescue Competition

Mosaic Esterhazy finished second overall out of 22 teams from around the world in the International Mine Rescue Competition, and finished first in Technician and second in First Aid. As well, the Diamonds in the Rough all-female Mine Rescue Team, including Kirstin Hanson of Nutrien Rocanville and Justine Fuchs of Mosaic Esterhazy, took second in Rope Rescue and Third in Theory and Technician. In back from left are Greg Sweet, Colleen Parkin-Kempton, Jared Cook, Skyler Hladun, and Jamie Smart-Sondergaard. In front are Clint Hollingshead, Aaron Polvi, Jeremy Lundgren, and Dylan Bachtold.

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# Mining, Energy and Manufacturing



## Mosaic Esterhazy second overall in international mine rescue competition

Continued from Page B11

**Do the same 10 people compete in the different events or are there different folks for the different events?**

Yes, we moved them around. For each event we picked who we thought was most comfortable and experienced for that part and that way we were really able to utilize the skills of everyone in the group.

**Walk me through the different events in a mine rescue competition and what happens in each of them.**

This one is a little bit different than what we see in a Saskatchewan event or the Fernie competition. They had a two-level mock mine setup where we had to go in and deal with different scenarios. They had a fire set up, and they had to go in and fight that. Then they were simulating high gas ratings so they weren't able to breathe without a breathing apparatus, so it was unsafe conditions to move anybody around. They had to go in and find a couple of miners, and once they found those people they had to ventilate the mine. Once they did that they got the all-clear that the air was good. They would check their exits to the mine to make sure that all of the air was good enough to bring the workers out of the mine. So they did that and then they go back to get the people and get them out.

Once they did that, they had to crawl up a ramp into the second level where they had it filled with fake smoke. The whole area was filled with smoke so they had to do a search and rescue looking for more

people and more objects—in this case there was another worker staged up there and they had to find that person in the smoke and get him out into the fresh air. They were able to do that with a different kind of breathing apparatus.

In all of these events it's always the safety of the team first, then safety of the workers and then you deal with what's on hand, like is it a fire or bad air.

We had 75 minutes to do this one and sometimes you're under the clock—you have to be out of the mine before the time runs out—but in this case we were just able to run the clock out if we needed.

**Are you judged by how quickly you can get the people out are how safe you were? How do they judge something like that?**

All of the above. There are a lot of points and demerits for safety—making sure that you're always checking your surroundings, you're not putting yourself in danger of any kind, there's a lot of communication with your team members, and that you're not rushing through the mine, running or anything like that. They want to see you move at a good steady pace. They judge you on safety, how you deal with the situations in the mine, how you fight the fire, deal with the bad air, deal with bad ground and those different scenarios. Then there are points for first aid on the casualties like whether you're rough-handling or packaging them with care and always reassuring them. There are lots of points too for what we call an emergency

centre. We have that team that is underground or in the mine but we also have a group of people that is in a command centre on surface or what we call a fresh air base, and those are the people giving the directives and getting information from the team and relaying that to make good, safe decisions on how we're going to deal with the situation.

**What is the rope rescue event?**

We went to the Beckley Fire Department, where they just built a brand-new fire hall in 2020. They had a three-storey tower setup and they simulated that a person had fallen down a few storeys.

We had to set up a rope rescue situation where we had to lower one of our members down through the opening, which was about two or three feet square roughly. So we lowered them down to the casualty and he would reassure them and do

basic first aid. Then we had to lower a basket down for him to put that casualty into, get him strapped into the basket, and then we would haul him back up to the third floor from the first. Then we would haul our member back up to the third floor also.

**What happens in the First Aid event and the firefighting event?**

This one was different because they actually had mannequins there that were computerized which were really cool. We've never seen them before. One of them would track how you do your compressions for CPR. The other one could blink, it had a pulse and you could track its breathing. You had to get actual pulses and breathing rates. Then they had one other casualty there too that had something stuck in their eye, so you had to do first aid on that person too.

Continued on Page B13

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# Mining, Energy and Manufacturing



## Mosaic Esterhazy second overall in international mine rescue competition

Continued from Page B12

The fire part was also different for us because we're used to using fire extinguishers, but in this one they had to set up two hose lines and do an obstacle course. It was a different way than just using fire extinguishers for our competition.

### What's the technician event?

The technician event is for one individual and they take our breathing apparatuses, and the committee will throw little bugs in it and little defects into the machine and then that person has to go in and find them. They also have to write a written test too. Clint was part of the overall team and he was our competitor in the technician event, which he won.

### You came second in first aid and then Clint placed first in the technician event, and you came in second overall. How do you feel with that showing at an international competition?

It certainly is impressive, and I definitely knew that we had a great day, but you never know that end result until you finally see those scoresheets come out.

At any competition you love to hear your names being called and awards being handed out. It was good, we got our names called a couple of times there at the event, and once we got the overall results yesterday I was joking with the guys that I had to e-mail the committee back to make sure that I was reading it correctly. There are definitely a lot of congratulations going around and we were pretty excited yesterday when we saw that we were second overall out of 22 teams from around the world.

### Has Mosaic Esterhazy ever placed this high in an international competition before?

No, this is the first time that Esterhazy had ever gone to this competition. The Colonsay mine did, I believe it was in 2008 that they went, when it was held in Reno. But this is the first time Esterhazy has ever had a team at the international competition.

### Were you thinking that you might end up with such a strong showing?

No, we had no idea. The competition events, with 22 teams, were spread over three days. We were pretty happy with how we did each day, and we were thinking that

if we get in the top ten, that's great. You never know what you're coming up against, but we learned lots and met lots of great people from all across the world. We got some new colleagues and some new peers during the whole thing. But we never thought that we'd be second overall by any means.

### Is Mine Rescue an ongoing thing—are you pretty much always training?

In Esterhazy, we train from September to April. We have about 40 members in mine rescue and all based on different crews, made up from different crews. Each team trains once a month, so four times a month there's training going on.

We train up until April and then we do what's called an in-house competition. We make up teams amongst ourselves and whoever wins that, we use as our team that goes to the Saskatchewan Provincial Competition during Mining Week. The competition was in Saskatoon this year and will be again next year.

### You must be pretty proud of your team members.

That's exactly it. It takes everyone. We've got about 40-plus members in mine rescue plus retirees and management groups and it takes everybody to pull this together. Everybody is pretty passionate about it, and we're all pretty confident that we're going to make the right decisions and be able to address the situations that we've got at hand when we are called in the event of emergency.

### So what do you think is the difference? There must be something different about your team if you came in second in the world? What do you think it is?

I think we're all just pretty passionate about mine rescue in Esterhazy, and we've always had that. I've been in mine rescue since 2010. I've kind of taken over the lead for it and we've just got a great core of people. We still talk about the big fire they had in 2006. That's a long time ago but it's still very fresh in a lot of people's minds on how that went and the situations that came out of that. We do all we can to prevent incidents like that, but sometimes that stuff happens. We find that everyone is passionate about it and I think the competitions help drive that too. We all like to win, we have a drive for that and to be able to learn the skills and show them off at competitions definitely

helps. We just have great support staff too with our management groups and the spouses—everybody. It takes a great team to get it all done.



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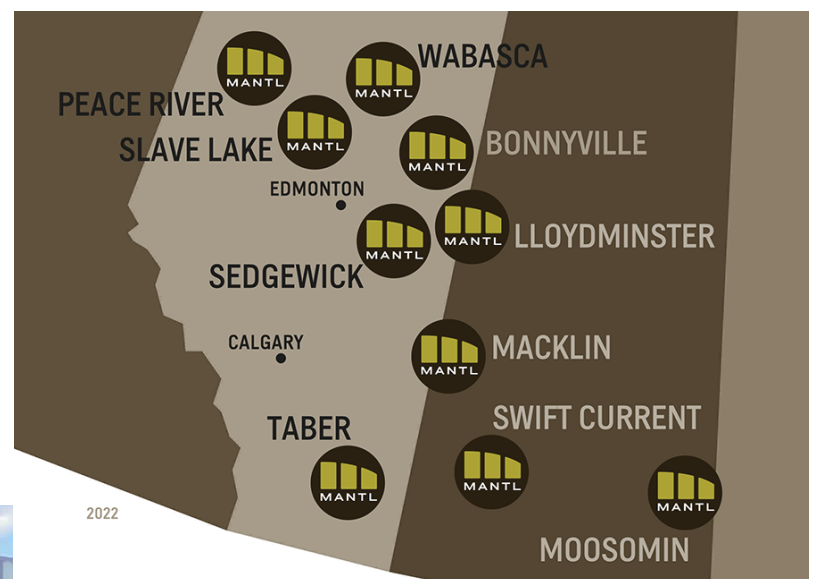
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# Mining, Energy and Manufacturing



## The frightening reality about energy security

The fixation on the threat from climate change lacks both balance and perspective. The technology simply does not yet exist for a rapid transition to a world without fossil fuel. In the wake of Russia's war on Ukraine, Germany and France are desperately reopening coal-fired power plants and reactivating dormant nuclear reactors in order to meet energy shortfalls. At the same time, China and India are importing more coal from Russia.

As Amin Nasser, the CEO of Saudi Aramco recently observed, plans for a transformation to renewables have been "sandcastles that waves of reality have washed away."

Without the responsible development of fossil fuels, our societies face economic and social crises more imminent than those stemming from climate change. Yet, dubious prophecies from climate activists go largely unchallenged while evidence of global resilience to climate change over centuries is widely ignored, as are notable efforts by industry to reduce carbon emissions. U.S. and Canadian emission reductions in recent decades are largely due to the expansion of natural gas production that climate lobbyists want to shut down.

### Dubious prophecies go largely unchallenged

Many of the dire predictions spouted 20 years ago have been thoroughly debunked. The polar bears are not a vanishing breed. Their population has increased from between 5,000 and 10,000 in the 1960s to roughly 26,000 today. Ten years ago, environmentalists warned sternly that the Great Barrier Reef was nearly dead as a result of bleaching caused by climate change. This year, according to Bjorn Lomborg, "two-thirds of the Great Barrier Reef shows the highest coral cover since records began in 1985."

The dark night of global warming has not emerged, but terrifying doom and gloom predictions cause many people, especially the young, to believe that the end is near.

As a Wall Street Journal editorial opined, climate religion is "easier to preach with a seaside view from a bluff in Martha's Vineyard than it is from a village with unreliable electricity in the Congo." Little attention is paid to the threat of "net zero" on the welfare of the poor. Without fossil fuels or their equivalent, food production would collapse in the developing world.

India and other developing countries are jointly demanding \$1.3 trillion in "climate financing" every year by 2030, over and above what developed countries have already promised, if they are to introduce climate-change measures. Emerging economies will not sacrifice poverty eradication and economic development to follow a "net zero" approach that brings so much pain for such little climate reward.

The world still gets 80 per cent of its energy from fossil fuels. As part of its recently approved Inflation Reduction Act, the Biden administration unveiled a plan to spend US\$369 billion on climate measures, including the production of wind turbines, solar panels and electric vehicles. Yet Bjorn Lomborg indicates this expenditure "will have a negligible impact on climate change, reducing the global temperature rise unmeasurably, possibly by 0.0009 degrees Fahrenheit."

Increased reliance on weather-dependent renewables and electric vehicles—the singular salvation for climate activists—ironically helps China, which dominates the global market on many renewable components. Of the 136 electric vehicle battery factories expected to be operational by 2029, a total of 101 will be in China. China has one quarter of the global supply of lithium, an essential EV material.

The U.S. has one large-scale lithium mine, in Nevada. Two more were proposed nearby but ironically, environmentalists (those advocating a full conversion to EVs) are blocking both mines in the courts. Plans by Warren Buffett's Berkshire Hathaway to extract lithium from California's Salton Sea, with funding from the U.S. Department of Energy, have stalled over a contract dispute that led the government to rescind its grant.

Keep in mind that two-thirds of solar panels are also made in China. The more dependent the West becomes, the more China will, like Russia, weapon-



Derek Burney

ize energy policy to its advantage.

### Increased reliance on renewables ironically helps China

Climate change is an elitist obsession, one that ignores the pace, cost and unreliability of a full transition to renewables. Government regulations and corporate and financial market ESG (Environmental, Social and Governance) demands are contributing to a shortage of supply from U.S. refineries, which in turn is exacerbating the shortage stemming from Russia's invasion of Ukraine. U.S. Gulf Coast refineries are operating at 97 per cent of capacity but, as Joseph Toomey quipped in RealClear Energy, "There isn't any more blood to be squeezed from this turnip." Mexico has quickly grasped the opportunity and is building a \$12-billion refinery that will start producing next year.

Yet, U.S. and Canadian leaders persist in suppressing responsible energy production and prattle on about the "existential threat" of climate change. Having failed to sway OPEC, the U.S. is turning to regimes like Venezuela's rather than liberating energy resources at home.

Few western leaders and opinion-shapers actually understand how the energy world works, nor do they acknowledge the catastrophic consequences of their vain-glorious climate change posturing. A strong dose of reality on energy security is sorely needed.

The United States, Canada and Mexico have abundant energy resources that others envy. With a collaborative commitment to approve LNG pipeline projects and export terminals, North America could be a superpower economically and geopolitically; more effective on the global stage than all the misguided affectations about climate change could ever achieve.

It is time to confront the miasma of climate zealots and recognize that energy security is the handmaiden of economic and national security. Common sense and self-interest should dictate greater emphasis on innovation, rational regulations and investments that support fossil fuel development, and a measured approach to green energy.

*Derek H. Burney is a former 30-year career diplomat who served as the Ambassador to the United States of America from 1989-1993.*



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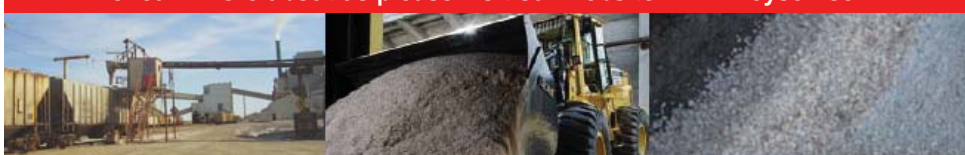
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# Mining, Energy and Manufacturing



## 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 farther, 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.

Continued on page B21

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# Mining, Energy and Manufacturing



## 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.

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.

ity 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. Financial 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.

*Continued on Page B19*

### 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 abil-



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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 signs 21-year mineral leases

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 ap-

propriate 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](http://www.prairielithium.ca) or contact [info@prairielithium.ca](mailto:info@prairielithium.ca).

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# Mining, Energy and Manufacturing



## Enbridge releases Indigenous Reconciliation Action Plan

Continued from Page 17

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.

## Saskatchewan potash mining facts

Saskatchewan potash is a critical mineral used worldwide as a replenishing agricultural fertilizer to feed the growing global population that is soaring towards an estimated 9.7 billion by 2050.

The potash industry contributes \$8.3 billion to the GDP and pays \$526 million in federal, provincial and local taxes.

For every direct job in the Saskatchewan mining industry, there are at least two jobs in the mining supply and service sector.

The industry directly employs 6,000 people in Saskatchewan with a total payroll of \$800 million in salaries. The 2019 national average salary of employees in the Canadian mining industry was \$123,000.

Saskatchewan potash companies invest in community initiatives, programs, and causes that enhance quality of life across the province.

\$10.5 million has been invested in various communities and Indigenous partnerships.

Potash is a valuable resource that has a significant positive impact on the economy of Saskatchewan and its communities.

Saskatchewan has the largest and richest potash resources in the world, and could supply the needs of farmers worldwide for several hundred years. Saskatchewan has approximately half of the world's potash reserves.

Not only does potash nourish the Earth, it's also used to make industrial products and pharmaceuticals.

Three producing companies—K+S Potash Canada, The Mosaic Company and Nutrien Ltd.—operate 10

mines in the province. Seven mines are underground and three are solution operations.

21.8 million tonnes of potash were mined in 2020.

Mining is one of the safest industries in Saskatchewan, and in Canada. Total Recordable Injury Rate for Saskatchewan potash sector are 1.9.

Saskatchewan potash is made with 50 per cent lower GHG intensity than potash produced by global competi-

tors.

\$1.4 Billion in goods and services is procured from Saskatchewan businesses, and \$160 Million in goods and services is procured from Saskatchewan Indigenous businesses.

Saskatchewan did \$5.5 billion in sales in potash in 2020, making it the number one potash producer in the world.

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# Mining, Energy and Manufacturing



## Mosaic invests in potash digital skills training for Indigenous students

Continued from page B16

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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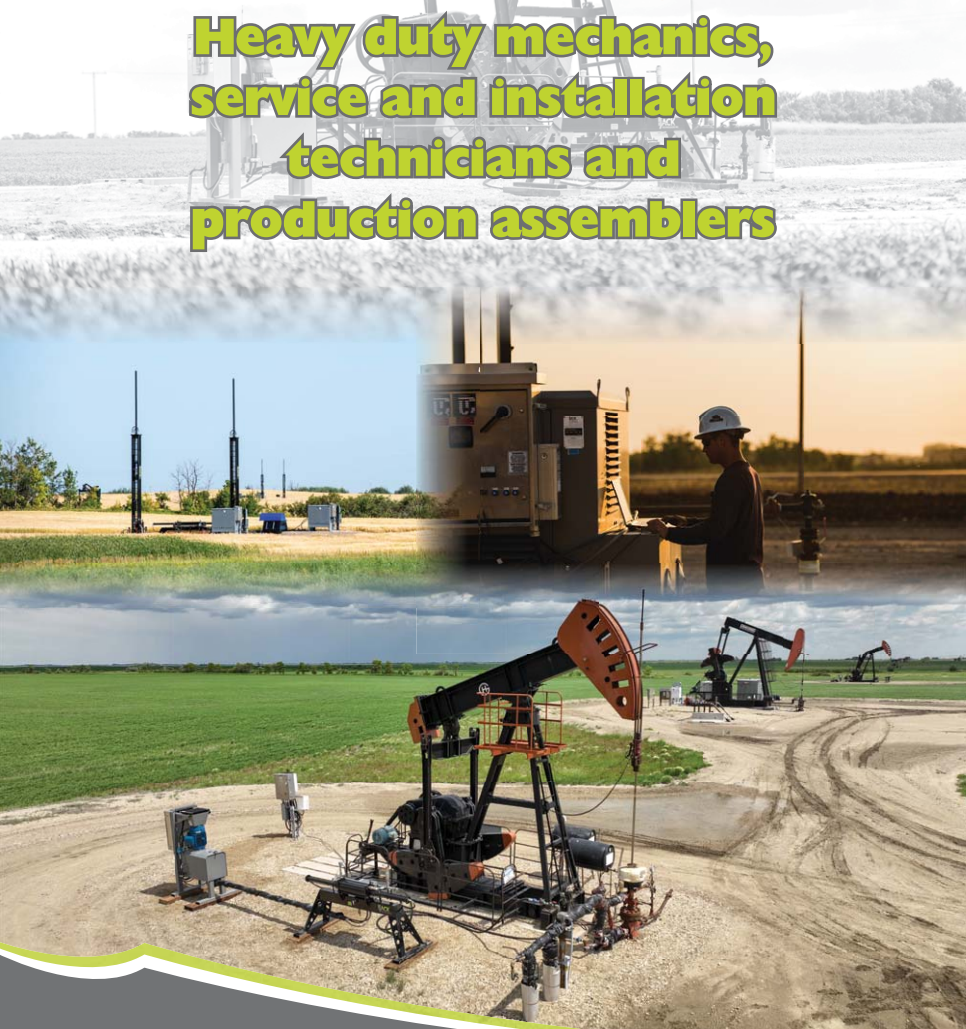
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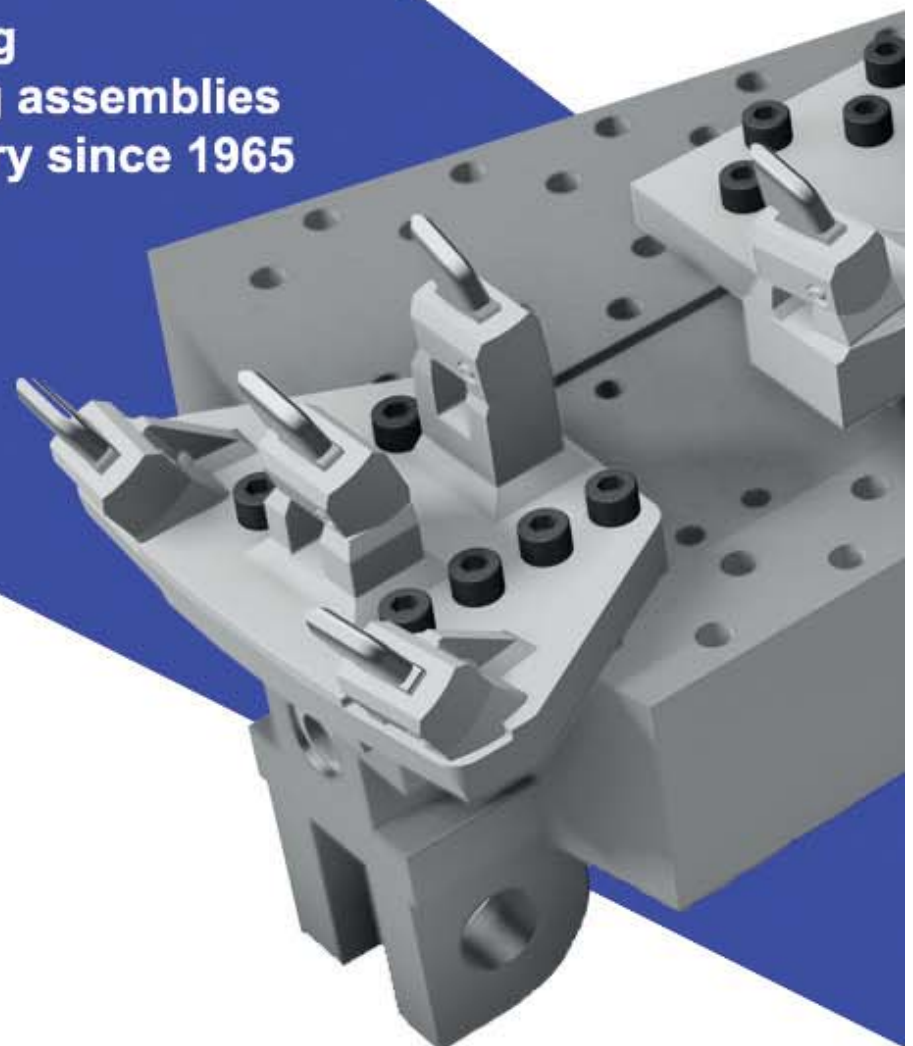
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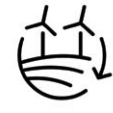
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# Mining, Energy and Manufacturing



## 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 particular from the perspective of emerging and developing countries, where you see coal might be playing a critical role in providing electricity and keeping the afford-



Deborah Jaremko

ability 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 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 Woodfibre 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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