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OMUSHKEGO ISHKOTAYO TIPACHIMOWIN

A publication of Five Nations Energy Inc. Volume 8 Issue No. 1

FNEI's Fibre Optic Future Looks Bright...



In November 2009, Five Nations Energy Inc. (FNEI) witnessed the next step in upgrading its system with the lighting up of the fibre optic telecommunications cable on the FNEI system. After many years of working on this system upgrade, FNEI is happy to report that a number of new services are now available to the communities that we serve. We would like to introduce you to the new technology and what it will mean for our communities.

Fibre optic technology works by combining small tubes that send light from one point to the other along a cable. By sending these light signals through the system, data (including Internet data) is transferred between the two points. Because the transfer happens very fast, it is a significant improvement over the former system which used microwave towers to move the signals. Also, the small size of the fibre optic tubes means that many signals can be sent at any given time, which allows for more usage. Community members should no longer get a busy signal when they dial out, something that happed before because there was not enough capacity in

Omushkego Ishkotayo Tipachimowin Fall 2010 -

The Omushkego Ishkotayo Tipachimowin is a free newsletter published to keep the Mushkegowuk Communities and the general public informed about the Five Nations Energy Inc. Transmission Line and other issues associated with energy use.

Five Nations Energy Inc. is a federally incorporated non-profit corporation that owns and operates a 138kv electrical transmission line from Moosonee to Attawapiskat, ON. This line connects three remote Cree communities to the main Ontario transmission grid and covers a distance of 270 kms.

For more information visit www.fivenations.ca. Cree translation provided by Greg Spence.

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President's Message



Greetings to everyone.

Thank you for reading this newsletter. I believe that it is important to keep you updated on all of the progress Five Nations Energy Inc. (FNEI) has made.

First of all, I would like to thank our departing Chief Executive Officer Joe Gaboury who has been a great asset over the past year. Joe left FNEI in August to work for a mining company based in Toronto, and we wish him all the best in his future endeavors. At the same time, we also welcome our interim CEO Derek Stephen.

FNEI also welcomes Vladimir Govorov in the role of Maintenance Supervisor. More information about Vladimir can be found later in the newsletter, and we are happy to have such a talented and experienced individual joining the FNEI team to help keep the lights on. A very special welcome to Vladimir!

FNEI has seen a flurry of activity in the past year around the "Ring of Fire" region of Northern Ontario. This area near the Webequie and Marten Falls First Nations is being targeted by mining companies because of the vast mineral deposits found there. As a result of this interest, other communities in Northern Ontario are also looking

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Message from the CEO



FNEI Interim CEO Derek Stephen
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Watcheay to the community members.

As you may be aware, Joe Gaboury left the corporation for another career opportunity in August. After being involved with FNEI as a former Board member representing Kashechewan, I am happy to be acting as Interim CEO for the corporation. I am from Kashechewan and will already be familiar to many of you through my previous work as Deputy Chief of Kashechewan and with various

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organizations in Kashechewan, including the Kashechewan Power Corporation. I have also been involved with the Boards of Payukotayno Hudson and James Bay Family Services, Nishnawbe Aski Police Services, Kashechewan Power Corporation, Kashechewan Health Services and Creewest Inc.

FNEI has been a success story for over ten years, and I am happy to do my part to continue the corporation's success. We are working diligently to complete the last phase of the transfer of assets for the new transmission line from De Beers. At the same time, we are going through a rates hearing with the Ontario Energy Board, who is our regulator and approves our transmission rates. All of our staff and advisors are industriously working to ensure that the lights stay on, that our assets are maintained and are operating safely, and that the communities continue to share in our success.

Derek Stephen
Interim Chief Executive Officer

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into ways to connect to the Ontario electricity grid and have started looking to FNEI for advice. Since FNEI was the first transmission company owned by First Nations in Ontario, we are well positioned to help other First Nations. We look forward to continuing to help other communities learn how to do the same for their community.

The fibre optic telecommunications line was lit in November 2009, and is providing services to the three member communities of FNEI. The fibre optic line gives community members access to faster high-speed Internet, improved telephone service, video conferencing and the ability to bring tele-medicine and tele-education to the James Bay coast. These important advances, led by FNEI, will give communities greater connections to each other and to the rest of the world. Please see the fibre optics article in this newsletter for more information about what fibre optic technology can mean for our region.

Congratulations to all of our scholarship winners. We have included some information on the scholarship winners in this issue, but I would like to personally wish you all of the best. I hope you will continue to be an example for the rest of your fellow students and will one day give back to your communities in a meaningful way.

In the next few months, the Board and our Interim CEO Derek Stephen will be busy undertaking a strategic planning exercise. In the strategic review, we will be looking at our past achievements, where the company stands now, and where we want to go in the next ten years. We look forward to working with our Local Distribution Companies to make this review a success by finding new opportunities to improve and ways to give our customers the best service possible.

I hope you enjoy this newsletter.

Mike Metatawabin President of FNEI

Recent FNEI Activities

Transmission Upgrade:

When the De Beers Victor mine was being planned, the company approached FNEI to upgrade the high voltage electricity transmission line to allow the mine to operate. FNEI was willing to upgrade the line, but the upgrade would only be allowed to be built if it did not impact the community requirements for electricity.

The new line from Moosonee to Kashechewan was originally built and paid for by De Beers, and final negotiations are now taking place to transfer ownership of the line to FNEI. The transfer was waiting on the approval of an Indian Act permit that allowed the use of land by the transmission line on Fort Albany Reserve #67. The transfer of the transmission assets to FNEI from De Beers is now expected to be completed by December 2010.

Fibre Optic Line:

As part of the new build from Moosonee to Kashechewan, FNEI entered a new phase of its operations when it entered into an agreement with De Beers and the transmission line builder to install a fibre optic cable along the new transmission line. In November 2009, the fibre optic line began to supply high speed internet service to Kashechewan and Fort Albany. To complete the system, FNEI undertook the building of a stand-alone fibre optic line to Attawapiskat as well.

FNEI leases the fibre optic line to local service provider called the Western James Bay Telecom Network. Half of the fibre optic line is used by FNEI, while the other half is used by the Western James Bay Telecom Network. The fibre optic line can bring high-

speed internet, improved telephone service, and other services to the communities along the transmission line. There is more information on this fibre optic line later in the newsletter.

Rates Application:

It is important to know that Five Nations does not set the rate for how much it costs to send electricity to the communities. This rate per kilowatt hour is an average of all transmission costs in Ontario. This rate is determined by the Ontario Energy Board (OEB) that is designed to keep electricity prices fair for the consumer.



FNEI must appear periodically before the OEB to apply for the amount of money that it will require to continue to supply electricity in a safe and efficient manner. This is called the rate application. FNEI will need to prove to the OEB that it requires the money it is applying for and also show that it has spent money in a responsible manner as outlined in its license. The OEB will then issue a judgment on the rate application.

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the old system!

Although the fibre optic network was an initially high cost item, there are many savings that are possible with the new technology. The fibre optic system allows FNEI to improve its remote monitoring of the transmission system. High definition cameras have been installed at the substations in the three communities, and the fibre optics system allows the staff at the Timmins headquarters to remotely monitor the safety of the site and any problems that occur. This should improve system reliability, and get things working much faster. In the past, the system may have been down for the several hours to wait for an equipment specialist to fly in and fix a problem. With the new system, if there is a problem with the equipment at the substations it may be an equipment specialist from Vancouver that uses the cameras to look at the malfunctioning equipment and provide guidance to staff on the ground. Remote access will help staff at the substation to repair the equipment as quickly as possible.

In the photo on page 7, Vladimir Govorov, FNEI's new Maintenance Supervisor, is seen standing beside a monitor that allows him to quickly check on the system at each of the communities along the FNEI line. Vladimir can easily see the equipment at the substations and can direct repair crews to the problem from hundreds of kilometers away. This saves travel time and costs, and should mean less power interruptions because problems can be identified early.

Some of the other uses of the fibre optic line are found at the community level. In February 2010, the Western James Bay Telecommunications
Network (WJBTN) launched high speed fibre optic transport and internet services for First Nation communities, hospitals, schools, and businesses.
WJBTN enables access to new services

such as tele-health and tele-education which can link the communities to teachers, doctors and nurses hundreds of kilometers away but that are still able to help community members in need of services. This will help improve the lives of James Bay coast community members. Residents can subscribe to wireless high speed Internet services through Xittel Telecommunications Inc., the Internet Service Provider.

A new possibility for the communities is access to Voice Over Internet Protocol service, also called VoIP. This VoIP technology allows



This is an example of the fibres in a fibre optic cable.

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community members to use services like Skype (www.skype.com) or another service to use their internet and computer like a telephone line. Although you need a subscription to talk to anyone not using Skype, sometimes it can save money on long distance services. FNEI looks forward to continually improve its system over the coming years. FNEI also will be working closely with WJBTN to continually improve the system to give community members the best possible access to this new technology.

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FNEI's new Maintenence Supervisor Vladimir Govorov with one of the new display pannels that uses Fibre Optics to help FNEI monitor the electricity system.

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Welcome Vladimir!

This past year has seen some new changes for FNEI, including the arrival of the newest member of the FNEI team, Vladimir Govorov. Vladimir joins FNEI as the new Maintenance Supervisor.

Vladimir's journey to FNEI has been a long one, and began in Russia. In the early 1990's, Vladimir entered university in Tomsk, a university town located in Central Russia. While at university he became interested in the transmission and utility sector and did a work placement in the Protection and Control department of a company called Altaienergo (http://www. altaienergo.ru/). After he graduated in 1994 with an Electrical Engineering degree, Vladimir went to work full time for the same company (Altaienergo) and held a number of different positions. Eventually he was responsible for a substation maintenance department and the grid control centre before moving to Canada in 2002. Since arriving in Canada, Vladimir has gained experience as an Electrician, Maintenance Supervisor, and in recent years as an Engineering Project Manager in the Utilities sector.

At FNEI, Vladimir is kept very busy working through any of technical issues that develop and he is also responsible for operations and planning. Vladimir works with Operations Technicians Chris Innes and Robert Chookomoolin to keep the system operational at all times. Vladimir also must make sure that all subcontractors hired by FNEI maintain the transmission lines, substations, communications systems (such as fibre optic lines), maintenance, and keeping the system safe and efficient. When not at work, Vladimir enjoys music and plays bass guitar.

Vladimir thinks that the best part about working for FNEI is that he has many opportunities available in the small company to learn new things and to apply his knowledge in a number of unique fields and projects. Vladimir also enjoys working with the Local Distribution Corporations (LDC's) to make sure the lights stay on in the communities that depend on FNEI. Good luck Vladimir. Welcome to the team!

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Maintenance Update: The Power of Nature

The new fibre optic line has been a considerable benefit to the system and brings new communication services to the communities in our service area. Throughout 2009 FNEI worked to install the fibre optic line along the transmission corridor, install security cameras at the substations, build communications shelters with equipment to work over long distances,



The broken fibre optic cable ∇ $4.9 < \sigma^{\ } \nabla$ $\Lambda d < \sigma^{\ } 4 + \Gamma \cdot \Delta$ $\Lambda \hookrightarrow b = \Lambda^{5}$

and successfully activate the line. FNEI's fibre optic installation team was very happy with its results and to see the fibre optic line in place.

In a sudden flash of light, lightning struck the fibre optic line. The strike occurred on May 24, 2010 at 9:33 PM on the FNEI line between Moosonee and Kashechewan, approximately 30 km North of Moosonee. The fibre optic cable was sliced and it cut internet access to the northern communities. The lightning strike really showed the power of nature in a very real way.

The FNEI repair crew quickly responded to the site and found the sliced wire with the exposed fibre optic cable. The repair crew worked very hard to restore service in the remote area

and was able to finish the job on June 5, 2010. FNEI is proud of the hard work completed by the repair crew and their proven ability to respond in an emergency situation.

Conservation Projects are Coming

Five Nations Energy Inc. (FNEI) was recently approved to participate in an energy conservation program with funding provided through the Ontario Power Authority's Conservation Fund. The fund is designed to support the growth and development of electricity conservation pilot projects that can promote energy savings. FNEI recognized the Conservation Fund as an important way to help promote energy conservation and sustainability in the communities of Attawapiskat, Fort Albany, and Kashechewan. FNEI will be using the Conservation Fund primarily to carry out energy audits on some residential homes and Band-administered buildings in the communities.

Energy audits involve inspecting a home or building to find out where air is entering or escaping, causing heating costs to rise as heaters must work harder to keep a constant temperature. Inspectors also can look at wall, roof, and floor insulation, as well as roof quality, thermostat settings, pipes, appliances, and any other areas of a home that can cause heat loss or an excess of energy used. Energy audits have been growing in popularity in recent years as homeowners have faced rising costs for heating, cooling, and other energy use.

FNEI hopes that the pilot projects can bring many benefits to the three communities. The project will try to measure the before and after effects in the pilot project buildings to show how conservation efforts can help the community and individual home owners to save energy. Also, the project will help educate community members

on the simple options available for conservation and to train some community members to carry out audits.

FNEI is working with the Mushkegowuk Environmental Research Centre, Technical Services and Economic Development departments in the communities and a company called Energy Matters to carry out this program. By December 2010, the project team hopes to have developed communication and education tools, a report on electricity consumption data, and to obtain quotes for shipping energy-saving products to the community. The project will continue through 2011 and will help the communities identify where to complete home energy-efficient upgrades. In upcoming issues of the newsletter, we hope to update you on the progress of this important new project for the communities.



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Five Nations Energy Inc. Donations

Another way that Five Nations Energy Inc. (FNEI) gives back to the communities is through its community donations.

Every year the company sets aside a portion of its revenue to go towards worthy causes in the Mushkegowuk region. Funding requests are received from a variety of organizations, many of whom are in need of some assistance to reach their fundraising goals. In the past, FNEI has provided funds to schools, sports, community events, and cultural festivals to ensure that these organizations can stay active.

Some of the events that FNEI has helped support are included below:

Youth/ Elders Gathering 2010 for the Mushkegowuk Council Youth Department

The Mushkegowuk Council Youth Department was hosting the "Reclaiming Our Traditions" youth and elders gathering from February 18-19, 2010. They requested funds to help support workshops, keynote speakers, and traditional activities at the core of First Nations culture.

Timmins Native Friendship Centre—White Stone Cree Singers to attend a Youth Memorial in Attawapiskat

The White Stone Cree Singers requested funding to travel to the Youth Memorial Gathering. The gathering was held between July 29th and August 2, 2010 and was in memory of youth that had recently passed away.

Sports Teams (various)

FNEI receives many requests to help fund sports teams from leagues in the communities. FNEI values the role that sports play in the youth of our service area and also recognizes the teambuilding that can come from such sporting events.

Northern College Pow Wow Committee

The Northern College of Applied Arts and Technology held a Pow Wow at the edge of PowWow Trail in Timmins between April 10-11, 2010 with participants from across Ontario and Northern Quebec. The funding for the event went towards general expenses that could include honorariums for Elders, MC's, dancers, accommodations, the feast, and advertising. This cultural event brings First Nations communities together to celebrate aboriginal culture.

Moose Factory Canada Day Committee

FNEI also supported Moose Factory's Canada Day celebrations held every year on July 1st. This is an important event that brings the community together and FNEI is proud to help support the community's festival.

Creefest

FNEI supports Creefest, a gathering of Mushkegowuk Communities to celebrate Cree Culture. Creefest 2010 was held at Chapleau Cree First Nation.

FNEI encourages community groups within the Mushkegowuk region to seek donations. If you feel that your organization should be considered, please contact the FNEI office for the donation rules and an application form. FNEI will routinely collect the applications and will contact only those organizations under consideration.

To reach the FNEI office, please call: 705-268-0056 or visit us at http://www.fivenations.ca for more information.

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FNEI Scholarships

Five Nations Energy Inc. (FNEI) wants to support community members and make sure they reach their full potential. One of the ways that FNEI gives back to the communities is through educational scholarships for community members.

For the 2009-2010 school year, FNEI supported seven community members from the Mushkegowuk communities. Five of the scholarships went to students selected by communities, and two others were selected by the Northern Lights School in Moosonee.

- Willie Wesley was selected by the Attawapiskat First Nation Education Authority and will be attending Canadore College to complete a General Arts and Science program and will enter Heavy Equipment Mechanics.
- Elizabeth Koosees was selected by the Hishkoonikun Education Authority and will be working towards becoming a welder at Sault College in Sault Ste. Marie.
- Honarine Scott was selected by Mundo Peetabeck Education Authority and will be off to Laurentian University in Sudbury enrolled in the Nursing Program.
- Isaac Sackaney was selected by Taykwa Tagamou Education and will be studying Electrical Engineering in the United States at New River College in Dublin, Virginia.
- Pamela Corston was selected by the Moose Cree Education Authority and will complete an Architectural Technology program at Humber College in Toronto.
- Jonathan Tozer was selected by the Northern Lights Secondary School and will be attending Canadore College for a program in Mechanical Engineering.
- Brittany Gagnon was also selected by the Northern Lights Secondary School and will enter the Radio Broadcasting program at Canadore College.

FNEI is proud of all of the students receiving scholarships for this year. We look forward to the students coming back to their community with the knowledge they learn in their studies.

Congratulations to all of the scholarship recipients!

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