

## OMUSHKEGO ISHKOTAYO TIPACHIMOWIN

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A publication of Five Nations Energy Inc. Volume 6 Issue No. 3

### Spare Transformer Improves Reliability in Attawapiskat

As part of its ongoing commitment to improving the reliability of its transmission system, Five Nations Energy Inc. successfully and seamlessly transferred the community of Attawapiskat to a spare transformer on Wednesday May 2 at 19:45 EDT. All work was completed as planned and the electricity customers of Attawapiskat were not even aware that this took place, as they saw no impact on their electricity supply.

The second transformer is now fully available for emergency restoration of the electricity supply in the event that there is a problem with the primary T3 transformer. The transfer time is now only hours, as opposed to the 10 to 20 days it would have taken before this system upgrade. Once local operators have been trained to carry out the transfer on their own, the transfer could take place in less than an hour if need be, but until that time, FNEI staff would need to be flown to Attawapiskat in the event of a transformer failure.

While the failure of a transformer is rare, it can happen and when it does, it can cause long outages. While FNEI has always had a spare transformer in Attawapiskat, if the energized transformer failed, it could take anywhere from 10 to 20 days to complete the transfer to the back-up transformer. During this time the community would not be connected to electricity grid, and a back-up electricity



supply would need to be provided by the community's diesel generator.

FNEI is planning to energize the spare transformer in the community of Fort Albany before winter as part of its capital plans to improve its transmission system. FNEI continues to work toward increasing the reliability of supply of electricity to the communities it serves and is pleased that this upgrade will allow it to provide a more reliable supply of electricity to the community of Attawapiskat.

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The Omushkego Ishkotayo Tipachimowin is a free newsletter published by Five Nations Energy Inc.

The purpose of this publication is to keep the Mushkegowuk Communities as well as other members of the public informed about the Five Nations Energy Inc. Transmission Line Project 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 contact visit http://www.fivenations.ca. Cree translation provided by Greg Spence.

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### President's Message

There are never enough words that can be said about someone who has done exceptional work for the benefit of their own people. This summer and last fall, we sadly bid farewell to two colleagues who contributed significantly to the construction of the Five Nations Energy Inc. transmission line project which, as you know, is owned by the communities of Attawapiskat, Kashechewan and Fort Albany. I want to acknowledge two of our own who worked with us to provide better and more efficient electrical service to our coastal communities.

Our two friends were totally committed to completing and maintaining this magnificent asset. The efforts on the part of these two remarkable individuals along with the other team members of the project have brought better living conditions for the folks up along the coast. In time I know that our people will come to better appreciate what they have today, especially considering what we had to contend with before hooking up to better generating facilities to the south. Ernie T. Sutherland and Cecil MacDonald played key roles in helping to build this transmission line. Many obstacles were overcome to bring the project to reality, maintain the line and build upon its successes. Mr. Sutherland, as the first President of Five Nations Energy Inc. was heavily involved in the negotiations with all levels of government to get the project off of the ground and Mr. MacDonald dedicated himself to the construction and maintenance of the line. You can find more information about Mr. MacDonald and his achievements later in this newsletter. On behalf of the member communities, we extend our words of appreciation to the families of these two individuals. God bless!

Earlier this past summer, some members of our board were given the opportunity to tour all three substations in each one of the communities. We also had a chance to see where the Five Nations Energy Inc. line connects to the Hydro One Networks line from Otter Rapids. As one of the participants taking the tour, it was totally astounding to see how big the equipment is and how much work is involved in maintaining and doing the work to upgrade these facilities. It is very impressive and today I have a much better appreciation of what our communities have as an asset. It is our hope too that our young people can begin to pursue the education required to become employed within this line of work. It wasn't that long ago that we had to sit in the dark to wait for Ontario Hydro to show up whenever the line went down. If the weather was bad, we had to wait until it cleared up before repairs could begin. There was nobody else we could count on to provide a solution whenever a problem occurred. Five Nations Energy Inc. is happy to report that we now have our own people who provide the maintenance service, and our owner communities should be proud of this as well. It is quite encouraging to see our own young people doing the work themselves.

During one of the annual spring breakups two years ago, it was our own personnel who tackled the job of reconnecting both Kashechewan and Attawapiskat when some of our poles were knocked down by the ice on the Albany River crossing. For an event such as this, Hydro One had a tentative plan which would have taken close to three weeks before they could have fixed the damage. Under the direction

of our late colleague, Mr. MacDonald. and along with some assistance from our Hydro One friends in Moosonee, the Five Nations Energy Inc. team came up with its own plan. Because of their quick action, power was restored to Fort Albany within eight hours and Kashechewan and Attawapiskat were reconnected to grid supply 11 days later. If FNEI had not been able to reconnect the Kashechewan and Attawapiskat as quickly as it did, the fuel supply at both sites might not have been enough to keep the generators going. This would have meant more power outages and more costs to fly in more fuel for both communities

We found out from the tour of the facilities that the total amount of the assets owned by the communities is at \$80 million. This figure is the value of all of the infrastructure including the lines, poles, equipment and the substations at each one of the three communities, but excluding the portion of the line from Attawapiskat to the Victor site. The ownership of this portion of the line will be transferred to FNEI once the work is done at Victor and this will add to the value of the total assets.

Each community is serviced by its own distribution company and each has its own distribution assets. Overall, the operation of the transmission and the three distribution companies is a huge success and should be the pride and joy of the communities. There is no other First Nation-owned transmission company anywhere else in Canada. Cat Lake was the only other First Nationowned transmission company, but close to two years ago, it was handed back over to Hydro One because of financial difficulties. Five Nations is also one of the only five licensed transmission companies in Ontario. It is quite imperative that we continue to operate the way we do today and hopefully this will encourage other First Nation groups to set up there own transmission companies.

We are a model to be looked upon

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and every interested group from the south is closely keeping an eye out to see how we are doing. The two levels of government are closely monitoring our progress also and this is done through the strict guidelines set out on how we operate. The regulations are so carefully observed that deviations from the rules on how we operate could result in the province taking back the company. Each owner community has its role as well in making sure that these regulations are adhered to. This is done through the appointment or selection of the boards and staff of the local distribution companies. They represent the membership of the corporation and they are accountable to the Chief and Council of each First Nation. It is also important to see that these local operations are a success on their own. They too have certain obligations they have to adhere to.

The coming winter will see the conclusion of the construction of the

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second transmission line to Kashechewan and will also include the installation of the fibre-optic line which will allow the coastal communities access to high speed internet and improved telephone service. There are so many advantages to this technology. Our communities are moving forward in great strides and everyone at the community level should take joy in being a part of this successful locally owned operation. I want to acknowledge our project team,

the local power authorities and the Chief and Councils for their dedication and commitment to the work they do to make this a success. Take time to know what we have accomplished and what we can do with this to improve the lives of our young people. We are on the edge of creating opportunity and this time, we are a part of it: we are a player in any development that comes knocking on our doors. Gitchi Meegwetch.

Michael Metatawabin, President



Members of the Five Nations Energy Inc. Board of Directors and advisory team during the tour of FNEI assets on May 24, 2007. From left to right: Mary Jane Okimaw, Patricia Sutherland, Larry Brooksbank, Nancy Wood, Jacques Camirand, Mike Metatawabin, James Koosees, George Friday Jr, and George Hookimaw.

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In Memoriam - Cecil George MacDonald



October 24, 1949 - July 1, 2007 トハレベコ・ム ハイ・24 1949 トライン ハイ・1 2007

Five Nations Energy Inc. reports with deep sorrow the death of our General Manager, Cecil MacDonald, who passed away on July 1, 2007 after a long and courageous battle with cancer. Cecil played an integral role in FNEI's operations since joining the corporation in May of 2001, bringing with him extensive knowledge and experience in the electricity industry. Along with his expertise, Cecil's dedication, professionalism and ethics were a major asset to Five Nations Energy Inc. and were an inspiration to everyone that he worked with or came into contact with on or off the job.

As General Manager at FNEI, Cecil played a key role in starting the line worker apprenticeship program in the three local distribution companies and worked very closely with the apprentices, helping them with their training and development. Cecil was always planning for the future, working on improving the transmission system to make sure that the lights would stay on. A perfect example of Cecil's dedication and the competence he showed in his work can be found in his response to the flooding of the Albany River during breakup in April of 2006. Flooding and ice floes knocked down several poles causing a power outage. Because of Cecil's competence and leadership, electricity to Fort Albany was restored within hours and, working with the team that he had built up over the previous five years, power was restored to Kashechewan and Attawapiskat within a week – much faster than had been anticipated. Senior Hydro One Networks personnel were amazed at the speed at which Cecil was able to repair the damages and restore power.

Cecil's career included positions with the Department of National Defense, the Moosonee Public School Board, the Ontario Clean Water Agency, Ontario Hydro, and Kidd Creek Mines. Cecil also founded and ran his own company, CecMac's Electric, which serviced First Nations, federal and provincial government agencies as well as many businesses in the private sector and homes. Throughout his working career, Cecil had many accomplishments but none that he was more proud of than to be employed as the General Manager for Five Nations Energy Inc.

Although many of us knew Cecil as a very capable and committed professional, his family was the highest priority in his life. He was well known in the Timmins community as a skilled hockey player. He loved the outdoors,

especially when he could combine activities like hunting and fishing with spending time with his grandchildren.

Cecil will be dearly missed by everyone whose life he touched. Five Nations Energy Inc. would like to express its most sincere condolences to Cecil's family.

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The apprentices at the Local Distribution Companies recently practiced safe operation of breakers wearing Arc Flash protective clothing. Douglas Nakogee from Fort Albany Power Corporation is in both photos at the left; David Wesley from Kashechewan Power Corporation is on the top right, and George Edwards from FAPC is on the bottom right.

# Announcing the New FNEI Website in Cree!

On Monday, July 9th, the Five Nations Energy Inc. website became bilingual when it was expanded to include information in the Cree language. Translating the FNEI website into Cree is an important step to improving communications to the First Nations communities. "FNEI feels it is important to make our communications available our native language," said Mike Metatawabin, President of Five Nations Energy Inc. "We are always looking for new ways to improve communications with the communities we serve and this website is a great step forward." The new website can be found at: www.fivenations.ca/cree.

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## Summer Energy Saving Tips!

- Use an air conditioner only when you really need it. Wear lighter clothes and use a fan instead. Ceiling fans use very little electricity and can keep you cool, but make sure the fan is blowing downwards in the summer.
- Keep blinds, shades and drapes closed during the hottest part of the day in the summer time.
- Turn off unnecessary lights in the house (regular incandescent bulbs produce a lot of heat which works against the AC.) You can also keep your house cooler by using Compact Fluorescent Lightbulbs (CFLs or spiral bulbs).
- Turn off the heater in the crawl space during the summer time, but make sure you remember to turn it on again in the fall so your pipes don't freeze!
- Your dryer is the second biggest user of electricity in your house so hang your clothes outside to dry instead.

- Make sure the settings on your fridge and freezer are only as cold as you need. Check the recommendations of the manufacturer.
- If you have an extra fridge or freezer that is not used very much, consider unplugging them. It could save you \$150 or more per year in electricity costs, especially if it is an older fridge or freezer.
- Don't overfill the refrigerator, as this blocks air circulation. On the other hand, a full freezer will be more energy efficient better than an empty one. Let food cool down on the counter before putting it into the fridge or freezer.
- Conservation can be as easy as planting a tree. Plant leafy (deciduous) trees on the sunny side of your house. During the summer they provide shade, and in the winter they will shed their leaves to let the warming sunshine through. Pine or fir trees on the north side provide an energy-saving windbreak.



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## Western James Bay Telecom Network to use FNEI Fibre Optic Cable to Deliver High Speed Internet Services

Contributed by Morry Brown, Project Coordinator, Western James Bay Telecom Network

Residents and businesses in Kashechewan and Fort Albany could soon receive high speed Internet services from the planned Western James Bay Telecommunications Network (WJBTN) if provincial and government funding is received to deliver advanced telecommunication services to the communities.

WJBTN, an initiative led by Mushkegowuk Council since 2002 with support from all of the Councils, the communities and Five Nations Energy Inc., has submitted funding applications to the Northern Ontario Heritage Fund Corporation and FedNor for the necessary electronic equipment to transmit data and telecommunication services on the fibre optic cable that Five Nations Energy Inc. is installing on the the new transmission line from

Moosonee to Kashechewan.

"We are grateful to the leaders of Five Nations Energy Inc. for providing 12 of the 24 fibre optic strands to the Western James Bay Telecom Network to deliver services to the communities," said Stan Louttit, Grand Chief of Mushkegowuk Council. "FNEI's investment in fibre optics ensures continuous on-line monitoring of their electrical transmission system that services the communities and enables the new Western James Bay Telecom Network to introduce modern telecommunication services to our residents at market prices."

A service provider was recently selected through a request for proposal to provide wireless high speed Internet services in Kashechewan, Fort Albany and Attawapiskat and to assist WJBTN to manage the fibre-based network when

it is launched later this year.

Construction crews are expected to extend the power line and optical ground wire which contains the fibre cable across the river from Kashechewan to the Fort Albany sub-station this summer. The new transmission line will then be energized to meet De Beers' electricity requirements for the new Victor Mine. High speed internet services for residents and high speed data for video conferencing and telehealth services to name a few will be available following the launch of the network.

High speed internet services are expected to be available in Attawapiskat in the summer of 2008 following the construction of the new pole line and activation of the fibre optic cable from Kashechewan to Attawapiskat this coming winter.

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√ v d ∪ b  $^{\circ}C\cdot\nabla\Phi$ C·b $^{\circ}$ C $^{\circ}\Phi$ P $^{\circ}$ A $^{\circ}$ C $^{\circ}$ √□ 6 Δ)(Γ √□ 6 β) ᢖᡎᢗ᠂᠘᠕ᡐ᠋ᢇᠲᠳᡐ᠔᠈᠙᠘ PPLVAL, 9Cb2, DQ\_CF\_PQL  $PL_{-}^{\rho} A \Delta U \cdot \Delta A \cdot \Delta P \cdot \Delta P \cdot \Delta A = 0$ 

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## Planned Outages for Summer and Fall 2007

The rest of the summer and fall of 2007 will be busy construction seasons for upgrading more of FNEI's substations as well as making changes to Hydro One's Moosonee and Otter Rapids stations. This construction is needed because of the larger electrical load that will be brought over the transmission line to power the DeBeers mine. Outages are also needed to connect an extra transformer in Fort Albany. It is not possible to make these changes while the electricity is on.

FNEI has completed a few outages already this summer. All of the work planned for these outages was completed successfully. The outage on June 13th for 3 hours and the outage on July 4th for 3 hours both went according to plan. Another outage occurred on July 23rd and 24th. Work was successfully completed as planned and on the 23rd, power was restored 2 hours ahead of schedule.

FNEI and Hydro One Networks have planned two more outage events within the next several months that are needed in order to complete more work to the transmission system. Please refer to the table for planned dates and lengths for outages for the various communities. You should keep in mind that these

might have to be changed. You can ask your local distribution company for the latest information, as the dates draw nearer.

As you may know, customers in Moosonee and Moose Factory are serviced by Hydro One Networks and customers in Fort Albany and northwards are serviced by FNEI's transmission line. To reduce the amount of time that its customers are without electricity, FNEI is timing one of its outages so it happens at the same time as the major outage that Hydro One Networks needs to do its work at Otter Rapids on Monday, July 23rd.

At the end of these outages, FNEI will have a second circuit from Moosonee to Kashechewan. This means that reliability of service will increase because there will be two supplies of electricity available from

Moosonee. If one transmission line is damaged south of Kashechewan, FNEI will still be able to bring power to all three communities through the other transmission line.

Shortly after the October 20th outage, FNEI will be able to complete its connection of the spare transformer in Fort Albany, similar to what was accomplished in Attawapiskat in May of this year. This will not require any additional outages if work goes as planned, and will further increase the reliability of electrical supply to Fort Albany.

FNEI is planning its construction work to keep the inconvenience of its customers at the lowest level possible, however, this work is needed in order to improve the transmission system so that the length and number of UNPLANNED outages is lower in the future.

Dates	Affected Locations	Length of Outage
Saturday,	Fort Albany, Kashechewan,	14 hours
September 8	Attawapiskat and Victor Mine	
	Moosonee and Moose Factory	6 hours
Saturday,	Moosonee, Moose Factory,	14 hours
October 20	Fort Albany, Kashechewan,	
	Attawapiskat and Victor Mine	

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45" 45° 6 σΛσσ` ρ 4"U·∇α·L'

4σρ σρα' Δ(°6σγ.Δ Δ'dU'x

Γγ.∇ 4σ]σ° 4<Πγ.Δσσ° 6 .Δ

ΔΓ(σ.4d<π 6 ρ 4"U·∇αρ' ρΓ

Γγ.∇ ρ Γσ<σσ° σ° ( ρ ρς.4'x

6 ρ 4"U·∇σ6U' γρ<6.Δ Λγ'

13 σ°) ρσ.6σ'6° σ° ( 6 ρ

4"U·∇σ6U' ρ'<6.Δ Λγ' 4 σ°)

ρσ.6σ'6° ρ Δ΄Λσ° 6 ρ Δς

ρα(σ.4' 4<Πγ.Δ'x Γα ρ

4"U·∇σ6U° ρ'<6.Δ Λγ' 23 σ° (

24x 4<Πγ.Δ' ρ ρς.σσ.σ' 6 ρ

Δ(^(σ·<) ~ ^( <σL σ)( α σ^) ∇ Δ()dαβγ′ σ~ βσ·βσ<sup>\*</sup>β° σγβα β βι(σ·<) ~ °( Γα β ·

 Φ & P.P. 4
 4 J.C. Δ-PPI, Q.9 Π.«

 Φ & P.P. 4
 4 J.C. Δ-PPI, Q.9 Π.«

 Φ Q
 4 J.C. Δ-PPI, Q.9 Π.«

 Φ Q
 4 J.C. Δ-PPI, Q.9 Π.«

 Φ Q
 4 J.C. Δ-PPI, Q.9

 Φ Q
 4 J.C. Δ-PPI, Q.9

 Φ L. Φ. Δ. Δ-PPI, P.Q.
 4 J.C. Δ-Q.9

 Φ L. Φ.Δ. Δ-Q.9
 4

გა.⊲	ΔC·Δۅ ∇ ∢°C·∇ρ	<b>∇</b> Φ٩⁄ و ۲۰۵۰ کم۹۸ م
.∆∆₀ V५。 8 △ ୮∪۳·∆ Ь₹₽,	$VC\Lambda$ , $\partial U.4$ , $dC\cdot dV_{\nu}P_{\lambda}$ $\varphi_{\nu}C$ $VO_{\ell}$ $T \sigma \nabla \partial \cdot \nabla_{\lambda}$	ᢐᢄᠫ᠕᠂᠙ᠣ᠂ᠪᠦ <sup>᠃</sup> ᡖᢀ
		᠈ᠯ᠂ᢗ^᠂᠙ᠣ᠂᠍᠍ᡃᡉᢅ᠂ᢅᡖᢀ
∇ LU•·Δ blp.	$\partial \mathcal{L} \cdot \nabla_{\mathcal{A}} \cdot \mathcal{L} = \mathcal{L} \cdot \nabla \mathcal$	ᢇᢄᠫ᠕᠂᠙ᠣ᠂᠍ᡈᠣ <sup>᠃</sup> ᡖᢀ

P P^9&U&.4N.9 4&P 6 4<CC^  $4)^64\cdot4$  Vb, 9  $\nabla$ CL $^6$ 4 $^6$ L  $4)^64\cdot4^7$   $6^46^3$   $\Delta C^6-6^4\cdot\Delta$   $\Delta C^4U\cdot\Delta$  $PLG^PLA \Delta ULA + \Delta VLA + \Delta VL$ deb P d< L(L) PANDE debœρσ, ∇Cυρως,∇ QAN, dic C  $\Delta S = A^{\circ}U \cdot \nabla a \cdot L' \quad a^{\circ}C \cdot \Delta a \cdot A^{\circ} \quad V \cdot b \cdot a'$ 9 4^U·Va[&[ Δ¾U&° VУ` Δ¾U·Δ >° PS6-9
>°< G·</p>
Λ·  $\Delta$ COd $\alpha$ P $\gamma$  $\sigma$ U $_{x}$ 

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 $\triangleleft$  , C  $\vee$  CA9,\* C  $\triangleleft$  U L·\$\sigma\_1\$,  $\triangle$  LL\\$\mathcal{L}\$\text{PI}\$,  $\triangle$  FL\\$\mathcal{L}\$\mathcal{L}\$\text{PI}\$,

γρ βι  $\nabla_{\mathcal{L}}$ ς φρ,  $\nabla$ ρ γρ γρ γρ βι  $\nabla_{\mathcal{L}}$ ς  $\nabla$ ρ γρ βι  $\nabla_{\mathcal{L}}$ ς  $\nabla$ ρ γι  $\nabla$ ρ γι  $\nabla$ ρ βι  $\nabla_{\mathcal{L}}$ ς  $\nabla$ ρ γι  $\nabla$ ρ βι  $\nabla_{\mathcal{L}}$ ς  $\nabla_{\mathcal{L}}$ 



Construction underway at the substation in Fort Albany for the connection of the spare transformer.