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Supplementary Information

Renseignements supplémentaires

Presentation from Historic Saugeen Métis

Présentation de Historic Saugeen Métis

Bruce Power

Bruce Power

Bruce Power Mid-Term Update of Licensed Activities

Rapport de mi-parcours au sujet des activités autorisées de Bruce Power

Commission Meeting

Réunion de la Commission

September 20 and 21, 2023

Le 20 et 21 septembre 2023



Historic Saugeen Métis

Presentation to the Canadian Nuclear Safety Commission

Comments on Bruce Power Mid-Term Update on licensed activities at the Bruce Nuclear Site

September 20-21, 2023
Kincardine, Ontario



HISTORIC SAUGEEN MÉTIS

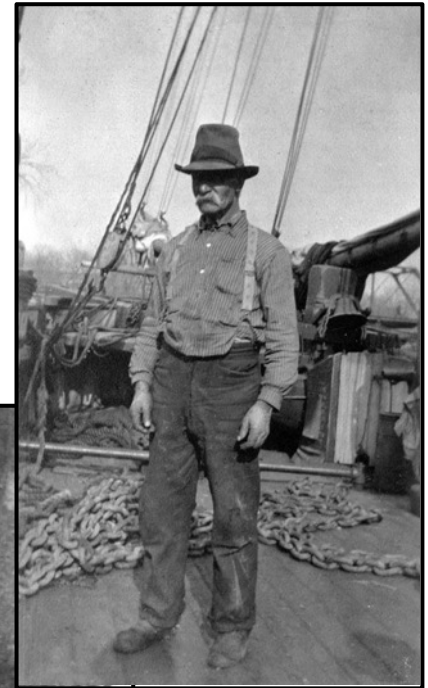


The Historic Saugeen Métis Community

The local Historic Saugeen Métis (HSM) Community consists of the politically independent historic Métis, whom have resided for over two-hundred years along the Lake Huron proper shoreline from the islands at the tip of the Bruce Peninsula to the Ausable River in the vicinity of Port Franks, Ontario.

Our distinctive Métis community is rooted along the shoreline of eastern Lake Huron. For almost three decades prior to settlement of the Saugeen region, the Historic Saugeen Métis traded in a south-north axis along the shoreline from above Sarnia to Lake Huron's North Shore.

Present-day Historic Saugeen Métis community members are descendants of the *historic* Métis who have lived in, cared for the land around the Bruce Nuclear Site.



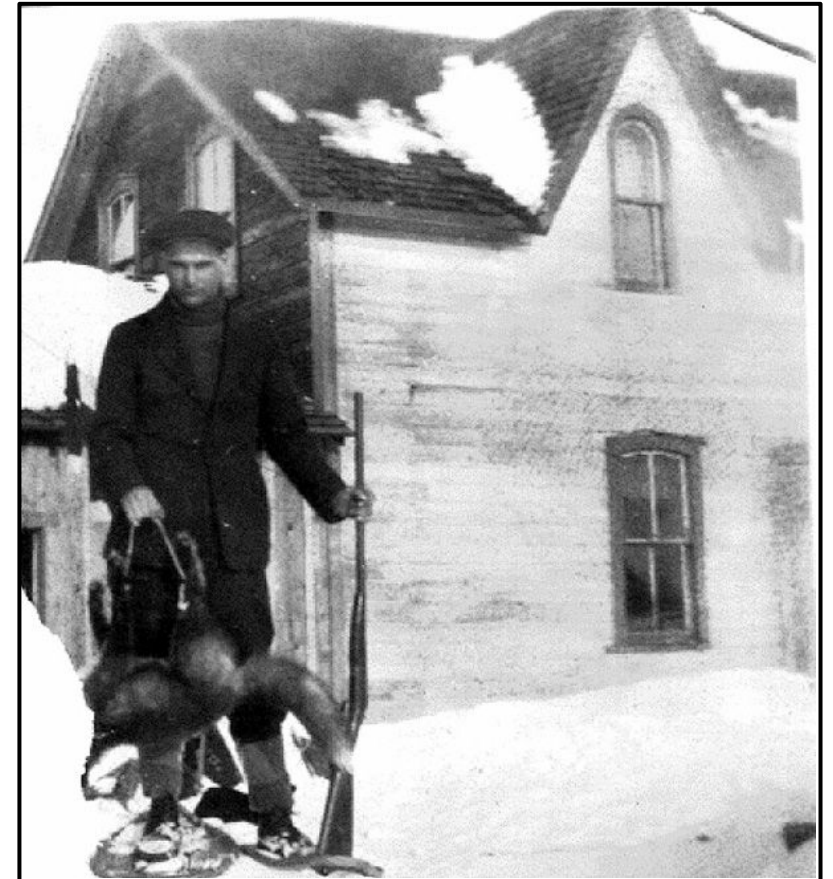


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Overview of HSM practices

Prior to 19th century treaties with the Crown, the HSM harvested the lands and waters bordering Lake Huron proper and the Saugeen Peninsula to as far south as the Port Franks area. This area included HSM places of residence, places where HSM pursued their traditional practices and pursuits, and places of cultural and spiritual significance. Today, HSM continue their subsistence fisheries and land-based harvesting practices and asserts aboriginal rights over the lands and waters surrounding the Bruce site. These lands and waters provide vital support for our Métis culture and way of life, as well as the economy, health and social relationships in the HSM community.





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CNSC Consultation

HSM and CNSC staff have also collaborated in the field with the Independent Environmental Monitoring Program by introducing a new sampling site of cultural interest to HSM. CNSC staff also participated in a cultural/natural heritage hike led by HSM at MacGregor Provincial Park. During the COVID-19 pandemic, HSM and CNSC staff took the opportunity to organize 3 on-line workshops to learn more about the HSM history and culture. HSM looks forward to continuing to be informed, consulted and engaged, and to maintaining the good relationship with CNSC.





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Bruce Power

Indigenous Relations

Bruce Power continues to make timely and effective efforts in addressing HSM's interests and comments related to operations and activities. HSM and Bruce Power conduct regular quarterly meetings to discuss environmental activities, operations, projects, employment/training and economic opportunities. Additionally, special working group meetings are held to discuss regulatory activities and special projects. HSM and Bruce Power also conduct field visits to view new projects, environmental related activities and opportunities to share cultural knowledge.



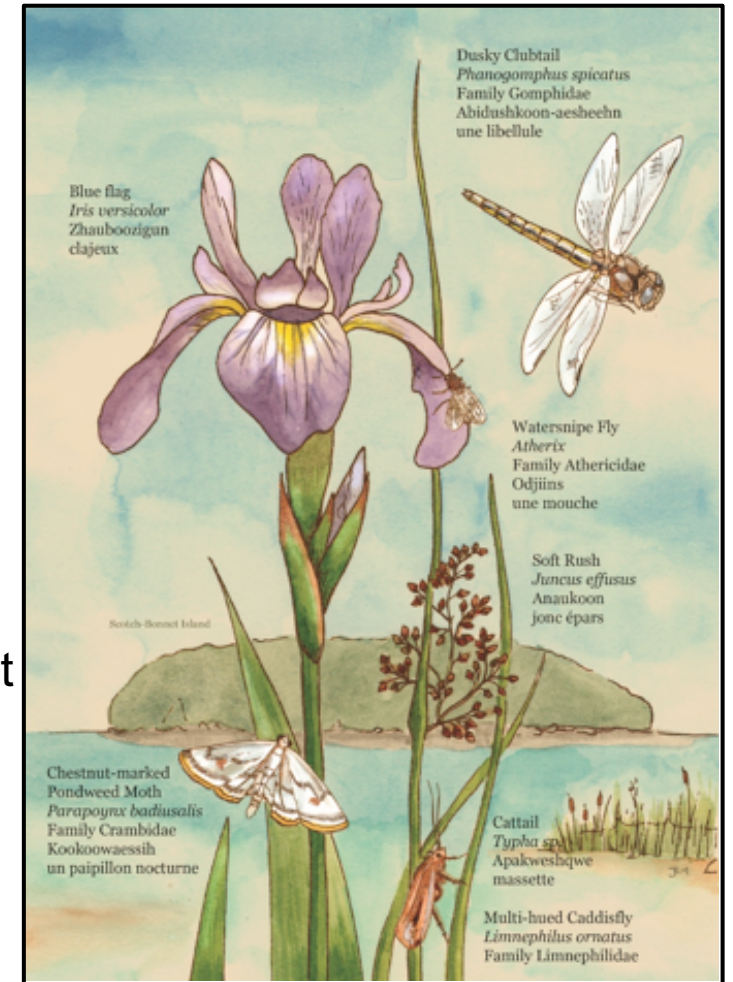


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Protecting the Environment

HSM and Bruce Power collaborated to develop and implement a *Fisheries Authorization* Offset project to reduce non-native *Phragmites* and improve fish habitat within the Lake Huron Fishing Islands area. The preservation of these coastal areas is richly important to the unique history and culture of the HSM people who fished, hunted, trapped, and harvested these lands and waters. HSM incorporated community knowledge related to coastal habitats and fish interactions into the scope of the project. The project is a comprehensive blended offset project that takes into consideration the values and interests of the HSM Community and DFO offsetting principles. The project has set a new standard for future engagement when considering environmental projects and situations.





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Environmental Sustainability

Climate change is rapidly advancing and the need to reduce our footprint on the earth is much greater today than just five years ago. Setting targets to lower greenhouse gas emissions is a critical step forward and nuclear energy is a recognized low carbon alternative energy source. Equally as important is the need to set new thermal effluent targets beyond the status quo. Similar to carbon emissions, thermal effluent deserves an actual reduction target that incites innovation and lessens the cumulative effects of rising water temperatures in the Great Lakes.





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Lake Huron

The impingement and entrainment of fish is an ongoing situation that has benefited very little from innovation or change since operations originally began at the Bruce site. Habitat enhancement projects have been employed to offset the effects but still the number of fish killed each year marches on with no change, no target for reduction. HSM is also concerned about invertebrates which are not closely monitored despite the vital role they play in this delicate ecosystem. At present, impingement and entrainment is not in need of more offsets but it does need a champion for innovation to set targets to reduce the number of fish killed.



Longe Fishing Station – Fishing Islands, Lake Huron



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Nuclear Waste

Minimizing spent fuel waste is critical as it reduces the overall impact to the environment today and for generations to come. The current waste hierarchy requirement of prevention, reduction, re-using, and re-cycling before disposal is valued as an important strategy. Investigating and implementing new technologies to reduce and reuse spent fuel is a key area that needs investment not only by industry but also Canada. Canada and the nuclear industry need to play a lead role to champion novel approaches and set realistic targets to reduce spent fuel waste.





Business Development and Employment

Bruce Power continues to demonstrate its commitment to achieving economic reconciliation with the HSM community. HSM and Bruce Power conduct regular monthly meetings to identify and improve opportunities for employment, education and training. Additionally, monthly meetings explore opportunities for economic development within the HSM community.

Community Engagement and Social Responsibility

Bruce Power supports a variety of initiatives within the HSM Community including public outreach, cultural reclamation, traditional knowledge, community knowledge development, cultural projects and education. In addition, support is provided for HSM's annual Rendezvous through both funding and participation at the event.



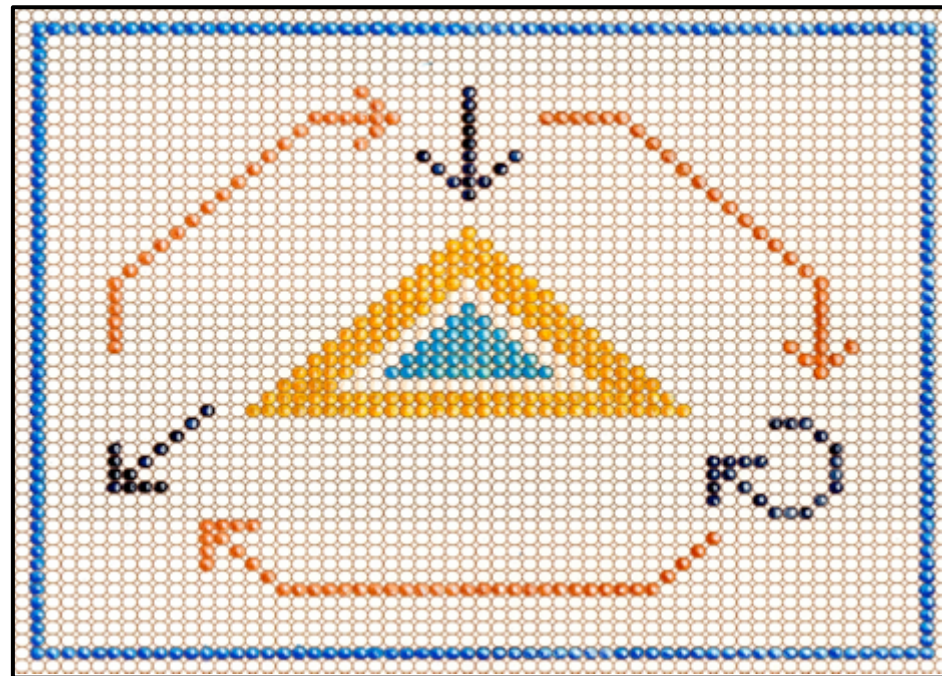


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The Next Five Years

The nuclear industry faces many environmental challenges when it comes to meeting the growing demand for energy...and with this challenge comes great responsibility. It's a challenge that can learn from traditional teachings when it comes to safeguarding mother earth...to harvest with minimal impact...to give thanks for what we have taken...and to give back, often greater than what we received.





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The historic outcomes of climate change in the last 5 years have brought pause to the HSM community. We are witnessing changes that have the power to forever alter the lands and waters that provide vital support for our Métis culture and way of life. The Historic Saugeen Métis community is prepared to help champion these new challenges and participate in discussions and actions that can help change the status quo.

The nuclear industry is very capable at meeting new challenges and innovating when you consider the example of Bruce Power's production of life saving medical isotopes. The environment is experiencing new challenges and innovation is needed to change specific operational outcomes that were developed over 50 years ago.

