Louis Bull Tribe's Journey:





Louis Bull Tribe Solar Project (Phase 1)

How our journey began

- Application process
- Recruitment
- Capacity Development
- 2015: Grant for First Nations Infrastructure Funding Approved
- The First Nation Infrastructure Fund (FNIF) helps First Nation communities develop their public infrastructure to improve the quality of life for First Nations



Our goal for our tribe to move into renewables:

- Save finances on electrical utilities in operation and maintenance
- Divert savings costs internally to organizations for programs
- Create capacity development for membership in the renewable industry
- Be environmentally responsible in harvesting energy for our own electrical needs
- Planning long term for phase/s on projects for public buildings.



What are the lessons that I learned that would be helpful for communities to know about solar:

- Consider the change of the Canadian dollar when proposal is developed and funding received
- Have a member, leader or housing manger/director to be trained before project
- Have an information workshop for your membership to have an better understanding of the technology, energy supplement and capacity development
- Utilize social media for updates and project progress
- Create long and short term initiatives public buildings, residential homes, yard/street lights, retro fits,
- Networking with research and development to get best practices in place



Louis Bull Tribe Adult Training Centre





40 KW - 160 Solar PV modules at 255 watts each 80 - 500 watt APSystem Dual Micro-Inverters

This system will generate approximately 44,000 kWh's per year on average

*Saving's example: If the micro-generator is paying \$.08/cents per kWh for electricity purchased, this system will save the micro-generator \$3,550 year on their electricity bill assuming that all of the generation is consumed and not sold.



Louis Bull Tribe Public Works and Fire Hall





25 KW - 100 solar PV modules at 260 watts each

- 2 10 KW SolarEdge Inverter
- 1 5 KW SolarEdge Inverter

100 - 300 Watt SolarEdge DC-DC Optimizers

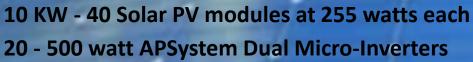
This system will generate approximately 27,000 kWh's per year on average

*Saving's example: If the micro-generator is paying \$.08/cents per kWh for electricity purchased, this system will save the micro-generator \$2,224/ year on their electricity bill assuming that all of the generation is consumed and not sold



Maskwacis Health Satellite Centre





This system will generate approximately 11,000 kWh's per year on average.

*Saving's example: If the micro-generator is paying \$.08/cents per kWh for electricity purchased, this system will save the micro-generator \$880/year on their electricity bill assuming that all of the generation is consumed and not sold.





Louis Bull Headstart Education





10 KW - 40 Solar PV modules at 255 watts each 20 - 500 watt APSystem Dual Micro-Inverters

This system will generate approximately 11,600 kWh's per year on average.

*Saving's example: If the micro-generator is paying \$.08/cents per kWh for electricity purchased, this system will save the micro-generator \$928/year on their electricity bill assuming that all of the generation is consumed and not sold.



Partnerships, collaborations and networking

- Find a champion or person of passion
- Not here to lobby for my tribe or represent all first nations. I am here as a FN who has experience in green initiatives
- Exchange of ideas and assist non first nations in regards to cultural protocol, the difference between engagement of dialogue and consultation
- The importance of reclamation and remediation
- The understanding of partnerships, collaborations and consultation in natural/land resource sharing trough the treaty agreements





Desmond Bull

Elected Official Louis Bull Tribe Environmental Steward

Personal Commitment Statement:

- To honour my role as a catalyst bridging Green Energy Partners with Indigenous communities focused on environmental stewardship.
- Promote collaborative efforts of all, while respecting treaty territories and future generations through protection and sustainability of the environment.
- Support of Indigenous green energy initiatives that are reflective of traditional land use and how this respects cultural connections.



Solar projects for Louis Bull Tribe in 2017

- 43 KWH to be installed on Louis Bull tribal administration building.
 100% funded by provincial Alberta Indigenous Solar Program
- 42 KWH to be installed on Louis Bull tribe community and health services building. 100 % funded by provincial Alberta Indigenous solar program
- 10 KWH to be installed on new transfer station. 100% funded through INAC infrastructure development
- 10 KWH to be installed on community day care. 100% funded by Iron and Earth program.



Future Initiatives for Louis Bull Tribe

- Explore wind, hydro, geo-thermal, and bio mass
- Agriculture (industrial hemp)and livestock (bison)
- Create an Energy Company for Louis Bull Tribe
- Create capacity development program with in our Human Resources department
- PV instillations, distributions and maintenance for local municipalities, counties and neighboring first nations
- Cooperative collective partnerships with neighboring first nations, municipalities and counties
- Develop a First nation Renewable initiative toolkit

