

Louis Bull Tribe's Journey:





Environmental Stewardship and The Louis Bull Solar project (phase 1)

Desmond Bull



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 manager/director to be trained before project
- Have an information workshop for your membership to have a 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



10 KW - 40 Solar PV modules at 255 watts each

20 - 500 watt APSystem Dual Micro-Inverters

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 through 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

